

Research Report

Evaluation of the Energy Conservation Impact of the Residential Rehabilitation Assistance Program

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EVALUATION OF THE ENERGY CONSERVATION IMPACT OF THE RESIDENTIAL REHABILITATION ASSISTANCE PROGRAM

Executive Summary

Background and Purpose

The Residential Rehabilitation Assistance Program (RRAP) helps to ensure that there is an adequate supply of safe and affordable housing for lower income Canadians and that substandard housing is brought up to a level of good repair. In the period 1974-1989, about 420,000 units were repaired, of which nearly 300,000 were owner-occupied residential units.

The funds allocated during this period were nearly \$1.9 billion dollars. Although the bulk of funds are for health and safety, a portion is available for energy conservation upgrades (ECUs). Even non-energy upgrades have spin-off benefits, however, with respect to energy efficiency in the unit. This hypothesis was confirmed by a 1986 Program Evaluation Division study, but information was sketchy and insufficient for providing direction to the Corporation in determining the impact of RRAP on energy issues.

The specific project objectives as outlined in the Terms of Reference are to:

- Develop a questionnaire and survey method to evaluate the

impact of the RRAP program, in general and specifically with respect to energy conservation.

- Conduct a pilot project to test and streamline the survey process.
- Develop a statistical analysis process to compare RRAP funding with energy conservation.

Methodology

After discussions with CMHC, **Ontario** was selected as the survey region for this pilot project.

The project was divided into two stages, **Phase I** and **Phase II**.

Phase I consisted of:

- a review of the Ontario RRAP database by CMR's Systems Manager
- collection of additional information from RRAP files
- a draft of the survey instrument to be used in Phase II

Phase II consisted of:

- 211 telephone interviews across Ontario
- statistical analysis
- report with recommendations for the national survey

Fieldwork and consultations with the CMHC field offices were conducted from November 12 to November 15, 1991.

The central files in Toronto were consulted between December 30, 1991 and January 6, 1992.

The fieldwork for telephone interviews was conducted between February 28 and March 8, 1992.

In accordance with the standards of the Canadian Association of Marketing and Research Organizations, a minimum of 10% of the work of each interviewer in the survey was validated by a CMR field supervisor.

Summary of Key Findings

Phase I

The existing RRAP database does not provide details of the type of activities performed under the RRAP program. If this is of interest for future research in energy conservation evaluations or other analyses, consideration should be given to developing a checklist of typical

activities as a modification or addition to the inspection process for inclusion on the database.

Obtaining authorization for access to the CMHC database and establishing contacts and coordinating with the regional offices and the archives proved to be a relatively slow and delicate process. The process could be streamlined if for the national study CMHC were to include permission forms declaring willingness to participate in a survey at application time.

In Ontario, relatively few of the files were available at local offices (16%), and it was necessary to consult the archives in Toronto to collect information on the types of activities done in the home. In just less than nine out of ten cases (87%) it was possible to collect some information from either the local office or the archives on the activities performed on the homeowner's dwelling.

About two-thirds (64%) of the files could be used as a sample for a telephone survey, in that both details on what was done to their home and telephone numbers were available.

Phase II

The pilot survey confirms and reinforces the importance of energy conservation as a key motivation and reason for participating in the RRAP program.

RRAP has contributed to the improvement of energy efficiency not

Given the logistics and project funding constraints, option 1) was adopted.

The statistical analysis approach recommended to compare RRAP funding with energy consumption, is to link the actual cost of the RRAP activities done on the survey sample's homes with the dollar value of energy conservation savings and the percentage savings on the energy consumption, and then to project the findings of the survey to the RRAP population as a whole. The CMHC account number is used as an identifier or link between survey and CMHC's full database. Thus the variability of the sample or subsample from the RRAP population can be measured and evaluated.

only by supporting energy conservation activities (such as window and door replacement and upgrade, insulation, replacement and upgrade of heating systems, caulking and weatherstripping), but also as an indirect effect in terms of increased awareness of energy conservation by homeowners.

An overwhelming majority (79%) stated they were more likely to think about saving energy in the home since participating in the RRAP program. Almost three quarters (73%) indicated the RRAP program had some influence on their attitude and behaviour towards saving energy in the home. Between one in three and one in four claimed to have modified their heating/cooling settings, to adjust their thermostat down at night in winter and/or to service their heating system more regularly — more so than before participating in the RRAP program.

An overwhelming majority (78%) believe that the RRAP program made their house more energy efficient, that they use less energy than before (65%) and that they have saved money on their energy bill(s) (77%) as a direct result of RRAP activities.

Incidence of availability of actual records of energy consumption before and after the RRAP activity **and** being willing to make these records available to CMHC for the purpose of calculating energy savings in consumption is relatively low at 19%. Willingness to give permission to

obtain records from local utilities and oil dealers, however is high at 81%.

Three avenues were investigated for a follow-up project:

- 1) a letter sent to willing respondents thanking them for their participation in the pilot survey saying that at this time CMHC would not be collecting their records/permission forms.
- 2) a mail-out of letters and/or permission forms and a pre-paid envelope addressed to CMR with analysis conducted on the households for whom "good quality" data are received/made available
- 3) interviewers making appointments to visit the homes of survey participants who live close to urban centres to obtain signed permission forms and/or the available records from households. These interviewers would also probe for specifics of the local utilities/oil dealer to be contacted. This approach was expected to provide a higher incidence of "good quality" records. This approach, however, is not cost-efficient and is not recommended for rural respondents. For rural respondents, outside the range of CMR's interviewer network the mail-out approach was recommended.

ÉVALUATION DE L'INCIDENCE ÉCONERGÉTIQUE DU PROGRAMME D'AIDE À LA REMISE EN ÉTAT DES LOGEMENTS

Résumé

Contexte et objet

Le Programme d'aide à la remise en état des logements (PAREL) concourt à assurer une offre suffisante de logements sûrs et abordables pour les Canadiens à faible revenu et à réparer les logements dégradés. De 1974 à 1989, environ 420 000 logements ont été réparés, dont près de 300 000 appartenaient à l'occupant.

Pendant cette période, près de 1,9 milliard de dollars ont ainsi été dépensés, surtout pour rendre les logements sûrs et salubres, mais aussi pour qu'ils consomment moins d'énergie. D'ailleurs, même les améliorations qui ne visent pas principalement une économie d'énergie ont des retombées éconergétiques. Cette hypothèse a été confirmée par une étude de la Division de l'évaluation de programme, en 1986, mais les données trop incomplètes ne pouvaient alors permettre à la Société de déterminer l'effet éconergétique du PAREL.

Les objectifs du projet, tels que définis dans le mandat, sont les suivants :

- o Établir un questionnaire et une méthode d'enquête pour évaluer l'incidence du PAREL, en général et de façon plus détaillée, sur l'économie de l'énergie;
- o Entreprendre un projet pilote pour vérifier et perfectionner le processus d'enquête;
- o Élaborer un processus d'analyse statistique pour mettre en parallèle les sommes versées dans le cadre du PAREL et les économies d'énergie.

Méthode

Par suite de discussions avec la SCHL, l'Ontario a été choisie comme région visée par l'enquête pilote.

L'enquête se divisait en deux phases.

La phase I comprenait :

- o l'examen de la base de données du PAREL en Ontario par le directeur des systèmes de CMR;
- o la collecte de données supplémentaires dans les dossiers du PAREL;
- o la préparation d'un questionnaire d'enquête en vue de la phase II.

La **phase II** comprenait :

- o 211 interviews téléphoniques un peu partout en Ontario;
- o une analyse statistique;
- o un rapport accompagné de recommandations en vue de l'enquête nationale.

Le travail sur le terrain et les consultations avec les bureaux extérieurs de la SCHL se sont déroulés du 12 au 15 novembre 1991.

Les fichiers centraux, à Toronto, ont été consultés entre le 30 décembre 1991 et le 6 janvier 1992.

Le travail sur le terrain pour les interviews téléphoniques s'est effectué entre le 28 février et le 8 mars 1992.

Comme le veulent les normes de la Canadian Association of Marketing and Research Organizations, au moins 10 % du travail de chaque téléenquêteur a été validé par un superviseur itinérant de CMR.

Résumé des principales constatations

Phase I

La base de données du PAREL ne fournit pas de détails sur le genre d'activités accomplies dans le cadre du programme. Si cela peut être utile pour des recherches ultérieures sur les effets éconergétiques ou pour d'autres analyses, il faudrait envisager d'établir une liste de contrôle des activités typiques afin de l'ajouter au processus d'inspection et d'introduire les résultats dans la base de données.

Les démarches visant à obtenir l'autorisation d'accès à la base de données de la SCHL et à établir des liens et assurer la coordination avec les bureaux régionaux et les archives ont été relativement lentes et délicates. La SCHL pourrait les accélérer si, pour l'enquête nationale, elle prévoyait des formules d'autorisation attestant la volonté de participer à une enquête au moment où la demande est présentée.

En Ontario, relativement peu de dossiers étaient disponibles aux bureaux locaux (16 %), de sorte qu'il a fallu consulter les archives, à Toronto, pour obtenir des renseignements sur le genre de travail accompli à la résidence du propriétaire-occupant. Dans un peu moins de 9 cas sur 10 (87 %), il a été possible d'obtenir soit du bureau local, soit des archives des renseignements sur ce travail.

Environ les deux tiers (64 %) des dossiers ont pu être utilisés comme échantillon pour une enquête téléphonique parce qu'on y trouvait à la fois les numéros de téléphone et des détails sur les travaux effectués.

Phase II

L'enquête pilote a encore mieux fait ressortir l'importance de l'économie d'énergie comme principal motif de participation au PAREL.

Le PAREL a contribué à l'éconergie non seulement en soutenant les travaux visant à économiser l'énergie (comme le remplacement ou l'amélioration des fenêtres, des portes et des systèmes de chauffage, l'isolation thermique, le calfeutrage et l'étanchéisation) mais aussi, indirectement, en sensibilisant davantage les propriétaires-occupants à la nécessité de ménager l'énergie.

La grande majorité (79 %) des répondants ont déclaré qu'ils se soucient davantage d'économiser l'énergie au foyer depuis qu'ils ont participé au PAREL. Près des trois quarts (73 %) ont affirmé que le PAREL a influé sur leur attitude et leur comportement à l'égard des économies d'énergie au foyer. Entre le quart et le tiers ont précisé qu'ils avaient modifié leurs habitudes de chauffage et de climatisation, qu'ils abaissaient la température des pièces durant la nuit en hiver ou qu'ils procédaient plus régulièrement à l'entretien de leur système de chauffage, depuis leur participation au PAREL.

La grande majorité (78 %) estiment que le PAREL a rendu leur logement plus éconergétique, qu'ils consomment moins d'énergie qu'auparavant (65 %) et que leurs factures d'énergie ont diminué (77 %), en conséquence directe des travaux effectués grâce au PAREL.

Une proportion relativement faible (19 %) des participants avaient en main les données réelles de leur consommation d'énergie avant et après les travaux PAREL et ont accepté de les mettre à la disposition de la SCHL pour le calcul des économies d'énergie réalisées. Toutefois, 81 % ont donné la permission de demander ces données aux bureaux des compagnies de gaz ou d'électricité ou des vendeurs de mazout.

Trois méthodes de suivi ont été envisagées :

1. Une lettre serait envoyée aux répondants qui se sont montrés coopératifs pour les remercier de leur participation à l'enquête pilote et préciser que la SCHL ne recueillera pas leurs dossiers et leurs formules d'autorisation pour le moment;
2. Des lettres ou des formules d'autorisation ou les unes et les autres seraient envoyées par la poste, accompagnées d'une enveloppe préadressée à CMR, et l'on procéderait à une analyse pour les ménages qui fournissent des données «de bonne qualité» ou permettent d'y accéder;
3. Des interviewers prendraient rendez-vous avec les participants qui vivent près des centres urbains et se rendraient chez eux pour y cueillir les formules d'autorisation signées ou les dossiers disponibles. Ces interviewers s'informerait aussi de l'adresse du bureau de la compagnie de gaz ou d'électricité ou du vendeur de mazout. Cette façon de procéder, croit-on, fournirait une forte proportion de dossiers de «bonne qualité», mais son rapport coût-efficacité est peu encourageant et elle n'est pas recommandée pour les répondants ruraux. Pour ces derniers, quand ils sont hors de portée du réseau d'interviewers de CMR, on a recommandé l'envoi par la poste.

Pour des motifs de logistique et en raison des contraintes financières, la première solution a été retenue.

La méthode d'analyse statistique recommandée pour mettre en parallèle la consommation d'énergie et les sommes distribuées dans le cadre du PAREL consiste à calculer le coût réel des travaux effectués sur les maisons de l'échantillonnage, ainsi que les sommes économisées en matière d'énergie et le pourcentage d'énergie économisée, puis de projeter le résultat sur l'ensemble de la population PAREL. Le numéro de compte de la SCHL est utilisé comme identificateur ou lien entre l'enquête et la base de données complète de la SCHL. Il est ainsi possible de mesurer et d'évaluer la variabilité de l'échantillon ou du sous-échantillon par rapport à la population PAREL.



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Canada

Section I - Introduction

I. INTRODUCTION

A. Background and Purpose of the Study

The Residential Rehabilitation Assistance Program (RRAP) helps to ensure that there is an adequate supply of safe and affordable housing for lower income Canadians and that substandard housing is brought up to a level of good repair. In the period 1974-1989, about 420,000 units were repaired, of which nearly 300,000 were owner-occupied residential units.

The funds allocated during this period were nearly \$1.9 billion dollars. Although the bulk of funds are for health and safety, a portion is available for energy conservation upgrades (ECUs). Even non-energy upgrades have spin-off benefits, however, with respect to energy efficiency in the unit. This hypothesis was confirmed by a 1986 Program Evaluation Division study, but information was sketchy and insufficient for providing direction to the Corporation in determining the impact of RRAP on energy issues.

The specific project objectives as outlined in the Terms of Reference are to:

- Develop a questionnaire and survey method to evaluate the impact of the RRAP program, in general and specifically with respect to energy conservation.
- Conduct a pilot project to test and streamline the survey process.
- Develop a statistical analysis process to compare RRAP funding with energy conservation.

B. Methodology and Activities

After discussions with CMHC, **Ontario** was selected as the survey region for this pilot project.

The project was divided into two stages, **Phase I** and **Phase II**.

Phase I consisted of:

- a review of the Ontario RRAP database
- collection of additional information from RRAP files
- a draft of the survey instrument to be used in Phase II

Phase II consisted of:

- 211 telephone interviews across Ontario
- statistical analysis
- report with recommendations for the national survey

As per the Terms of Reference, the information required (at a minimum) for data collection was:

- Furnace conversions
- Furnace burner upgrades
- Complete furnace upgrades (i.e. naturally aspirated to mid- or high-efficiency)
- Window upgrade
- Insulation upgrade
- Professional air sealing
- Housing type
- House age
- Construction details
- Occupant density, income level
- House location (urban, rural)
- Principal fuel type
- Climate (degree day)

Fieldwork and consultations with the CMHC Ontario field offices were conducted from November 12 to November 15, 1991.

The central files in Toronto were consulted between December 30, 1991 and January 6, 1992.

The fieldwork for telephone interviews was conducted between February 28 and March 8, 1992.

In accordance with the standards of the Canadian Association of Marketing and Research Organizations, a minimum of 10% of the work of each interviewer in the survey was validated by a CMR field supervisor.

Section II — Phase I

II. PHASE I

A. Review of Ontario RRAP Base

In the initial project meetings it was confirmed that **Ontario** was to be the pilot survey region and that the focus was on **homeowners** (rather than Indian bands, disabled and landlords). Arrangements were made for CMHC to provide access to the RRAP homeowners' database.

The source of information on the homeowners, the dwelling and the estimated rehabilitation costs is the RRAP Application Form (see Figure 1). This form and the database do not have the required detailed information on the type of activities (furnace upgrades, insulation, air sealing, etc.) conducted under the RRAP program. CMR requested and received a "stripped down" RRAP database. The file layout for the RRAP data provided is shown in Figure 2.

Figure 1

RRAP Application Form

Canada Mortgage
and Housing Corporation

Société canadienne
d'hypothèques et de logement

APPLICATION — HOMEOWNER — RRAP

1 **1** PLEASE PRINT CLEARLY

AGENT

2 AGENT NO. **3** AGENCY NAME **4** AGENCY OFF. NO.

5 LOAN FORGIVENESS ZONE **6** INDIAN BAND COUNCIL

ESTIMATED AGENCY FEES

7 DISTANCE TRAVELLED **8** AMOUNT TO BE CLAIMED

9 ACCESSIBLE BY ROAD YES ☐ NO ☐

APPLICANT(S) (include all owners) **24**

25 FAMILY NAME **26** GIVEN NAME **27** AGE

28 STREET NO. **29** STREET NAME **30** UNIT/FLY. NO.

31 LEGAL DESCRIPTION (WHEN NO CIVIC OR RURAL ADDRESS)

32 CITY **33** PROV. **34** POSTAL CODE

35 TEL. HOME **36** AREA CODE **37** HOME WORK **38** LANGUAGE **39** OTHER APPLICANT (IF MORE THAN ONE ADD LIST — FAMILY NAME FIRST)

40 APPROXIMATE AGE OF DWELLING **41** YES **42** NO **43** NO. OF YEARS OWNED **44** YES **45** NO **46** HOUSEHOLD TYPE **47** NO. OF YEARS OWNED **48** YES **49** NO **50** HOUSEHOLD TYPE

51 DWELLING TYPE

52 SINGLE **53** APARTMENT **54** SEMI DETACHED **55** MOBILE HOME **56** DUPLEX **57** HOSTEL/ROOMING HOUSE **58** TRIPLEX **59** OTHER

INCOME DETAILS

60 NO. OF DEPENDANTS **61** CORE NEED INCOME — THRESHOLD **62** TOTAL HOUSEHOLD INCOME **63** TOTAL DEDUCTIONS **64** ADJUSTED INCOME

65 TOTAL DEBTS AND ANNUAL PAYMENT

66 OWNERS AND SPOUSE'S DEBTS **67** ANNUAL PAYMENT **68** MORTGAGES (PRINCIPAL AND INTEREST) **69** PROPERTY TAXES **70** RRAP LOAN AND/OR OTHER REHABILITATION LOANS **71** OTHER BASIC SHELTER COSTS (E.G. ELECTRICITY, HEAT, WATER, SEWAGE, MAINTENANCE AND REPAIRS) **72** OTHER DEBTS **73** TOTAL ANNUAL DEBTS **74** TOTAL DEBT SERVICE RATIO

75 FINANCING — \$

76 RRAP LOAN (TOTAL LOAN AMOUNT) **77** CASH **78** SAVING **79** OWNER'S LABOUR **80** OTHER FEDERAL ASSISTANCE (SPECIFY) **81** OTHER PROVINCIAL ASSISTANCE (SPECIFY) **82** MUNICIPAL OR OTHER ASSISTANCE (SPECIFY) **83** OTHER LOANS (SPECIFY) **84** TOTAL FINANCING

85 COST DETAILS — \$

86 TOTAL ESTIMATED REHABILITATION COST (FROM BIDS AND/OR CONTRACTS ATTACHED) **87** OTHER COSTS **88** LEGAL COSTS **89** ESTIMATED INTEREST ON ADVANCES (IF PAYABLE PORTION ONLY) **90** ESTIMATED TOTAL COST

91 LOAN DETAILS

92 FORGIVABLE AMOUNT **93** EARNED INCOME (IF FORGIVABLE LOAN) **94** ANNUAL AMOUNT OF FORGIVABLE LOAN **95** INTEREST ADJUSTMENT RATE **96** REPAYABLE AMOUNT **97** AMORTIZATION PERIOD **98** INTEREST RATE **99** MONTHLY PAYMENT **100** TOTAL LOAN AMOUNT **101** LOAN TERM **102** NET AMOUNT INCREASE/DECREASE **103** ESTIMATED MATURITY DATE

CMHC 2332 1/87 P-FU-033 CMHC is subject to the Privacy Act. Information held by CMHC is subject to the Access to Information Act. CMHC is subject to the Access to Information Act. CMHC is subject to the Access to Information Act.

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ACTIVE PARTY: LOCAL OFFICE

Figure 2
Field Layout for RRAP Data

NAME1	Client name	A35 (First Last)
FORG	Forgiveness Amount	N4 (9999)
CAP	Capital Amount	N4 (9999)
TOTLOAN	Total Loan Amount	N4 (9999)
REHBUTAT	Unit Rehabilitation Amount	N4 (9999)
ADDRESS1	Property Street Address	A45
LANGUGCD	Language Code	A1 (E or F)
STRCTAGE	Age of Structure	N2 (99)
MUNIC1	Municipal Address	A24 (Munic., Prov.) *
ACCOUNT	CMHC Account Number	N8 (99999999)
OFFICEEN	CMHC Office English Name	A20
POSTCD1	Postal Code	A7 (ANA NAN)
IAD	Interest Adjustment Date	DATE (YYYY-MM-DD)
APLCAPRD	Approval Date	DATE (YYYY-MM-DD)
TYPE	Loan Type	A5 (Urban or Rural)
LGDESC	Legal Description	A60

* Translates to two fields on the CSV file

From the database of 12,013 account numbers received, a sample of 1,001 was chosen on an "nth select" process with representation from all the fourteen CMHC offices across Ontario. CMHC provided authorized contacts in all offices (except North Bay) and arrangements were made for CMHC to pull files for consultation by CMR personnel. Summary tables of the 12,013 database are to be found in Appendix A. Summary tables for the 1001 RRAP sample and contact analysis are included at the beginning of Appendix B.

A recording form was developed on which were recorded the details of the RRAP activities conducted on the homeowner's dwellings. Interviewer researchers were provided with guidelines on typical RRAP activities based on the Inspection Item lists from the RRAP Physical Inspections, 1982. An initial visit to the Toronto office showed files in the "**homeowner**" category that were combination landlord and homeowner applications. Consequently a question on this type of application was included on the recording form. Tabular data on the screening information collected at the Ontario CMHC offices is included at the end of Appendix B. For a copy of the recording form and field instructions consult Appendix C.

B. Collection of Additional Information from the Selected RRAP files

CMR sent representatives to the thirteen offices across Ontario (all except Thunder Bay) and data was collected from 149 files. This gives an "availability in local offices" rate of 16%. One hundred and three (103) of the 149 files from which information was collected were in Toronto. The rate of availability in local offices outside Toronto, therefore, was only 6% (46 available out of 801). For several offices, namely Kitchener, Hamilton, Barrie and Windsor, **none** of the files was available at the local office.

Arrangements were made to consult the archives in Toronto for information on the files that were sent off to Toronto.

Information on the work that was done on the homeowner's dwelling under the RRAP program from files in local offices and in the archives was obtained from 866 files or 87%. This information was tabulated and used in the design of the survey instrument, in particular for Q2 of the questionnaire (see Appendix D).

The incidence of household/landlord combination applications in our sample was very low at less than 2%.

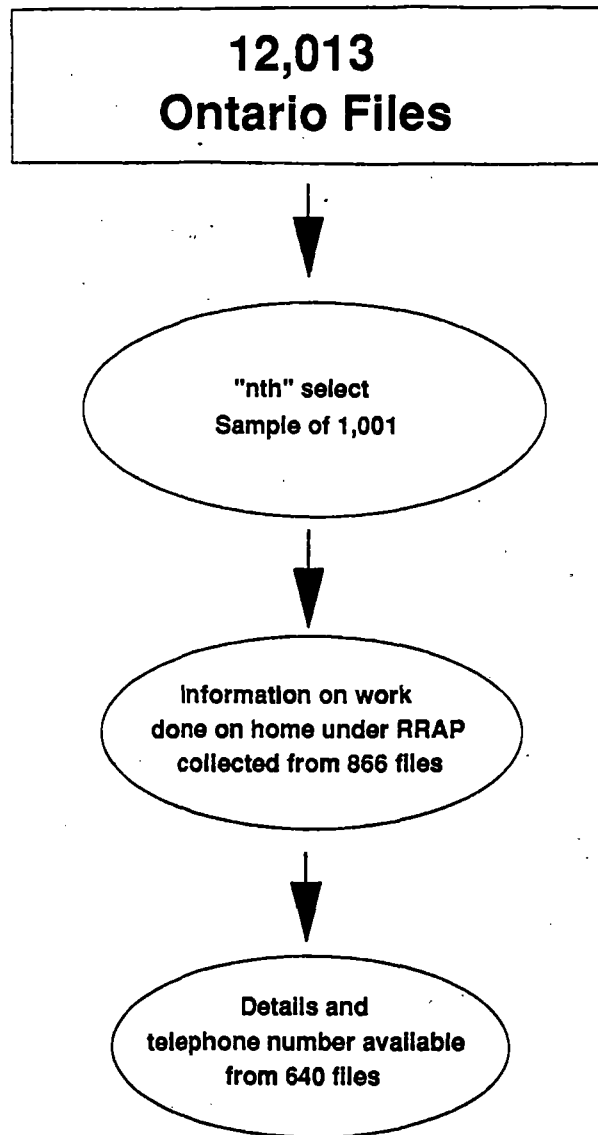
Experience consulting the files revealed that the volume of paper and the details of the RRAP work done varied considerably from file to file. In some cases the inspection reports were very thorough and detailed, while others would have statements, such as "upgrade furnace", necessitating searches through contractor records and invoices to find details of the furnace/heating system changes. In most cases the work done in the house was exactly as outlined in the original documentation, however, in some cases modifications were made. If CMHC wishes to collect information in the future on the types of activities done on houses, especially with reference to energy-conservation activities, we recommend that consideration be given to developing a checklist on which

inspectors can indicate the work done as part of the final inspection process. This could be designed as a modification of the existing form or as an additional form and entered on the RRAP database.

After the initial tabulation was complete, the sample from which to complete the telephone survey in Phase II was 640 households about which **both** information on RRAP activities done on the home could be collected **and** for whom a telephone number was available (see Figure 3). This represented just under two-thirds of the original sample selected.

Figure 3

Sample Selection and Availability



C. Draft of Survey Instrument for Phase II

Drafting of the survey instrument for Phase II was conducted concurrently with the visits to local offices and the archives in Toronto. The questionnaire incorporated both open-ended diagnostic questions and close-ended questions to cover the attitudes, perceptions, behaviour modification and energy conservation savings as a results of participation in the RRAP program. Towards the end of the survey, respondents were asked about their willingness to share energy record information and to provide authorization to contact local utilities/oil dealers to obtain energy use information about their household. A copy of the approved questionnaire is to be found in Appendix D. Section III of this report provides detailed analysis of the survey findings.

D. Summary

The existing RRAP database does not provide details of the type of activities performed under the RRAP program. If this is of interest for future research, consideration should be given to developing a checklist of typical activities as a modification or addition to the inspection process for inclusion on the database.

Obtaining authorization for access to the CMHC database and establishing contacts and coordinating with the regional offices and the archives proved to be a relatively slow and delicate process. The process could be streamlined if, for the national study, CMHC were to plan on selecting a random sample of applicants and obtained permission forms declaring willingness to participate in a survey at application time.

In Ontario, relatively few of the files were available at local offices (16%), and it was necessary to consult the archives in Toronto to collect information on the types of activities done in the home. In just less than nine out of ten cases (87%), it was possible to collect some information on the activities performed on the homeowner's dwelling from either the local office or the archives.

About two-thirds (64%) of the files could be used as a sample for a telephone survey, in that both details on what was done to their home and telephone numbers were available.

Section III: Phase II

III. PHASE II

A. Sample Size and Selection

From the 640 files for which details of the type of activities performed on the dwelling **and** a telephone number were available, 211 interviews were completed within the field budget. The completion time (the time to contact a co-operative respondent plus the interview time) was 30 to 40 minutes.

The interview was conducted using computer-assisted terminals, on which the details of potential respondents' names, addresses, telephone numbers, CMHC file numbers and the types of activities done on the home were pre-programmed to appear on the screen for the interviewer. Households from the 640 sample list were contacted in random sequence.

The telephone survey provided a good representative sample of the Ontario RRAP homeowner recipients. The 211 households interviewed in Phase II were similar to the Ontario RRAP population for the variables provided on the "stripped down" data file as shown in Figure 4. Full frequency distributions with standard deviations and standard error calculations for the Ontario RRAP population and the sample are provided in Appendices A and B.

Figure 4

Comparison of Survey Households
with Ontario RRAP Population

	Total Ontario	Base Sample	Files with Info and Tel #	Households Surveyed
Base:	(12,013)	(1,001)	(640)	(211)
Average Forgiveness Amount	\$4,181	\$4,195	\$4,124	\$4,174
Average Capital Amount	\$4,754	\$4,773	\$4,721	\$4,876
Average total Loan Amount	\$4,756	\$4,775	\$4,729	\$4,901
Average Age of Structure	43	42	42	44
Average Interest Adjustment Date	1988	1988	1988	1988
Average Approval Date	1987	1987	1988	1988
Language	%	%	%	%
English	95	94	97	97
French	3	4	3	3
Not stated	2	2	-	-
Loan Type				
Urban	61	61	65	63
Rural	37	37	35	37
Not stated	2	2	-	-

Figure 4 (Continued)

Comparison of Survey Households
with Ontario RRAP Population

	Total Ontario	Base Sample	Files with Info and Tel #	Households Surveyed
Base:	(12,013) %	(1,001) %	(640) %	(211) %
CMHC Office:				
Barrie	6	6	6	9
Hamilton	7	7	8	7
Kingston	9	9	10	12
Kitchener	8	8	9	9
London	6	6	5	5
North Bay	9	9	8	7
Oshawa	2	2	1	1
Ottawa	10	11	9	10
Peterborough	5	4	3	2
Sault Ste. Marie	4	4	4	4
Sudbury	13	13	12	14
Thunder Bay	6	6	8	11
Toronto	11	11	13	7
Windsor	3	4	4	2

B. Survey Results

1. Spontaneous Reasons Given for Having Work Done on House Under RRAP Program

Participants were read a list of improvements that had been made on their dwelling and were asked why they decided to have this work done.

Figure 5

Reasons for Having Work Done
- Most Frequent Spontaneous Mentions -

	Total
Base: Total sample	(211) %
Repair/Replacement/ Improvement/Upgrade	91
Energy Conservation: To improve energy conservation/energy-efficient/reduce heat loss/eliminate cold draft/switched to more energy-efficient fuel source system	44
Health/Safety	13
Maintenance	4

Source: Q2

As shown in Figure 5, the main reason for having the work done, cited by over 9 in 10 (91%), was for repairs, replacement, or improvements. This was to be expected, given the primary objectives of the RRAP program. The next most common reason, however, was **energy conservation**, with over 4 in 10 (44%) spontaneously mentioning this reason. The incidence of mentioning energy conservation varied by type of activity done in the home, as Figure 6 indicates.

Figure 6

**Percentage Giving Energy Conservation as
Reason for Having Work Done
- by Type of Activity -**

	Total
	%
Base: Total who had type of work done	
Insulation (41)	68
Windows/Doors (114)	61
Heating System (28)	57
Attached Structures (43)	54
Interior of Home/Walls (35)	51
Electric upgrade (40)	48
Siding (26)	46
Roof/Chimney repair (106)	43
Plumbing (25)	40
Basement (29)	31

Source: Q2

Energy efficiency or conservation was cited spontaneously as a reason for having work done more frequently by those who had done energy conserving activities, such as upgrading insulation, door and window replacement or sealing, and heating system replacement or conversion. In addition, 13 of the 14 people (93%) who had professional weatherstripping done cited energy efficiency as a reason for having this work done.

Clearly energy efficiency was an important factor in motivating people to have the work done under the RRAP program.

2. Agreement with Reasons for Participating in the RRAP Program

Participants were read a list of eight possible reasons for participating in the RRAP program and asked to agree or disagree with each one as it applied to them. Figure 7 indicates the percentage who agreed strongly and the total percentage who agreed either strongly or somewhat with each statement.

Figure 7

Prompted Reasons for Participating in the RRAP Program

	Agree Strongly	Agree Strongly/ Somewhat
Base: Total Sample	(211) %	(211) %
You wanted to make your house more energy efficient	67	84
You were concerned about health and safety	59	78
You wanted to lower your maintenance costs	53	74
There were certain improvements need to meet building code standards and regulations	40	51
You thought it would increase the value of your house	33	53
You wanted to improve the inside appearance of your house	24	41
You wanted to provide access for a disabled person living there	10	16
You wanted to increase the size of your living area	7	9

Source: Q3

The three most important reasons for undertaking improvements were energy efficiency (84%), health and safety concerns (78%) and lower maintenance costs (74%). Less important, but mentioned by at least half, were to increase the value of the house and to meet building code standards and regulations. For four in 10 (41%), it was to improve the interior of the house, while, for a small minority, the improvements were undertaken to provide access for a disabled person (16%) or to increase the size of the living area (9%).

Energy efficiency was generally ranked first of the eight reasons given for participating in the RRAP program in question three. Exceptions are among groups of participants who had electrical, heating system, exterior/exterior wall, water/well and/or septic tank/sewage system installation or upgrading under the RRAP program. For these groups, health and safety outranks energy efficiency considerations.

In terms of spontaneous responses and on a prompted basis, energy efficiency emerges as an important factor in motivating participation in the RRAP program. It would appear that the RRAP program has assisted participants to achieve energy efficiency goals that could not have been undertaken if they had not had the opportunity to take advantage of the program.

3. RRAP's Role in Promoting Energy Saving Attitudes and Behaviour

Participants were asked, since participating in the program, how likely they were to think about saving energy in the home.

Figure 8

**Effect of Program on Thinking
About Saving Energy in the Home**

	Total
Base: Total Sample	(211) %
Total More Likely to Think About Saving Energy in the Home	79
Much more likely to think about saving energy	34
More likely to think about saving energy	45
Neither more nor less likely	16
Less likely to think about saving energy	1
Much less likely to think about saving energy	1
Total Less Likely to Think About Saving Energy in the House	2

Source: Q4

As shown in Figure 8, the overwhelming majority (79%) said that they were more likely to think about saving energy in the home since participating in the RRAP program.

In order to provide another measure of program effectiveness on attitudes and behaviour as they relate to energy and energy efficiency, participants were read a list of specific attitudes and actions and asked to indicate by a yes or a no whether they applied to them.

Figure 9

**Influence of RRAP Program on
Energy Attitudes and Behaviour**
- Those who said yes -

	Total	
Base: Total Sample	(211) %	
More aware of energy conservation than before the RRAP program	57	
Keep the setting on heating or cooling system lower in winter and higher in summer than before the RRAP program	39	62% of any of these activities
Turn thermostat down at night in the winter more often than before the RRAP program	38	
Keep heating system serviced regularly, more so than before participating in the RRAP program	33	
None of the above	27	73% of any of these 4 attitude/activities

Source: Q5.

Overall, almost three quarters (73%) indicated the RRAP program had some influence on the attitudes and behaviour as shown in Figure 9. Just less than 6 in 10 (57%) indicated that the RRAP program had made them generally more aware of energy conservation. Just over 6 in 10 (62%) indicated that the RRAP Program had influenced their behaviour in at least one of the three specific activities measured, adjusting heating/cooling settings, turning down the thermostat at night and/or regular servicing. Almost 4 in 10 claim to have been influenced by the RRAP program with respect to winter/summer settings of their heating cooling

system (39%) and turning down the thermostat at night in winter (38%). One third (33%) stated they kept their heating system serviced more regularly than before participating in the RRAP programs.

Clearly RRAP promotes awareness of energy saving and has a significant effect on specific energy-saving activities.

4. **Perception of Impact of RRAP Program on Energy Efficiency of Home and Fuel Costs**

Participants were asked about the energy efficiency of their home, its use of energy, and the impact of the changes on their energy bill. Figure 10 summarizes the results of these questions.

Eight out of 10 (78%) say that after the work was done, their house was more energy efficient, and two thirds (65%) say they use less energy than before the work was completed. Consequently, over two thirds (71%) say they have saved a little (49%) or a lot (22%) on their energy bill.

These findings lead us to conclude that the RRAP program is **perceived by participants** to have made a significant contribution to energy savings by supporting energy conservation activities.

Figure 10

Effect of Work Done on Energy Efficiency of Home

	Total
Base: Total Sample	(211) %
Total More Energy Efficient	78
Much more energy efficient	51
Slightly more energy efficient	27
About the same	17
Slightly less energy efficient	1
Much less energy efficient	-
Total Less Energy Efficient	1
Don't know/not stated	4
Source Q6	
Effect of Work Done on Energy Use	
Base: Total Sample	Total (211) %
Total Use Less Energy Than Before	65
Use much less energy than before	29
Use slightly less energy than before	36
Use about the same as before	24
Use slightly more energy than before	3
Use much more energy than before	2
Total Use More Energy Than Before	5
Don't know/not stated	6
Source: Q7	
Effect of Work Done on Savings on Energy Bill	
Base Total sample	Total (211) %
Saved Money on Energy Bill	71
Saved a lot of money	22
Saved a little money	49
Saved No Money on Energy Bill	22
Don't know/not stated	7
Source Q8	

5. Willingness to Provide Records and/or to Give Permission to Speak to Local Utilities About Records of Fuel Consumption

Survey participants were asked if they had records of their energy bills before and/or after the RRAP work was done on their homes.

Figure 11

Reported Incidence of Keeping Records of Energy Bills

	Total
Base: Total Sample	(211) %
Yes, Keep Energy Bills	78
Before RRAP only	3
After RRAP only	25
Before and after RRAP	38
Don't know/not sure	12
No, Do Not Keep Energy Bills	19
Don't Know/Not Sure if Keep Energy Bills	3

As shown in Figure 11, although three quarters of participants (78%) claim to keep energy bill records, less than half (38%) state they have records available before and after the RRAP work was done on their homes. Of the 38%, or 81 survey participants who have records available both before and after the RRAP activity, 41 individuals (representing 19% of the total sample and 51% of those with records pre- and post-RRAP) agreed, in principle, to make their records available to CMR/CMHC for the purpose of calculating energy savings in consumption as a result of the RRAP program.

In terms of providing permission to speak to local utilities or oil dealers to obtain back records of fuel consumption, four out of five (81%) survey participants or 170 households stated their willingness to do this. This willingness to co-operate is very high. It should be noted, however, that several respondents mentioned that their participation would be contingent on CMHC providing personal feedback and sharing the findings on energy savings on their home with them.

At this stage of Phase II, different approaches to collecting actual fuel consumption data from households are discussed in Section D.

6. Profile of the Survey Sample

In this section, summary tables on the demographics and house characteristics collected at the end of the survey instrument are provided for reference purposes. As discussed in Section C, RRAP recipients in general and those surveyed in particular have a different socio-economic and age profile from the general population or the "typical" utility customer.

As shown in Figure 12, participants in the survey have the following profile:

- they are predominately older (63% 55 or older),
- a higher proportion of males to females (60% male)
- the majority are retired (57%)
- smaller household size with two thirds living in households of 2 or less (66%)
- no children living at home (73%)
- high school education or less (76%)
- mostly household income of \$30,000 or less (68% total sample and 94% of those who answered the question)

In terms of house characteristics, the survey sample shows the following profile as outlined in Figure 13:

- most live in single family dwellings (89%)
- heated mostly by oil or gas (59%)
- majority live in houses 30 years or older (64%)
- majority have lived in house for over 15 years (56%)
- average annual fuel bill is \$998
- majority live in centres of 10,000 people or fewer (54%)
- awareness of size of residence in terms of square footage is very low (57% didn't know or would not say)

Figure 12

DEMOGRAPHICS	Total
	(211) %
Age	
Under 30	3
30-34 years	8
35-44 years	14
45-54 years	11
55-64 years	17
65 or older	46
Not stated	1
	63
Gender	
Male	60
Female	40
Occupation	
Retired/pensioner	57
Unskilled labour	8
Skilled labour	6
Business executives/ owners/managers	7
Office workers	5
Homemakers	5
Unemployed	4
Sales	2
Student	1
Refused/Not stated	5
Size of Household	
One	27
Two	38
Three	15
Four	10
Five or more	8
Not stated	2

Figure 12 (Continued)

	Total
	(211) %
Presence of Children Under 18	
None	73
One	10
Two	8
Three	6
Four or more	1
Not stated	2
Education	
No formal education	2
Some/completed elementary school	31
Some/completed high school	43
Some college/technical school	11
College/university graduate	9
Refused/not stated	4
Annual Household Income	
Under \$10,000	18
\$10,000-\$19,999	35
\$20,000-\$29,999	14
\$30,000 or more	4
Refused/don't know	29

Figure 13

HOUSE CHARACTERISTICS	Total
	(211) %
Type of Dwelling	
Low rise apartment	1
Duplex	3
Row house/Townhouse	1
Semi-detached	3
Single detached home	89
Not stated	3
Type of Main Heating System	
Gas	40
Oil	19
Electricity	12
Wood stove	12
Other	3
Don't know/not stated	14
Age of Heating System	
Less than 1 year	5
1 to 5 years	26
Over 5 to 10 years	24
Over 10 to 15 years	14
Over 15 to 25 years	15
Over 25 years	9
Don't know/not stated	7

Figure 13 (Continued)

	Total
	(211) %
Age of Home	
1-10 years	1
11-20 years	9
21-30 years	14
31-40 years	17
41-50 years	12
51-75 years	12
Over 75 years	23
Don't know/not stated	12
Length of Tenure in Residence	
Less than 2 years	1
2 to 5 years	13
6 to 10 years	18
11 to 15 years	11
16 to 20 years	9
More than 20 years	47
Don't know/not stated	1
Size of Residence (Square feet)	
Less than 1,000	17
1,000-1,499	18
1,500-1,999	8
Over 2,000	6
Don't know/not stated	52

Figure 13 (Continued)

	Total
Approximate Annual Fuel Bill	
\$500 or less	9
\$501-\$750	19
\$751-\$1,000	23
\$1,001-\$1,250	10
\$1,501-\$2,000	5
Over \$2,000	2
Don't know/not stated	22
Average fuel bill	\$998
Type of Area Lived in	
In a rural or country area	31
In a small town of about 2,000 people	11
In a small town of about 2,000 to 10,000 people	12
In a medium city of 10,000 to 100,000 people	27
In a suburban area of a large city	7
In a large city	11
Refused/not stated	1

C. Development of a Statistical Analysis

At each stage of the pilot study as the CMHC account number is used as an identifier, it is possible to compare the sample or subsample with the RRAP database for the key variables including RRAP funding variables, such as Capital Amount, Total Loan Amount and Forgiveness Amount. By using the CMHC reference number as the link with the full RRAP data base:

- a) the variance of the sample or subsample from the RRAP population can be measured and evaluated
- b) the connection or relationship between the costs of the RRAP activities and the estimated dollar value of savings on energy bills can be established and projected to the universe of Ontario or Canadian RRAP recipients.

The use of an elaborate modelling exercise to create average or incremental energy conservation benefits for individual activities is not recommended. Detailed and accurate information on items such as heat loss or the R value of homes pre and/or post RRAP activity is not generally available from the existing files. We recommend that the statistical analysis focus on establishing "average" energy saving benefits (in absolute terms and as a percentage change) across broad categories of type of activity and link this to "average" costs and funding of the RRAP work. Analysis of variance can be conducted for the key variables in the participant households' demographic, housing and energy profiles.

There are data available from utilities on hypothetical energy saving benefits and calculations of the expected payback periods for "typical" homes for specific energy conservation upgrades. CMHC RRAP recipients, however, given their demographic, economic and housing profile in Figures 12 and 13 do not tend to be "typical" utility customers.

D. Summary

This survey confirms and reinforces the importance of energy conservation as a key motivation and reason for participating in the RRAP program.

RRAP has contributed to the improvement of energy efficiency not only by supporting energy conservation activities (such as window and door replacement and upgrade, insulation, replacement and upgrade of heating systems, caulking and weatherstripping), but also as an indirect effect in terms of increased awareness of energy conservation by homeowners.

An overwhelming majority (79%) stated they were more likely to think about saving energy in the home since participating in the RRAP program. Almost three quarters (73%) indicated the RRAP program had some influence on their attitude and behaviour. Between one in three and one in four claimed to have modified their heating/cooling settings, to adjust their thermostat down at night in winter and/or to service their heating system more regularly — more so than before participating in the RRAP program.

An overwhelming majority (78%) believe that the RRAP program made their house more energy efficient, that they use less energy than before (65%) and that they have saved money on their energy bill(s) (77%) as a direct result of RRAP activities.

Incidence of availability of actual records of energy consumption before and after the RRAP activity **and** being willing to make these records available to CMHC for the purpose of calculating energy savings in consumption is relatively low at 19%. Willingness to give permission to obtain records from local utilities and oil dealers, however is high at 81%.

Three potential avenues were considered:

- 1) sending a letter to willing respondents thanking them for their participation in the pilot survey saying that at this time CMHC is not collecting their records/permission forms.
- 2) a mail-out of letters and/or permission forms and a pre-paid envelope addressed to CMR. Analysis to be conducted on the households for whom "good quality" data are received/made available
- 3) interviewers making appointments and visiting the homes of survey participants living close to urban centres in order to obtain signed permission forms and/or the available records from households. These interviewers to probe for the specifics of the local utilities/oil dealer to be contacted. This approach is expected to provide a higher incidence of "good quality" records. This approach, however, is not cost-efficient and is not recommended for rural respondents. For rural respondents, outside the range of CMR's interviewer network, a mail-out approach is recommended.

Given the logistics and project funding constraints, option 1) was adopted.

For future projects, calculation of energy savings in consumption from the RRAP program would be facilitated if at application time CMHC secured permission forms and agreement to participate in a pilot project **prior** to the RRAP work being done in the home. This approach would not only provide more reliable and accurate data, it would improve the administration and logistical efficacy of the data collection process.

The statistical analysis approach recommended to compare RRAP funding with energy consumption, is to link the actual cost of the RRAP activities done on the survey sample's homes with the dollar value of energy conservation savings and the percentage savings on

the energy consumption, and then to project the findings of the survey to the RRAP population as a whole. The CMHC account number is used as an identifier in the survey process, and can provide the link with CMHC's full database. The variability of the sample or subsample from the RRAP population, therefore, can be measured and evaluated.

Appendix A

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Table 1-1
FORGIVENESS AMOUNT
BASED ON TOTAL INTERVIEWED

	LANGUAGE		LOAN TYPE		CMHC OFFICE															
	TOTAL	ENG- LISH	FR- ENCH	URBAN	RURAL	BAR- RIE	HAM- ILTON	KING- STON	KITCH- ENER	LON- DON	NORTH BAY	OSH- AWA	OTT- AWA	PETER -BOR -OUGH	SAULT STE. MARIE	SUD- BURY	THUN -DER BAY	TOR- ONTO	WIND- SOR	ONT. NON SPEC
TOTAL	12013	11410	384	7364	4426	685	820	1080	949	679	1017	275	1202	575	495	1586	733	1305	389	28
\$1,000 OR LESS	145 1.2	140 1.2	4 1.0	116 1.6	28 .6	11 1.6	9 1.1	3 .3	7 .7	9 1.3	1 .1	15 5.5	4 .3	5 .9	5 1.0	10 .6	12 1.6	51 3.9	2 .5	-
\$1,001 TO \$2,000	658 5.5	640 5.6	11 2.9	553 7.5	98 2.2	41 6.0	53 6.5	26 2.4	61 6.4	37 5.4	26 2.6	59 21.5	47 3.9	28 4.9	18 3.6	36 2.3	38 5.2	167 12.8	14 3.6	1 3.6
\$2,001 TO \$3,000	1218 10.1	1180 10.3	23 6.0	868 11.8	335 7.6	71 10.4	93 11.3	117 10.8	108 11.4	68 10.0	77 7.6	64 23.3	84 7.0	67 11.7	47 9.5	104 6.6	66 9.0	201 15.4	36 9.3	3 10.7
\$3,001 TO \$4,000	1939 16.1	1857 16.3	46 12.0	1246 16.9	657 14.8	122 17.8	123 15.0	211 19.5	179 18.9	116 17.1	152 14.9	47 17.1	175 14.6	90 15.7	63 12.7	204 12.9	117 16.0	258 19.8	46 11.8	4 14.3
\$4,001 TO \$4,500	1306 10.9	1249 10.9	33 8.6	786 10.7	496 11.2	72 10.5	96 11.7	138 12.8	108 11.4	84 12.4	126 12.4	24 8.7	126 10.5	73 12.7	42 8.5	155 9.8	65 8.9	126 9.7	47 12.1	1 3.6
\$4,501 TO \$5,000	6437 53.6	6177 54.1	137 35.7	3661 49.7	2649 59.9	366 53.4	445 54.3	583 54.0	485 51.1	361 53.2	634 62.3	66 24.0	762 63.4	310 53.9	320 64.6	881 55.5	375 51.2	478 36.6	244 62.7	19 67.9
\$5,001 AND OVER	252 2.1	117 1.0	130 33.9	96 1.3	151 3.4	-	-	-	-	-	-	-	-	-	-	196 12.4	51 7.0	-	-	-
AVERAGE AMOUNT (\$)	4181	4156	4818	4035	4414	4087	4112	4224	4077	4130	4377	3115	4371	4143	4320	4578	4254	3592	4332	4311
STD DEV (\$)	1134	1126	1245	1204	971	1144	1140	947	1110	1088	885	1374	954	1076	1028	1050	1214	1354	995	935
STD ERR (\$)	10	11	64	14	15	44	40	29	36	42	28	83	28	45	46	26	45	38	50	177
NOT STATED	58 .5	50 .4	-	38 .5	12 .3	2 .3	1 .1	2 .2	1 .1	4 .6	1 .1	-	4 .3	2 .3	-	-	9 1.2	24 1.8	-	-

Table 2-1
CAPITAL AMOUNT
BASED ON TOTAL INTERVIEWED

	LANGUAGE		LOAN TYPE		CMHC OFFICE															
	TOTAL	ENG- LISH	FR- ENCH	URBAN	RURAL	BAR- RIE	HAM- ILTON	KING- STON	KITCH- ENER	LON- DON	NORTH BAY	OSH- AWA	OTT- AWA	PETER -BOR OUGH	SAULT STE. MARIE	SUD- BURY	THUN- DER BAY	TOR- ONTO	WIND- SOR	ONT. NON SPEC
TOTAL	12013	11410	384	7364	4426	685	820	1080	949	679	1017	275	1202	575	495	1586	733	1305	389	28
\$1,000 OR LESS	77 .6	75 .7	2 .5	63 .9	14 .3	8 1.2	6 .7	1 .1	6 .6	6 .9	-	14 5.1	2 .2	3 .5	3 .6	10 .6	3 .4	15 1.1	-	-
\$1,001 TO \$2,000	528 4.4	512 4.5	10 2.6	453 6.2	69 1.6	34 5.0	45 5.5	23 2.1	56 5.9	32 4.7	19 1.9	57 20.7	30 2.5	20 3.5	14 2.8	36 2.3	22 3.0	126 9.7	8 2.1	1 3.6
\$2,001 TO \$3,000	1045 8.7	1013 8.9	20 5.2	759 10.3	274 6.2	64 9.3	78 9.5	109 10.1	104 11.0	62 9.1	63 6.2	60 21.8	54 4.5	57 9.9	34 6.9	102 6.4	45 6.1	173 13.3	28 7.2	2 7.1
\$3,001 TO \$4,000	1576 13.1	1509 13.2	35 9.1	1051 14.3	493 11.1	88 12.8	93 11.3	180 16.7	160 16.9	108 15.9	111 10.9	47 17.1	120 10.0	70 12.2	47 9.5	182 11.5	77 10.5	221 16.9	40 10.3	3 10.7
\$4,001 TO \$4,500	1086 9.0	1038 9.1	29 7.6	659 8.9	408 9.2	57 8.3	66 8.0	129 11.9	98 10.3	76 11.2	106 10.4	22 8.0	86 7.2	59 10.3	33 6.7	142 9.0	47 6.4	108 8.3	38 9.8	-
\$4,501 TO \$5,000	4631 38.5	4435 38.9	103 26.8	2642 35.9	1892 42.7	247 36.1	229 27.9	485 44.9	433 45.6	303 44.6	478 47.0	57 20.7	422 35.1	202 35.1	204 41.2	724 45.6	244 33.3	323 24.8	183 47.0	12 42.9
\$5,001 TO \$6,000	484 4.0	430 3.8	40 10.4	278 3.8	192 4.3	34 5.0	52 6.3	28 2.6	18 1.9	17 2.5	32 3.1	6 2.2	47 3.9	34 5.9	19 3.8	67 4.2	41 5.6	62 4.8	13 3.3	2 7.1
\$6,001 TO \$9,999	1862 15.5	1699 14.9	128 33.3	1053 14.3	774 17.5	116 16.9	183 22.3	95 8.8	52 5.5	53 7.8	134 13.2	11 4.0	276 23.0	108 18.8	93 18.8	273 17.2	179 24.4	200 15.3	54 13.9	6 21.4
AVERAGE AMOUNT (\$)	4754	4736	5203	4595	5018	4785	4918	4553	4290	4470	4919	3299	5356	4889	5038	4852	5194	4409	4919	5172
STD DEV (\$)	1748	1757	1544	1801	1634	1911	1978	1413	1387	1529	1542	1605	1935	1855	1738	1455	1902	2025	1588	1823
STD ERR (\$)	16	17	81	22	25	75	72	44	46	60	50	97	60	79	82	37	74	58	83	357
NOT STATED	724 6.0	699 6.1	17 4.4	406 5.5	310 7.0	37 5.4	68 8.3	30 2.8	22 2.3	22 3.2	74 7.3	1 .4	165 13.7	22 3.8	48 9.7	50 3.2	75 10.2	77 5.9	25 6.4	2 7.1

Table 3-1
TOTAL LOAN AMOUNT
BASED ON TOTAL INTERVIEWED

	LANGUAGE		LOAN TYPE		CMHC OFFICE																
	TOTAL	ENG- LISH	FR- ENCH	URBAN	RURAL	BAR- RIE	HAM- ILTON	KING- STON	KITCH- ENER	LON- DON	NORTH BAY	OSH- AWA	OTT- AWA	PETER -BOR -OUGH	SAULT STE. MARIE	SUD- BURY	THUN- DER BAY	TOR- ONTO	WIND- SOR	ONT. NON SPEC	
TOTAL	12013	11410	384	7364	4426	685	820	1080	949	679	1017	275	1202	575	495	1586	733	1305	389	28	
\$1,000 OR LESS	77 .6	75 .7	2 .5	63 .9	14 .3	8 1.2	6 .7	1 .1	6 .6	6 .9	-	14 5.1	2 .2	3 .5	3 .6	10 .6	3 .4	15 1.1	-	-	
\$1,001 TO \$2,000	528 4.4	512 4.5	10 2.6	453 6.2	69 1.6	34 5.0	45 5.5	23 2.1	56 5.9	32 4.7	19 1.9	57 20.7	30 2.5	20 3.5	14 2.8	36 2.3	22 3.0	126 9.7	8 2.1	1 3.6	
\$2,001 TO \$3,000	1044 8.7	1013 8.9	20 5.2	759 10.3	274 6.2	64 9.3	78 9.5	109 10.1	104 11.0	62 9.1	63 6.2	60 21.8	54 4.5	57 9.9	34 6.9	102 6.4	45 6.1	173 13.3	28 7.2	2 7.1	
\$3,001 TO \$4,000	1576 13.1	1509 13.2	35 9.1	1051 14.3	493 11.1	88 12.8	93 11.3	180 16.7	160 16.9	108 15.9	111 10.9	47 17.1	120 10.0	70 12.2	47 9.5	182 11.5	77 10.5	221 16.9	40 10.3	3 10.7	
\$4,001 TO \$4,500	1085 9.0	1038 9.1	29 7.6	659 8.9	408 9.2	57 8.3	66 8.0	129 11.9	98 10.3	76 11.2	106 10.4	22 8.0	86 7.2	59 10.3	33 6.7	142 9.0	47 6.4	108 8.3	38 9.8	-	
\$4,501 TO \$5,000	4628 38.5	4435 38.9	103 26.8	2642 35.9	1892 42.7	247 36.1	229 27.9	485 44.9	433 45.6	303 44.6	478 47.0	57 20.7	422 35.1	202 35.1	204 41.2	724 45.6	244 33.3	323 24.8	183 47.0	12 42.9	
\$5,001 TO \$6,000	484 4.0	430 3.8	40 10.4	278 3.8	192 4.3	34 5.0	52 6.3	28 2.6	18 1.9	17 2.5	32 3.1	6 2.2	47 3.9	34 5.9	19 3.8	67 4.2	41 5.6	62 4.8	13 3.3	2 7.1	
\$6,001 TO \$9,999	1867 15.5	1699 14.9	128 33.3	1053 14.3	774 17.5	116 16.9	183 22.3	95 8.8	52 5.5	53 7.8	134 13.2	11 4.0	276 23.0	108 18.8	93 18.8	273 17.2	179 24.4	200 15.3	54 13.9	6 21.4	
AVERAGE AMOUNT (\$)	4756	4736	5203	4595	5018	4785	4918	4553	4290	4470	4919	3299	5356	4889	5038	4852	5194	4409	4919	5172	
STD DEV (\$)	1750	1757	1544	1801	1634	1911	1978	1413	1387	1529	1542	1605	1935	1855	1738	1455	1902	2025	1588	1823	
STD ERR (\$)	16	17	81	22	25	75	72	44	46	60	50	97	60	79	82	37	74	58	83	357	
NOT STATED	724 6.0	699 6.1	17 4.4	406 5.5	310 7.0	37 5.4	68 8.3	30 2.8	22 2.3	22 3.2	74 7.3	1 .4	165 13.7	22 3.8	48 9.7	50 3.2	75 10.2	77 5.9	25 6.4	2 7.1	

Table 4-1
AGE OF STRUCTURE
BASED ON TOTAL INTERVIEWED

	LANGUAGE		LOAN TYPE		CMHC OFFICE																
	TOTAL	ENG- LISH	FR- ENCH	URBAN	RURAL	BAR- RIE	HAM- ILTON	KING- STON	KITCH -ENER	LON- DON	NORTH BAY	OSH- AWA	OTT- AWA	PETER -BOR -OUGH	SAULT STE. MARIE	SUD- BURY	THUN- DER BAY	TOR- ONTO	WIND- SOR	ONT. NON SPEC	
TOTAL	12013	11410	384	7364	4426	685	820	1080	949	679	1017	275	1202	575	495	1586	733	1305	389	28	
1-10 YEARS	396 3.3	377 3.3	19 4.9	72 1.0	324 7.3	30 4.4	4 .5	46 4.3	6 .6	8 1.2	114 11.2	1 .4	46 3.8	8 1.4	29 5.9	55 3.5	41 5.6	5 .4	3 .8	-	
11-20 YEARS	1460 12.2	1396 12.2	64 16.7	560 7.6	900 20.3	174 25.4	32 3.9	151 14.0	87 9.2	69 10.2	191 18.8	21 7.6	124 10.3	108 18.8	81 16.4	249 15.7	94 12.8	53 4.1	26 6.7	-	
21-30 YEARS	1754 14.6	1668 14.6	86 22.4	1006 13.7	748 16.9	104 15.2	96 11.7	146 13.5	92 9.7	70 10.3	185 18.2	40 14.5	189 15.7	79 13.7	89 18.0	358 22.6	114 15.6	162 12.4	30 7.7	-	
31-40 YEARS	2434 20.3	2351 20.6	83 21.6	1746 23.7	688 15.5	101 14.7	203 24.8	170 15.7	148 15.6	117 17.2	184 18.1	80 29.1	243 20.2	95 16.5	108 21.8	390 24.6	217 29.6	308 23.6	70 18.0	-	
41-50 YEARS	1764 14.7	1708 15.0	55 14.3	1295 17.6	467 10.6	83 12.1	161 19.6	141 13.1	126 13.3	117 17.2	132 13.0	40 14.5	140 11.6	83 14.4	80 16.2	277 17.5	128 17.5	173 13.3	81 20.8	1 3.6	
51-60 YEARS	908 7.6	879 7.7	29 7.6	678 9.2	230 5.2	41 6.0	78 9.5	66 6.1	48 5.1	44 6.5	62 6.1	26 9.5	76 6.3	23 4.0	24 4.8	118 7.4	74 10.1	165 12.6	63 16.2	-	
61-75 YEARS	1226 10.2	1198 10.5	28 7.3	912 12.4	314 7.1	44 6.4	118 14.4	89 8.2	113 11.9	85 12.5	73 7.2	38 13.8	130 10.8	45 7.8	33 6.7	89 5.6	44 6.0	263 20.2	62 15.9	-	
76 PLUS YEARS	958 8.0	947 8.3	11 2.9	620 8.4	338 7.6	54 7.9	68 8.3	66 6.1	158 16.6	82 12.1	60 5.9	10 3.6	144 12.0	49 8.5	48 9.7	37 2.3	21 2.9	135 10.3	26 6.7	-	
AVERAGE # YEARS	42.9	43.1	36.6	46.1	37.3	37.5	48.4	40.9	50.7	48.0	35.8	43.7	44.7	40.6	39.4	36.9	38.6	50.3	49.9	43.0	
STD DEV (YRS)	21.2	21.3	18.3	19.6	22.7	22.3	18.4	21.7	23.7	22.2	21.3	17.7	23.3	22.0	21.6	16.9	17.4	19.7	18.1	-	
STD ERR (YRS)	.2	.2	.9	.2	.4	.9	.7	.7	.9	.9	.7	1.1	.7	1.0	1.0	.4	.6	.6	1.0	-	
NOT STATED	1113 9.3	886 7.8	9 2.3	475 6.5	417 9.4	54 7.9	60 7.3	205 19.0	171 18.0	87 12.8	16 1.6	19 6.9	110 9.2	85 14.8	3 .6	13 .8	-	41 3.1	28 7.2	27 96.4	

TABLE 5-1
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[illegible]

Table 6-1
APPROVAL DATE
BASED ON TOTAL INTERVIEWED

[illegible]

[illegible]

Table 8-1
CMHC OFFICE ENGLISH NAME
BASED ON TOTAL INTERVIEWED

	LANGUAGE		LOAN TYPE		CMHC OFFICE																
	TOTAL	ENG- LISH	FR- ENCH	URBAN	RURAL	BAR- RIE	HAM- ILTON	KING- STON	KITCH- ENER	LON- DON	NORTH BAY	OSH- AWA	OTT- AWA	PETER -BOR -OUGH	SAULT STE. MARIE	SUD- BURY	THUN- DER BAY	TOR- ONTO	WIND- SOR	ONT. NON SPEC	
TOTAL	12013	11410	384	7364	4426	685	820	1080	949	679	1017	275	1202	575	495	1586	733	1305	389	28	
BARRIE	685 5.7	682 6.0	3 .8	452 6.1	233 5.3	685 100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HAMILTON	820 6.8	820 7.2	-	763 10.4	57 1.3	-	820 100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	
KINGSTON	1080 9.0	1080 9.5	-	262 3.6	818 18.5	-	-	1080 100.0	-	-	-	-	-	-	-	-	-	-	-	-	
KITCHENER	949 7.9	949 8.3	-	670 9.1	279 6.3	-	-	-	949 100.0	-	-	-	-	-	-	-	-	-	-	-	
LONDON	679 5.7	678 5.9	1 .3	481 6.5	198 4.5	-	-	-	-	679 100.0	-	-	-	-	-	-	-	-	-	-	
NORTH BAY	1017 8.5	953 8.4	64 16.7	305 4.1	712 16.1	-	-	-	-	-	1017 100.0	-	-	-	-	-	-	-	-	-	
OSHAWA	275 2.3	275 2.4	-	254 3.4	21 .5	-	-	-	-	-	-	275 100.0	-	-	-	-	-	-	-	-	
OTTAWA	1202 10.0	1131 9.9	71 18.5	752 10.2	450 10.2	-	-	-	-	-	-	-	1202 100.0	-	-	-	-	-	-	-	
PETERBOROUGH	575 4.8	575 5.0	-	268 3.6	307 6.9	-	-	-	-	-	-	-	-	575 100.0	-	-	-	-	-	-	
SAULT STE. MARIE	495 4.1	489 4.3	6 1.6	284 3.9	211 4.8	-	-	-	-	-	-	-	-	-	495 100.0	-	-	-	-	-	
SUDBURY	1586 13.2	1367 12.0	219 57.0	919 12.5	667 15.1	-	-	-	-	-	-	-	-	-	-	1586 100.0	-	-	-	-	
THUNDER BAY	733 6.1	728 6.4	5 1.3	292 4.0	441 10.0	-	-	-	-	-	-	-	-	-	-	-	733 100.0	-	-	-	
TORONTO	1305 10.9	1293 11.3	12 3.1	1303 17.7	2	-	-	-	-	-	-	-	-	-	-	-	-	1305 100.0	-	-	
WINDSOR	389 3.2	387 3.4	2 .5	359 4.9	30 .7	-	-	-	-	-	-	-	-	-	-	-	-	-	389 100.0	-	

Continued

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Appendix B

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Table 1-1
FORGIVENESS AMOUNT
BASED ON TOTAL INTERVIEWED

	LANGUAGE		LOAN TYPE		CMHC OFFICE															
	TOTAL	ENG- LISH	FR- ENCH	URBAN	RURAL	BAR- RIE	HAM- ILTON	KING- STON	KITCH -ENER	LON- DON	NORTH BAY	OSH- AWA	OTT- AWA	PETER -BOR -OUGH	SAULT STE. MARIE	SUD- BURY	THUN -DER BAY	TOR- ONTO	WIND- SOR	ONT. NON SPEC
TOTAL	1001	959	41	626	374	57	69	90	79	57	89	23	106	44	42	136	62	110	36	1
\$1,000 OR LESS	14	13	1	9	5	-	-	-	2	-	-	1	-	1	1	1	3	4	1	-
	1.4	1.4	2.4	1.4	1.3				2.5			4.3		2.3	2.4	.7	4.8	3.6	2.8	
\$1,001 TO \$2,000	49	48	1	37	12	2	6	1	4	1	3	6	4	4	-	4	3	10	1	-
	4.9	5.0	2.4	5.9	3.2	3.5	8.7	1.1	5.1	1.8	3.4	26.1	3.8	9.1		2.9	4.8	9.1	2.8	
\$2,001 TO \$3,000	91	88	3	68	23	5	6	11	9	5	6	1	6	3	3	6	5	19	6	-
	9.1	9.2	7.3	10.9	6.1	8.8	8.7	12.2	11.4	8.8	6.7	4.3	5.7	6.8	7.1	4.4	8.1	17.3	16.7	
\$3,001 TO \$4,000	175	171	4	109	66	12	11	20	12	12	18	5	16	8	7	20	9	19	6	-
	17.5	17.8	9.8	17.4	17.6	21.1	15.9	22.2	15.2	21.1	20.2	21.7	15.1	18.2	16.7	14.7	14.5	17.3	16.7	
\$4,001 TO \$4,500	103	99	4	67	36	8	9	8	8	11	10	3	7	5	5	13	4	9	3	-
	10.3	10.3	9.8	10.7	9.6	14.0	13.0	8.9	10.1	19.3	11.2	13.0	6.6	11.4	11.9	9.6	6.5	8.2	8.3	
\$4,501 TO \$5,000	543	528	14	324	218	30	37	50	44	28	52	7	73	23	26	73	33	47	19	1
	54.2	55.1	34.1	51.8	58.3	52.6	53.6	55.6	55.7	49.1	58.4	30.4	68.9	52.3	61.9	53.7	53.2	42.7	52.8	100.0
\$5,001 AND OVER	23	9	14	9	14	-	-	-	-	-	-	-	-	-	-	19	4	-	-	-
	2.3	.9	34.1	1.4	3.7											14.0	6.5			
AVERAGE AMOUNT (\$)	4197	4175	4704	4102	4353	4225	4095	4233	4106	4274	4297	3410	4439	4006	4329	4565	4143	3717	4091	4625
STD DEV (\$)	1121	1108	1301	1150	1053	955	1158	912	1156	833	941	1400	893	1231	988	1063	1366	1324	1148	-
STD ERR (\$)	35	36	203	46	54	126	139	96	130	110	100	292	87	186	152	91	175	127	191	-
NOT STATED	3	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-
	.3	.3		.5													1.6	1.8		

Table 2-1
CAPITAL AMOUNT
BASED ON TOTAL INTERVIEWED

	LANGUAGE			LOAN TYPE		CMHC OFFICE														
	TOTAL	ENG- LISH	FR- ENCH	URBAN	RURAL	BAR- RIE	HAM- ILTON	KING- STON	KITCH- ENER	LON- DON	NORTH BAY	OSH- AWA	OTT- AWA	PETER -BOR -OUGH	SAULT STE. MARIE	SUD- BURY	THUN- DER BAY	TOR- ONTO	WIND- SOR	ONT. NON SPEC
TOTAL	1001	959	41	626	374	57	69	90	79	57	89	23	106	44	42	136	62	110	36	1
\$1,000 OR LESS	7 .7	7 .7	-	4 .6	3 .8	-	-	-	2 2.5	-	-	1 4.3	-	-	-	1 .7	1 1.6	2 1.8	-	-
\$1,001 TO \$2,000	41 4.1	41 4.3	-	32 5.1	9 2.4	2 3.5	6 8.7	-	4 5.1	1 1.8	2 2.2	6 26.1	3 2.8	4 9.1	-	4 2.9	3 4.8	5 4.5	1 2.8	-
\$2,001 TO \$3,000	83 8.3	80 8.3	3 7.3	62 9.9	21 5.6	5 8.8	4 5.8	11 12.2	9 11.4	4 7.0	5 5.6	1 4.3	4 3.8	3 6.8	1 2.4	6 4.4	4 6.5	20 18.2	6 16.7	-
\$3,001 TO \$4,000	131 13.1	128 13.3	3 7.3	92 14.7	39 10.4	7 12.3	8 11.6	17 18.9	12 15.2	10 17.5	12 13.5	5 21.7	8 7.5	6 13.6	5 11.9	17 12.5	4 6.5	16 14.5	4 11.1	-
\$4,001 TO \$4,500	85 8.5	82 8.6	3 7.3	53 8.5	32 8.6	6 10.5	6 8.7	8 8.9	7 8.9	9 15.8	9 10.1	3 13.0	5 4.7	6 13.6	4 9.5	11 8.1	4 6.5	6 5.5	1 2.8	-
\$4,501 TO \$5,000	381 38.1	373 38.9	8 19.5	223 35.6	158 42.2	21 36.8	23 33.3	42 46.7	37 46.8	26 45.6	34 38.2	5 21.7	40 37.7	12 27.3	12 28.6	62 45.6	21 33.9	30 27.3	16 44.4	-
\$5,001 TO \$6,000	49 4.9	40 4.2	9 22.0	34 5.4	15 4.0	3 5.3	6 8.7	3 3.3	2 2.5	2 3.5	1 1.1	1 4.3	5 4.7	2 4.5	3 7.1	10 7.4	6 9.7	4 3.6	1 2.8	-
\$6,001 TO \$9,999	156 15.6	145 15.1	11 26.8	92 14.7	64 17.1	9 15.8	10 14.5	5 5.6	5 6.3	4 7.0	17 19.1	1 4.3	25 23.6	9 20.5	9 21.4	21 15.4	15 24.2	23 20.9	3 8.3	-
AVERAGE AMOUNT (\$)	4784	4762	5318	4681	4964	4731	4651	4442	4287	4594	5020	3554	5562	4755	5312	4873	5146	4673	4536	-
STD DEV (\$)	1752	1762	1384	1800	1648	1603	1779	1149	1467	1286	1639	1639	2013	2054	1588	1522	1927	2184	1522	-
STD ERR (\$)	57	59	227	74	89	220	224	124	166	172	183	342	212	317	272	132	253	212	269	-
NOT STATED	68 6.8	63 6.6	4 9.8	34 5.4	33 8.8	4 7.0	6 8.7	4 4.4	1 1.3	1 1.8	9 10.1	-	16 15.1	2 4.5	8 19.0	4 2.9	4 6.5	4 3.6	4 11.1	1 100.0

Table 3-1
TOTAL LOAN AMOUNT
BASED ON TOTAL INTERVIEWED

	LANGUAGE		LOAN TYPE		CMHC OFFICE															
	TOTAL	ENG- LISH	FR- ENCH	URBAN	RURAL	BAR- RIE	HAM- ILTON	KING- STON	KITCH- ENER	LON- DON	NORTH BAY	OSH- AWA	OTT- AWA	PETER -BOR -OUGH	SAULT STE. MARIE	SUD- BURY	THUN- DER BAY	TOR- ONTO	WIND- SOR	ONT. NON SPEC
TOTAL	1001	959	41	626	374	57	69	90	79	57	89	23	106	44	42	136	62	110	36	1
\$1,000 OR LESS	7 .7	7 .7	-	4 .6	3 .8	-	-	-	2 2.5	-	-	1 4.3	-	-	-	1 .7	1 1.6	2 1.8	-	-
\$1,001 TO \$2,000	41 4.1	41 4.3	-	32 5.1	9 2.4	2 3.5	6 8.7	-	4 5.1	1 1.8	2 2.2	6 26.1	3 2.8	4 9.1	-	4 2.9	3 4.8	5 4.5	1 2.8	-
\$2,001 TO \$3,000	83 8.3	80 8.3	3 7.3	62 9.9	21 5.6	5 8.8	4 5.8	11 12.2	9 11.4	4 7.0	5 5.6	1 4.3	4 3.8	3 6.8	1 2.4	6 4.4	4 6.5	20 18.2	6 16.7	-
\$3,001 TO \$4,000	131 13.1	128 13.3	3 7.3	92 14.7	39 10.4	7 12.3	8 11.6	17 18.9	12 15.2	10 17.5	12 13.5	5 21.7	8 7.5	6 13.6	5 11.9	17 12.5	4 6.5	16 14.5	4 11.1	-
\$4,001 TO \$4,500	85 8.5	82 8.6	3 7.3	53 8.5	32 8.6	6 10.5	6 8.7	8 8.9	7 8.9	9 15.8	9 10.1	3 13.0	5 4.7	6 13.6	4 9.5	11 8.1	4 6.5	6 5.5	1 2.8	-
\$4,501 TO \$5,000	381 38.1	373 38.9	8 19.5	223 35.6	158 42.2	21 36.8	23 33.3	42 46.7	37 46.8	26 45.6	34 38.2	5 21.7	40 37.7	12 27.3	12 28.6	62 45.6	21 33.9	30 27.3	16 44.4	-
\$5,001 TO \$6,000	49 4.9	40 4.2	9 22.0	34 5.4	15 4.0	3 5.3	6 8.7	3 3.3	2 2.5	2 3.5	1 1.1	1 4.3	5 4.7	2 4.5	3 7.1	10 7.4	6 9.7	4 3.6	1 2.8	-
\$6,001 TO \$9,999	156 15.6	145 15.1	11 26.8	92 14.7	64 17.1	9 15.8	10 14.5	5 5.6	5 6.3	4 7.0	17 19.1	1 4.3	25 23.6	9 20.5	9 21.4	21 15.4	15 24.2	23 20.9	3 8.3	-
AVERAGE AMOUNT (\$)	4784	4762	5318	4681	4964	4731	4651	4442	4287	4594	5020	3554	5562	4755	5312	4873	5146	4673	4536	-
STD DEV (\$)	1752	1762	1384	1800	1648	1603	1779	1149	1467	1286	1639	1639	2013	2054	1588	1522	1927	2184	1522	-
STD ERR (\$)	57	59	227	74	89	220	224	124	166	172	183	342	212	317	272	132	253	212	269	-
NOT STATED	68 6.8	63 6.6	4 9.8	34 5.4	33 8.8	4 7.0	6 8.7	4 4.4	1 1.3	1 1.8	9 10.1	-	16 15.1	2 4.5	8 19.0	4 2.9	4 6.5	4 3.6	4 11.1	1 100.0

Table 4-1
AGE OF STRUCTURE
BASED ON TOTAL INTERVIEWED

	LANGUAGE			LOAN TYPE					CMHC OFFICE											
	TOTAL	ENG- LISH	FR- ENCH	URBAN	RURAL	BAR- RIE	HAM- ILTON	KING- STON	KITCH -ENER	LON- DON	NORTH BAY	OSH- AWA	OTT- AWA	PETER -BOR -OUGH	SAULT STE. MARIE	SUD- BURY	THUN -DER BAY	TOR- ONTO	WIND- SOR	ONT. NON SPEC
TOTAL	1001	959	41	626	374	57	69	90	79	57	89	23	106	44	42	136	62	110	36	1
1-10 YEARS	30 3.0	26 2.7	4 9.8	9 1.4	21 5.6	2 3.5	-	3 3.3	-	1 1.8	10 11.2	-	6 5.7	-	3 7.1	5 3.7	-	-	-	-
11-20 YEARS	129 12.9	121 12.6	8 19.5	53 8.5	76 20.3	15 26.3	2 2.9	13 14.4	8 10.1	5 8.8	17 19.1	2 8.7	12 11.3	11 25.0	10 23.8	22 16.2	6 9.7	4 3.6	2 5.6	-
21-30 YEARS	150 15.0	141 14.7	9 22.0	78 12.5	72 19.3	16 28.1	7 10.1	10 11.1	11 13.9	8 14.0	22 24.7	2 8.7	16 15.1	4 9.1	2 4.8	27 19.9	8 12.9	13 11.8	4 11.1	-
31-40 YEARS	217 21.7	210 21.9	7 17.1	160 25.6	57 15.2	7 12.3	22 31.9	14 15.6	16 20.3	7 12.3	18 20.2	7 30.4	22 20.8	6 13.6	10 23.8	39 28.7	14 22.6	29 26.4	6 16.7	-
41-50 YEARS	136 13.6	132 13.8	4 9.8	104 16.6	32 8.6	5 8.8	17 24.6	13 14.4	3 3.8	10 17.5	11 12.4	3 13.0	9 8.5	7 15.9	8 19.0	14 10.3	12 19.4	17 15.5	7 19.4	-
51-60 YEARS	87 8.7	80 8.3	7 17.1	64 10.2	23 6.1	4 7.0	2 2.9	5 5.6	6 7.6	2 3.5	4 4.5	3 13.0	9 8.5	4 9.1	1 2.4	17 12.5	10 16.1	14 12.7	6 16.7	-
61-75 YEARS	96 9.6	95 9.9	1 2.4	66 10.5	30 8.0	2 3.5	10 14.5	4 4.4	11 13.9	9 15.8	5 5.6	2 8.7	10 9.4	4 9.1	4 9.5	6 4.4	7 11.3	19 17.3	3 8.3	-
76 PLUS YEARS	72 7.2	72 7.5	-	50 8.0	22 5.9	2 3.5	3 4.3	9 10.0	9 11.4	9 15.8	-	2 8.7	10 9.4	1 2.3	4 9.5	3 2.2	5 8.1	12 10.9	3 8.3	-
AVERAGE # YEARS	42.1	42.5	32.2	45.0	36.8	32.3	46.3	42.4	47.3	49.7	31.2	46.5	42.5	38.4	39.4	36.6	46.4	49.6	48.3	-
STD DEV (YRS)	20.9	20.9	17.1	19.5	22.1	19.0	16.4	22.9	23.1	22.5	16.6	20.2	23.7	21.4	22.4	16.7	17.7	19.4	18.2	-
STD ERR (YRS)	.7	.7	2.7	.8	1.2	2.6	2.1	2.7	2.9	3.1	1.8	4.4	2.4	3.5	3.5	1.4	2.3	1.9	3.3	-
NOT STATED	84 8.4	82 8.6	1 2.4	42 6.7	41 11.0	4 7.0	6 8.7	19 21.1	15 19.0	6 10.5	2 2.2	2 8.7	12 11.3	7 15.9	-	3 2.2	-	2 1.8	5 13.9	1 100.0

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Table 8-1
CMHC OFFICE ENGLISH NAME
BASED ON TOTAL INTERVIEWED

	LANGUAGE		LOAN TYPE		CMHC OFFICE															
	TOTAL	ENG- LISH	FR- ENCH	URBAN	RURAL	BAR- RIE	HAM- ILTON	KING- STON	KITCH- ENER	LON- DON	NORTH BAY	OSH- AWA	OTT- AWA	PETER -BOR -OUGH	SAULT STE. MARIE	SUD- BURY	THUN- DER BAY	TOR- ONTO	WIND- SOR	ONT. NON SPEC
TOTAL	1001	959	41	626	374	57	69	90	79	57	89	23	106	44	42	136	62	110	36	1
BARRIE	57 5.7	56 5.8	1 2.4	36 5.8	21 5.6	57 100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HAMILTON	69 6.9	69 7.2	-	64 10.2	5 1.3	-	69 100.0	-	-	-	-	-	-	-	-	-	-	-	-	-
KINGSTON	90 9.0	90 9.4	-	26 4.2	64 17.1	-	-	90 100.0	-	-	-	-	-	-	-	-	-	-	-	-
KITCHENER	79 7.9	79 8.2	-	55 8.8	24 6.4	-	-	-	79 100.0	-	-	-	-	-	-	-	-	-	-	-
LONDON	57 5.7	56 5.8	1 2.4	41 6.5	16 4.3	-	-	-	-	57 100.0	-	-	-	-	-	-	-	-	-	-
NORTH BAY	89 8.9	82 8.6	7 17.1	26 4.2	63 16.8	-	-	-	-	-	89 100.0	-	-	-	-	-	-	-	-	-
OSHAWA	23 2.3	23 2.4	-	22 3.5	1 .3	-	-	-	-	-	-	23 100.0	-	-	-	-	-	-	-	-
OTTAWA	106 10.6	100 10.4	6 14.6	64 10.2	42 11.2	-	-	-	-	-	-	-	106 100.0	-	-	-	-	-	-	-
PETERBOROUGH	44 4.4	44 4.6	-	20 3.2	24 6.4	-	-	-	-	-	-	-	-	44 100.0	-	-	-	-	-	-
SAULT STE. MARIE	42 4.2	41 4.3	1 2.4	24 3.8	18 4.8	-	-	-	-	-	-	-	-	-	42 100.0	-	-	-	-	-
SUDBURY	136 13.6	113 11.8	23 56.1	80 12.8	56 15.0	-	-	-	-	-	-	-	-	-	-	136 100.0	-	-	-	-
THUNDER BAY	62 6.2	62 6.5	-	26 4.2	36 9.6	-	-	-	-	-	-	-	-	-	-	-	62 100.0	-	-	-
TORONTO	110 11.0	108 11.3	2 4.9	110 17.6	-	-	-	-	-	-	-	-	-	-	-	-	-	110 100.0	-	-
WINDSOR	36 3.6	36 3.8	-	32 5.1	4 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	36 100.0	-

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Table 1-1

SCREENER: Q.1A/B - AVAILABLE AT DESIGNATED OFFICE/ ARE THE NUMBER/ NAME/ ADDRESS CORRECT
BASED ON TOTAL INTERVIEWED
TOTAL

	TOTAL -----
TOTAL	1001 100.0
Q.1A - AVAILABLE AT DESIGNATED OFFICE.....	
- YES	149 14.9
- NO	746 74.5
- DK/NS	106 10.6
Q.1B - ARE NUMBER/ NAME/ ADDRESS CORRECT....	
- YES	769 76.8
- NO	115 11.5
- DK/NS	117 11.7

Table 2-1

SCREENER: Q.1C - TYPE OF HOME/ DWELLING
BASED ON TOTAL INTERVIEWED
TOTAL

	TOTAL -----
TOTAL	1001 100.0
SINGLE FAMILY OWNER/ OCCUPIER	859 85.8
OWNER/ OCCUPIER AND LANDLORD	17 1.7
OTHER	1 .1
DK/NS	124 12.4

Table 3-1

SCREENER: Q.2 - DETAILS/ SPECIFICS OF WORK DONE TO THE HOME
 BASED ON TOTAL INTERVIEWED
 TOTAL

	TOTAL -----
TOTAL	1001 100.0
ROOF REPAIR/ SOFFITS/ FACIA	477 47.7
WINDOWS	375 37.5
DOORS/ INSULATED DOORS	256 25.6
ATTACHED STRUCTURES	249 24.9
ELECTRICAL UPGRADE/ REPAIR	226 22.6
INSULATION	179 17.9
PLUMBING	150 15.0
BASEMENT	149 14.9
FURNACE/ HEATING SYSTEM/ BASEBOARD HEATER	145 14.5
SIDING	139 13.9
WEATHERSTRIPPING	135 13.5
BATHROOM	133 13.3
CHIMNEY	132 13.2
FOUNDATION	131 13.1
INTERIOR WALLS	104 10.4
MISCELLANEOUS INTERIOR	104 10.4
KITCHEN STRUCTURAL/ FIXTURES/ CABINETS/ COUNTER	83 8.3
VENTS/ VENTILATION	79 7.9
MISCELLANEOUS EXTERIOR	74 7.4

Continued

Table 3-1

SCREENER: Q.2 - DETAILS/ SPECIFICS OF WORK DONE TO THE HOME
BASED ON TOTAL INTERVIEWED
TOTAL

	TOTAL -----
TOTAL	1001 100.0
EXTERIOR WALLS	72 7.2
WATER SYSTEM/ WELL/ TANK	71 7.1
FLOORS	68 6.8
SMOKE DETECTORS	64 6.4
SEPTIC TANK/ SEWAGE	58 5.8
SPECIFICATIONS/ RECOMMENDATIONS ONLY	29 2.9
HOT WATER TANK	26 2.6
SUPPORT BEAMS	21 2.1
OTHER UNSPEC.	18 1.8
WATER UNSPEC.	3 .3
NO INFO. IN FILE	32 3.2
NOT STATED	135 13.5

Continued

Table 3-1

SCREENER: Q.2 - DETAILS/ SPECIFICS OF WORK DONE TO THE HOME
 BASED ON TOTAL INTERVIEWED
 TOTAL

	TOTAL -----
TOTAL	1001 100.0
NUMBER OF MENTIONS (ALL JOBS).....	
NONE/ NO INFO/ NOT STATED	135 13.5
1	85 8.5
2	123 12.3
3	152 15.2
4	143 14.3
5	128 12.8
6+	235 23.5
AVGE # JOBS (EXCL. DK/NS)	4.33
STD DEV # JOBS	2.35
NUMBER OF MENTIONS (* JOBS).....	
NONE/ NO INFO/ NOT STATED	367 36.7
1	255 25.5
2	205 20.5
3	120 12.0
4	43 4.3
5	8 .8
6+	3 .3
AVGE # JOBS (EXCL. DK/NS)	1.98
STD DEV # JOBS	1.03

Table 4

SCREENER: Q.2 - JOBS DONE TO THE HOME
BASED ON TOTAL WITH * JOBS DONE

	TOTAL	DOORS/ INSUL ATED DOORS	WINDOWS	INSUL- ATION	FURNACE/ HEATING	SIDING	WEATHER STRIP- PING	HOT WATER TANK
TOTAL	634	256	375	179	145	139	135	26
DOORS/ INSULATED DOORS	256 40.4	256 100.0	170 45.3	67 37.4	34 23.4	62 44.6	66 48.9	10 38.5
WINDOWS	375 59.1	170 66.4	375 100.0	105 58.7	44 30.3	83 59.7	85 63.0	10 38.5
INSULATION	179 28.2	67 26.2	105 28.0	179 100.0	23 15.9	55 39.6	46 34.1	6 23.1
FURNACE/ HEATING SYSTEM/ BASEBOARD HEATER	145 22.9	34 13.3	44 11.7	23 12.8	145 100.0	16 11.5	21 15.6	7 26.9
SIDING	139 21.9	62 24.2	83 22.1	55 30.7	16 11.0	139 100.0	29 21.5	5 19.2
WEATHERSTRIPPING	135 21.3	66 25.8	85 22.7	46 25.7	21 14.5	29 20.9	135 100.0	4 15.4
HOT WATER TANK	26 4.1	10 3.9	10 2.7	6 3.4	7 4.8	5 3.6	4 3.0	26 100.0

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Table 1-1
FORGIVENESS AMOUNT
BASED ON TOTAL INTERVIEWED

	LANGUAGE		LOAN TYPE		CMHC OFFICE															
	TOTAL	ENG- LISH	FR- ENCH	URBAN	RURAL	BAR- RIE	HAM- ILTON	KING- STON	KITCH- ENER	LON- DON	NORTH BAY	OSH- AWA	OTT- AWA	PETER -BOR	SAULT STE.	SUD- BURY	THUN- BAY	TOR- ONTO	WIND- SOR	ONT. NON SPEC
TOTAL	640	620	20	415	225	41	49	62	61	33	51	4	61	17	24	76	53	84	24	-
\$1,000 OR LESS	7 1.1	7 1.1	-	2 .5	5 2.2	-	-	-	1 1.6	-	-	-	-	-	-	1 1.3	3 5.7	1 1.2	1 4.2	-
\$1,001 TO \$2,000	32 5.0	31 5.0	1 5.0	25 6.0	7 3.1	1 2.4	6 12.2	1 1.6	3 4.9	1 3.0	2 3.9	1 25.0	3 4.9	2 11.8	-	1 1.3	2 3.8	9 10.7	-	-
\$2,001 TO \$3,000	70 10.9	67 10.8	3 15.0	55 13.3	15 6.7	5 12.2	4 8.2	8 12.9	9 14.8	3 9.1	4 7.8	-	4 6.6	1 5.9	2 8.3	6 7.9	4 7.5	15 17.9	5 20.8	-
\$3,001 TO \$4,000	122 19.1	119 19.2	3 15.0	81 19.5	41 18.2	9 22.0	9 18.4	14 22.6	11 18.0	9 27.3	11 21.6	2 50.0	10 16.4	4 23.5	5 20.8	10 13.2	8 15.1	17 20.2	3 12.5	-
\$4,001 TO \$4,500	69 10.8	67 10.8	2 10.0	45 10.8	24 10.7	7 17.1	8 16.3	8 12.9	8 13.1	5 15.2	5 9.8	-	4 6.6	1 5.9	4 16.7	8 10.5	4 7.5	6 7.1	1 4.2	-
\$4,501 TO \$5,000	326 50.9	319 51.5	7 35.0	199 48.0	127 56.4	19 46.3	22 44.9	31 50.0	29 47.5	15 45.5	29 56.9	1 25.0	40 65.6	9 52.9	13 54.2	42 55.3	28 52.8	34 40.5	14 58.3	-
\$5,001 AND OVER	11 1.7	7 1.1	4 20.0	5 1.2	6 2.7	-	-	-	-	-	-	-	-	-	-	8 10.5	3 5.7	-	-	-
AVERAGE AMOUNT (\$)	4124	4119	4284	4041	4277	4156	3928	4176	4006	4161	4221	3246	4351	3945	4314	4507	4124	3702	4121	-
STD DEV (\$)	1116	1109	1282	1118	1096	938	1228	915	1097	881	1007	909	960	1242	826	1026	1367	1267	1161	-
STD ERR (\$)	44	45	287	55	73	146	175	116	140	153	141	454	123	301	169	118	190	140	237	-
NOT STATED	3 .5	3 .5	-	3 .7	-	-	-	-	-	-	-	-	-	-	-	-	1 1.9	2 2.4	-	-

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TOTAL
1-10 YEARS
11-20 YEARS
21-30 YEARS
31-40 YEARS
41-50 YEARS
51-60 YEARS
61-75 YEARS
76 PLUS YEARS
AVERAGE # YEARS
STD DEV (YRS)
STD ERR (YRS)
NOT STATED

[illegible]

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Table 8-1
CMHC OFFICE ENGLISH NAME
BASED ON TOTAL INTERVIEWED

	LANGUAGE		LOAN TYPE		CMHC OFFICE															
	TOTAL	ENG- LISH	FR- ENCH	URBAN	RURAL	BAR- RIE	HAM- ILTON	KING- STON	KITCH- ENER	LON- DON	NORTH BAY	OSH- AWA	OTT- AWA	PETER BOR- OUGH	SAULT STE. MARIE	SUD- BURY	THUN- DER BAY	TOR- ONTO	WIND- SOR	ONT. NON SPEC
TOTAL	640	620	20	415	225	41	49	62	61	33	51	4	61	17	24	76	53	84	24	-
BARRIE	41 6.4	40 6.5	1 5.0	28 6.7	13 5.8	41 100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HAMILTON	49 7.7	49 7.9	-	45 10.8	4 1.8	-	49 100.0	-	-	-	-	-	-	-	-	-	-	-	-	-
KINGSTON	62 9.7	62 10.0	-	17 4.1	45 20.0	-	-	62 100.0	-	-	-	-	-	-	-	-	-	-	-	-
KITCHENER	61 9.5	61 9.8	-	44 10.6	17 7.6	-	-	-	61 100.0	-	-	-	-	-	-	-	-	-	-	-
LONDON	33 5.2	33 5.3	-	22 5.3	11 4.9	-	-	-	-	33 100.0	-	-	-	-	-	-	-	-	-	-
NORTH BAY	51 8.0	46 7.4	5 25.0	14 3.4	37 16.4	-	-	-	-	-	51 100.0	-	-	-	-	-	-	-	-	-
OSHAWA	4 .6	4 .6	-	4 1.0	-	-	-	-	-	-	-	4 100.0	-	-	-	-	-	-	-	-
OTTAWA	61 9.5	58 9.4	3 15.0	38 9.2	23 10.2	-	-	-	-	-	-	-	61 100.0	-	-	-	-	-	-	-
PETERBOROUGH	17 2.7	17 2.7	-	8 1.9	9 4.0	-	-	-	-	-	-	-	-	17 100.0	-	-	-	-	-	-
SAULT STE. MARIE	24 3.8	23 3.7	1 5.0	15 3.6	9 4.0	-	-	-	-	-	-	-	-	-	24 100.0	-	-	-	-	-
SUDBURY	76 11.9	67 10.8	9 45.0	53 12.8	23 10.2	-	-	-	-	-	-	-	-	-	-	76 100.0	-	-	-	-
THUNDER BAY	53 8.3	53 8.5	-	21 5.1	32 14.2	-	-	-	-	-	-	-	-	-	-	-	53 100.0	-	-	-
TORONTO	84 13.1	83 13.4	1 5.0	84 20.2	-	-	-	-	-	-	-	-	-	-	-	-	-	84 100.0	-	-
WINDSOR	24 3.8	24 3.9	-	22 5.3	2 .9	-	-	-	-	-	-	-	-	-	-	-	-	-	24 100.0	-

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Table 8	CMHC OFFICE ENGLISH NAME BASED ON TOTAL INTERVIEWED	8

Table 1-1
FORGIVENESS AMOUNT
BASED ON TOTAL INTERVIEWED

	LANGUAGE		LOAN TYPE		CMHC OFFICE															
	ENG- TOTAL	FR- LISH	FR- ENCH	URBAN	RURAL	BAR- RIE	HAM- ILTON	KING- STON	KITCH- ENER	LON- DON	NORTH BAY	OSH- AWA	OTT- AWA	PETER -BOR	SAULT STE.	SUD- BURY	THUN- DER BAY	TOR- ONTO	WIND- SOR	ONT. NON SPEC
TOTAL	211	205	6	133	78	20	14	26	19	11	14	3	20	4	9	29	23	15	4	-
\$1,000 OR LESS	1 .5	1 .5	-	-	1 1.3	-	-	-	1 5.3	-	-	-	-	-	-	-	-	-	-	-
\$1,001 TO \$2,000	12 5.7	11 5.4	1 16.7	9 6.8	3 3.8	-	2 14.3	1 3.8	1 5.3	-	1 7.1	1 33.3	1 5.0	1 25.0	-	-	1 4.3	3 20.0	-	-
\$2,001 TO \$3,000	19 9.0	19 9.3	-	17 12.8	2 2.6	1 5.0	2 14.3	2 7.7	4 21.1	1 9.1	-	-	-	-	2 22.2	2 6.9	2 8.7	3 20.0	-	-
\$3,001 TO \$4,000	40 19.0	39 19.0	1 16.7	23 17.3	17 21.8	4 20.0	4 28.6	5 19.2	4 21.1	5 45.5	2 14.3	1 33.3	4 20.0	-	-	5 17.2	4 17.4	2 13.3	-	-
\$4,001 TO \$4,500	26 12.3	26 12.7	-	19 14.3	7 9.0	3 15.0	1 7.1	4 15.4	-	2 18.2	2 14.3	-	3 15.0	1 25.0	1 11.1	8 27.6	-	1 6.7	-	-
\$4,501 TO \$5,000	110 52.1	106 51.7	4 66.7	63 47.4	47 60.3	12 60.0	5 35.7	14 53.8	9 47.4	3 27.3	9 64.3	1 33.3	12 60.0	2 50.0	6 66.7	13 44.8	15 65.2	5 33.3	4 100.0	-
\$5,001 AND OVER	2 .9	2 1.0	-	1 .8	1 1.3	-	-	-	-	-	-	-	-	-	-	1 3.4	1 4.3	-	-	-
AVERAGE AMOUNT (\$)	4174	4173	4204	4054	4377	4439	3598	4291	3741	4011	4440	3261	4426	3913	4381	4366	4382	3407	5000	-
STD DEV (\$)	1064	1053	1381	1095	976	743	1220	876	1251	749	1001	1049	873	1399	1006	767	1065	1431	-	-
STD ERR (\$)	73	74	564	95	111	166	326	172	287	226	268	606	195	700	335	143	222	382	-	-
NOT STATED	1 .5	1 .5	-	1 .8	-	-	-	-	-	-	-	-	-	-	-	-	-	1 6.7	-	-

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[illegible]

TABLE 3-1
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TABLE 4-1
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[illegible]

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PAGE 6

[illegible]

TABLE 7-1
PAGE 7

[illegible]

Table 8-1
CMHC OFFICE ENGLISH NAME
BASED ON TOTAL INTERVIEWED

	LANGUAGE		LOAN TYPE		CMHC OFFICE																
	TOTAL	ENG- LISH	FR- ENCH	URBAN	RURAL	BAR- RIE	HAM- ILTON	KING- STON	KITCH- ENER	LON- DON	NORTH BAY	OSH- AWA	OTT- AWA	PETER BOR- OUGH	SAULT STE. MARIE	SUD- BURY	THUN- DER BAY	TOR- ONTO	WIND- SOR	ONT. NON SPEC	
TOTAL	211	205	6	133	78	20	14	26	19	11	14	3	20	4	9	29	23	15	4	-	
BARRIE	20 9.5	20 9.8	-	15 11.3	5 6.4	20 100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HAMILTON	14 6.6	14 6.8	-	12 9.0	2 2.6	-	14 100.0	-	-	-	-	-	-	-	-	-	-	-	-	-	
KINGSTON	26 12.3	26 12.7	-	6 4.5	20 25.6	-	-	26 100.0	-	-	-	-	-	-	-	-	-	-	-	-	
KITCHENER	19 9.0	19 9.3	-	14 10.5	5 6.4	-	-	-	19 100.0	-	-	-	-	-	-	-	-	-	-	-	
LONDON	11 5.2	11 5.4	-	7 5.3	4 5.1	-	-	-	-	11 100.0	-	-	-	-	-	-	-	-	-	-	
NORTH BAY	14 6.6	12 5.9	2 33.3	5 3.8	9 11.5	-	-	-	-	-	14 100.0	-	-	-	-	-	-	-	-	-	
OSHAWA	3 1.4	3 1.5	-	3 2.3	-	-	-	-	-	-	-	3 100.0	-	-	-	-	-	-	-	-	
OTTAWA	20 9.5	20 9.8	-	11 8.3	9 11.5	-	-	-	-	-	-	-	20 100.0	-	-	-	-	-	-	-	
PETERBOROUGH	4 1.9	4 2.0	-	3 2.3	1 1.3	-	-	-	-	-	-	-	-	4 100.0	-	-	-	-	-	-	
SAULT STE. MARIE	9 4.3	9 4.4	-	6 4.5	3 3.8	-	-	-	-	-	-	-	-	-	9 100.0	-	-	-	-	-	
SUDBURY	29 13.7	25 12.2	4 66.7	25 18.8	4 5.1	-	-	-	-	-	-	-	-	-	-	29 100.0	-	-	-	-	
THUNDER BAY	23 10.9	23 11.2	-	8 6.0	15 19.2	-	-	-	-	-	-	-	-	-	-	-	23 100.0	-	-	-	
TORONTO	15 7.1	15 7.3	-	15 11.3	-	-	-	-	-	-	-	-	-	-	-	-	-	15 100.0	-	-	
WINDSOR	4 1.9	4 2.0	-	3 2.3	1 1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	4 100.0	-	

Continued

TABLE 8-2
PAGE 9.

[illegible]

Appendix C

CMR# 3696

CMHC Energy Conservation Study - Office

October, 1991

STUDY	RESP	CARD
1 2 3 4	5 6 7 8	9
3 6 9 6		1

Office:

CHMC Account Number:

Respondent Name:

Property/Street Address:

Postal Code

Municipal Address

1. Status of File

a) Available at designated office?

(10)

Yes	1
No	2

IF NO, WRITE IN DETAILS (sent to storage, other office, etc.)

b) Are the number/name/address above correct?

(11)

Yes	1
No	2

IF NO, WRITE IN REVISIONS/CHANGES

c) Is this a single family dwelling or is it, for example, an application for a building where the owner lives there but is a landlord also?

(12)

Single family owner/occupier	1
Owner/occupier and landlord	2
Other (WRITE IN)	3

INTERVIEWER INSTRUCTIONS

Background

This project is somewhat different from the usual survey. It is more like a research assignment. You have been provided with questionnaires with CHMC offices and file numbers on them. CMR will arrange for you to have permission to consult files in the CMHC offices. By examining the inspection reports and other papers in the files you will complete information on the type of work that was done on the homes. This information is required to help assess the impact of the Residential Rehabilitation Assistance Program on improving energy efficiency.

Questionnaire Completion

In filling out the questionnaire you should check that the respondents' name and file number are correct. If a particular file is not available or there are other problems, these should be recorded on page 1.

Q2 is the critical area of the questionnaire and it is most important that this be completed correctly. It is not sufficient to consult the original inspector's report because:

- a) The work that was originally planned is not always what was actually done (so you need to check the inspector's report signing off that the work was done as well as the original authorization).
- b) The description in the inspector's report is often not detailed enough (it may say "upgrade the heating system" without giving details of what the old system was and what it was changed to)

We want full details of all the activities done with special reference to those which might affect energy conservation. A typical list of activities is provided on the next sheet. When possible if there are replacement windows or doors we want to know how many were replaced and if they were double or triple glazed. If the heating system is upgraded or replaced we want to know if a boiler has been replaced by a high efficiency gas furnace not just that a heater or a boiler system has been upgraded. If there is insulation or rebuilding of walls, look in the documents to find out what type of insulation/R factor of insulation, etc. was used. If there is caulking or weatherstripping of doors and windows please provide full details.

All questionnaires must be returned to our office even if they are blanks.

ACTIVITIES/UPGRADES FROM RRAP PHYSICAL INSPECTIONS

- Surface drainage
- Basement waterproofness
- Water entry

- Attached structures (e.g. porch)
- Exterior walls
- Basement walls
- Support posts and beams
- Soundness of exterior walls
- Soundness of chimney
- Roof structure/replacement
- Ground floors
- All floors above ground

- Basement insulation
- Attic insulation
- Exterior wall insulation

- Attic ventilation
- Basement ventilation

- Replacement or upgrade of exterior doors
- Replacement or upgrade of windows

- Doors weatherstripping
- Windows weatherstripping

- Surface of exterior walls
- Roof surface
- Flashing

- Furnace conversions
- Furnace burner upgrades
- Complete furnace upgrades (from naturally aspirated to mid- or high-efficiency)
- Heat distribution system

- Pipes
- Plumbing
- Install bathroom(s)
- Bathroom equipment upgrade

- Visible wiring
- Electrical system

Appendix D

QUESTIONNAIRE

VALIDATION
Supervisor: _____
Date: _____

STUDY	RESP	CARD	REGION	CELL	DATE WORK COMPLETED
1 2 3 4	5 6 7	8	9	9	0
3 6 9 6		1			

RESPONDENT NAME: _____

ADDRESS: _____

TELEPHONE NUMBER: _____

INTERVIEWER'S NAME: _____

DATE OF INTERVIEW: _____

INTERVIEWING TIME:
Start: _____
Finish: _____

Good _____. My name is _____ from Canada Market Research, one of Canada's leading privately owned public opinion research companies. May I please speak to _____ (NAME FROM LIST). IF NOT AVAILABLE, ARRANGE CALLBACK. RECORD ON CONTACT SHEET.

CALLBACK: DATE: _____

TIME: _____

We understand that you participated in the Residential Rehabilitation Assistance Program, or RRAP for short, sponsored by Canada Mortgage and Housing Corporation, or CMHC. CONFIRM WITH RESPONDENT. As part of an ongoing study of the Program, we have been asked by CMHC to talk with you and learn more about what you thought of the program.

1. Just to confirm, do you recall participating in the RRAP program?

()
 Yes 1 -> CONTINUE
 No 2 -> TERMINATE AND RECORD
 ON CONTACT SHEET

[illegible]

3. There are a number of reasons that people have told us about why they participated in the RRAP program. I'm going to read you a list of these reasons. Thinking about all of the things you had done under the RRAP program, I'd like you to tell me whether you agree strongly, agree somewhat, disagree somewhat or disagree strongly that that is why you participated in the RRAP program.

READ LIST STARTING AT [X]

	Agree Strongly	Agree Somewhat	Disagree Somewhat	Disagree Strongly	
[] You wanted to lower your maintenance costs	1	2	3	4	()
[] You were concerned about health and safety	1	2	3	4	()
[] You wanted to make your house more energy-efficient	1	2	3	4	()
[] You wanted to improve the inside appearance of your house	1	2	3	4	()
[] You thought it would increase the value of your house	1	2	3	4	()
[] You wanted to increase the size of your living area	1	2	3	4	()
[] You wanted to provide access for a disabled person living there	1	2	3	4	()
[] There were certain improvements needed to meet building code standards and regulations	1	2	3	4	()

4. In general, since participating in the RRAP program, how likely would you say you are to think about saving energy in your home. Please be as honest as you can — there are no right or wrong answers. Would you say you are ... READ

	()
Much more likely to think about saving energy	1
More likely to think about saving energy	2
Less likely to think about saving energy	3
Much less likely to think about saving energy	4
Neither more nor less likely to think about saving energy	5

5. In general, since participating in the RRAP program, do you ... READ LIST STARTING AT [X]

	Yes	No	
[] Turn your thermostat down at night in the winter more often than you did before the RRAP program	1	2	()
[] Keep the setting on your heating or cooling system lower in winter and higher in summer, than before the RRAP program	1	2	()
[] Keep your heating system serviced regularly, more so than before participating in the RRAP program	1	2	()
[] Think that you are more aware of energy conservation than before the RRAP program	1	2	()

6. Since having the work done on your house, would you say it is ...

	()
Much more efficient	1
Slightly more efficient	2
About the same	3
Slightly less energy efficient	4
Much less energy efficient	5

7. And would you say you use ...

	()
Much less energy than before	1
Slightly less energy than before	2
About the same as before	3
Slightly more than before	4
Much more than before	5

8. And in general, would the changes made to your dwelling have saved you ...

	()
A lot of money on your energy bill	1
A little money on your energy bill	2
No money at all on your energy bill	3

9. Do you keep records of your fuel or energy bills, such as your hydro, gas or oil bill?

	()	
Yes	1	-> CONTINUE
No	2	-> SKIP TO Q12

10. Would you have these records from before, from after, or from both before and after you had the work done under the RRAP?

	()
Before only	1
After only	2
Before and after	3

11. Would it be possible to borrow these records so that we could calculate any savings in energy consumption you might have benefitted from as a result of the RRAP program? They will be returned to you promptly.

	()
Yes	1
No	2

Thank you. We will have a courier come to your house to pick them up.

12. Could we get your permission to speak to the local gas company, hydro or your oil dealer to get back records of your fuel consumption in terms of kilowatt hours of electricity, cubic feet of gas or litres or gallons of oil so we could use those in our calculations.

	()
Yes	1
No	2

Thank you. We will send you a release form verifying your permission.

And finally, I have a few questions just to help us classify our answers.

13. In which of the following age groups are you in? READ LIST.

	()
Under 25	1
25 - 29	2
30 - 34	3
35 - 39	4
40 - 44	5
45 - 49	6
50 - 54	7
55 - 59	8
60 - 64	9
65 or over	0

14. RECORD SEX

	()
Female	1
Male	2

15. Do you live in a ... READ LIST.

	()
High rise apartment	1
Low rise apartment	2
Row house	3
Townhouse	4
Duplex	5
Triplex	6
Fourplex	7
Semi detached	8
Single detached home	9

16. Which of the following heating systems do you have in your house? READ LIST

17. Which of these is your main source of heat? RECORD ONE ONLY.

	<u>16</u>	<u>17</u>
	In	Main
	Home	Heating
	()	System
	()	()
Forced air oil furnace	1	1
Forced air high efficiency gas furnace	2	2
Forced air conventional or regular gas furnace	3	3
Forced air electric furnace	4	4
Electrical heat pump	5	5
Electric baseboard heater	6	6
Electric radiant heat (in floor or ceiling)	7	7
Electric plenum heater	8	8
Electric boiler with radiators	9	9
Oil-fired boiler with radiators	0	0
Gas-fired radiators	X	X
Forced air high efficiency oil	Y	Y
	()	()
Wood stove	1	1
Other (SPECIFY)		
	2	2
	3	
DK:	4	4

18. How old is your heating system?

- ()
- | | |
|---------------------|---|
| Less than 1 year | 1 |
| 1 to 5 years | 2 |
| 5+ to 10 years | 3 |
| 10+ to 15 years | 4 |
| 15+ to 18 years | 5 |
| 18+ to 21 years | 6 |
| 21+ to 25 years | 7 |
| Older than 25 years | 8 |
| Don't know | 9 |

19. Approximately how old is your home? _____

20. How long have you lived in this residence?

- ()
- | | |
|--------------------|---|
| Less than 2 years | 1 |
| 2 to 5 years | 2 |
| 6 to 10 years | 3 |
| 11 to 15 years | 4 |
| 16 to 20 years | 5 |
| More than 20 years | 6 |
| Don't know | X |

21. What is the size of your residence in square feet, excluding unheated space? Would it be ... READ LIST

- ()
- | | |
|-----------------------------|---|
| Less than 1,000 square feet | 1 |
| 1,000 to 1,499 square feet | 2 |
| 1,500 to 1,999 square feet | 3 |
| 2,000 to 2,499 square feet | 4 |
| 2,500 to 2,999 square feet | 5 |
| 3,000 square feet or over | 6 |
| Don't know | 7 |

22. What is your approximate **ANNUAL** fuel bill? That is, what it costs to heat and cool your dwelling for one year. (IF RESPONDENT HAS EQUAL BILLING OR ONLY KNOWS LAST BILL, CALCULATE YEARLY AMOUNT BY MULTIPLYING MONTHLY/BI-MONTHLY PAYMENT BY NUMBER OF TIMES THEY PAY THAT YEAR. I.E. IF RESPONDENT PAYS \$100 EVERY 2 MONTHS (BI-MONTHLY) ANNUAL AMOUNT IS \$600.)

OFFICE USE ONLY

--	--	--	--	--

()

23. What is your occupation?

Company: _____

()

Type of work: _____

()

24. Including yourself, how many people are there living in your household?
25. How many female adults 18 years and over?
26. How many male adults 18 years of age and over?
27. How many children under 18?

	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	
	Total Household	Adults 18+		Children Under 18	
		Females	Males		
	()	()	()	()	
One	1	1	1	1	}
Two	2	2	2	2	}
Three	3	3	3	3	} — CONTINUE
Four	4	4	4	4	}
Five or more	5	5	5	5	}
None	6	6	6	6	} SKIP TO Q29

INTERVIEWER CHECK THAT TOTAL HOUSEHOLD FIGURE AGREES WITH
TOTAL OF ADULT FEMALES + ADULT MALES + CHILDREN

ASK ALL WITH CHILDREN UNDER 18 IN Q27

28. How old is/are the children under 18?

()

6 years of age and under 1

7 to 12 years of age 2

13 to 17 years of age 3

29. What was the last grade of school that you completed? DO NOT READ LIST.

()

No formal education 1

Some elementary school 2

Completed elementary school 3

Some high school 4

High school graduate 5

Some college/technical school 6

College/university graduate 7

31. And what is your total annual household income before taxes? is it ... READ LIST ...

()

Under \$10,000 1

\$10,000 - \$19,999 2

\$20,000 - \$29,999 3

\$30,000 - \$39,999 4

\$40,000 - \$49,999 5

\$50,000 - \$59,999 6

\$60,000 - \$69,999 7

\$70,000 and over 8

DO NOT READ: Refused 9

Don't know 0

RECORD/CONFIRM

RESPONDENT'S NAME: _____

ADDRESS: _____

CITY: _____ POSTAL CODE:

--	--	--	--	--	--

()

PHONE#: (BUSINESS) _____

PHONE #: (HOME) _____
(If possible)

FAX#: _____

DATE: _____

THANK RESPONDENT AND TERMINATE INTERVIEW.

CODING RECORD TYPE OF AREA IN WHICH RESPONDENT LIVES:

- ()
- | | |
|--|---|
| In rural or country area | 1 |
| In a small town of about 2,000 people | 2 |
| In a small town of about 2,000 to 10,000 people | 3 |
| In a medium size city consisting of about 10,000 to 100,000 people | 4 |
| In a suburban area of a large city | 5 |
| In a large city | 6 |

Appendix E

TITLE: R.R.A.P. STUDY

STUDY NO.: #3696

DATE: MARCH 23, 1992

PREPARED FOR: C.M.H.C.

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Q.2 - SPONTANEOUS REASONS FOR REPAIRS/UPGRADES/ACTIVITIES DONE ON HOUSE UNDER THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

WORK DONE THROUGH RRAP PROGRAM																							
	ROOF/ CHIM. RE- TOTAL	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH -ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT -ILA -TION	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
	191	105	108	41	37	39	25	29	26	26	13	26	17	35	10	12	17	10	12	9	9	4	2
	90.5	99.1	94.7	95.3	92.5	95.1	100.0	100.0	92.9	100.0	92.9	96.3	100.0	100.0	100.0	100.0	94.4	100.0	100.0	81.8	100.0	100.0	100.0
	68	57	40	18	13	16	7	15	6	8	4	9	9	10	2	3	5	1	7	5	2	1	1
	32.2	53.8	35.1	41.9	32.5	39.0	28.0	51.7	21.4	30.8	28.6	33.3	52.9	28.6	20.0	25.0	27.8	10.0	58.3	45.5	22.2	25.0	50.0
	64	55	38	17	12	15	7	13	5	7	4	9	9	9	2	3	5	1	5	4	2	1	1
	30.3	51.9	33.3	39.5	30.0	36.6	28.0	44.8	17.9	26.9	28.6	33.3	52.9	25.7	20.0	25.0	27.8	10.0	41.7	36.4	22.2	25.0	50.0
	7	5	3	1	1	2	-	3	1	1	-	-	2	1	-	1	-	-	2	1	-	-	-
	3.3	4.7	2.6	2.3	2.5	4.9		10.3	3.6	3.8			11.8	2.9		8.3			16.7	9.1			
	148	80	93	38	33	33	25	24	21	23	13	22	17	25	9	7	16	7	10	9	6	4	2
	70.1	75.5	81.6	88.4	82.5	80.5	100.0	82.8	75.0	88.5	92.9	81.5	100.0	71.4	90.0	58.3	88.9	70.0	83.3	81.8	66.7	100.0	100.0
	77	45	50	29	17	19	14	12	7	16	7	14	7	12	5	5	10	3	4	6	4	3	1
	36.5	42.5	43.9	67.4	42.5	46.3	56.0	41.4	25.0	61.5	50.0	51.9	41.2	34.3	50.0	41.7	55.6	30.0	33.3	54.5	44.4	75.0	50.0
	50	30	34	12	9	12	6	9	10	11	3	8	8	15	4	1	6	3	6	3	2	1	1
	23.7	28.3	29.8	27.9	22.5	29.3	24.0	31.0	35.7	42.3	21.4	29.6	47.1	42.9	40.0	8.3	33.3	30.0	50.0	27.3	22.2	25.0	50.0
	43	21	27	7	10	6	11	5	11	2	6	9	6	4	3	2	2	1	2	4	1	2	1
	20.4	19.8	23.7	16.3	25.0	14.6	44.0	17.2	39.3	7.7	42.9	33.3	35.3	11.4	30.0	16.7	11.1	10.0	16.7	36.4	11.1	50.0	50.0
	33	15	22	7	18	8	10	9	4	5	1	5	7	6	2	2	6	1	1	1	1	-	2
	15.6	14.2	19.3	16.3	45.0	19.5	40.0	31.0	14.3	19.2	7.1	18.5	41.2	17.1	20.0	16.7	33.3	10.0	8.3	9.1	11.1		100.0
	9	4	7	2	4	2	4	1	2	1	1	1	-	-	-	1	-	1	-	-	1	2	-
	4.3	3.8	6.1	4.7	10.0	4.9	16.0	3.4	7.1	3.8	7.1	3.7				8.3		10.0			11.1	50.0	
	7	3	2	1	2	1	2	1	-	2	-	1	1	-	-	-	-	1	1	1	2	-	-
	3.3	2.8	1.8	2.3	5.0	2.4	8.0	3.4		7.7		3.7	5.9				10.0		8.3	9.1	22.2		
	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	.5	.9																					
	78	41	50	14	16	16	11	17	11	14	7	15	8	15	5	5	8	5	5	3	5	2	2
	37.0	38.7	43.9	32.6	40.0	39.0	44.0	58.6	39.3	53.8	50.0	55.6	47.1	42.9	50.0	41.7	44.4	50.0	41.7	27.3	55.6	50.0	100.0

Continued

Table 1-1

Q.2 - SPONTANEOUS REASONS FOR REPAIRS/UPGRADES/ACTIVITIES DONE ON HOUSE UNDER THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	WORK DONE THROUGH RRAP PROGRAM																						
	ROOF/ CHIM- RE- PAIR	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH -ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT -ILA	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
NEW... REPLACED... / RENOVATED...	56 26.5	29 27.4	37 32.5	7 16.3	13 32.5	9 22.0	10 40.0	13 44.8	10 35.7	10 38.5	4 28.6	12 44.4	6 35.3	11 31.4	5 50.0	4 33.3	5 27.8	2 20.0	4 33.3	2 18.2	4 44.4	2 50.0	2 100.0
NEW - DIDN'T HAVE BEFORE	24 11.4	12 11.3	17 14.9	9 20.9	8 20.0	7 17.1	3 12.0	6 20.7	1 3.6	5 19.2	3 21.4	4 14.8	3 17.6	3 8.6	1 10.0	2 16.7	5 27.8	2 20.0	2 16.7	2 18.2	-	-	-
REMOVED OR DISCONNECTED BECAUSE NOT IN USE	3 1.4	3 2.8	1 .9	-	-	1 2.4	-	-	-	-	-	1 3.7	-	2 5.7	-	-	-	-	-	-	-	-	-
ADDED NEW SERVICE/ HOOKED UP TO SERVICE PREVIOUSLY UNAVAILABLE	2 .9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1 10.0	-	-	1 11.1	-	-
MISC. (NET) REPAIR ETC.....																							
IMPROVE AIR QUALITY/AIR CIRCULATION	8 3.8	5 4.7	5 4.4	2 4.7	1 2.5	3 7.3	3 12.0	-	1 3.6	2 7.7	2 14.3	4 14.8	1 5.9	4 11.4	2 20.0	6 50.0	1 5.6	-	1 8.3	1 9.1	-	-	-
TO IMPROVE COMFORT	7 3.3	5 4.7	4 3.5	1 2.3	-	2 4.9	-	-	1 3.6	-	-	1 3.7	-	3 8.6	-	1 8.3	-	1 10.0	3 25.0	1 9.1	-	-	-
IMPROVE ACCESS/ PROVIDE ACCESS	2 .9	1 .9	1 .9	1 2.3	1 2.5	-	1 4.0	-	-	-	-	2 7.4	-	-	-	1 8.3	-	-	-	-	-	-	-
(NET) MAINTENANCE	10 4.7	7 6.6	4 3.5	2 4.7	3 7.5	3 7.3	2 8.0	1 3.4	4 14.3	2 7.7	-	2 7.4	2 11.8	3 8.6	1 10.0	1 8.3	1 5.6	-	2 16.7	2 18.2	-	1 25.0	1 50.0
FOR EASIER MAINTENANCE	8 3.8	6 5.7	2 1.8	2 4.7	3 7.5	2 4.9	2 8.0	1 3.4	3 10.7	2 7.7	-	2 7.4	2 11.8	3 8.6	1 10.0	1 8.3	1 5.6	-	2 16.7	2 18.2	-	-	1 50.0
TO REDUCE MAINTENANCE COSTS/ REDUCE COSTS	2 .9	1 .9	2 1.8	-	-	1 2.4	-	-	1 3.6	-	-	-	-	-	-	-	-	-	-	-	-	1 25.0	-

MISCELLANEOUS.....

Continued

Table 1-1

Q.2 - SPONTANEOUS REASONS FOR REPAIRS/UPGRADES/ACTIVITIES DONE ON HOUSE UNDER THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	WORK DONE THROUGH RRAP PROGRAM																						
	ROOF/ CHIM- RE- TOTAL	WIND- OWS/ PAIR	ATTACH- ED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH- ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER- IOR HOME/ KIT- CHEN	VENTS /VENT -TION	EXTER -IOR HOME/ WATER	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR			
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
TO IMPROVE ENERGY-CONSERVATION/ ENERGY-EFFICIENT/ REDUCE HEAT LOSS/ ELIMINATE COLD DRAFT/ SWITCHED TO MORE ENERGY EFFICIENT FUEL SOURCE/SYSTEM	93 44.1	46 43.4	70 61.4	23 53.5	19 47.5	28 68.3	10 40.0	9 31.0	16 57.1	12 46.2	13 92.9	13 48.1	7 41.2	18 51.4	2 20.0	6 50.0	5 27.8	3 30.0	6 50.0	3 27.3	2 22.2	1 25.0	-
FOR HEALTH/SAFETY REASONS	27 12.8	16 15.1	14 12.3	12 27.9	9 22.5	4 9.8	5 20.0	6 20.7	5 17.9	2 7.7	1 7.1	3 11.1	3 17.6	7 20.0	-	2 16.7	5 27.8	4 40.0	2 16.7	5 45.5	2 22.2	1 25.0	1 50.0
DONE IN CONJUNCTION WITH OTHER WORK DONE	7 3.3	5 4.7	4 3.5	1 2.3	1 2.5	5 12.2	-	3 10.3	1 3.6	4 15.4	3 21.4	2 7.4	-	3 8.6	-	2 16.7	1 5.6	-	-	2 18.2	-	-	-
TO PROVIDE DISABLED ACCESS	6 2.8	3 2.8	2 1.8	1 2.3	1 2.5	2 4.9	1 4.0	2 6.9	-	2 7.7	-	3 11.1	1 5.9	-	1 10.0	-	-	-	1 8.3	1 9.1	-	-	1 50.0
TO CONFORM TO GOVERNMENT REGULATIONS/ TOWN STANDARDS	6 2.8	1 .9	3 2.6	2 4.7	-	3 7.3	2 8.0	-	-	2 7.7	-	-	2 11.8	2 5.7	-	-	-	-	2 18.2	1 11.1	-	-	-
TO IMPROVE EXTERIOR APPEARANCE	5 2.4	4 3.8	2 1.8	2 4.7	2 5.0	1 2.4	-	1 3.4	1 3.6	-	-	1 3.7	1 5.9	3 8.6	1 10.0	2 16.7	2 11.1	-	2 16.7	1 9.1	-	-	-
TO INCREASE LIVING AREA/ EXTEND HOUSE	4 1.9	3 2.8	-	1 2.3	1 2.5	2 4.9	-	-	1 3.6	-	-	2 7.4	1 5.9	3 8.6	-	1 8.3	-	-	2 16.7	1 9.1	-	-	-
TO INCREASE HOUSE VALUE/ FOR HOME IMPROVEMENT	4 1.9	3 2.8	2 1.8	3 7.0	1 2.5	1 2.4	-	1 3.4	1 3.6	-	-	-	1 5.9	2 5.7	-	2 11.1	-	-	1 8.3	1 9.1	-	-	-
TO IMPROVE INTERIOR APPEARANCE	3 1.4	3 2.8	1 .9	1 2.3	-	1 2.4	-	-	1 3.6	-	-	1 3.7	1 5.9	2 5.7	1 10.0	1 8.3	-	-	2 16.7	1 9.1	-	-	-
CMHC RECOMMENDATION	1 .5	1 .9	1 .9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1 10.0	-	-	-	-	-

Table 1-2

Q.2 - SPONTANEOUS REASONS FOR REPAIRS/UPGRADES/ACTIVITIES DONE ON HOUSE UNDER THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	GENDER		RESPONDENT'S AGE				HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN				
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UNEMP - / H.W. /	STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20	
(NET) REPAIR/ REPLACEMENT/ IMPROVEMENT/ UPGRADE	191 90.5	79 94.0	112 88.2	46 88.5	56 94.9	87 88.8	49 84.5	73 91.3	65 94.2	36 92.3	69 94.5	32 84.2	53 91.4	110 90.9	21 100.0	48 92.3	22 95.7	21 95.5	19 95.0	
(SUBNET) WATERPROOFING	68 32.2	23 27.4	45 35.4	15 28.8	20 33.9	32 32.7	19 32.8	26 32.5	22 31.9	9 23.1	29 39.7	11 28.9	16 27.6	42 34.7	9 42.9	17 32.7	7 30.4	9 40.9	9 45.0	
BECAUSE LEAKING/ WATER SEEPING IN	64 30.3	22 26.2	42 33.1	14 26.9	20 33.9	29 29.6	17 29.3	25 31.3	21 30.4	9 23.1	25 34.2	11 28.9	15 25.9	39 32.2	9 42.9	16 30.8	7 30.4	9 40.9	8 40.0	
DECREASE DAMPNES/WETNESS	7 3.3	3 3.6	4 3.1	1 1.9	- 6.1	6 5.2	3 5.2	2 2.5	2 2.9	- 6.8	5 6.8	- 1.7	1 5.0	6 5.0	- 1.9	1 1.9	- 1.9	- 1.9	1 5.0	
(SUBNET) REPAIR/ REPLACEMENT/ UPGRADE	148 70.1	56 66.7	92 72.4	37 71.2	48 81.4	62 63.3	39 67.2	54 67.5	52 75.4	31 79.5	48 65.8	28 73.7	43 74.1	80 66.1	19 90.5	40 76.9	17 73.9	17 77.3	17 85.0	
BECAUSE DETERIORATING/ FALLING APART/ ROTTING/ COLLAPSING	77 36.5	32 38.1	45 35.4	22 42.3	18 30.5	37 37.8	17 29.3	31 38.8	28 40.6	16 41.0	24 32.9	14 36.8	21 36.2	42 34.7	11 52.4	24 46.2	11 47.8	9 40.9	8 40.0	
BECAUSE DAMAGED/ BROKEN/ NEEDED TO BE FIXED/ REPAIRED	50 23.7	14 16.7	36 28.3	13 25.0	15 25.4	21 21.4	15 25.9	20 25.0	12 17.4	12 30.8	22 30.1	4 10.5	8 13.8	31 25.6	8 38.1	13 25.0	3 13.0	6 27.3	8 40.0	
BECAUSE OLD/ OLD STRUCTURE/ SEVERAL YEARS OLD	43 20.4	21 25.0	22 17.3	9 17.3	15 25.4	19 19.4	9 15.5	15 18.8	19 27.5	9 23.1	11 15.1	10 26.3	12 20.7	21 17.4	9 42.9	12 23.1	7 30.4	4 18.2	4 20.0	
POOR QUALITY OF ORIGINAL STRUCTURE/ INSTALLATION/ IMPROVED ON ORIGINAL STRUCTURE	33 15.6	13 15.5	20 15.7	10 19.2	16 27.1	7 7.1	10 17.2	10 12.5	13 18.8	7 17.9	11 15.1	9 23.7	14 24.1	14 11.6	4 19.0	12 23.1	2 8.7	6 27.3	8 40.0	
IMPROVE EFFICIENCY	9 4.3	5 6.0	4 3.1	3 5.8	5 8.5	1 1.0	1 1.7	4 5.0	4 5.8	5 12.8	1 1.4	3 7.9	5 8.6	2 1.7	2 9.5	3 5.8	2 8.7	1 4.5	1 5.0	
NEEDED REPLACING/ NEEDED REDOING	7 3.3	3 3.6	4 3.1	- 6.8	4 6.8	3 3.1	3 5.2	2 2.5	2 2.9	3 7.7	3 4.1	- 4.1	1 1.7	5 4.1	1 4.8	1 1.9	- 1.9	- 1.9	- 1.9	
TO CORRECT WORK OF PREVIOUS CONTRACTOR	1 .5	- .5	1 .8	1 1.9	- 1.9	- 1.9	1 1.7	- 1.7	- 1.7	- 1.7	- 1.7	1 2.6	1 1.7	- 1.7	- 1.7	- 1.7	- 1.7	- 1.7	- 1.7	
(SUBNET) ADD NEW/ DISCONNECT OLD	78 37.0	33 39.3	45 35.4	16 30.8	22 37.3	39 39.8	16 27.6	33 41.3	27 39.1	15 38.5	28 38.4	9 23.7	18 31.0	47 38.8	9 42.9	20 38.5	7 30.4	9 40.9	7 35.0	

Continued

Table 1-2

Q.2 - SPONTANEOUS REASONS FOR REPAIRS/UPGRADES/ACTIVITIES DONE ON HOUSE UNDER THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	GENDER		RESPONDENT'S AGE				HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UNEMP / H.W. STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
NEW... REPLACED... / RENOVATED...	56	23	33	7	19	29	12	24	19	11	19	6	9	38	6	10	5	5	3
	26.5	27.4	26.0	13.5	32.2	29.6	20.7	30.0	27.5	28.2	26.0	15.8	15.5	31.4	28.6	19.2	21.7	22.7	15.0
NEW - DIDN'T HAVE BEFORE	24	8	16	8	4	12	6	11	6	6	10	1	6	13	4	9	1	4	4
	11.4	9.5	12.6	15.4	6.8	12.2	10.3	13.8	8.7	15.4	13.7	2.6	10.3	10.7	19.0	17.3	4.3	18.2	20.0
REMOVED OR DISCONNECTED BECAUSE NOT IN USE	3	3	-	2	1	-	-	1	2	-	1	2	3	-	-	2	1	-	1
	1.4	3.6		3.8	1.7			1.3	2.9		1.4	5.3	5.2			3.8	4.3		5.0
ADDED NEW SERVICE/ HOOKED UP TO SERVICE PREVIOUSLY UNAVAILABLE	2	1	1	-	-	2	1	1	-	1	1	-	1	1	-	-	-	-	-
	.9	1.2	.8			2.0	1.7	1.3		2.6	1.4		1.7	.8					
MISC. (NET) REPAIR ETC.....																			
IMPROVE AIR QUALITY/AIR CIRCULATION	8	2	6	1	4	3	2	4	2	1	6	-	2	5	1	1	-	-	1
	3.8	2.4	4.7	1.9	6.8	3.1	3.4	5.0	2.9	2.6	8.2		3.4	4.1	4.8	1.9			5.0
TO IMPROVE COMFORT	7	5	2	-	2	5	1	5	-	2	4	-	-	6	-	-	-	-	-
	3.3	6.0	1.6		3.4	5.1	1.7	6.3		5.1	5.5			5.0					
IMPROVE ACCESS/ PROVIDE ACCESS	2	1	1	-	1	1	-	2	-	-	2	-	1	1	-	-	-	-	-
	.9	1.2	.8		1.7	1.0		2.5			2.7		1.7	.8					
(NET) MAINTENANCE	10	4	6	2	5	3	3	6	1	2	5	2	2	6	2	2	-	1	1
	4.7	4.8	4.7	3.8	8.5	3.1	5.2	7.5	1.4	5.1	6.8	5.3	3.4	5.0	9.5	3.8		4.5	5.0
FOR EASIER MAINTENANCE	8	2	6	1	5	2	3	4	1	1	4	2	1	5	2	2	-	1	1
	3.8	2.4	4.7	1.9	8.5	2.0	5.2	5.0	1.4	2.6	5.5	5.3	1.7	4.1	9.5	3.8		4.5	5.0
TO REDUCE MAINTENANCE COSTS/ REDUCE COSTS	2	2	-	1	-	1	-	2	-	1	1	-	1	1	-	-	-	-	-
	.9	2.4		1.9		1.0		2.5		2.6	1.4		1.7	.8					
MISCELLANEOUS.....																			
TO IMPROVE ENERGY-CONSERVATION/ ENERGY-EFFICIENT/ REDUCE HEAT LOSS/ ELIMINATE COLD DRAFT/ SWITCHED TO MORE ENERGY EFFICIENT FUEL SOURCE/ SYSTEM	93	40	53	25	25	42	27	37	28	17	33	23	29	55	6	20	11	8	9
	44.1	47.6	41.7	48.1	42.4	42.9	46.6	46.3	40.6	43.6	45.2	60.5	50.0	45.5	28.6	38.5	47.8	36.4	45.0

Continued

Table 1-2

Q.2 - SPONTANEOUS REASONS FOR REPAIRS/UPGRADES/ACTIVITIES DONE ON HOUSE UNDER THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	GENDER		RESPONDENT'S AGE				HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UNEMP / H.W. / STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
FOR HEALTH/SAFETY REASONS	27 12.8	12 14.3	15 11.8	8 15.4	9 15.3	10 10.2	4 6.9	14 17.5	8 11.6	8 20.5	6 8.2	5 13.2	8 13.8	14 11.6	4 19.0	7 13.5	2 8.7	4 18.2	3 15.0
DONE IN CONJUNCTION WITH OTHER WORK DONE	7 3.3	2 2.4	5 3.9	4 7.7	1 1.7	2 2.0	2 3.4	3 3.8	2 2.9	-	5 6.8	2 5.3	4 6.9	2 1.7	1 4.8	3 5.8	1 4.3	1 4.5	2 10.0
TO PROVIDE DISABLED ACCESS	6 2.8	2 2.4	4 3.1	-	4 6.8	2 2.0	2 3.4	3 3.8	1 1.4	-	3 4.1	1 2.6	-	5 4.1	1 4.8	1 1.9	-	-	1 5.0
TO CONFORM TO GOVERNMENT REGULATIONS/ TOWN STANDARDS	6 2.8	4 4.8	2 1.6	2 3.8	2 3.4	2 2.0	1 1.7	2 2.5	3 4.3	1 2.6	1 1.4	2 5.3	2 3.4	2 1.7	2 9.5	2 3.8	1 4.3	1 4.5	-
TO IMPROVE EXTERIOR APPEARANCE	5 2.4	1 1.2	4 3.1	-	3 5.1	2 2.0	3 5.2	2 2.5	-	2 5.1	3 4.1	-	-	5 4.1	-	-	-	-	-
TO INCREASE LIVING AREA/ EXTEND HOUSE	4 1.9	3 3.6	1 .8	-	3 5.1	1 1.0	-	3 3.8	1 1.4	-	2 2.7	1 2.6	1 1.7	3 2.5	-	-	-	-	-
TO INCREASE HOUSE VALUE/ FOR HOME IMPROVEMENT	4 1.9	2 2.4	2 1.6	1 1.9	1 1.7	2 2.0	1 1.7	2 2.5	1 1.4	-	2 2.7	-	1 1.7	3 2.5	-	1 1.9	1 4.3	-	-
TO IMPROVE INTERIOR APPEARANCE	3 1.4	1 1.2	2 1.6	-	3 5.1	-	1 1.7	2 2.5	-	-	3 4.1	-	-	3 2.5	-	-	-	-	-
CMHC RECOMMENDATION	1 .5	-	1 .8	-	1 1.7	-	1 1.7	-	-	1 2.6	-	-	-	1 .8	-	-	-	-	-

Table 1-3

Q.2 - SPONTANEOUS REASONS FOR REPAIRS/UPGRADES/ACTIVITIES DONE ON HOUSE UNDER THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	TOTAL	SINGLE DET- ACHED	OTHER	30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
(NET) REPAIR/ REPLACEMENT/ IMPROVEMENT/ UPGRADE	191 90.5	167 89.3	18 100.0	45 86.5	54 90.0	71 95.9	33 94.3	36 92.3	28 93.3	62 93.9	42 85.7	85 90.4	79 94.0	23 92.0	35 87.5	30 93.8
(SUBNET) WATERPROOFING	68 32.2	61 32.6	4 22.2	10 19.2	26 43.3	28 37.8	10 28.6	13 33.3	6 20.0	22 33.3	17 34.7	28 29.8	29 34.5	9 36.0	8 20.0	11 34.4
BECAUSE LEAKING/ WATER SEEPING IN	64 30.3	58 31.0	3 16.7	9 17.3	26 43.3	25 33.8	9 25.7	12 30.8	6 20.0	21 31.8	15 30.6	27 28.7	29 34.5	8 32.0	6 15.0	11 34.4
DECREASE DAMPNES/WETNESS	7 3.3	6 3.2	1 5.6	3 5.8	-	4 5.4	1 2.9	2 5.1	-	2 3.0	2 4.1	3 3.2	2 2.4	2 8.0	2 5.0	-
(SUBNET) REPAIR/ REPLACEMENT/ UPGRADE	148 70.1	133 71.1	12 66.7	33 63.5	41 68.3	55 74.3	27 77.1	26 66.7	23 76.7	46 69.7	34 69.4	67 71.3	60 71.4	18 72.0	29 72.5	20 62.5
BECAUSE DETERIORATING/ FALLING APART/ ROTTING/ COLLAPSING	77 36.5	71 38.0	4 22.2	19 36.5	20 33.3	29 39.2	15 42.9	12 30.8	12 40.0	24 36.4	16 32.7	37 39.4	32 38.1	5 20.0	14 35.0	14 43.8
BECAUSE DAMAGED/ BROKEN/ NEEDED TO BE FIXED/ REPAIRED	50 23.7	47 25.1	2 11.1	14 26.9	11 18.3	18 24.3	4 11.4	6 15.4	12 40.0	18 27.3	11 22.4	21 22.3	20 23.8	8 32.0	12 30.0	3 9.4
BECAUSE OLD/ OLD STRUCTURE/ SEVERAL YEARS OLD	43 20.4	38 20.3	5 27.8	6 11.5	19 31.7	15 20.3	11 31.4	11 28.2	7 23.3	11 16.7	8 16.3	23 24.5	17 20.2	4 16.0	8 20.0	7 21.9
POOR QUALITY OF ORIGINAL STRUCTURE/ INSTALLATION/ IMPROVED ON ORIGINAL STRUCTURE	33 15.6	28 15.0	5 27.8	3 5.8	11 18.3	16 21.6	6 17.1	5 12.8	5 16.7	9 13.6	7 14.3	16 17.0	15 17.9	2 8.0	8 20.0	4 12.5
IMPROVE EFFICIENCY	9 4.3	8 4.3	1 5.6	2 3.8	3 5.0	3 4.1	2 5.7	3 7.7	1 3.3	2 3.0	3 6.1	4 4.3	3 3.6	2 8.0	1 2.5	1 3.1
NEEDED REPLACING/ NEEDED REDOING	7 3.3	7 3.7	-	1 1.9	2 3.3	1 1.4	2 5.7	1 2.6	-	2 3.0	4 8.2	1 1.1	1 1.2	2 8.0	1 2.5	2 6.3
TO CORRECT WORK OF PREVIOUS CONTRACTOR	1 .5	1 .5	-	1 1.9	-	-	1 2.9	-	-	-	-	1 1.1	-	-	1 2.5	-
(SUBNET) ADD NEW/ DISCONNECT OLD	78 37.0	68 36.4	9 50.0	19 36.5	17 28.3	33 44.6	10 28.6	14 35.9	8 26.7	33 50.0	12 24.5	33 35.1	33 39.3	8 32.0	13 32.5	16 50.0

Continued

Table 1-3

Q.2 - SPONTANEOUS REASONS FOR REPAIRS/UPGRADES/ACTIVITIES DONE ON HOUSE UNDER THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	TOTAL	SINGLE DET- ACHED	OTHER	30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
NEW... REPLACED... / RENOVATED...	56 26.5	48 25.7	8 44.4	13 25.0	13 21.7	25 33.8	7 20.0	9 23.1	5 16.7	20 30.3	8 16.3	28 29.8	28 33.3	6 24.0	8 20.0	10 31.3
NEW - DIDN'T HAVE BEFORE	24 11.4	21 11.2	2 11.1	5 9.6	4 6.7	9 12.2	2 5.7	4 10.3	3 10.0	11 16.7	3 6.1	10 10.6	8 9.5	3 12.0	6 15.0	4 12.5
REMOVED OR DISCONNECTED BECAUSE NOT IN USE	3 1.4	3 1.6	-	-	-	3 4.1	-	2 5.1	1 3.3	2 3.0	1 2.0	-	-	-	1 2.5	1 3.1
ADDED NEW SERVICE/ HOOKED UP TO SERVICE PREVIOUSLY UNAVAILABLE	2 .9	2 1.1	-	1 1.9	-	1 1.4	1 2.9	-	-	2 3.0	-	-	1 1.2	-	-	1 3.1
MISC. (NET) REPAIR ETC.....																
IMPROVE AIR QUALITY/AIR CIRCULATION	8 3.8	7 3.7	1 5.6	-	3 5.0	3 4.1	3 8.6	2 5.1	-	3 4.5	1 2.0	4 4.3	3 3.6	2 8.0	2 5.0	1 3.1
TO IMPROVE COMFORT	7 3.3	5 2.7	1 5.6	3 5.8	1 1.7	3 4.1	2 5.7	1 2.6	1 3.3	4 6.1	2 4.1	1 1.1	1 1.2	1 4.0	3 7.5	1 3.1
IMPROVE ACCESS/ PROVIDE ACCESS	2 .9	1 .5	1 5.6	-	-	1 1.4	-	1 2.6	1 3.3	-	-	2 2.1	-	1 4.0	1 2.5	-
(NET) MAINTENANCE	10 4.7	10 5.3	-	2 3.8	3 5.0	4 5.4	2 5.7	2 5.1	2 6.7	2 3.0	2 4.1	6 6.4	5 6.0	-	2 5.0	2 6.3
FOR EASIER MAINTENANCE	8 3.8	8 4.3	-	1 1.9	3 5.0	3 4.1	2 5.7	2 5.1	1 3.3	1 1.5	2 4.1	5 5.3	4 4.8	-	2 5.0	1 3.1
TO REDUCE MAINTENANCE COSTS/ REDUCE COSTS	2 .9	2 1.1	-	1 1.9	-	1 1.4	-	-	1 3.3	1 1.5	-	1 1.1	1 1.2	-	-	1 3.1
MISCELLANEOUS.....																
TO IMPROVE ENERGY-CONSERVATION/ ENERGY-EFFICIENT/ REDUCE HEAT LOSS/ ELIMINATE COLD DRAFT/ SWITCHED TO MORE ENERGY EFFICIENT FUEL SOURCE/ SYSTEM	93 44.1	82 43.9	9 50.0	22 42.3	28 46.7	32 43.2	15 42.9	16 41.0	13 43.3	30 45.5	24 49.0	38 40.4	42 50.0	10 40.0	15 37.5	14 43.8

Continued

Table 1-3

Q.2 - SPONTANEOUS REASONS FOR REPAIRS/UPGRADES/ACTIVITIES DONE ON HOUSE UNDER THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE DET- ACHED	OTHER		30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
FOR HEALTH/SAFETY REASONS	27 12.8	24 12.8	2 11.1	6 11.5	6 10.0	11 14.9	4 11.4	5 12.8	3 10.0	11 16.7	5 10.2	11 11.7	11 13.1	4 16.0	4 10.0	3 9.4
DONE IN CONJUNCTION WITH OTHER WORK DONE	7 3.3	6 3.2	1 5.6	-	3 5.0	3 4.1	1 2.9	3 7.7	1 3.3	2 3.0	1 2.0	4 4.3	3 3.6	1 4.0	2 5.0	1 3.1
TO PROVIDE DISABLED ACCESS	6 2.8	6 3.2	-	-	4 6.7	1 1.4	1 2.9	2 5.1	-	2 3.0	2 4.1	2 2.1	2 2.4	-	2 5.0	2 6.3
TO CONFORM TO GOVERNMENT REGULATIONS/ TOWN STANDARDS	6 2.8	6 3.2	-	1 1.9	3 5.0	2 2.7	2 5.7	1 2.6	2 6.7	3 4.5	1 2.0	2 2.1	1 1.2	1 4.0	1 2.5	3 9.4
TO IMPROVE EXTERIOR APPEARANCE	5 2.4	5 2.7	-	1 1.9	-	3 4.1	1 2.9	1 2.6	-	2 3.0	2 4.1	1 1.1	1 1.2	-	2 5.0	-
TO INCREASE LIVING AREA/ EXTEND HOUSE	4 1.9	4 2.1	-	1 1.9	-	3 4.1	1 2.9	2 5.1	-	2 3.0	1 2.0	1 1.1	2 2.4	-	1 2.5	1 3.1
TO INCREASE HOUSE VALUE/ FOR HOME IMPROVEMENT	4 1.9	3 1.6	-	1 1.9	1 1.7	1 1.4	-	2 5.1	-	1 1.5	1 2.0	2 2.1	3 3.6	-	-	1 3.1
TO IMPROVE INTERIOR APPEARANCE	3 1.4	3 1.6	-	1 1.9	-	2 2.7	1 2.9	1 2.6	-	1 1.5	2 4.1	-	2 2.4	-	1 2.5	-
CMHC RECOMMENDATION	1 .5	1 .5	-	-	-	-	-	-	1 3.3	1 1.5	-	-	-	1 4.0	-	-

Table 2-1

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	WORK DONE THROUGH RRAP PROGRAM																						
	ROOF/ CHIM- RE-	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH -ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT -TION	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
	TOTAL	PAIR																					
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
Q.3A - YOU WANTED TO LOWER YOUR MAINTENANCE COSTS.....																							
(NET) AGREE	156 73.9	79 74.5	88 77.2	31 72.1	28 70.0	33 80.5	17 68.0	23 79.3	21 75.0	21 80.8	11 78.6	20 74.1	13 76.5	27 77.1	7 70.0	9 75.0	11 61.1	8 80.0	8 66.7	8 72.7	5 55.6	3 75.0	2 100.0
- (4X) AGREE STRONGLY	112 53.1	60 56.6	62 54.4	18 41.9	20 50.0	28 68.3	11 44.0	17 58.6	16 57.1	17 65.4	9 64.3	14 51.9	9 52.9	20 57.1	4 40.0	8 66.7	6 33.3	5 50.0	3 25.0	4 36.4	3 33.3	2 50.0	1 50.0
- (3X) AGREE SOMEWHAT	44 20.9	19 17.9	26 22.8	13 30.2	8 20.0	5 12.2	6 24.0	6 20.7	5 17.9	4 15.4	2 14.3	6 22.2	4 23.5	7 20.0	3 30.0	1 8.3	5 27.8	3 30.0	5 41.7	4 36.4	2 22.2	1 25.0	1 50.0
(NET) DISAGREE	34 16.1	13 12.3	16 14.0	8 18.6	5 12.5	5 12.2	5 20.0	3 10.3	4 14.3	3 11.5	3 21.4	3 11.1	4 23.5	7 20.0	2 20.0	1 8.3	4 22.2	2 20.0	2 16.7	2 18.2	1 11.1	-	-
- (2X) DISAGREE SOMEWHAT	5 2.4	2 1.9	3 2.6	1 2.3	-	1 2.4	1 4.0	-	1 3.6	1 3.8	1 7.1	2 7.4	2 11.8	1 2.9	-	-	1 5.6	-	1 8.3	-	-	-	-
- (1X) DISAGREE STRONGLY	29 13.7	11 10.4	13 11.4	7 16.3	5 12.5	4 9.8	4 16.0	3 10.3	3 10.7	2 7.7	2 14.3	1 3.7	2 11.8	6 17.1	2 20.0	1 8.3	3 16.7	2 20.0	1 8.3	2 18.2	1 11.1	-	-
DK/NS	21 10.0	14 13.2	10 8.8	4 9.3	7 17.5	3 7.3	3 12.0	3 10.3	3 10.7	2 7.7	-	4 14.8	-	1 2.9	1 10.0	2 16.7	3 16.7	-	2 16.7	1 9.1	3 33.3	1 25.0	-
MEAN	3.26	3.39	3.32	3.08	3.30	3.50	3.09	3.42	3.36	3.50	3.29	3.43	3.18	3.21	3.00	3.60	2.93	3.10	3.00	3.00	3.17	3.67	3.50
STD DEV	1.08	1.00	1.01	1.10	1.06	.97	1.12	.97	1.02	.91	1.10	.82	1.04	1.13	1.15	.92	1.12	1.14	.89	1.10	1.07	.47	.50
STD ERR	.08	.10	.10	.18	.18	.16	.24	.19	.20	.19	.29	.17	.25	.19	.38	.29	.29	.36	.28	.35	.44	.27	.35

Continued

Table 2-1

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	WORK DONE THROUGH RRAP PROGRAM																						
	ROOF/ RE- PAIR	CHIM. OWS/ DOORS	WIND- STRUC- TURES	ATTACH- ED TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH- -ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER- -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT -TION	EXTER- -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC- TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
Q.3B - YOU WERE CONCERNED ABOUT HEALTH AND SAFETY.....																							
(NET) AGREE	164 77.7	84 79.2	83 72.8	34 79.1	33 82.5	31 75.6	22 88.0	26 89.7	25 89.3	22 84.6	9 64.3	21 77.8	15 88.2	27 77.1	7 70.0	11 91.7	14 77.8	9 90.0	11 91.7	11 100.0	9 100.0	4 100.0	2 100.0
- (4X) AGREE STRONGLY	125 59.2	60 56.6	60 52.6	24 55.8	25 62.5	22 53.7	16 64.0	18 62.1	18 64.3	15 57.7	5 35.7	21 77.8	13 76.5	21 60.0	6 60.0	8 66.7	12 66.7	8 80.0	9 75.0	9 81.8	7 77.8	3 75.0	2 100.0
- (3X) AGREE SOMEWHAT	39 18.5	24 22.6	23 20.2	10 23.3	8 20.0	9 22.0	6 24.0	8 27.6	7 25.0	7 26.9	4 28.6	-	2 11.8	6 17.1	1 10.0	3 25.0	2 11.1	1 10.0	2 16.7	2 18.2	2 22.2	1 25.0	-
(NET) DISAGREE	42 19.9	19 17.9	28 24.6	8 18.6	7 17.5	9 22.0	3 12.0	3 10.3	3 10.7	3 11.5	4 28.6	6 22.2	2 11.8	6 17.1	2 20.0	-	4 22.2	1 10.0	-	-	-	-	-
- (2X) DISAGREE SOMEWHAT	10 4.7	4 3.8	9 7.9	1 2.3	3 7.5	2 4.9	1 4.0	1 3.4	1 3.6	1 3.8	2 14.3	2 7.4	-	2 5.7	-	-	2 11.1	1 10.0	-	-	-	-	-
- (1X) DISAGREE STRONGLY	32 15.2	15 14.2	19 16.7	7 16.3	4 10.0	7 17.1	2 8.0	2 6.9	2 7.1	2 7.7	2 14.3	4 14.8	2 11.8	4 11.4	2 20.0	-	2 11.1	-	-	-	-	-	-
DK/NS	5 2.4	3 2.8	3 2.6	1 2.3	-	1 2.4	-	-	-	1 3.8	1 7.1	-	-	2 5.7	1 10.0	1 8.3	-	-	1 8.3	-	-	-	-
MEAN	3.25	3.25	3.12	3.21	3.35	3.15	3.44	3.45	3.46	3.40	2.92	3.41	3.53	3.33	3.22	3.73	3.33	3.70	3.82	3.82	3.78	3.75	4.00
STD DEV	1.10	1.07	1.14	1.10	.99	1.13	.90	.85	.87	.89	1.07	1.13	.98	1.03	1.23	.45	1.05	.64	.39	.39	.42	.43	-
STD ERR	.08	.11	.11	.17	.16	.18	.18	.16	.16	.18	.30	.22	.24	.18	.41	.13	.25	.20	.12	.12	.14	.22	-

Continued

Table 2-1

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

WORK DONE THROUGH RRAP PROGRAM																							
	ROOF/ CHIM- RE- TOTAL	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH -ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT -ILA	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
Q.3C - YOU WANTED TO MAKE YOUR HOUSE MORE ENERGY-EFFICIENT.....																							
(NET) AGREE	177 83.9	91 85.8	106 93.0	38 88.4	32 80.0	40 97.6	22 88.0	27 93.1	23 82.1	25 96.2	13 92.9	24 88.9	17 100.0	30 85.7	9 90.0	11 91.7	13 72.2	5 50.0	11 91.7	9 81.8	5 55.6	4 100.0	2 100.0
- (4X) AGREE STRONGLY	142 67.3	72 67.9	85 74.6	30 69.8	26 65.0	34 82.9	18 72.0	21 72.4	23 82.1	20 76.9	12 85.7	19 70.4	14 82.4	24 68.6	8 80.0	9 75.0	9 50.0	1 10.0	8 66.7	8 72.7	3 33.3	2 50.0	2 100.0
- (3X) AGREE SOMEWHAT	35 16.6	19 17.9	21 18.4	8 18.6	6 15.0	6 14.6	4 16.0	6 20.7	- 19.2	5 7.1	1 18.5	5 17.6	3 17.1	6 17.1	1 10.0	2 16.7	4 22.2	4 40.0	3 25.0	1 9.1	2 22.2	2 50.0	-
(NET) DISAGREE	27 12.8	11 10.4	6 5.3	4 9.3	6 15.0	1 2.4	3 12.0	1 3.4	4 14.3	1 3.8	1 7.1	2 7.4	- 8.6	3 10.0	1 8.3	1 16.7	3 50.0	5 50.0	- 18.2	2 33.3	3 33.3	-	-
- (2X) DISAGREE SOMEWHAT	5 2.4	- 3.8	1 1.8	1 2.3	2 5.0	1 2.4	1 4.0	- 3.4	2 7.1	- 7.1	1 3.7	1 3.7	- 5.7	1 2.9	- 8.3	1 5.6	1 10.0	1 10.0	- 8.3	- 11.1	- 11.1	-	-
- (1X) DISAGREE STRONGLY	22 10.4	11 10.4	5 4.4	3 7.0	4 10.0	- 8.0	2 3.4	1 7.1	2 3.8	1 3.8	- 3.7	1 3.7	- 5.7	2 10.0	1 11.1	- 11.1	2 40.0	4 40.0	- 18.2	2 33.3	3 33.3	-	-
DK/NS	7 3.3	4 3.8	2 1.8	1 2.3	2 5.0	- 3.4	- 3.4	1 3.4	1 3.6	- 3.6	- 3.7	1 3.7	- 5.7	2 5.7	- 11.1	- 11.1	2 11.1	- 8.3	1 8.3	- 11.1	1 11.1	-	-
MEAN	3.46	3.49	3.66	3.55	3.42	3.80	3.52	3.68	3.63	3.69	3.79	3.62	3.82	3.58	3.60	3.67	3.25	2.20	3.73	3.36	2.63	3.50	4.00
STD DEV	.97	.95	.71	.85	.99	.45	.90	.66	.91	.67	.56	.74	.38	.82	.92	.62	1.03	1.08	.45	1.15	1.32	.50	-
STD ERR	.07	.09	.07	.13	.16	.07	.18	.12	.17	.13	.15	.14	.09	.14	.29	.18	.26	.34	.13	.35	.47	.25	-

Continued

Table 2-1

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	WORK DONE THROUGH RRAP PROGRAM																						
	ROOF/ CHIM. RE- PAIR	WIND- OWNS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH -ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT -ILA -TION	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
Q.3D - YOU WANTED TO IMPROVE THE INSIDE APPEARANCE OF YOUR HOUSE.....																							
(NET) AGREE	87 41.2	45 42.5	48 42.1	19 44.2	13 32.5	15 36.6	12 48.0	12 41.4	11 39.3	12 46.2	7 50.0	17 63.0	6 35.3	18 51.4	6 60.0	7 58.3	4 22.2	3 30.0	5 41.7	4 36.4	5 55.6	2 50.0	1 50.0
- (4X) AGREE STRONGLY	50 23.7	29 27.4	26 22.8	10 23.3	10 25.0	10 24.4	6 24.0	7 24.1	7 25.0	6 23.1	4 28.6	13 48.1	2 11.8	11 31.4	5 50.0	3 25.0	2 11.1	2 20.0	3 25.0	-	3 33.3	-	-
- (3X) AGREE SOMEWHAT	37 17.5	16 15.1	22 19.3	9 20.9	3 7.5	5 12.2	6 24.0	5 17.2	4 14.3	6 23.1	3 21.4	4 14.8	4 23.5	7 20.0	1 10.0	4 33.3	2 11.1	1 10.0	2 16.7	4 36.4	2 22.2	2 50.0	1 50.0
(NET) DISAGREE	105 49.8	50 47.2	60 52.6	21 48.8	25 62.5	24 58.5	13 52.0	17 58.6	13 46.4	12 46.2	7 50.0	8 29.6	11 64.7	13 37.1	2 20.0	4 33.3	13 72.2	7 70.0	4 33.3	7 63.6	2 22.2	2 50.0	1 50.0
- (2X) DISAGREE SOMEWHAT	21 10.0	8 7.5	13 11.4	6 14.0	7 17.5	5 12.2	4 16.0	7 24.1	4 14.3	4 15.4	1 7.1	2 7.4	3 17.6	2 5.7	2 20.0	1 8.3	4 22.2	-	1 8.3	2 18.2	1 11.1	1 25.0	1 50.0
- (1X) DISAGREE STRONGLY	84 39.8	42 39.6	47 41.2	15 34.9	18 45.0	19 46.3	9 36.0	10 34.5	9 32.1	8 30.8	6 42.9	6 22.2	8 47.1	11 31.4	-	3 25.0	9 50.0	7 70.0	3 25.0	5 45.5	1 11.1	1 25.0	-
DK/NS	19 9.0	11 10.4	6 5.3	3 7.0	2 5.0	2 4.9	-	-	4 14.3	2 7.7	-	2 7.4	-	4 11.4	2 20.0	1 8.3	1 5.6	-	3 25.0	-	2 22.2	-	-
MEAN	2.28	2.34	2.25	2.35	2.13	2.15	2.36	2.31	2.38	2.42	2.36	2.96	2.00	2.58	3.38	2.64	1.82	1.80	2.56	1.91	3.00	2.25	2.50
STD DEV	1.26	1.31	1.24	1.22	1.26	1.27	1.20	1.18	1.25	1.19	1.29	1.25	1.08	1.29	.86	1.15	1.04	1.25	1.26	.90	1.07	.83	.50
STD ERR	.09	.13	.12	.19	.20	.20	.24	.22	.26	.24	.34	.25	.26	.23	.30	.35	.25	.39	.42	.27	.40	.41	.35

Continued

Table 2-1

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	WORK DONE THROUGH RRAP PROGRAM																						
	ROOF/ CHIM- RE- PAIR	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH -ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT- -ILA -TION	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
Q.3E - YOU THOUGHT IT WOULD INCREASE THE VALUE OF YOUR HOUSE.....																							
(NET) AGREE	111 52.6	60 56.6	62 54.4	20 46.5	23 57.5	25 61.0	11 44.0	10 34.5	16 57.1	16 61.5	11 78.6	12 44.4	8 47.1	19 54.3	7 70.0	8 66.7	9 50.0	4 40.0	4 33.3	3 27.3	8 88.9	2 50.0	1 50.0
- (4X) AGREE STRONGLY	70 33.2	39 36.8	33 28.9	12 27.9	12 30.0	15 36.6	7 28.0	6 20.7	10 35.7	5 19.2	7 50.0	9 33.3	6 35.3	12 34.3	4 40.0	8 66.7	5 27.8	2 20.0	4 33.3	2 18.2	7 77.8	1 25.0	-
- (3X) AGREE SOMEWHAT	41 19.4	21 19.8	29 25.4	8 18.6	11 27.5	10 24.4	4 16.0	4 13.8	6 21.4	11 42.3	4 28.6	3 11.1	2 11.8	7 20.0	3 30.0	-	4 22.2	2 20.0	-	1 9.1	1 11.1	1 25.0	1 50.0
(NET) DISAGREE	87 41.2	37 34.9	45 39.5	20 46.5	14 35.0	14 34.1	11 44.0	17 58.6	9 32.1	8 30.8	3 21.4	12 44.4	9 52.9	14 40.0	3 30.0	3 25.0	9 50.0	5 50.0	5 41.7	7 63.6	1 11.1	2 50.0	1 50.0
- (2X) DISAGREE SOMEWHAT	18 8.5	7 6.6	8 7.0	4 9.3	3 7.5	3 7.3	2 8.0	5 17.2	2 7.1	3 11.5	-	1 3.7	2 11.8	2 5.7	2 20.0	1 8.3	3 16.7	-	1 8.3	1 9.1	-	-	-
- (1X) DISAGREE STRONGLY	69 32.7	30 28.3	37 32.5	16 37.2	11 27.5	11 26.8	9 36.0	12 41.4	7 25.0	5 19.2	3 21.4	11 40.7	7 41.2	12 34.3	1 10.0	2 16.7	6 33.3	5 50.0	4 33.3	6 54.5	1 11.1	2 50.0	1 50.0
DK/NS	13 6.2	9 8.5	7 6.1	3 7.0	3 7.5	2 4.9	3 12.0	2 6.9	3 10.7	2 7.7	-	3 11.1	-	2 5.7	-	1 8.3	-	1 10.0	3 25.0	1 9.1	-	-	-
MEAN	2.57	2.71	2.54	2.40	2.65	2.74	2.41	2.15	2.76	2.67	3.07	2.42	2.41	2.58	3.00	3.27	2.44	2.11	2.44	1.90	3.56	2.25	2.00
STD DEV	1.28	1.28	1.25	1.28	1.21	1.23	1.30	1.21	1.24	1.03	1.16	1.38	1.33	1.30	1.00	1.21	1.21	1.29	1.42	1.22	.96	1.30	1.00
STD ERR	.09	.13	.12	.20	.20	.20	.28	.23	.25	.21	.31	.28	.32	.23	.32	.37	.29	.43	.47	.39	.32	.65	.71

Continued

Table 2-1

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

WORK DONE THROUGH RRAP PROGRAM																							
	ROOF/ CHIM. RE- PAIR	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH -ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT -ILA	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
THE SIZE OF YOUR LIVING AREA.....																							
	19 9.0	11 10.4	7 6.1	4 9.3	4 10.0	8 19.5	1 4.0	2 6.9	2 7.1	5 19.2	1 7.1	4 14.8	3 17.6	6 17.1	1 10.0	2 16.7	-	-	2 16.7	2 18.2	1 11.1	-	-
	15 7.1	9 8.5	5 4.4	4 9.3	3 7.5	6 14.6	1 4.0	2 6.9	2 7.1	5 19.2	-	3 11.1	2 11.8	5 14.3	1 10.0	1 8.3	-	-	2 16.7	1 9.1	-	-	-
	4 1.9	2 1.9	2 1.8	-	1 2.5	2 4.9	-	-	-	-	1 7.1	1 3.7	1 5.9	1 2.9	-	1 8.3	-	-	-	1 9.1	1 11.1	-	-
	163 77.3	78 73.6	96 84.2	32 74.4	32 80.0	26 63.4	20 80.0	23 79.3	20 71.4	16 61.5	10 71.4	18 66.7	14 82.4	25 71.4	7 70.0	7 58.3	15 83.3	9 90.0	6 50.0	8 72.7	5 55.6	3 75.0	2 100.0
	3 1.4	2 1.9	3 2.6	1 2.3	2 5.0	-	1 4.0	-	1 3.6	-	-	1 3.7	-	-	-	1 8.3	-	-	-	-	-	1 25.0	-
	160 75.8	76 71.7	93 81.6	31 72.1	30 75.0	26 63.4	19 76.0	23 79.3	19 67.9	16 61.5	10 71.4	17 63.0	14 82.4	25 71.4	7 70.0	6 50.0	15 83.3	9 90.0	6 50.0	8 72.7	5 55.6	2 50.0	2 100.0
	29 13.7	17 16.0	11 9.6	7 16.3	4 10.0	7 17.1	4 16.0	4 13.8	6 21.4	5 19.2	3 21.4	5 18.5	-	4 11.4	2 20.0	3 25.0	3 16.7	1 10.0	4 33.3	1 9.1	3 33.3	1 25.0	-
	1.31	1.37	1.21	1.36	1.36	1.65	1.19	1.24	1.32	1.71	1.18	1.55	1.47	1.55	1.38	1.67	1.00	1.00	1.75	1.50	1.33	1.33	1.00
	.87	.94	.71	.95	.89	1.19	.66	.81	.87	1.28	.57	1.08	1.04	1.13	.99	1.05	-	-	1.30	1.02	.75	.47	-
	.06	.10	.07	.16	.15	.20	.14	.16	.19	.28	.17	.23	.25	.20	.35	.35	-	-	.46	.32	.30	.27	-

Continued

Table 2-1

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	WORK DONE THROUGH RRAP PROGRAM																						
	ROOF/ CHIM- RE- TOTAL	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH -ER STRIP -PING	BATH ROOM	FOUN- DA- TION	INTER -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT- TION	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
Q.3G - YOU WANTED TO PROVIDE ACCESS FOR A DISABLED PERSON LIVING THERE.....																							
(NET) AGREE	34 16.1	16 15.1	15 13.2	7 16.3	3 7.5	3 7.3	3 12.0	7 24.1	6 21.4	2 7.7	1 7.1	9 33.3	5 29.4	6 17.1	4 40.0	3 25.0	4 22.2	2 20.0	3 25.0	2 18.2	1 11.1	-	1 50.0
- (4X) AGREE STRONGLY	21 10.0	10 9.4	9 7.9	4 9.3	1 2.5	1 2.4	2 8.0	4 13.8	3 10.7	1 3.8	-	6 22.2	3 17.6	4 11.4	4 40.0	2 16.7	2 11.1	-	2 16.7	2 18.2	-	-	1 50.0
- (3X) AGREE SOMEWHAT	13 6.2	6 5.7	6 5.3	3 7.0	2 5.0	2 4.9	1 4.0	3 10.3	3 10.7	1 3.8	1 7.1	3 11.1	2 11.8	2 5.7	-	1 8.3	2 11.1	2 20.0	1 8.3	-	1 11.1	-	-
(NET) DISAGREE	152 72.0	75 70.8	90 78.9	30 69.8	33 82.5	31 75.6	19 76.0	18 62.1	17 60.7	19 73.1	10 71.4	14 51.9	12 70.6	25 71.4	4 40.0	6 50.0	11 61.1	8 80.0	5 41.7	8 72.7	6 66.7	3 75.0	1 50.0
- (2X) DISAGREE SOMEWHAT	6 2.8	5 4.7	4 3.5	1 2.3	1 2.5	3 7.3	-	-	1 3.6	-	-	-	-	1 2.9	-	-	-	-	-	-	-	1 25.0	-
- (1X) DISAGREE STRONGLY	146 69.2	70 66.0	86 75.4	29 67.4	32 80.0	28 68.3	19 76.0	18 62.1	16 57.1	19 73.1	10 71.4	14 51.9	12 70.6	24 68.6	4 40.0	6 50.0	11 61.1	8 80.0	5 41.7	8 72.7	6 66.7	2 50.0	1 50.0
DK/NS	25 11.8	15 14.2	9 7.9	6 14.0	4 10.0	7 17.1	3 12.0	4 13.8	5 17.9	5 19.2	3 21.4	4 14.8	-	4 11.4	2 20.0	3 25.0	3 16.7	-	4 33.3	1 9.1	2 22.2	1 25.0	-
MEAN	1.51	1.52	1.41	1.51	1.22	1.29	1.36	1.72	1.70	1.24	1.18	2.04	1.76	1.55	2.50	1.89	1.67	1.40	2.00	1.60	1.29	1.33	2.50
STD DEV	1.03	1.02	.93	1.03	.67	.71	.93	1.18	1.12	.75	.57	1.33	1.21	1.07	1.50	1.29	1.14	.80	1.32	1.20	.70	.47	1.50
STD ERR	.08	.11	.09	.17	.11	.12	.20	.24	.23	.16	.17	.28	.29	.19	.53	.43	.29	.25	.47	.38	.26	.27	1.06

Continued

Table 2-1

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

WORK DONE THROUGH RRAP PROGRAM																							
	ROOF/ CHIM- RE- TOTAL	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH -ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT- TION	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
Q.3H - THERE WERE CERTAIN IMPROVEMENTS NEEDED TO MEET BUILDING CODE STANDARDS AND REGULATIONS.....																							
(NET) AGREE	108 51.2	59 55.7	58 50.9	25 58.1	28 70.0	25 61.0	15 60.0	16 55.2	15 53.6	16 61.5	9 64.3	16 59.3	8 47.1	17 48.6	9 90.0	9 75.0	11 61.1	6 60.0	5 41.7	6 54.5	5 55.6	2 50.0	2 100.0
- (4X) AGREE STRONGLY	85 40.3	45 42.5	47 41.2	18 41.9	22 55.0	20 48.8	11 44.0	13 44.8	13 46.4	16 61.5	7 50.0	15 55.6	5 29.4	14 40.0	8 80.0	9 75.0	7 38.9	4 40.0	4 33.3	5 45.5	3 33.3	1 25.0	2 100.0
- (3X) AGREE SOMEWHAT	23 10.9	14 13.2	11 9.6	7 16.3	6 15.0	5 12.2	4 16.0	3 10.3	2 7.1	-	2 14.3	1 3.7	3 17.6	3 8.6	1 10.0	-	4 22.2	2 20.0	1 8.3	1 9.1	2 22.2	1 25.0	-
(NET) DISAGREE	85 40.3	37 34.9	50 43.9	16 37.2	9 22.5	12 29.3	9 36.0	12 41.4	10 35.7	6 23.1	4 28.6	9 33.3	9 52.9	11 31.4	-	1 8.3	5 27.8	4 40.0	5 41.7	4 36.4	2 22.2	2 50.0	-
- (2X) DISAGREE SOMEWHAT	17 8.1	8 7.5	11 9.6	5 11.6	3 7.5	1 2.4	1 4.0	2 6.9	4 14.3	3 11.5	-	1 3.7	5 29.4	5 14.3	-	1 8.3	2 11.1	-	2 16.7	1 9.1	1 11.1	-	-
- (1X) DISAGREE STRONGLY	68 32.2	29 27.4	39 34.2	11 25.6	6 15.0	11 26.8	8 32.0	10 34.5	6 21.4	3 11.5	4 28.6	8 29.6	4 23.5	6 17.1	-	-	3 16.7	4 40.0	3 25.0	3 27.3	1 11.1	2 50.0	-
DK/NS	18 8.5	10 9.4	6 5.3	2 4.7	3 7.5	4 9.8	1 4.0	1 3.4	3 10.7	4 15.4	1 7.1	2 7.4	-	7 20.0	1 10.0	2 16.7	2 11.1	-	2 16.7	1 9.1	2 22.2	-	-
MEAN	2.65	2.78	2.61	2.78	3.19	2.92	2.75	2.68	2.88	3.32	2.92	2.92	2.53	2.89	3.89	3.80	2.94	2.60	2.60	2.80	3.00	2.25	4.00
STD DEV	1.35	1.31	1.35	1.26	1.14	1.32	1.33	1.36	1.27	1.14	1.33	1.38	1.14	1.23	.31	.60	1.14	1.36	1.28	1.33	1.07	1.30	-
STD ERR	.10	.13	.13	.20	.19	.22	.27	.26	.25	.24	.37	.28	.28	.23	.10	.19	.29	.43	.40	.42	.40	.65	-

Table 2-2

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	GENDER		RESPONDENT'S AGE				HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN				
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UNEMP ./ H.W. /	STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20	
Q.3A - YOU WANTED TO LOWER YOUR MAINTENANCE COSTS.....																				
(NET) AGREE	156 73.9	64 76.2	92 72.4	41 78.8	48 81.4	66 67.3	40 69.0	62 77.5	52 75.4	32 82.1	56 76.7	31 81.6	45 77.6	89 73.6	17 81.0	41 78.8	19 82.6	17 77.3	18 90.0	
- (4X) AGREE STRONGLY	112 53.1	45 53.6	67 52.8	35 67.3	34 57.6	42 42.9	27 46.6	46 57.5	37 53.6	20 51.3	42 57.5	25 65.8	35 60.3	60 49.6	13 61.9	32 61.5	16 69.6	13 59.1	12 60.0	
- (3X) AGREE SOMEWHAT	44 20.9	19 22.6	25 19.7	6 11.5	14 23.7	24 24.5	13 22.4	16 20.0	15 21.7	12 30.8	14 19.2	6 15.8	10 17.2	29 24.0	4 19.0	9 17.3	3 13.0	4 18.2	6 30.0	
(NET) DISAGREE	34 16.1	14 16.7	20 15.7	7 13.5	8 13.6	18 18.4	9 15.5	11 13.8	12 17.4	5 12.8	10 13.7	3 7.9	8 13.8	19 15.7	2 9.5	9 17.3	3 13.0	3 13.6	2 10.0	
- (2X) DISAGREE SOMEWHAT	5 2.4	1 1.2	4 3.1	1 1.9	2 3.4	2 2.0	1 1.7	2 2.5	2 2.9	1 2.6	1 1.4	-	3 5.2	1 .8	-	1 1.9	-	1 4.5	-	
- (1X) DISAGREE STRONGLY	29 13.7	13 15.5	16 12.6	6 11.5	6 10.2	16 16.3	8 13.8	9 11.3	10 14.5	4 10.3	9 12.3	3 7.9	5 8.6	18 14.9	2 9.5	8 15.4	3 13.0	2 9.1	2 10.0	
DK/NS	21 10.0	6 7.1	15 11.8	4 7.7	3 5.1	14 14.3	9 15.5	7 8.8	5 7.2	2 5.1	7 9.6	4 10.5	5 8.6	13 10.7	2 9.5	2 3.8	1 4.3	2 9.1	-	
MEAN	3.26	3.23	3.28	3.46	3.36	3.10	3.20	3.36	3.23	3.30	3.35	3.56	3.42	3.21	3.47	3.30	3.45	3.40	3.40	
STD DEV	1.08	1.10	1.06	1.02	.97	1.13	1.09	1.01	1.09	.95	1.04	.88	.96	1.09	.94	1.10	1.03	.97	.92	
STD ERR	.08	.12	.10	.15	.13	.12	.16	.12	.14	.16	.13	.15	.13	.10	.22	.16	.22	.22	.20	

Continued

Table 2-2

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	GENDER		RESPONDENT'S AGE				HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UNEMP / H.W. / STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
Q.3B - YOU WERE CONCERNED ABOUT HEALTH AND SAFETY.....																			
(NET) AGREE	164 77.7	67 79.8	97 76.4	40 76.9	50 84.7	73 74.5	44 75.9	61 76.3	56 81.2	28 71.8	62 84.9	29 76.3	48 82.8	94 77.7	17 81.0	41 78.8	20 87.0	19 86.4	15 75.0
- (4X) AGREE STRONGLY	125 59.2	49 58.3	76 59.8	26 50.0	41 69.5	57 58.2	34 58.6	47 58.8	41 59.4	23 59.0	45 61.6	20 52.6	35 60.3	74 61.2	12 57.1	29 55.8	13 56.5	13 59.1	10 50.0
- (3X) AGREE SOMEWHAT	39 18.5	18 21.4	21 16.5	14 26.9	9 15.3	16 16.3	10 17.2	14 17.5	15 21.7	5 12.8	17 23.3	9 23.7	13 22.4	20 16.5	5 23.8	12 23.1	7 30.4	6 27.3	5 25.0
(NET) DISAGREE	42 19.9	14 16.7	28 22.0	11 21.2	9 15.3	21 21.4	14 24.1	17 21.3	10 14.5	11 28.2	9 12.3	7 18.4	9 15.5	23 19.0	4 19.0	10 19.2	2 8.7	2 9.1	5 25.0
- (2X) DISAGREE SOMEWHAT	10 4.7	2 2.4	8 6.3	3 5.8	3 5.1	4 4.1	4 6.9	4 5.0	2 2.9	4 10.3	3 4.1	2 5.3	3 5.2	6 5.0	1 4.8	4 7.7	1 4.3	-	3 15.0
- (1X) DISAGREE STRONGLY	32 15.2	12 14.3	20 15.7	8 15.4	6 10.2	17 17.3	10 17.2	13 16.3	8 11.6	7 17.9	6 8.2	5 13.2	6 10.3	17 14.0	3 14.3	6 11.5	1 4.3	2 9.1	2 10.0
DK/NS	5 2.4	3 3.6	2 1.6	1 1.9	-	4 4.1	-	2 2.5	3 4.3	-	2 2.7	2 5.3	1 1.7	4 3.3	-	1 1.9	1 4.3	1 4.5	-
MEAN	3.25	3.28	3.22	3.14	3.44	3.20	3.17	3.22	3.35	3.13	3.42	3.22	3.35	3.29	3.24	3.25	3.45	3.43	3.15
STD DEV	1.10	1.07	1.12	1.09	.98	1.15	1.15	1.13	1.01	1.18	.91	1.06	.98	1.09	1.06	1.03	.78	.90	1.01
STD ERR	.08	.12	.10	.15	.13	.12	.15	.13	.12	.19	.11	.18	.13	.10	.23	.14	.17	.20	.23

Continued

Table 2-2

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	GENDER		RESPONDENT'S AGE				HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UNEMP / H.W. / STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
Q.3C - YOU WANTED TO MAKE YOUR HOUSE MORE ENERGY-EFFICIENT.....																			
(NET) AGREE	177 83.9	70 83.3	107 84.3	46 88.5	49 83.1	81 82.7	46 79.3	69 86.3	59 85.5	32 82.1	64 87.7	33 86.8	49 84.5	103 85.1	19 90.5	45 86.5	21 91.3	18 81.8	17 85.0
- (4X) AGREE STRONGLY	142 67.3	54 64.3	88 69.3	39 75.0	39 66.1	64 65.3	35 60.3	56 70.0	49 71.0	23 59.0	56 76.7	30 78.9	43 74.1	80 66.1	15 71.4	38 73.1	19 82.6	15 68.2	15 75.0
- (3X) AGREE SOMEWHAT	35 16.6	16 19.0	19 15.0	7 13.5	10 16.9	17 17.3	11 19.0	13 16.3	10 14.5	9 23.1	8 11.0	3 7.9	6 10.3	23 19.0	4 19.0	7 13.5	2 8.7	3 13.6	2 10.0
(NET) DISAGREE	27 12.8	12 14.3	15 11.8	5 9.6	9 15.3	12 12.2	8 13.8	9 11.3	9 13.0	7 17.9	5 6.8	4 10.5	7 12.1	14 11.6	1 4.8	7 13.5	2 8.7	4 18.2	3 15.0
- (2X) DISAGREE SOMEWHAT	5 2.4	1 1.2	4 3.1	1 1.9	3 5.1	1 1.0	2 3.4	1 1.3	2 2.9	2 5.1	1 1.4	2 5.3	2 3.4	2 1.7	- 1.9	1 1.9	- 4.5	1 5.0	1 5.0
- (1X) DISAGREE STRONGLY	22 10.4	11 13.1	11 8.7	4 7.7	6 10.2	11 11.2	6 10.3	8 10.0	7 10.1	5 12.8	4 5.5	2 5.3	5 8.6	12 9.9	1 4.8	6 11.5	2 8.7	3 13.6	2 10.0
DK/NS	7 3.3	2 2.4	5 3.9	1 1.9	1 1.7	5 5.1	4 6.9	2 2.5	1 1.4	- 5.5	4 2.6	1 3.4	2 3.3	4 3.3	1 4.8	- 4.8	- 4.8	- 4.8	- 4.8
MEAN	3.46	3.38	3.51	3.59	3.41	3.44	3.39	3.50	3.49	3.28	3.68	3.65	3.55	3.46	3.65	3.48	3.65	3.36	3.50
STD DEV	.97	1.03	.93	.87	.98	.99	.99	.94	.96	1.04	.77	.81	.92	.95	.73	.99	.87	1.07	.97
STD ERR	.07	.11	.08	.12	.13	.10	.13	.11	.12	.17	.09	.13	.12	.09	.16	.14	.18	.23	.22

Table 2-2

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	GENDER		RESPONDENT'S AGE				HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN				
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UNEMP ./ H.W. /	STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20	
Q.3D - YOU WANTED TO IMPROVE THE INSIDE APPEARANCE OF YOUR HOUSE.....																				
(NET) AGREE	87 41.2	36 42.9	51 40.2	21 40.4	25 42.4	39 39.8	26 44.8	30 37.5	28 40.6	18 46.2	32 43.8	18 47.4	25 43.1	52 43.0	6 28.6	19 36.5	7 30.4	8 36.4	9 45.0	
- (4X) AGREE STRONGLY	50 23.7	20 23.8	30 23.6	10 19.2	16 27.1	23 23.5	16 27.6	19 23.8	14 20.3	12 30.8	19 26.0	9 23.7	12 20.7	33 27.3	3 14.3	7 13.5	3 13.0	2 9.1	4 20.0	
- (3X) AGREE SOMEWHAT	37 17.5	16 19.0	21 16.5	11 21.2	9 15.3	16 16.3	10 17.2	11 13.8	14 20.3	6 15.4	13 17.8	9 23.7	13 22.4	19 15.7	3 14.3	12 23.1	4 17.4	6 27.3	5 25.0	
(NET) DISAGREE	105 49.8	39 46.4	66 52.0	29 55.8	29 49.2	47 48.0	26 44.8	41 51.3	37 53.6	20 51.3	31 42.5	16 42.1	29 50.0	55 45.5	14 66.7	32 61.5	15 65.2	13 59.1	11 55.0	
- (2X) DISAGREE SOMEWHAT	21 10.0	9 10.7	12 9.4	4 7.7	7 11.9	10 10.2	3 5.2	8 10.0	10 14.5	2 5.1	8 11.0	3 7.9	2 3.4	12 9.9	7 33.3	9 17.3	3 13.0	5 22.7	5 25.0	
- (1X) DISAGREE STRONGLY	84 39.8	30 35.7	54 42.5	25 48.1	22 37.3	37 37.8	23 39.7	33 41.3	27 39.1	18 46.2	23 31.5	13 34.2	27 46.6	43 35.5	7 33.3	23 44.2	12 52.2	8 36.4	6 30.0	
DK/NS	19 9.0	9 10.7	10 7.9	2 3.8	5 8.5	12 12.2	6 10.3	9 11.3	4 5.8	1 2.6	10 13.7	4 10.5	4 6.9	14 11.6	1 4.8	1 1.9	1 4.3	1 4.5	-	
MEAN	2.28	2.35	2.23	2.12	2.35	2.29	2.37	2.23	2.23	2.32	2.44	2.41	2.19	2.39	2.10	2.06	1.91	2.10	2.35	
STD DEV	1.26	1.25	1.27	1.23	1.28	1.27	1.32	1.28	1.20	1.34	1.26	1.24	1.26	1.29	1.04	1.11	1.12	1.02	1.11	
STD ERR	.09	.14	.12	.17	.17	.14	.18	.15	.15	.22	.16	.21	.17	.12	.23	.16	.24	.22	.25	

Continued

Table 2-2

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	GENDER		RESPONDENT'S AGE				HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN				
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UNEMP ./ H.W. /	STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20	
Q.3E - YOU THOUGHT IT WOULD INCREASE THE VALUE OF YOUR HOUSE.....																				
(NET) AGREE	111 52.6	49 58.3	62 48.8	22 42.3	30 50.8	58 59.2	35 60.3	45 56.3	30 43.5	22 56.4	45 61.6	18 47.4	30 51.7	71 58.7	7 33.3	21 40.4	14 60.9	9 40.9	3 15.0	
- (4X) AGREE STRONGLY	70 33.2	34 40.5	36 28.3	14 26.9	20 33.9	35 35.7	20 34.5	32 40.0	18 26.1	12 30.8	32 43.8	13 34.2	21 36.2	44 36.4	3 14.3	13 25.0	11 47.8	6 27.3	1 5.0	
- (3X) AGREE SOMEWHAT	41 19.4	15 17.9	26 20.5	8 15.4	10 16.9	23 23.5	15 25.9	13 16.3	12 17.4	10 25.6	13 17.8	5 13.2	9 15.5	27 22.3	4 19.0	8 15.4	3 13.0	3 13.6	2 10.0	
(NET) DISAGREE	87 41.2	31 36.9	56 44.1	29 55.8	26 44.1	31 31.6	17 29.3	31 38.8	36 52.2	16 41.0	25 34.2	16 42.1	26 44.8	39 32.2	14 66.7	31 59.6	9 39.1	13 59.1	17 85.0	
- (2X) DISAGREE SOMEWHAT	18 8.5	6 7.1	12 9.4	5 9.6	4 6.8	9 9.2	5 8.6	7 8.8	6 8.7	6 15.4	7 9.6	2 5.3	4 6.9	11 9.1	3 14.3	5 9.6	3 13.0	1 4.5	2 10.0	
- (1X) DISAGREE STRONGLY	69 32.7	25 29.8	44 34.6	24 46.2	22 37.3	22 22.4	12 20.7	24 30.0	30 43.5	10 25.6	18 24.7	14 36.8	22 37.9	28 23.1	11 52.4	26 50.0	6 26.1	12 54.5	15 75.0	
DK/NS	13 6.2	4 4.8	9 7.1	1 1.9	3 5.1	9 9.2	6 10.3	4 5.0	3 4.3	1 2.6	3 4.1	4 10.5	2 3.4	11 9.1	-	-	-	-	-	
MEAN	2.57	2.73	2.46	2.24	2.50	2.80	2.83	2.70	2.27	2.63	2.84	2.50	2.52	2.79	1.95	2.15	2.83	2.14	1.45	
STD DEV	1.28	1.29	1.27	1.29	1.32	1.20	1.17	1.30	1.29	1.18	1.25	1.36	1.34	1.21	1.13	1.28	1.27	1.32	.86	
STD ERR	.09	.14	.12	.18	.18	.13	.16	.15	.16	.19	.15	.23	.18	.12	.25	.18	.27	.28	.19	

Continued

Table 2-2

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	GENDER		RESPONDENT'S AGE				HOUSEHOLD SIZE		HOUSEHOLD INCOME				RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UNEMP / H.W. / STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
Q.3F - YOU WANTED TO INCREASE THE SIZE OF YOUR LIVING AREA.....																			
(NET) AGREE	19 9.0	15 17.9	4 3.1	6 11.5	7 11.9	6 6.1	3 5.2	10 12.5	6 8.7	1 2.6	9 12.3	5 13.2	8 13.8	10 8.3	1 4.8	6 11.5	4 17.4	2 9.1	2 10.0
- (4X) AGREE STRONGLY	15 7.1	11 13.1	4 3.1	5 9.6	5 8.5	5 5.1	3 5.2	8 10.0	4 5.8	1 2.6	7 9.6	4 10.5	6 10.3	9 7.4	-	4 7.7	3 13.0	1 4.5	1 5.0
- (3X) AGREE SOMEWHAT	4 1.9	4 4.8	-	1 1.9	2 3.4	1 1.0	-	2 2.5	2 2.9	-	2 2.7	1 2.6	2 3.4	1 .8	1 4.8	2 3.8	1 4.3	1 4.5	1 5.0
(NET) DISAGREE	163 77.3	60 71.4	103 81.1	42 80.8	43 72.9	76 77.6	46 79.3	60 75.0	53 76.8	35 89.7	51 69.9	27 71.1	45 77.6	92 76.0	15 71.4	42 80.8	17 73.9	16 72.7	17 85.0
- (2X) DISAGREE SOMEWHAT	3 1.4	3 3.6	-	1 1.9	2 3.4	-	1 1.7	1 1.3	1 1.4	-	2 2.7	-	2 3.4	1 .8	-	-	-	-	-
- (1X) DISAGREE STRONGLY	160 75.8	57 67.9	103 81.1	41 78.8	41 69.5	76 77.6	45 77.6	59 73.8	52 75.4	35 89.7	49 67.1	27 71.1	43 74.1	91 75.2	15 71.4	42 80.8	17 73.9	16 72.7	17 85.0
DK/NS	29 13.7	9 10.7	20 15.7	4 7.7	9 15.3	16 16.3	9 15.5	10 12.5	10 14.5	3 7.7	13 17.8	6 15.8	5 8.6	19 15.7	5 23.8	4 7.7	2 8.7	4 18.2	1 5.0
MEAN	1.31	1.59	1.11	1.38	1.42	1.21	1.20	1.41	1.29	1.08	1.45	1.44	1.45	1.29	1.13	1.33	1.52	1.28	1.26
STD DEV	.87	1.11	.57	.95	.96	.74	.73	.99	.82	.49	1.01	1.03	1.00	.87	.48	.90	1.10	.80	.78
STD ERR	.06	.13	.06	.14	.14	.08	.10	.12	.11	.08	.13	.18	.14	.09	.12	.13	.24	.19	.18

Continued

Table 2-2

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	GENDER		RESPONDENT'S AGE				HOUSEHOLD SIZE		HOUSEHOLD INCOME			RESP'S OCCUPATION				PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UNEMP / H.W. / STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
Q.3G - YOU WANTED TO PROVIDE ACCESS FOR A DISABLED PERSON LIVING THERE.....																			
(NET) AGREE	34 16.1	15 17.9	19 15.0	3 5.8	12 20.3	19 19.4	10 17.2	18 22.5	5 7.2	9 23.1	15 20.5	6 15.8	5 8.6	24 19.8	3 14.3	3 5.8	-	1 4.5	3 15.0
- (4X) AGREE STRONGLY	21 10.0	9 10.7	12 9.4	-	10 16.9	11 11.2	6 10.3	11 13.8	3 4.3	6 15.4	8 11.0	3 7.9	2 3.4	16 13.2	1 4.8	2 3.8	-	1 4.5	2 10.0
- (3X) AGREE SOMEWHAT	13 6.2	6 7.1	7 5.5	3 5.8	2 3.4	8 8.2	4 6.9	7 8.8	2 2.9	3 7.7	7 9.6	3 7.9	3 5.2	8 6.6	2 9.5	1 1.9	-	-	1 5.0
(NET) DISAGREE	152 72.0	61 72.6	91 71.7	45 86.5	38 64.4	67 68.4	40 69.0	54 67.5	55 79.7	28 71.8	46 63.0	27 71.1	49 84.5	81 66.9	13 61.9	45 86.5	21 91.3	17 77.3	16 80.0
- (2X) DISAGREE SOMEWHAT	6 2.8	6 7.1	-	2 3.8	2 3.4	2 2.0	2 3.4	2 2.5	2 2.9	-	4 5.5	1 2.6	3 5.2	3 2.5	-	1 1.9	1 4.3	1 4.5	-
- (1X) DISAGREE STRONGLY	146 69.2	55 65.5	91 71.7	43 82.7	36 61.0	65 66.3	38 65.5	52 65.0	53 76.8	28 71.8	42 57.5	26 68.4	46 79.3	78 64.5	13 61.9	44 84.6	20 87.0	16 72.7	16 80.0
DK/NS	25 11.8	8 9.5	17 13.4	4 7.7	9 15.3	12 12.2	8 13.8	8 10.0	9 13.0	2 5.1	12 16.4	5 13.2	4 6.9	16 13.2	5 23.8	4 7.7	2 8.7	4 18.2	1 5.0
MEAN	1.51	1.59	1.45	1.17	1.72	1.59	1.56	1.68	1.25	1.65	1.69	1.48	1.28	1.64	1.44	1.19	1.05	1.22	1.42
STD DEV	1.03	1.05	1.01	.51	1.22	1.09	1.06	1.15	.74	1.17	1.11	.99	.73	1.14	.93	.67	.21	.71	.99
STD ERR	.08	.12	.10	.07	.17	.12	.15	.14	.10	.19	.14	.17	.10	.11	.23	.10	.05	.17	.23

Continued

Table 2-2

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	GENDER		RESPONDENT'S AGE				HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UNEMP / H.W. / STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
Q.3H - THERE WERE CERTAIN IMPROVEMENTS NEEDED TO MEET BUILDING CODE STANDARDS AND REGULATIONS.....																			
(NET) AGREE	108 51.2	43 51.2	65 51.2	31 59.6	33 55.9	44 44.9	32 55.2	33 41.3	42 60.9	25 64.1	43 58.9	22 57.9	34 58.6	56 46.3	14 66.7	33 63.5	17 73.9	16 72.7	12 60.0
- (4X) AGREE STRONGLY	85 40.3	34 40.5	51 40.2	24 46.2	26 44.1	35 35.7	24 41.4	29 36.3	31 44.9	18 46.2	39 53.4	14 36.8	24 41.4	45 37.2	14 66.7	25 48.1	12 52.2	10 45.5	9 45.0
- (3X) AGREE SOMEWHAT	23 10.9	9 10.7	14 11.0	7 13.5	7 11.9	9 9.2	8 13.8	4 5.0	11 15.9	7 17.9	4 5.5	8 21.1	10 17.2	11 9.1	-	8 15.4	5 21.7	6 27.3	3 15.0
(NET) DISAGREE	85 40.3	34 40.5	51 40.2	18 34.6	22 37.3	43 43.9	20 34.5	37 46.3	25 36.2	13 33.3	23 31.5	13 34.2	20 34.5	53 43.8	6 28.6	18 34.6	6 26.1	6 27.3	7 35.0
- (2X) DISAGREE SOMEWHAT	17 8.1	6 7.1	11 8.7	3 5.8	3 5.1	11 11.2	5 8.6	8 10.0	4 5.8	4 10.3	6 8.2	4 10.5	3 5.2	13 10.7	1 4.8	3 5.8	1 4.3	1 4.5	1 5.0
- (1X) DISAGREE STRONGLY	68 32.2	28 33.3	40 31.5	15 28.8	19 32.2	32 32.7	15 25.9	29 36.3	21 30.4	9 23.1	17 23.3	9 23.7	17 29.3	40 33.1	5 23.8	15 28.8	5 21.7	5 22.7	6 30.0
DK/NS	18 8.5	7 8.3	11 8.7	3 5.8	4 6.8	11 11.2	6 10.3	10 12.5	2 2.9	1 2.6	7 9.6	3 7.9	4 6.9	12 9.9	1 4.8	1 1.9	-	-	1 5.0
MEAN	2.65	2.64	2.66	2.82	2.73	2.54	2.79	2.47	2.78	2.89	2.98	2.77	2.76	2.56	3.15	2.84	3.04	2.95	2.79
STD DEV	1.35	1.36	1.34	1.32	1.35	1.34	1.29	1.38	1.31	1.23	1.31	1.22	1.30	1.34	1.31	1.30	1.20	1.19	1.32
STD ERR	.10	.15	.12	.19	.18	.14	.18	.17	.16	.20	.16	.21	.18	.13	.29	.18	.25	.25	.30

Table 2-3

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE			30 YRS		OVER										
	DET-			OR	31-50	50	<1,000	1,000-	OVER					ELECT-		
	ACHED	OTHER		LESS	YEARS	YEARS	SQ.FT.	1,500	1,500	RURAL	TOWN	CITY	GAS	RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
Q.3A - YOU WANTED TO LOWER YOUR MAINTENANCE COSTS.....																
(NET) AGREE	156	139	14	35	45	60	26	29	26	51	37	66	64	19	33	21
	73.9	74.3	77.8	67.3	75.0	81.1	74.3	74.4	86.7	77.3	75.5	70.2	76.2	76.0	82.5	65.6
- (4X) AGREE STRONGLY	112	99	11	28	24	48	16	23	19	34	30	47	53	14	18	13
	53.1	52.9	61.1	53.8	40.0	64.9	45.7	59.0	63.3	51.5	61.2	50.0	63.1	56.0	45.0	40.6
- (3X) AGREE SOMEWHAT	44	40	3	7	21	12	10	6	7	17	7	19	11	5	15	8
	20.9	21.4	16.7	13.5	35.0	16.2	28.6	15.4	23.3	25.8	14.3	20.2	13.1	20.0	37.5	25.0
(NET) DISAGREE	34	29	3	13	8	9	5	7	2	10	8	16	12	4	4	7
	16.1	15.5	16.7	25.0	13.3	12.2	14.3	17.9	6.7	15.2	16.3	17.0	14.3	16.0	10.0	21.9
- (2X) DISAGREE SOMEWHAT	5	4	1	3	1	1	1	-	1	2	1	2	2	1	-	1
	2.4	2.1	5.6	5.8	1.7	1.4	2.9		3.3	3.0	2.0	2.1	2.4	4.0		3.1
- (1X) DISAGREE STRONGLY	29	25	2	10	7	8	4	7	1	8	7	14	10	3	4	6
	13.7	13.4	11.1	19.2	11.7	10.8	11.4	17.9	3.3	12.1	14.3	14.9	11.9	12.0	10.0	18.8
DK/NS	21	19	1	4	7	5	4	3	2	5	4	12	8	2	3	4
	10.0	10.2	5.6	7.7	11.7	6.8	11.4	7.7	6.7	7.6	8.2	12.8	9.5	8.0	7.5	12.5
MEAN	3.26	3.27	3.35	3.10	3.17	3.45	3.23	3.25	3.57	3.26	3.33	3.21	3.41	3.30	3.27	3.00
STD DEV	1.08	1.07	1.03	1.21	.99	.99	1.01	1.16	.73	1.02	1.10	1.11	1.04	1.04	.92	1.16
STD ERR	.08	.08	.25	.17	.14	.12	.18	.19	.14	.13	.16	.12	.12	.22	.15	.22

Continued

Table 2-3

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE			30 YRS	OVER		<1,000	1,000-	OVER					ELECT-		
TOTAL	DET- ACHED	OTHER		OR LESS	31-50 YEARS	50 YEARS	SQ.FT.	1,500	1,500	RURAL	TOWN	CITY	GAS	RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
Q.3B - YOU WERE CONCERNED ABOUT HEALTH AND SAFETY.....																
(NET) AGREE	164 77.7	146 78.1	15 83.3	38 73.1	47 78.3	62 83.8	29 82.9	34 87.2	21 70.0	56 84.8	38 77.6	69 73.4	65 77.4	21 84.0	33 82.5	28 87.5
- (4X) AGREE STRONGLY	125 59.2	113 60.4	10 55.6	26 50.0	35 58.3	50 67.6	24 68.6	29 74.4	11 36.7	44 66.7	29 59.2	51 54.3	47 56.0	18 72.0	28 70.0	21 65.6
- (3X) AGREE SOMEWHAT	39 18.5	33 17.6	5 27.8	12 23.1	12 20.0	12 16.2	5 14.3	5 12.8	10 33.3	12 18.2	9 18.4	18 19.1	18 21.4	3 12.0	5 12.5	7 21.9
(NET) DISAGREE	42 19.9	36 19.3	3 16.7	12 23.1	12 20.0	11 14.9	5 14.3	3 7.7	7 23.3	9 13.6	11 22.4	21 22.3	17 20.2	4 16.0	7 17.5	3 9.4
- (2X) DISAGREE SOMEWHAT	10 4.7	8 4.3	1 5.6	2 3.8	2 3.3	5 6.8	1 2.9	1 2.6	3 10.0	3 4.5	4 8.2	3 3.2	4 4.8	-	3 7.5	2 6.3
- (1X) DISAGREE STRONGLY	32 15.2	28 15.0	2 11.1	10 19.2	10 16.7	6 8.1	4 11.4	2 5.1	4 13.3	6 9.1	7 14.3	18 19.1	13 15.5	4 16.0	4 10.0	1 3.1
DK/NS	5 2.4	5 2.7	-	2 3.8	1 1.7	1 1.4	1 2.9	2 5.1	2 6.7	1 1.5	-	4 4.3	2 2.4	-	-	1 3.1
MEAN	3.25	3.27	3.28	3.08	3.22	3.45	3.44	3.65	3.00	3.45	3.22	3.13	3.21	3.40	3.43	3.55
STD DEV	1.10	1.10	.99	1.16	1.12	.94	1.01	.78	1.04	.95	1.09	1.18	1.10	1.10	1.00	.76
STD ERR	.08	.08	.23	.16	.15	.11	.17	.13	.20	.12	.16	.12	.12	.22	.16	.14

Continued

Table 2-3

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE DET- ACHED	OTHER		30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
Q.3C - YOU WANTED TO MAKE YOUR HOUSE MORE ENERGY-EFFICIENT.....																
(NET) AGREE	177 83.9	156 83.4	17 94.4	42 80.8	51 85.0	65 87.8	29 82.9	31 79.5	28 93.3	56 84.8	40 81.6	80 85.1	74 88.1	22 88.0	29 72.5	26 81.3
- (4X) AGREE STRONGLY	142 67.3	125 66.8	14 77.8	37 71.2	36 60.0	57 77.0	20 57.1	26 66.7	23 76.7	42 63.6	35 71.4	65 69.1	68 81.0	16 64.0	23 57.5	18 56.3
- (3X) AGREE SOMEWHAT	35 16.6	31 16.6	3 16.7	5 9.6	15 25.0	8 10.8	9 25.7	5 12.8	5 16.7	14 21.2	5 10.2	15 16.0	6 7.1	6 24.0	6 15.0	8 25.0
(NET) DISAGREE	27 12.8	25 13.4	1 5.6	9 17.3	7 11.7	8 10.8	4 11.4	8 20.5	1 3.3	9 13.6	8 16.3	9 9.6	7 8.3	3 12.0	9 22.5	5 15.6
- (2X) DISAGREE SOMEWHAT	5 2.4	5 2.7	-	1 1.9	-	3 4.1	1 2.9	1 2.6	-	3 4.5	-	1 1.1	-	-	3 7.5	1 3.1
- (1X) DISAGREE STRONGLY	22 10.4	20 10.7	1 5.6	8 15.4	7 11.7	5 6.8	3 8.6	7 17.9	1 3.3	6 9.1	8 16.3	8 8.5	7 8.3	3 12.0	6 15.0	4 12.5
DK/NS	7 3.3	6 3.2	-	1 1.9	2 3.3	1 1.4	2 5.7	-	1 3.3	1 1.5	1 2.0	5 5.3	3 3.6	-	2 5.0	1 3.1
MEAN	3.46	3.44	3.67	3.39	3.38	3.60	3.39	3.28	3.72	3.42	3.40	3.54	3.67	3.40	3.21	3.29
STD DEV	.97	.98	.75	1.10	.98	.86	.92	1.15	.64	.94	1.11	.90	.86	.98	1.13	1.02
STD ERR	.07	.07	.18	.15	.13	.10	.16	.18	.12	.12	.16	.10	.10	.20	.18	.18

Continued

Table 2-3

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE DET- ACHED	OTHER		30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN.	CITY	GAS	ELECT- RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
Q.3D - YOU WANTED TO IMPROVE THE INSIDE APPEARANCE OF YOUR HOUSE.....																
(NET) AGREE	87 41.2	72 38.5	12 66.7	22 42.3	18 30.0	35 47.3	12 34.3	19 48.7	14 46.7	28 42.4	21 42.9	37 39.4	33 39.3	15 60.0	21 52.5	9 28.1
- (4X) AGREE STRONGLY	50 23.7	42 22.5	7 38.9	11 21.2	13 21.7	18 24.3	5 14.3	13 33.3	6 20.0	15 22.7	14 28.6	21 22.3	20 23.8	9 36.0	10 25.0	5 15.6
- (3X) AGREE SOMEWHAT	37 17.5	30 16.0	5 27.8	11 21.2	5 8.3	17 23.0	7 20.0	6 15.4	8 26.7	13 19.7	7 14.3	16 17.0	13 15.5	6 24.0	11 27.5	4 12.5
(NET) DISAGREE	105 49.8	97 51.9	5 27.8	25 48.1	36 60.0	34 45.9	19 54.3	15 38.5	14 46.7	33 50.0	23 46.9	48 51.1	42 50.0	10 40.0	16 40.0	18 56.3
- (2X) DISAGREE SOMEWHAT	21 10.0	18 9.6	2 11.1	2 3.8	12 20.0	7 9.5	6 17.1	-	1 3.3	4 6.1	5 10.2	11 11.7	11 13.1	-	5 12.5	4 12.5
- (1X) DISAGREE STRONGLY	84 39.8	79 42.2	3 16.7	23 44.2	24 40.0	27 36.5	13 37.1	15 38.5	13 43.3	29 43.9	18 36.7	37 39.4	31 36.9	10 40.0	11 27.5	14 43.8
DK/NS	19 9.0	18 9.6	1 5.6	5 9.6	6 10.0	5 6.8	4 11.4	5 12.8	2 6.7	5 7.6	5 10.2	9 9.6	9 10.7	-	3 7.5	5 15.6
MEAN	2.28	2.21	2.94	2.21	2.13	2.38	2.13	2.50	2.25	2.23	2.39	2.25	2.29	2.56	2.54	2.00
STD DEV	1.26	1.26	1.11	1.27	1.22	1.24	1.13	1.38	1.24	1.27	1.30	1.25	1.25	1.33	1.18	1.19
STD ERR	.09	.10	.27	.19	.17	.15	.20	.24	.23	.16	.20	.14	.14	.27	.19	.23

Continued

Table 2-3

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE			30 YRS	OVER		<1,000	1,000-	OVER					ELECT-		
	DET-			OR	31-50	50	SQ.FT.	1,500	1,500	RURAL	TOWN	CITY	GAS	RICITY	OIL	OTHER
TOTAL	ACHED	OTHER		LESS	YEARS	YEARS										
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
Q.3E - YOU THOUGHT IT WOULD INCREASE THE VALUE OF YOUR HOUSE.....																
(NET) AGREE	111	99	10	27	27	39	16	20	18	33	27	51	54	14	19	15
	52.6	52.9	55.6	51.9	45.0	52.7	45.7	51.3	60.0	50.0	55.1	54.3	64.3	56.0	47.5	46.9
- (4X) AGREE STRONGLY	70	61	7	15	13	30	12	18	8	22	14	34	34	7	13	11
	33.2	32.6	38.9	28.8	21.7	40.5	34.3	46.2	26.7	33.3	28.6	36.2	40.5	28.0	32.5	34.4
- (3X) AGREE SOMEWHAT	41	38	3	12	14	9	4	2	10	11	13	17	20	7	6	4
	19.4	20.3	16.7	23.1	23.3	12.2	11.4	5.1	33.3	16.7	26.5	18.1	23.8	28.0	15.0	12.5
(NET) DISAGREE	87	77	7	24	27	32	17	15	11	29	18	38	25	10	20	14
	41.2	41.2	38.9	46.2	45.0	43.2	48.6	38.5	36.7	43.9	36.7	40.4	29.8	40.0	50.0	43.8
- (2X) DISAGREE SOMEWHAT	18	17	1	4	5	8	5	3	3	5	6	7	4	2	4	3
	8.5	9.1	5.6	7.7	8.3	10.8	14.3	7.7	10.0	7.6	12.2	7.4	4.8	8.0	10.0	9.4
- (1X) DISAGREE STRONGLY	69	60	6	20	22	24	12	12	8	24	12	31	21	8	16	11
	32.7	32.1	33.3	38.5	36.7	32.4	34.3	30.8	26.7	36.4	24.5	33.0	25.0	32.0	40.0	34.4
DK/NS	13	11	1	1	6	3	2	4	1	4	4	5	5	1	1	3
	6.2	5.9	5.6	1.9	10.0	4.1	5.7	10.3	3.3	6.1	8.2	5.3	6.0	4.0	2.5	9.4
MEAN	2.57	2.57	2.65	2.43	2.33	2.63	2.48	2.74	2.62	2.50	2.64	2.61	2.85	2.54	2.41	2.52
STD DEV	1.28	1.27	1.33	1.27	1.23	1.32	1.31	1.38	1.16	1.32	1.18	1.30	1.23	1.22	1.31	1.33
STD ERR	.09	.10	.32	.18	.17	.16	.23	.23	.21	.17	.18	.14	.14	.25	.21	.25

Continued

Table 2-3

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE	DET-	OTHER	30 YRS	OR	OVER	<1,000	1,000-	OVER	RURAL	TOWN	CITY	GAS	ELECT-	OIL	OTHER
	ACHED			LESS	31-50	50	SQ. FT.	1,500	1,500					RICITY		
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
Q.3F - YOU WANTED TO INCREASE THE SIZE OF YOUR LIVING AREA.....																
(NET) AGREE	19	17	1	3	4	11	4	6	4	10	2	7	8	2	1	6
	9.0	9.1	5.6	5.8	6.7	14.9	11.4	15.4	13.3	15.2	4.1	7.4	9.5	8.0	2.5	18.8
- (4X) AGREE STRONGLY	15	13	1	2	3	9	2	4	4	6	2	7	8	2	1	2
	7.1	7.0	5.6	3.8	5.0	12.2	5.7	10.3	13.3	9.1	4.1	7.4	9.5	8.0	2.5	6.3
- (3X) AGREE SOMEWHAT	4	4	-	1	1	2	2	2	-	4	-	-	-	-	-	4
	1.9	2.1		1.9	1.7	2.7	5.7	5.1		6.1						12.5
(NET) DISAGREE	163	142	16	41	46	58	26	25	23	46	42	73	63	19	34	21
	77.3	75.9	88.9	78.8	76.7	78.4	74.3	64.1	76.7	69.7	85.7	77.7	75.0	76.0	85.0	65.6
- (2X) DISAGREE SOMEWHAT	3	2	1	1	-	1	1	1	1	1	-	2	1	1	-	1
	1.4	1.1	5.6	1.9		1.4	2.9	2.6	3.3	1.5		2.1	1.2	4.0		3.1
- (1X) DISAGREE STRONGLY	160	140	15	40	46	57	25	24	22	45	42	71	62	18	34	20
	75.8	74.9	83.3	76.9	76.7	77.0	71.4	61.5	73.3	68.2	85.7	75.5	73.8	72.0	85.0	62.5
DK/NS	29	28	1	8	10	5	5	8	3	10	5	14	13	4	5	5
	13.7	15.0	5.6	15.4	16.7	6.8	14.3	20.5	10.0	15.2	10.2	14.9	15.5	16.0	12.5	15.6
MEAN	1.31	1.31	1.24	1.20	1.22	1.46	1.37	1.55	1.48	1.48	1.14	1.29	1.35	1.33	1.09	1.56
STD DEV	.87	.87	.73	.69	.76	1.04	.87	1.07	1.07	1.02	.62	.85	.95	.89	.50	.99
STD ERR	.06	.07	.18	.10	.11	.13	.16	.19	.21	.14	.09	.10	.11	.19	.08	.19

Continued

Table 2-3

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE DET- ACHED	OTHER		30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
Q.3G - YOU WANTED TO PROVIDE ACCESS FOR A DISABLED PERSON LIVING THERE.....																
(NET) AGREE	34 16.1%	30 16.0%	4 22.2%	10 19.2%	11 18.3%	10 13.5%	6 17.1%	7 17.9%	4 13.3%	11 16.7%	10 20.4%	13 13.8%	11 13.1%	3 12.0%	13 32.5%	5 15.6%
- (4X) AGREE STRONGLY	21 10.0%	19 10.2%	2 11.1%	6 11.5%	6 10.0%	7 9.5%	4 11.4%	3 7.7%	1 3.3%	7 10.6%	7 14.3%	7 7.4%	7 8.3%	2 8.0%	8 20.0%	4 12.5%
- (3X) AGREE SOMEWHAT	13 6.2%	11 5.9%	2 11.1%	4 7.7%	5 8.3%	3 4.1%	2 5.7%	4 10.3%	3 10.0%	4 6.1%	3 6.1%	6 6.4%	4 4.8%	1 4.0%	5 12.5%	1 3.1%
(NET) DISAGREE	152 72.0%	133 71.1%	13 72.2%	37 71.2%	41 68.3%	58 78.4%	24 68.6%	28 71.8%	23 76.7%	48 72.7%	34 69.4%	68 72.3%	62 73.8%	19 76.0%	22 55.0%	23 71.9%
- (2X) DISAGREE SOMEWHAT	6 2.8%	5 2.7%	1 5.6%	1 1.9%	-	5 6.8%	1 2.9%	-	1 3.3%	4 6.1%	1 2.0%	1 1.1%	2 2.4%	1 4.0%	-	3 9.4%
- (1X) DISAGREE STRONGLY	146 69.2%	128 68.4%	12 66.7%	36 69.2%	41 68.3%	53 71.6%	23 65.7%	28 71.8%	22 73.3%	44 66.7%	33 67.3%	67 71.3%	60 71.4%	18 72.0%	22 55.0%	20 62.5%
DK/NS	25 11.8%	24 12.8%	1 5.6%	5 9.6%	8 13.3%	6 8.1%	5 14.3%	4 10.3%	3 10.0%	7 10.6%	5 10.2%	13 13.8%	11 13.1%	3 12.0%	5 12.5%	4 12.5%
MEAN	1.51	1.52	1.65	1.57	1.54	1.47	1.57	1.49	1.37	1.56	1.64	1.42	1.42	1.41	1.97	1.61
STD DEV	1.03	1.04	1.08	1.09	1.06	.98	1.09	1.00	.82	1.05	1.15	.95	.96	.94	1.30	1.08
STD ERR	.08	.08	.26	.16	.15	.12	.20	.17	.16	.14	.17	.11	.11	.20	.22	.20

Continued

Table 2-3

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL				
	SINGLE DET- ACHED	OTHER		30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500		RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30		66	49	94	84	25	40	32
Q.3H - THERE WERE CERTAIN IMPROVEMENTS NEEDED TO MEET BUILDING CODE STANDARDS AND REGULATIONS.....																	
(NET) AGREE	108 51.2%	96 51.3%	10 55.6%	20 38.5%	33 55.0%	42 56.8%	23 65.7%	19 48.7%	11 36.7%		37 56.1%	25 51.0%	45 47.9%	43 51.2%	16 64.0%	27 67.5%	16 50.0%
- (4X) AGREE STRONGLY	85 40.3%	76 40.6%	8 44.4%	14 26.9%	26 43.3%	33 44.6%	18 51.4%	14 35.9%	8 26.7%		30 45.5%	20 40.8%	35 37.2%	36 42.9%	12 48.0%	20 50.0%	13 40.6%
- (3X) AGREE SOMEWHAT	23 10.9%	20 10.7%	2 11.1%	6 11.5%	7 11.7%	9 12.2%	5 14.3%	5 12.8%	3 10.0%		7 10.6%	5 10.2%	10 10.6%	7 8.3%	4 16.0%	7 17.5%	3 9.4%
(NET) DISAGREE	85 40.3%	73 39.0%	8 44.4%	29 55.8%	21 35.0%	25 33.8%	10 28.6%	16 41.0%	16 53.3%		21 31.8%	22 44.9%	41 43.6%	34 40.5%	7 28.0%	11 27.5%	11 34.4%
- (2X) DISAGREE SOMEWHAT	17 8.1%	14 7.5%	3 16.7%	5 9.6%	5 8.3%	6 8.1%	1 2.9%	3 7.7%	5 16.7%		4 6.1%	3 6.1%	10 10.6%	9 10.7%	2 8.0%	1 2.5%	3 9.4%
- (1X) DISAGREE STRONGLY	68 32.2%	59 31.6%	5 27.8%	24 46.2%	16 26.7%	19 25.7%	9 25.7%	13 33.3%	11 36.7%		17 25.8%	19 38.8%	31 33.0%	25 29.8%	5 20.0%	10 25.0%	8 25.0%
DK/NS	18 8.5%	18 9.6%	-	3 5.8%	6 10.0%	7 9.5%	2 5.7%	4 10.3%	3 10.0%		8 12.1%	2 4.1%	8 8.5%	7 8.3%	2 8.0%	2 5.0%	5 15.6%
MEAN	2.65	2.67	2.72	2.20	2.80	2.84	2.97	2.57	2.30		2.86	2.55	2.57	2.70	3.00	2.97	2.78
STD DEV	1.35	1.35	1.28	1.31	1.31	1.30	1.29	1.34	1.27		1.32	1.38	1.33	1.34	1.22	1.27	1.31
STD ERR	.10	.10	.30	.19	.18	.16	.22	.23	.24		.17	.20	.14	.15	.25	.21	.25

Table 3-1

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM - SUMMARY % AGREE TABLE RANKED
BASED ON TOTAL INTERVIEWED

WORK DONE THROUGH RRAP PROGRAM																							
	ROOF/ CHIM- RE- PAIR	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH- ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER- IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT -TION	EXTER- IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC- TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
Q.3C - YOU WANTED TO MAKE YOUR HOUSE MORE ENERGY-EFFICIENT	83.9% (1)	85.8% (1)	93.0% (1)	88.4% (1)	80.0% (2)	97.6% (1)	88.0% *(1)	93.1% (1)	82.1% (2)	96.2% (1)	92.9% (1)	88.9% (1)	100% (1)	85.7% (1)	90.0% *(1)	91.7% *(1)	72.2% (2)	50.0% (4)	91.7% *(1)	81.8% (2)	55.6% *(3)	100% *(1)	100.0% *(1)
Q.3B - YOU WERE CONCERNED ABOUT HEALTH AND SAFETY	77.7% (2)	79.2% (2)	72.8% (3)	79.1% (2)	82.5% (1)	75.6% (3)	88.0% *(1)	89.7% (2)	89.3% (1)	84.6% (2)	64.3% *(4)	77.8% (2)	88.2% (2)	77.1% *(2)	70.0% *(3)	91.7% *(1)	77.8% (1)	90.0% (1)	91.7% *(1)	100% (1)	100.0% (1)	100% *(1)	100.0% *(1)
Q.3A - YOU WANTED TO LOWER YOUR MAINTENANCE COSTS	73.9% (3)	74.5% (3)	77.2% (2)	72.1% (3)	70.0% *(3)	80.5% (2)	68.0% (3)	79.3% (3)	75.0% (3)	80.8% (3)	78.6% *(2)	74.1% (3)	76.5% (3)	77.1% *(2)	70.0% *(3)	75.0% *(3)	61.1% *(3)	80.0% (2)	66.7% (3)	72.7% (3)	55.6% *(3)	75.0% (3)	100.0% *(1)
Q.3E - YOU THOUGHT IT WOULD INCREASE THE VALUE OF YOUR HOUSE	52.6% (4)	56.6% (4)	54.4% (4)	46.5% (5)	57.5% (5)	61.0% *(4)	44.0% (6)	34.5% (6)	57.1% (4)	61.5% *(4)	78.6% *(2)	44.4% (6)	47.1% *(4)	54.3% (4)	70.0% *(3)	66.7% (5)	50.0% (5)	40.0% (5)	33.3% (6)	27.3% (6)	88.9% (2)	50.0% *(4)	50.0% *(5)
Q.3H - THERE WERE CERTAIN IMPROVEMENTS NEEDED TO MEET BUILDING CODE STANDARDS AND REGULATIONS	51.2% (5)	55.7% (5)	50.9% (5)	58.1% (4)	70.0% *(3)	61.0% *(4)	60.0% (4)	55.2% (4)	53.6% (5)	61.5% *(4)	64.3% *(4)	59.3% (5)	47.1% *(4)	48.6% (6)	90.0% *(1)	75.0% *(3)	61.1% *(3)	60.0% (3)	41.7% *(4)	54.5% (4)	55.6% *(3)	50.0% *(4)	100.0% *(1)
Q.3D - YOU WANTED TO IMPROVE THE INSIDE APPEARANCE OF YOUR HOUSE	41.2% (6)	42.5% (6)	42.1% (6)	44.2% (6)	32.5% (6)	36.6% (6)	48.0% (5)	41.4% (5)	39.3% (6)	46.2% (6)	50.0% (6)	63.0% (4)	35.3% (6)	51.4% (5)	60.0% (6)	58.3% (6)	22.2% *(6)	30.0% (6)	41.7% *(4)	36.4% (5)	55.6% *(3)	50.0% *(4)	50.0% *(5)
Q.3G - YOU WANTED TO PROVIDE ACCESS FOR A DISABLED PERSON LIVING THERE	16.1% (7)	15.1% (7)	13.2% (7)	16.3% (7)	7.5% (8)	7.3% (8)	12.0% (7)	24.1% (7)	21.4% (7)	7.7% (8)	7.1% *(7)	33.3% (7)	29.4% (7)	17.1% *(7)	40.0% (7)	25.0% (7)	22.2% *(6)	20.0% (7)	25.0% (7)	18.2% *(7)	11.1% *(7)		50.0% *(5)
Q.3F - YOU WANTED TO INCREASE THE SIZE OF YOUR LIVING AREA	9.0% (8)	10.4% (8)	6.1% (8)	9.3% (8)	10.0% (7)	19.5% (7)	4.0% (8)	6.9% (8)	7.1% (8)	19.2% (7)	7.1% *(7)	14.8% (8)	17.6% (8)	17.1% *(7)	10.0% (8)	16.7% (8)			16.7% (8)	18.2% *(7)	11.1% *(7)		

Table 3-2

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM - SUMMARY % AGREE TABLE RANKED
BASED ON TOTAL INTERVIEWED

	GENDER		RESPONDENT'S AGE				HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
Q.3C - YOU WANTED TO MAKE YOUR HOUSE MORE ENERGY-EFFICIENT	83.9% (1)	83.3% (1)	84.3% (1)	88.5% (1)	83.1% (2)	82.7% (1)	79.3% (1)	86.3% (1)	85.5% (1)	82.1% *(1)	87.7% (1)	86.8% (1)	84.5% (1)	85.1% (1)	90.5% (1)	86.5% (1)	91.3% (1)	81.8% (2)	85.0% (2)
Q.3B - YOU WERE CONCERNED ABOUT HEALTH AND SAFETY	77.7% (2)	79.8% (2)	76.4% (2)	76.9% (3)	84.7% (1)	74.5% (2)	75.9% (2)	76.3% (3)	81.2% (2)	71.8% (3)	84.9% (2)	76.3% (3)	82.8% (2)	77.7% (2)	81.0% *(2)	78.8% *(2)	87.0% (2)	86.4% (1)	75.0% (3)
Q.3A - YOU WANTED TO LOWER YOUR MAINTENANCE COSTS	73.9% (3)	76.2% (3)	72.4% (3)	78.8% (2)	81.4% (3)	67.3% (3)	69.0% (3)	77.5% (2)	75.4% (3)	82.1% *(1)	76.7% (3)	81.6% (2)	77.6% (3)	73.6% (3)	81.0% *(2)	78.8% *(2)	82.6% (3)	77.3% (3)	90.0% (1)
Q.3E - YOU THOUGHT IT WOULD INCREASE THE VALUE OF YOUR HOUSE	52.6% (4)	58.3% (4)	48.8% (5)	42.3% (5)	50.8% (5)	59.2% (4)	60.3% (4)	56.3% (4)	43.5% (5)	56.4% (5)	61.6% (4)	47.4% *(5)	51.7% (5)	58.7% (4)	33.3% (5)	40.4% (5)	60.9% (5)	40.9% (5)	15.0% *(6)
Q.3H - THERE WERE CERTAIN IMPROVEMENTS NEEDED TO MEET BUILDING CODE STANDARDS AND REGULATIONS	51.2% (5)	51.2% (5)	51.2% (4)	59.6% (4)	55.9% (4)	44.9% (5)	55.2% (5)	41.3% (5)	60.9% (4)	64.1% (4)	58.9% (5)	57.9% (4)	58.6% (4)	46.3% (5)	66.7% (4)	63.5% (4)	73.9% (4)	72.7% (4)	60.0% (4)
Q.3D - YOU WANTED TO IMPROVE THE INSIDE APPEARANCE OF YOUR HOUSE	41.2% (6)	42.9% (6)	40.2% (6)	40.4% (6)	42.4% (6)	39.8% (6)	44.8% (6)	37.5% (6)	40.6% (6)	46.2% (6)	43.8% (6)	47.4% *(5)	43.1% (6)	43.0% (6)	28.6% (6)	36.5% (6)	30.4% (6)	36.4% (6)	45.0% (5)
Q.3G - YOU WANTED TO PROVIDE ACCESS FOR A DISABLED PERSON LIVING THERE	16.1% (7)	17.9% *(7)	15.0% (7)	5.8% (8)	20.3% (7)	19.4% (7)	17.2% (7)	22.5% (7)	7.2% (8)	23.1% (7)	20.5% (7)	15.8% (7)	8.6% (8)	19.8% (7)	14.3% (7)	5.8% (8)		4.5% (8)	15.0% *(6)
Q.3F - YOU WANTED TO INCREASE THE SIZE OF YOUR LIVING AREA	9.0% (8)	17.9% *(7)	3.1% (8)	11.5% (7)	11.9% (8)	6.1% (8)	5.2% (8)	12.5% (8)	8.7% (7)	2.6% (8)	12.3% (8)	13.2% (8)	13.8% (7)	8.3% (8)	4.8% (8)	11.5% (7)	17.4% (7)	9.1% (7)	10.0% (8)

Table 3-3

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM - SUMMARY % AGREE TABLE RANKED
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE DET- ACHED	OTHER		30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
Q.3C - YOU WANTED TO MAKE YOUR HOUSE MORE ENERGY-EFFICIENT	83.9% (1)	83.4% (1)	94.4% (1)	80.8% (1)	85.0% (1)	87.8% (1)	82.9% *(1)	79.5% (2)	93.3% (1)	84.8% *(1)	81.6% (1)	85.1% (1)	88.1% (1)	88.0% (1)	72.5% (3)	81.3% (2)
Q.3B - YOU WERE CONCERNED ABOUT HEALTH AND SAFETY	77.7% (2)	78.1% (2)	83.3% (2)	73.1% (2)	78.3% (2)	83.8% (2)	82.9% *(1)	87.2% (1)	70.0% (3)	84.8% *(1)	77.6% (2)	73.4% (2)	77.4% (2)	84.0% (2)	82.5% *(1)	87.5% (1)
Q.3A - YOU WANTED TO LOWER YOUR MAINTENANCE COSTS	73.9% (3)	74.3% (3)	77.8% (3)	67.3% (3)	75.0% (3)	81.1% (3)	74.3% (3)	74.4% (3)	86.7% (2)	77.3% (3)	75.5% (3)	70.2% (3)	76.2% (3)	76.0% (3)	82.5% *(1)	65.6% (3)
Q.3E - YOU THOUGHT IT WOULD INCREASE THE VALUE OF YOUR HOUSE	52.6% (4)	52.9% (4)	55.6% *(5)	51.9% (4)	45.0% (5)	52.7% (5)	45.7% (5)	51.3% (4)	60.0% (4)	50.0% (5)	55.1% (4)	54.3% (4)	64.3% (4)	56.0% (6)	47.5% (6)	46.9% (5)
Q.3H - THERE WERE CERTAIN IMPROVEMENTS NEEDED TO MEET BUILDING CODE STANDARDS AND REGULATIONS	51.2% (5)	51.3% (5)	55.6% *(5)	38.5% (6)	55.0% (4)	56.8% (4)	65.7% (4)	48.7% *(5)	36.7% (6)	56.1% (4)	51.0% (5)	47.9% (5)	51.2% (5)	64.0% (4)	67.5% (4)	50.0% (4)
Q.3D - YOU WANTED TO IMPROVE THE INSIDE APPEARANCE OF YOUR HOUSE	41.2% (6)	38.5% (6)	66.7% (4)	42.3% (5)	30.0% (6)	47.3% (6)	34.3% (6)	48.7% *(5)	46.7% (5)	42.4% (6)	42.9% (6)	39.4% (6)	39.3% (6)	60.0% (5)	52.5% (5)	28.1% (6)
Q.3G - YOU WANTED TO PROVIDE ACCESS FOR A DISABLED PERSON LIVING THERE	16.1% (7)	16.0% (7)	22.2% (7)	19.2% (7)	18.3% (7)	13.5% (8)	17.1% (7)	17.9% (7)	13.3% *(7)	16.7% (7)	20.4% (7)	13.8% (7)	13.1% (7)	12.0% (7)	32.5% (7)	15.6% (8)
Q.3F - YOU WANTED TO INCREASE THE SIZE OF YOUR LIVING AREA	9.0% (8)	9.1% (8)	5.6% (8)	5.8% (8)	6.7% (8)	14.9% (7)	11.4% (8)	15.4% (8)	13.3% *(7)	15.2% (8)	4.1% (8)	7.4% (8)	9.5% (8)	8.0% (8)	2.5% (8)	18.8% (7)

Table 4-1

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM - SUMMARY MEAN SCORE TABLE RANKED
BASED ON TOTAL INTERVIEWED

	WORK DONE THROUGH RRAP PROGRAM																						
	ROOF/ CHIM- RE- PAIR	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH- ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER- IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT -ILA -TION	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
	TOTAL																						
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
Q.3C - YOU WANTED TO MAKE YOUR HOUSE MORE ENERGY-EFFICIENT	3.46 (1)	3.49 (1)	3.66 (1)	3.55 (1)	3.42 (1)	3.80 (1)	3.52 (1)	3.68 (1)	3.63 (1)	3.69 (1)	3.79 (1)	3.62 (1)	3.82 (1)	3.58 (1)	3.60 (2)	3.67 (3)	3.25 (2)	2.20 (4)	3.73 (2)	3.36 (2)	2.63 (6)	3.50 (3)	4.00 *(1)
Q.3A - YOU WANTED TO LOWER YOUR MAINTENANCE COSTS	3.26 (2)	3.39 (2)	3.32 (2)	3.08 (3)	3.30 (3)	3.50 (2)	3.09 (3)	3.42 (3)	3.36 (3)	3.50 (2)	3.29 (2)	3.43 (2)	3.18 (3)	3.21 (3)	3.00 *(5)	3.60 (4)	2.93 (4)	3.10 (2)	3.00 (3)	3.00 (3)	3.17 (3)	3.67 (2)	3.50 (4)
Q.3B - YOU WERE CONCERNED ABOUT HEALTH AND SAFETY	3.25 (3)	3.25 (3)	3.12 (3)	3.21 (2)	3.35 (2)	3.15 (3)	3.44 (2)	3.45 (2)	3.46 (2)	3.40 (3)	2.92 *(4)	3.41 (3)	3.53 (2)	3.33 (2)	3.22 (4)	3.73 (2)	3.33 (1)	3.70 (1)	3.82 (1)	3.82 (1)	3.78 (1)	3.75 (1)	4.00 *(1)
Q.3H - THERE WERE CERTAIN IMPROVEMENTS NEEDED TO MEET BUILDING CODE STANDARDS AND REGULATIONS	2.65 (4)	2.78 (4)	2.61 (4)	2.78 (4)	3.19 (4)	2.92 (4)	2.75 (4)	2.68 (4)	2.88 (4)	3.32 (4)	2.92 *(4)	2.92 (5)	2.53 (4)	2.89 (4)	3.89 (1)	3.80 (1)	2.94 (3)	2.60 (3)	2.60 (4)	2.80 (4)	3.00 *(4)	2.25 *(4)	4.00 *(1)
Q.3E - YOU THOUGHT IT WOULD INCREASE THE VALUE OF YOUR HOUSE	2.57 (5)	2.71 (5)	2.54 (5)	2.40 (5)	2.65 (5)	2.74 (5)	2.41 (5)	2.15 (6)	2.76 (5)	2.67 (5)	3.07 (3)	2.42 (6)	2.41 (5)	2.58 (6)	3.00 *(5)	3.27 (5)	2.44 (5)	2.11 (5)	2.44 (6)	1.90 (6)	3.56 (2)	2.25 *(4)	2.00 (7)
Q.3D - YOU WANTED TO IMPROVE THE INSIDE APPEARANCE OF YOUR HOUSE	2.28 (6)	2.34 (6)	2.25 (6)	2.35 (6)	2.13 (6)	2.15 (6)	2.36 (6)	2.31 (5)	2.38 (6)	2.42 (6)	2.36 (6)	2.96 (4)	2.00 (6)	2.58 (5)	3.38 (3)	2.64 (6)	1.82 (6)	1.80 (6)	2.56 (5)	1.91 (5)	3.00 *(4)	2.25 *(4)	2.50 *(5)
Q.3G - YOU WANTED TO PROVIDE ACCESS FOR A DISABLED PERSON LIVING THERE	1.51 (7)	1.52 (7)	1.41 (7)	1.51 (7)	1.22 (8)	1.29 (8)	1.36 (7)	1.72 (7)	1.70 (7)	1.24 (8)	1.18 *(7)	2.04 (7)	1.76 (7)	1.55 *(7)	2.50 (7)	1.89 (7)	1.67 (7)	1.40 (7)	2.00 (7)	1.60 (7)	1.29 (8)	1.33 *(7)	2.50 *(5)
Q.3F - YOU WANTED TO INCREASE THE SIZE OF YOUR LIVING AREA	1.31 (8)	1.37 (8)	1.21 (8)	1.36 (8)	1.36 (7)	1.65 (7)	1.19 (8)	1.24 (8)	1.32 (8)	1.71 (7)	1.18 *(7)	1.55 (8)	1.47 (8)	1.55 *(7)	1.38 (8)	1.67 (8)	1.00 (8)	1.00 (8)	1.75 (8)	1.50 (8)	1.33 (7)	1.33 *(7)	1.00 (8)

Table 4-2

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM - SUMMARY MEAN SCORE TABLE RANKED
BASED ON TOTAL INTERVIEWED

	GENDER		RESPONDENT'S AGE				HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
Q.3C - YOU WANTED TO MAKE YOUR HOUSE MORE ENERGY-EFFICIENT	3.46 (1)	3.38 (1)	3.51 (1)	3.59 (1)	3.41 (2)	3.44 (1)	3.39 (1)	3.50 (1)	3.49 (1)	3.28 (2)	3.68 (1)	3.65 (1)	3.55 (1)	3.46 (1)	3.65 (1)	3.48 (1)	3.65 (1)	3.36 (3)	3.50 (1)
Q.3A - YOU WANTED TO LOWER YOUR MAINTENANCE COSTS	3.26 (2)	3.23 (3)	3.28 (2)	3.46 (2)	3.36 (3)	3.10 (3)	3.20 (2)	3.36 (2)	3.23 (3)	3.30 (1)	3.35 (3)	3.56 (2)	3.42 (2)	3.21 (3)	3.47 (2)	3.30 (2)	3.45 *(2)	3.40 (2)	3.40 (2)
Q.3B - YOU WERE CONCERNED ABOUT HEALTH AND SAFETY	3.25 (3)	3.28 (2)	3.22 (3)	3.14 (3)	3.44 (1)	3.20 (2)	3.17 (3)	3.22 (3)	3.35 (2)	3.13 (3)	3.42 (2)	3.22 (3)	3.35 (3)	3.29 (2)	3.24 (3)	3.25 (3)	3.45 *(2)	3.43 (1)	3.15 (3)
Q.3H - THERE WERE CERTAIN IMPROVEMENTS NEEDED TO MEET BUILDING CODE STANDARDS AND REGULATIONS	2.65 (4)	2.64 (5)	2.66 (4)	2.82 (4)	2.73 (4)	2.54 (5)	2.79 (5)	2.47 (5)	2.78 (4)	2.89 (4)	2.98 (4)	2.77 (4)	2.76 (4)	2.56 (5)	3.15 (4)	2.84 (4)	3.04 (4)	2.95 (4)	2.79 (4)
Q.3E - YOU THOUGHT IT WOULD INCREASE THE VALUE OF YOUR HOUSE	2.57 (5)	2.73 (4)	2.46 (5)	2.24 (5)	2.50 (5)	2.80 (4)	2.83 (4)	2.70 (4)	2.27 (5)	2.63 (5)	2.84 (5)	2.50 (5)	2.52 (5)	2.79 (4)	1.95 (6)	2.15 (5)	2.83 (5)	2.14 (5)	1.45 (6)
Q.3D - YOU WANTED TO IMPROVE THE INSIDE APPEARANCE OF YOUR HOUSE	2.28 (6)	2.35 (6)	2.23 (6)	2.12 (6)	2.35 (6)	2.29 (6)	2.37 (6)	2.23 (6)	2.23 (6)	2.32 (6)	2.44 (6)	2.41 (6)	2.19 (6)	2.39 (6)	2.10 (5)	2.06 (6)	1.91 (6)	2.10 (6)	2.35 (5)
Q.3G - YOU WANTED TO PROVIDE ACCESS FOR A DISABLED PERSON LIVING THERE	1.51 (7)	1.59 (7)	1.45 (7)	1.17 (8)	1.72 (7)	1.59 (7)	1.56 (7)	1.68 (7)	1.25 (8)	1.65 (7)	1.69 (7)	1.48 (7)	1.28 (8)	1.64 (7)	1.44 (7)	1.19 (8)	1.05 (8)	1.22 (8)	1.42 (7)
Q.3F - YOU WANTED TO INCREASE THE SIZE OF YOUR LIVING AREA	1.31 (8)	1.59 (8)	1.11 (8)	1.38 (7)	1.42 (8)	1.21 (8)	1.20 (8)	1.41 (8)	1.29 (7)	1.08 (8)	1.45 (8)	1.44 (8)	1.45 (7)	1.29 (8)	1.13 (8)	1.33 (7)	1.52 (7)	1.28 (7)	1.26 (8)

Table 4-3

Q.3 - AGREEMENT/DISAGREEMENT WITH REASONS FOR PARTICIPATING IN THE RRAP PROGRAM - SUMMARY MEAN SCORE TABLE RANKED
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	TOTAL	SINGLE DET- ACHED	OTHER	30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
Q.3C - YOU WANTED TO MAKE YOUR HOUSE MORE ENERGY-EFFICIENT	3.46 (1)	3.44 (1)	3.67 (1)	3.39 (1)	3.38 (1)	3.60 (1)	3.39 (2)	3.28 (2)	3.72 (1)	3.42 (2)	3.40 (1)	3.54 (1)	3.67 (1)	3.40 *(1)	3.21 (3)	3.29 (2)
Q.3A - YOU WANTED TO LOWER YOUR MAINTENANCE COSTS	3.26 (2)	3.27 (3)	3.35 (2)	3.10 (2)	3.17 (3)	3.45 (3)	3.23 (3)	3.25 (3)	3.57 (2)	3.26 (3)	3.33 (2)	3.21 (2)	3.41 (2)	3.30 (3)	3.27 (2)	3.00 (3)
Q.3B - YOU WERE CONCERNED ABOUT HEALTH AND SAFETY	3.25 (3)	3.27 (2)	3.28 (3)	3.08 (3)	3.22 (2)	3.45 (2)	3.44 (1)	3.65 (1)	3.00 (3)	3.45 (1)	3.22 (3)	3.13 (3)	3.21 (3)	3.40 *(1)	3.43 (1)	3.55 (1)
Q.3H - THERE WERE CERTAIN IMPROVEMENTS NEEDED TO MEET BUILDING CODE STANDARDS AND REGULATIONS	2.65 (4)	2.67 (4)	2.72 (5)	2.20 (6)	2.80 (4)	2.84 (4)	2.97 (4)	2.57 (5)	2.30 (5)	2.86 (4)	2.55 (5)	2.57 (5)	2.70 (5)	3.00 (4)	2.97 (4)	2.78 (4)
Q.3E - YOU THOUGHT IT WOULD INCREASE THE VALUE OF YOUR HOUSE	2.57 (5)	2.57 (5)	2.65 (6)	2.43 (4)	2.33 (5)	2.63 (5)	2.48 (5)	2.74 (4)	2.62 (4)	2.50 (5)	2.64 (4)	2.61 (4)	2.85 (4)	2.54 (6)	2.41 (6)	2.52 (5)
Q.3D - YOU WANTED TO IMPROVE THE INSIDE APPEARANCE OF YOUR HOUSE	2.28 (6)	2.21 (6)	2.94 (4)	2.21 (5)	2.13 (6)	2.38 (6)	2.13 (6)	2.50 (6)	2.25 (6)	2.23 (6)	2.39 (6)	2.25 (6)	2.29 (6)	2.56 (5)	2.54 (5)	2.00 (6)
Q.3G - YOU WANTED TO PROVIDE ACCESS FOR A DISABLED PERSON LIVING THERE	1.51 (7)	1.52 (7)	1.65 (7)	1.57 (7)	1.54 (7)	1.47 (7)	1.57 (7)	1.49 (8)	1.37 (8)	1.56 (7)	1.64 (7)	1.42 (7)	1.42 (7)	1.41 (7)	1.97 (7)	1.61 (7)
Q.3F - YOU WANTED TO INCREASE THE SIZE OF YOUR LIVING AREA	1.31 (8)	1.31 (8)	1.24 (8)	1.20 (8)	1.22 (8)	1.46 (8)	1.37 (8)	1.55 (7)	1.48 (7)	1.48 (8)	1.14 (8)	1.29 (8)	1.35 (8)	1.33 (8)	1.09 (8)	1.56 (8)

Table 5-1

Q.4 - LIKELIHOOD OF THINKING ABOUT SAVING ENERGY IN HOME SINCE PARTICIPATING IN THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	WORK DONE THROUGH RRAP PROGRAM																						
	ROOF/ CHIM- RE- TOTAL	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. IN- UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH -ER STRIP -PING	BATH ROOM	FOUN- DA- TION	INTER -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT -TION	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
(NET) MORE LIKELY TO THINK ABOUT SAVING ENERGY	166 78.7%	84 79.2%	95 83.3%	32 74.4%	28 70.0%	35 85.4%	21 84.0%	19 65.5%	25 89.3%	22 84.6%	13 92.9%	24 88.9%	15 88.2%	27 77.1%	8 80.0%	9 75.0%	13 72.2%	6 60.0%	8 66.7%	6 54.5%	8 88.9%	4 100%	2 100.0%
- (5X) MUCH MORE LIKELY TO THINK ABOUT SAVING ENERGY	72 34.1%	34 32.1%	41 36.0%	10 23.3%	12 30.0%	14 34.1%	4 16.0%	4 13.8%	13 46.4%	9 34.6%	5 35.7%	10 37.0%	7 41.2%	11 31.4%	3 30.0%	1 8.3%	6 33.3%	3 30.0%	2 16.7%	2 18.2%	3 33.3%	1 25.0%	-
- (4X) MORE LIKELY TO THINK ABOUT SAVING ENERGY	94 44.5%	50 47.2%	54 47.4%	22 51.2%	16 40.0%	21 51.2%	17 68.0%	15 51.7%	12 42.9%	13 50.0%	8 57.1%	14 51.9%	8 47.1%	16 45.7%	5 50.0%	8 66.7%	7 38.9%	3 30.0%	6 50.0%	4 36.4%	5 55.6%	3 75.0%	2 100.0%
(3X) NEITHER MORE NOR LESS LIKELY TO THINK ABOUT SAVING ENERGY	34 16.1%	15 14.2%	15 13.2%	9 20.9%	7 17.5%	4 9.8%	4 16.0%	7 24.1%	1 3.6%	4 15.4%	1 7.1%	3 11.1%	2 11.8%	4 11.4%	2 20.0%	2 16.7%	3 16.7%	4 40.0%	2 16.7%	5 45.5%	1 11.1%	-	-
(NET) LESS LIKELY TO THINK ABOUT SAVING ENERGY	4 1.9%	4 3.8%	-	1 2.3%	2 5.0%	2 4.9%	-	1 3.4%	-	-	-	-	-	1 2.9%	-	1 8.3%	-	-	-	-	-	-	-
- (2X) LESS LIKELY TO THINK ABOUT SAVING ENERGY	3 1.4%	3 2.8%	-	1 2.3%	2 5.0%	2 4.9%	-	1 3.4%	-	-	-	-	-	1 2.9%	-	-	-	-	-	-	-	-	-
- (1X) MUCH LESS LIKELY TO THINK ABOUT SAVING ENERGY	1 .5%	1 .9%	-	-	-	-	-	-	-	-	-	-	-	-	-	1 8.3%	-	-	-	-	-	-	-
DK/NS	7 3.3%	3 2.8%	4 3.5%	1 2.3%	3 7.5%	-	-	2 6.9%	2 7.1%	-	-	-	-	3 8.6%	-	-	2 11.1%	-	2 16.7%	-	-	-	-
MEAN	4.14	4.10	4.24	3.98	4.03	4.15	4.00	3.81	4.46	4.19	4.29	4.26	4.29	4.16	4.10	3.67	4.19	3.90	4.00	3.73	4.22	4.25	4.00
STD DEV	.78	.82	.67	.74	.85	.78	.57	.72	.57	.68	.59	.64	.67	.75	.70	.94	.73	.83	.63	.75	.63	.43	-
STD ERR	.05	.08	.06	.11	.14	.12	.11	.14	.11	.13	.16	.12	.16	.13	.22	.27	.18	.26	.20	.23	.21	.22	-

Table 5-2

Q.4 - LIKELIHOOD OF THINKING ABOUT SAVING ENERGY IN HOME SINCE PARTICIPATING IN THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	GENDER			RESPONDENT'S AGE			HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
(NET) MORE LIKELY TO THINK ABOUT SAVING ENERGY	166 78.7%	66 78.6%	100 78.7%	41 78.8%	48 81.4%	75 76.5%	45 77.6%	66 82.5%	53 76.8%	31 79.5%	59 80.8%	33 86.8%	47 81.0%	95 78.5%	17 81.0%	39 75.0%	17 73.9%	16 72.7%	18 90.0%
- (5X) MUCH MORE LIKELY TO THINK ABOUT SAVING ENERGY	72 34.1%	27 32.1%	45 35.4%	17 32.7%	22 37.3%	32 32.7%	28 48.3%	26 32.5%	18 26.1%	16 41.0%	26 35.6%	11 28.9%	20 34.5%	40 33.1%	9 42.9%	15 28.8%	6 26.1%	6 27.3%	9 45.0%
- (4X) MORE LIKELY TO THINK ABOUT SAVING ENERGY	94 44.5%	39 46.4%	55 43.3%	24 46.2%	26 44.1%	43 43.9%	17 29.3%	40 50.0%	35 50.7%	15 38.5%	33 45.2%	22 57.9%	27 46.6%	55 45.5%	8 38.1%	24 46.2%	11 47.8%	10 45.5%	9 45.0%
(3X) NEITHER MORE NOR LESS LIKELY TO THINK ABOUT SAVING ENERGY	34 16.1%	13 15.5%	21 16.5%	10 19.2%	9 15.3%	15 15.3%	10 17.2%	11 13.8%	11 15.9%	8 20.5%	8 11.0%	4 10.5%	9 15.5%	17 14.0%	4 19.0%	13 25.0%	6 26.1%	6 27.3%	2 10.0%
(NET) LESS LIKELY TO THINK ABOUT SAVING ENERGY	4 1.9%	3 3.6%	1 .8%	-	2 3.4%	2 2.0%	-	1 1.3%	3 4.3%	-	2 2.7%	1 2.6%	1 1.7%	3 2.5%	-	-	-	-	-
- (2X) LESS LIKELY TO THINK ABOUT SAVING ENERGY	3 1.4%	2 2.4%	1 .8%	-	2 3.4%	1 1.0%	-	1 1.3%	2 2.9%	-	1 1.4%	1 2.6%	1 1.7%	2 1.7%	-	-	-	-	-
- (1X) MUCH LESS LIKELY TO THINK ABOUT SAVING ENERGY	1 .5%	1 1.2%	-	-	-	1 1.0%	-	-	1 1.4%	-	1 1.4%	-	-	1 .8%	-	-	-	-	-
DK/NS	7 3.3%	2 2.4%	5 3.9%	1 1.9%	-	6 6.1%	3 5.2%	2 2.5%	2 2.9%	-	4 5.5%	-	1 1.7%	6 5.0%	-	-	-	-	-
MEAN	4.14	4.09	4.18	4.14	4.15	4.13	4.33	4.17	4.00	4.21	4.19	4.13	4.16	4.14	4.24	4.04	4.00	4.00	4.35
STD DEV	.78	.83	.74	.71	.80	.80	.76	.71	.83	.76	.80	.69	.74	.79	.75	.73	.72	.74	.65
STD ERR	.05	.09	.07	.10	.10	.08	.10	.08	.10	.12	.10	.11	.10	.07	.16	.10	.15	.16	.15

Table 5-3

Q.4 - LIKELIHOOD OF THINKING ABOUT SAVING ENERGY IN HOME SINCE PARTICIPATING IN THE RRAP PROGRAM
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	TOTAL	SINGLE DET- ACHED	OTHER	30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
(NET) MORE LIKELY TO THINK ABOUT SAVING ENERGY	166 78.7%	147 78.6%	15 83.3%	40 76.9%	51 85.0%	57 77.0%	31 88.6%	30 76.9%	24 80.0%	52 78.8%	39 79.6%	73 77.7%	70 83.3%	20 80.0%	29 72.5%	26 81.3%
- (5X) MUCH MORE LIKELY TO THINK ABOUT SAVING ENERGY	72 34.1%	64 34.2%	7 38.9%	26 50.0%	22 36.7%	18 24.3%	14 40.0%	12 30.8%	13 43.3%	20 30.3%	18 36.7%	34 36.2%	37 44.0%	13 52.0%	12 30.0%	6 18.8%
- (4X) MORE LIKELY TO THINK ABOUT SAVING ENERGY	94 44.5%	83 44.4%	8 44.4%	14 26.9%	29 48.3%	39 52.7%	17 48.6%	18 46.2%	11 36.7%	32 48.5%	21 42.9%	39 41.5%	33 39.3%	7 28.0%	17 42.5%	20 62.5%
(3X) NEITHER MORE NOR LESS LIKELY TO THINK ABOUT SAVING ENERGY	34 16.1%	30 16.0%	3 16.7%	9 17.3%	8 13.3%	13 17.6%	4 11.4%	7 17.9%	4 13.3%	11 16.7%	6 12.2%	17 18.1%	11 13.1%	4 16.0%	8 20.0%	4 12.5%
(NET) LESS LIKELY TO THINK ABOUT SAVING ENERGY	4 1.9%	4 2.1%	-	2 3.8%	-	2 2.7%	-	2 5.1%	-	2 3.0%	1 2.0%	1 1.1%	1 1.2%	-	1 2.5%	2 6.3%
- (2X) LESS LIKELY TO THINK ABOUT SAVING ENERGY	3 1.4%	3 1.6%	-	1 1.9%	-	2 2.7%	-	1 2.6%	-	2 3.0%	1 2.0%	-	-	-	1 2.5%	2 6.3%
- (1X) MUCH LESS LIKELY TO THINK ABOUT SAVING ENERGY	1 .5%	1 .5%	-	1 1.9%	-	-	-	1 2.6%	-	-	-	1 1.1%	1 1.2%	-	-	-
DK/NS	7 3.3%	6 3.2%	-	1 1.9%	1 1.7%	2 2.7%	-	-	2 6.7%	1 1.5%	3 6.1%	3 3.2%	2 2.4%	1 4.0%	2 5.0%	-
MEAN	4.14	4.14	4.22	4.24	4.24	4.01	4.29	4.00	4.32	4.08	4.22	4.15	4.28	4.38	4.05	3.94
STD DEV	.78	.79	.71	.94	.67	.74	.66	.91	.71	.77	.75	.80	.79	.75	.79	.75
STD ERR	.05	.06	.17	.13	.09	.09	.11	.15	.13	.10	.11	.08	.09	.15	.13	.13

Table 6-1

Q.5 - INFLUENCE OF RRAP PROGRAM ON ENERGY SAVING ACTIVITIES AND AWARENESS
BASED ON TOTAL INTERVIEWED

	WORK DONE THROUGH RRAP PROGRAM																						
	ROOF/ CHIM- RE- TOTAL	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH -ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER -IOR HOME/ WALLS	KIT- CHEN	VENTS -ILA -TION	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
MORE AWARE OF ENERGY CONSERVATION THAN BEFORE THE RRAP PROGRAM	121 57.3%	60 56.6%	66 57.9%	24 55.8%	24 60.0%	18 43.9%	13 52.0%	19 65.5%	17 60.7%	16 61.5%	10 71.4%	12 44.4%	11 64.7%	18 51.4%	6 60.0%	7 58.3%	11 61.1%	5 50.0%	9 75.0%	5 45.5%	4 44.4%	3 75.0%	1 50.0%
KEEP THE SETTING ON HEATING/ COOLING SYSTEM LOWER/ HIGHER THAN BEFORE THE RRAP PROGRAM	82 38.9%	40 37.7%	44 38.6%	16 37.2%	17 42.5%	20 48.8%	11 44.0%	11 37.9%	16 57.1%	16 61.5%	2 14.3%	10 37.0%	4 23.5%	15 42.9%	5 50.0%	5 41.7%	6 33.3%	2 20.0%	7 58.3%	3 27.3%	2 22.2%	2 50.0%	1 50.0%
TURN THERMOSTAT DOWN AT NIGHT IN THE WINTER MORE OFTEN THAN BEFORE THE RRAP PROGRAM	81 38.4%	45 42.5%	47 41.2%	18 41.9%	22 55.0%	14 34.1%	10 40.0%	14 48.3%	11 39.3%	10 38.5%	4 28.6%	10 37.0%	4 23.5%	16 45.7%	6 60.0%	8 66.7%	7 38.9%	2 20.0%	3 25.0%	4 36.4%	2 22.2%	1 25.0%	1 50.0%
KEEP HEATING SYSTEM SERVICED REGULARLY, MORE SO THAN BEFORE PARTICIPATING IN THE RRAP PROGRAM	70 33.2%	32 30.2%	30 26.3%	12 27.9%	17 42.5%	14 34.1%	5 20.0%	14 48.3%	10 35.7%	10 38.5%	4 28.6%	11 40.7%	4 23.5%	14 40.0%	2 20.0%	3 25.0%	7 38.9%	3 30.0%	4 33.3%	4 36.4%	3 33.3%	2 50.0%	-
NONE ABOVE/DK/NS	56 26.5%	29 27.4%	33 28.9%	15 34.9%	9 22.5%	12 29.3%	6 24.0%	6 20.7%	5 17.9%	4 15.4%	3 21.4%	8 29.6%	4 23.5%	11 31.4%	2 20.0%	2 16.7%	4 22.2%	5 50.0%	3 25.0%	3 27.3%	2 22.2%	1 25.0%	1 50.0%

Table 6-2

Q.5 - INFLUENCE OF RRAP PROGRAM ON ENERGY SAVING ACTIVITIES AND AWARENESS
BASED ON TOTAL INTERVIEWED

	GENDER		RESPONDENT'S AGE				HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
MORE AWARE OF ENERGY CONSERVATION THAN BEFORE THE RRAP PROGRAM	121 57.3%	50 59.5%	71 55.9%	34 65.4%	35 59.3%	51 52.0%	32 55.2%	45 56.3%	42 60.9%	24 61.5%	42 57.5%	24 63.2%	39 67.2%	66 54.5%	12 57.1%	31 59.6%	11 47.8%	16 72.7%	15 75.0%
KEEP THE SETTING ON HEATING/ COOLING SYSTEM LOWER/ HIGHER THAN BEFORE THE RRAP PROGRAM	82 38.9%	37 44.0%	45 35.4%	24 46.2%	24 40.7%	34 34.7%	20 34.5%	34 42.5%	28 40.6%	16 41.0%	33 45.2%	14 36.8%	24 41.4%	49 40.5%	8 38.1%	20 38.5%	11 47.8%	9 40.9%	6 30.0%
TURN THERMOSTAT DOWN AT NIGHT IN THE WINTER MORE OFTEN THAN BEFORE THE RRAP PROGRAM	81 38.4%	29 34.5%	52 40.9%	22 42.3%	24 40.7%	35 35.7%	22 37.9%	31 38.8%	28 40.6%	15 38.5%	33 45.2%	14 36.8%	26 44.8%	42 34.7%	9 42.9%	20 38.5%	8 34.8%	11 50.0%	8 40.0%
KEEP HEATING SYSTEM SERVICED REGULARLY, MORE SO THAN BEFORE PARTICIPATING IN THE RRAP PROGRAM	70 33.2%	33 39.3%	37 29.1%	23 44.2%	16 27.1%	31 31.6%	16 27.6%	32 40.0%	22 31.9%	8 20.5%	28 38.4%	18 47.4%	22 37.9%	36 29.8%	9 42.9%	21 40.4%	8 34.8%	8 36.4%	11 55.0%
NONE ABOVE/DK/NS	56 26.5%	21 25.0%	35 27.6%	10 19.2%	16 27.1%	29 29.6%	16 27.6%	18 22.5%	20 29.0%	11 28.2%	16 21.9%	7 18.4%	11 19.0%	36 29.8%	4 19.0%	14 26.9%	7 30.4%	4 18.2%	4 20.0%

Table 6-3

Q.5 - INFLUENCE OF RRAP PROGRAM ON ENERGY SAVING ACTIVITIES AND AWARENESS
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE DET- ACHED		OTHER	30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
MORE AWARE OF ENERGY CONSERVATION THAN BEFORE THE RRAP PROGRAM	121 57.3%	105 56.1%	10 55.6%	37 71.2%	36 60.0%	40 54.1%	21 60.0%	24 61.5%	19 63.3%	38 57.6%	29 59.2%	52 55.3%	47 56.0%	16 64.0%	26 65.0%	13 40.6%
KEEP THE SETTING ON HEATING/ COOLING SYSTEM LOWER/ HIGHER THAN BEFORE THE RRAP PROGRAM	82 38.9%	74 39.6%	6 33.3%	20 38.5%	25 41.7%	26 35.1%	13 37.1%	18 46.2%	13 43.3%	24 36.4%	24 49.0%	33 35.1%	35 41.7%	11 44.0%	16 40.0%	10 31.3%
TURN THERMOSTAT DOWN AT NIGHT IN THE WINTER MORE OFTEN THAN BEFORE THE RRAP PROGRAM	81 38.4%	69 36.9%	9 50.0%	20 38.5%	25 41.7%	29 39.2%	14 40.0%	14 35.9%	12 40.0%	25 37.9%	17 34.7%	38 40.4%	33 39.3%	13 52.0%	17 42.5%	7 21.9%
KEEP HEATING SYSTEM SERVICED REGULARLY, MORE SO THAN BEFORE PARTICIPATING IN THE RRAP PROGRAM	70 33.2%	66 35.3%	3 16.7%	16 30.8%	19 31.7%	26 35.1%	13 37.1%	15 38.5%	12 40.0%	21 31.8%	17 34.7%	32 34.0%	27 32.1%	7 28.0%	19 47.5%	9 28.1%
NONE ABOVE/DK/NS	56 26.5%	52 27.8%	4 22.2%	13 25.0%	14 23.3%	19 25.7%	8 22.9%	6 15.4%	7 23.3%	20 30.3%	12 24.5%	24 25.5%	18 21.4%	7 28.0%	10 25.0%	13 40.6%

Table 7-1

Q.6 - INFLUENCE OF RRAP PROGRAM ACTIVITY ON EFFICIENCY OF HOUSE
BASED ON TOTAL INTERVIEWED

	WORK DONE THROUGH RRAP PROGRAM																						
	=====																						
	ROOF/ CHIM. RE- PAIR	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH -ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT -TION	EXTER -IOR HOME/ WALLS	WATER /WELL FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR		
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
(NET) MORE ENERGY EFFICIENT	165 78.2%	82 77.4%	92 80.7%	34 79.1%	29 72.5%	37 90.2%	19 76.0%	23 79.3%	24 85.7%	24 92.3%	11 78.6%	22 81.5%	15 88.2%	32 91.4%	10 100%	7 58.3%	13 72.2%	7 70.0%	10 83.3%	9 81.8%	5 55.6%	4 100%	2 100.0%
- (5X) MUCH MORE EFFICIENT	107 50.7%	52 49.1%	66 57.9%	16 37.2%	25 62.5%	29 70.7%	12 48.0%	15 51.7%	15 53.6%	16 61.5%	7 50.0%	16 59.3%	11 64.7%	23 65.7%	7 70.0%	5 41.7%	7 38.9%	3 30.0%	7 58.3%	6 54.5%	2 22.2%	3 75.0%	1 50.0%
- (4X) SLIGHTLY MORE EFFICIENT	58 27.5%	30 28.3%	26 22.8%	18 41.9%	4 10.0%	8 19.5%	7 28.0%	8 27.6%	9 32.1%	8 30.8%	4 28.6%	6 22.2%	4 23.5%	9 25.7%	3 30.0%	2 16.7%	6 33.3%	4 40.0%	3 25.0%	3 27.3%	3 33.3%	1 25.0%	1 50.0%
(3X) ABOUT THE SAME	35 16.6%	17 16.0%	18 15.8%	5 11.6%	9 22.5%	4 9.8%	4 16.0%	4 13.8%	4 14.3%	2 7.7%	3 21.4%	4 14.8%	2 11.8%	2 5.7%	- 25.0%	3 27.8%	5 30.0%	3 30.0%	2 16.7%	1 9.1%	4 44.4%	-	-
(NET) LESS ENERGY EFFICIENT	2 .9%	2 1.9%	-	1 2.3%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
- (2X) SLIGHTLY LESS ENERGY EFFICIENT	2 .9%	2 1.9%	-	1 2.3%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
- (1X) MUCH LESS ENERGY EFFICIENT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DK/NS	9 4.3%	5 4.7%	4 3.5%	3 7.0%	2 5.0%	-	2 8.0%	2 6.9%	-	-	-	1 3.7%	-	1 2.9%	-	2 16.7%	-	-	-	1 9.1%	-	-	-
MEAN	4.34	4.31	4.44	4.23	4.42	4.61	4.35	4.41	4.39	4.54	4.29	4.46	4.53	4.62	4.70	4.20	4.11	4.00	4.42	4.50	3.78	4.75	4.50
STD DEV	.79	.82	.76	.76	.85	.66	.76	.73	.72	.63	.80	.75	.70	.59	.46	.87	.81	.77	.76	.67	.79	.43	.50
STD ERR	.06	.08	.07	.12	.14	.10	.16	.14	.14	.12	.21	.15	.17	.10	.14	.28	.19	.24	.22	.21	.26	.22	.35

Table 7-2

Q.6 - INFLUENCE OF RRAP PROGRAM ACTIVITY ON EFFICIENCY OF HOUSE
BASED ON TOTAL INTERVIEWED

	GENDER		RESPONDENT'S AGE				HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UNEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
(NET) MORE ENERGY EFFICIENT	165	68	97	44	48	72	40	70	53	29	61	34	45	96	16	43	19	17	18
	78.2%	81.0%	76.4%	84.6%	81.4%	73.5%	69.0%	87.5%	76.8%	74.4%	83.6%	89.5%	77.6%	79.3%	76.2%	82.7%	82.6%	77.3%	90.0%
- (5X) MUCH MORE EFFICIENT	107	44	63	29	34	43	26	46	34	21	39	22	28	62	12	29	12	11	13
	50.7%	52.4%	49.6%	55.8%	57.6%	43.9%	44.8%	57.5%	49.3%	53.8%	53.4%	57.9%	48.3%	51.2%	57.1%	55.8%	52.2%	50.0%	65.0%
- (4X) SLIGHTLY MORE EFFICIENT	58	24	34	15	14	29	14	24	19	8	22	12	17	34	4	14	7	6	5
	27.5%	28.6%	26.8%	28.8%	23.7%	29.6%	24.1%	30.0%	27.5%	20.5%	30.1%	31.6%	29.3%	28.1%	19.0%	26.9%	30.4%	27.3%	25.0%
(3X) ABOUT THE SAME	35	13	22	6	9	19	13	9	12	10	8	4	10	17	5	8	3	5	2
	16.6%	15.5%	17.3%	11.5%	15.3%	19.4%	22.4%	11.3%	17.4%	25.6%	11.0%	10.5%	17.2%	14.0%	23.8%	15.4%	13.0%	22.7%	10.0%
(NET) LESS ENERGY EFFICIENT	2	1	1	-	1	1	1	1	-	-	1	-	1	1	-	-	-	-	-
	.9%	1.2%	.8%		1.7%	1.0%	1.7%	1.3%			1.4%		1.7%	.8%					
- (2X) SLIGHTLY LESS ENERGY EFFICIENT	2	1	1	-	1	1	1	1	-	-	1	-	1	1	-	-	-	-	-
	.9%	1.2%	.8%		1.7%	1.0%	1.7%	1.3%			1.4%		1.7%	.8%					
- (1X) MUCH LESS ENERGY EFFICIENT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DK/NS	9	2	7	2	1	6	4	-	4	-	3	-	2	7	-	1	1	-	-
	4.3%	2.4%	5.5%	3.8%	1.7%	6.1%	6.9%		5.8%		4.1%		3.4%	5.8%		1.9%	4.3%		
MEAN	4.34	4.35	4.33	4.46	4.40	4.24	4.20	4.44	4.34	4.28	4.41	4.47	4.29	4.38	4.33	4.41	4.41	4.27	4.55
STD DEV	.79	.79	.80	.70	.81	.81	.87	.74	.77	.85	.75	.68	.82	.77	.84	.75	.72	.81	.67
STD ERR	.06	.09	.07	.10	.11	.08	.12	.08	.10	.14	.09	.11	.11	.07	.18	.10	.15	.17	.15

Table 7-3

Q.6 - INFLUENCE OF RRAP PROGRAM ACTIVITY ON EFFICIENCY OF HOUSE
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE DET- ACHED	OTHER		30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
(NET) MORE ENERGY EFFICIENT	165 78.2%	146 78.1%	15 83.3%	38 73.1%	49 81.7%	60 81.1%	25 71.4%	31 79.5%	24 80.0%	50 75.8%	39 79.6%	75 79.8%	69 82.1%	14 56.0%	35 87.5%	24 75.0%
- (5X) MUCH MORE EFFICIENT	107 50.7%	97 51.9%	8 44.4%	22 42.3%	34 56.7%	38 51.4%	15 42.9%	20 51.3%	15 50.0%	32 48.5%	30 61.2%	44 46.8%	45 53.6%	10 40.0%	19 47.5%	15 46.9%
- (4X) SLIGHTLY MORE EFFICIENT	58 27.5%	49 26.2%	7 38.9%	16 30.8%	15 25.0%	22 29.7%	10 28.6%	11 28.2%	9 30.0%	18 27.3%	9 18.4%	31 33.0%	24 28.6%	4 16.0%	16 40.0%	9 28.1%
(3X) ABOUT THE SAME	35 16.6%	32 17.1%	1 5.6%	11 21.2%	10 16.7%	9 12.2%	9 25.7%	6 15.4%	4 13.3%	15 22.7%	7 14.3%	12 12.8%	9 10.7%	9 36.0%	3 7.5%	8 25.0%
(NET) LESS ENERGY EFFICIENT	2 .9%	2 1.1%	-	1 1.9%	-	1 1.4%	-	-	-	-	1 2.0%	1 1.1%	1 1.2%	-	1 2.5%	-
- (2X) SLIGHTLY LESS ENERGY EFFICIENT	2 .9%	2 1.1%	-	1 1.9%	-	1 1.4%	-	-	-	-	1 2.0%	1 1.1%	1 1.2%	-	1 2.5%	-
- (1X) MUCH LESS ENERGY EFFICIENT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DK/NS	9 4.3%	7 3.7%	2 11.1%	2 3.8%	1 1.7%	4 5.4%	1 2.9%	2 5.1%	2 6.7%	1 1.5%	2 4.1%	6 6.4%	5 6.0%	2 8.0%	1 2.5%	-
MEAN	4.34	4.34	4.44	4.18	4.41	4.39	4.18	4.38	4.39	4.26	4.45	4.34	4.43	4.04	4.36	4.22
STD DEV	.79	.80	.61	.84	.76	.76	.82	.75	.72	.81	.82	.75	.74	.91	.73	.82
STD ERR	.06	.06	.15	.12	.10	.09	.14	.12	.14	.10	.12	.08	.08	.19	.12	.14

Table 8-1

Q.7 - EFFECT OF RRAP PROGRAM ON ENERGY USE
BASED ON TOTAL INTERVIEWED

	WORK DONE THROUGH RRAP PROGRAM																						
	ROOF/ CHIM. RE- PAIR	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- SYS- TEM	SID- ING	WEATH -ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT -TION	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
(NET) LESS ENERGY THAN BEFORE	138 65.4%	68 64.2%	77 67.5%	28 65.1%	28 70.0%	29 70.7%	17 68.0%	21 72.4%	23 82.1%	21 80.8%	9 64.3%	18 66.7%	11 64.7%	28 80.0%	7 70.0%	6 50.0%	10 55.6%	4 40.0%	9 75.0%	9 81.8%	4 44.4%	4 100%	2 100.0%
- (5X) MUCH LESS ENERGY THAN BEFORE	61 28.9%	33 31.1%	34 29.8%	9 20.9%	16 40.0%	14 34.1%	6 24.0%	10 34.5%	9 32.1%	12 46.2%	5 35.7%	7 25.9%	7 41.2%	14 40.0%	5 50.0%	3 25.0%	4 22.2%	1 10.0%	5 41.7%	4 36.4%	2 22.2%	2 50.0%	1 50.0%
- (4X) SLIGHTLY LESS ENERGY THAN BEFORE	77 36.5%	35 33.0%	43 37.7%	19 44.2%	12 30.0%	15 36.6%	11 44.0%	11 37.9%	14 50.0%	9 34.6%	4 28.6%	11 40.7%	4 23.5%	14 40.0%	2 20.0%	3 25.0%	6 33.3%	3 30.0%	4 33.3%	5 45.5%	2 22.2%	2 50.0%	1 50.0%
(3X) ABOUT THE SAME AS BEFORE	51 24.2%	29 27.4%	25 21.9%	10 23.3%	10 25.0%	6 14.6%	4 16.0%	5 17.2%	2 7.1%	3 11.5%	5 35.7%	8 29.6%	4 23.5%	2 5.7%	2 20.0%	5 41.7%	7 38.9%	4 40.0%	1 8.3%	2 18.2%	5 55.6%	-	-
(NET) MORE ENERGY THAN BEFORE	10 4.7%	3 2.8%	6 5.3%	-	-	4 9.8%	1 4.0%	1 3.4%	3 10.7%	1 3.8%	-	-	2 11.8%	1 2.9%	-	-	1 5.6%	1 10.0%	1 8.3%	-	-	-	-
- (2X) SLIGHTLY MORE ENERGY THAN BEFORE	7 3.3%	2 1.9%	4 3.5%	-	-	2 4.9%	1 4.0%	1 3.4%	2 7.1%	-	-	-	1 5.9%	-	-	-	-	1 10.0%	1 8.3%	-	-	-	-
- (1X) MUCH MORE ENERGY THAN BEFORE	3 1.4%	1 .9%	2 1.8%	-	-	2 4.9%	-	-	1 3.6%	1 3.8%	-	-	1 5.9%	1 2.9%	-	-	1 5.6%	-	-	-	-	-	-
DK/NS	12 5.7%	6 5.7%	6 5.3%	5 11.6%	2 5.0%	2 4.9%	3 12.0%	2 6.9%	-	1 3.8%	-	1 3.7%	-	4 11.4%	1 10.0%	1 8.3%	-	1 10.0%	1 8.3%	-	-	-	-
MEAN	3.93	3.97	3.95	3.97	4.16	3.95	4.00	4.11	4.00	4.24	4.00	3.96	3.88	4.29	4.33	3.82	3.67	3.44	4.18	4.18	3.67	4.50	4.50
STD DEV	.91	.89	.93	.71	.81	1.08	.80	.83	1.00	.95	.85	.76	1.18	.85	.82	.83	1.00	.83	.94	.72	.82	.50	.50
STD ERR	.06	.09	.09	.11	.13	.17	.17	.16	.19	.19	.23	.15	.29	.15	.27	.25	.24	.28	.28	.22	.27	.25	.35

Table 8-2

Q.7 - EFFECT OF RRAP PROGRAM ON ENERGY USE
BASED ON TOTAL INTERVIEWED

	GENDER			RESPONDENT'S AGE			HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
(NET) LESS ENERGY THAN BEFORE	138 65.4%	56 66.7%	82 64.6%	37 71.2%	41 69.5%	59 60.2%	36 62.1%	55 68.8%	46 66.7%	23 59.0%	53 72.6%	27 71.1%	37 63.8%	83 68.6%	15 71.4%	36 69.2%	16 69.6%	15 68.2%	14 70.0%
- (5X) MUCH LESS ENERGY THAN BEFORE	61 28.9%	30 35.7%	31 24.4%	14 26.9%	21 35.6%	25 25.5%	15 25.9%	24 30.0%	21 30.4%	10 25.6%	25 34.2%	11 28.9%	17 29.3%	38 31.4%	5 23.8%	13 25.0%	5 21.7%	4 18.2%	6 30.0%
- (4X) SLIGHTLY LESS ENERGY THAN BEFORE	77 36.5%	26 31.0%	51 40.2%	23 44.2%	20 33.9%	34 34.7%	21 36.2%	31 38.8%	25 36.2%	13 33.3%	28 38.4%	16 42.1%	20 34.5%	45 37.2%	10 47.6%	23 44.2%	11 47.8%	11 50.0%	8 40.0%
(3X) ABOUT THE SAME AS BEFORE	51 24.2%	22 26.2%	29 22.8%	8 15.4%	12 20.3%	30 30.6%	14 24.1%	20 25.0%	15 21.7%	12 30.8%	13 17.8%	6 15.8%	13 22.4%	27 22.3%	4 19.0%	8 15.4%	2 8.7%	3 13.6%	4 20.0%
(NET) MORE ENERGY THAN BEFORE	10 4.7%	3 3.6%	7 5.5%	3 5.8%	3 5.1%	4 4.1%	4 6.9%	2 2.5%	4 5.8%	3 7.7%	4 5.5%	1 2.6%	3 5.2%	5 4.1%	2 9.5%	4 7.7%	2 8.7%	2 9.1%	1 5.0%
- (2X) SLIGHTLY MORE ENERGY THAN BEFORE	7 3.3%	1 1.2%	6 4.7%	1 1.9%	2 3.4%	4 4.1%	4 6.9%	2 2.5%	1 1.4%	2 5.1%	3 4.1%	-	1 1.7%	4 3.3%	2 9.5%	1 1.9%	1 4.3%	1 4.5%	-
- (1X) MUCH MORE ENERGY THAN BEFORE	3 1.4%	2 2.4%	1 .8%	2 3.8%	1 1.7%	-	-	-	3 4.3%	1 2.6%	1 1.4%	1 2.6%	2 3.4%	1 .8%	-	3 5.8%	1 4.3%	1 4.5%	1 5.0%
DK/NS	12 5.7%	3 3.6%	9 7.1%	4 7.7%	3 5.1%	5 5.1%	4 6.9%	3 3.8%	4 5.8%	1 2.6%	3 4.1%	4 10.5%	5 8.6%	6 5.0%	-	4 7.7%	3 13.0%	2 9.1%	1 5.0%
MEAN	3.93	4.00	3.89	3.96	4.04	3.86	3.87	4.00	3.92	3.76	4.04	4.06	3.92	4.00	3.86	3.88	3.90	3.80	3.95
STD DEV	.91	.96	.88	.96	.94	.86	.90	.82	1.01	.98	.92	.87	.99	.88	.89	1.03	.99	.98	1.00
STD ERR	.06	.11	.08	.14	.13	.09	.12	.09	.13	.16	.11	.15	.14	.08	.19	.15	.22	.22	.23

Table 8-3

Q.7 - EFFECT OF RRAP PROGRAM ON ENERGY USE
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE DET- ACHED	OTHER		30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
(NET) LESS ENERGY THAN BEFORE	138 65.4%	120 64.2%	15 83.3%	28 53.8%	43 71.7%	55 74.3%	22 62.9%	27 69.2%	18 60.0%	43 65.2%	33 67.3%	62 66.0%	60 71.4%	7 28.0%	29 72.5%	22 68.8%
- (5X) MUCH LESS ENERGY THAN BEFORE	61 28.9%	55 29.4%	4 22.2%	13 25.0%	18 30.0%	23 31.1%	9 25.7%	10 25.6%	11 36.7%	20 30.3%	14 28.6%	27 28.7%	28 33.3%	4 16.0%	8 20.0%	10 31.3%
- (4X) SLIGHTLY LESS ENERGY THAN BEFORE	77 36.5%	65 34.8%	11 61.1%	15 28.8%	25 41.7%	32 43.2%	13 37.1%	17 43.6%	7 23.3%	23 34.8%	19 38.8%	35 37.2%	32 38.1%	3 12.0%	21 52.5%	12 37.5%
(3X) ABOUT THE SAME AS BEFORE	51 24.2%	45 24.1%	3 16.7%	19 36.5%	11 18.3%	12 16.2%	11 31.4%	9 23.1%	5 16.7%	19 28.8%	12 24.5%	19 20.2%	16 19.0%	11 44.0%	9 22.5%	8 25.0%
(NET) MORE ENERGY THAN BEFORE	10 4.7%	10 5.3%	-	4 7.7%	4 6.7%	1 1.4%	-	-	4 13.3%	3 4.5%	1 2.0%	6 6.4%	4 4.8%	5 20.0%	-	1 3.1%
- (2X) SLIGHTLY MORE ENERGY THAN BEFORE	7 3.3%	7 3.7%	-	2 3.8%	4 6.7%	-	-	-	2 6.7%	1 1.5%	1 2.0%	5 5.3%	3 3.6%	4 16.0%	-	-
- (1X) MUCH MORE ENERGY THAN BEFORE	3 1.4%	3 1.6%	-	2 3.8%	-	1 1.4%	-	-	2 6.7%	2 3.0%	-	1 1.1%	1 1.2%	1 4.0%	-	1 3.1%
DK/NS	12 5.7%	12 6.4%	-	1 1.9%	2 3.3%	6 8.1%	2 5.7%	3 7.7%	3 10.0%	1 1.5%	3 6.1%	7 7.4%	4 4.8%	2 8.0%	2 5.0%	1 3.1%
MEAN	3.93	3.93	4.06	3.69	3.98	4.12	3.94	4.03	3.85	3.89	4.00	3.94	4.04	3.22	3.97	3.97
STD DEV	.91	.94	.62	1.02	.88	.80	.78	.73	1.24	.96	.81	.93	.90	1.06	.67	.93
STD ERR	.06	.07	.15	.14	.12	.10	.14	.12	.24	.12	.12	.10	.10	.22	.11	.17

Table 9-1
Q.8 - EFFECT OF PROGRAM ON SAVINGS ON ENERGY BILL
BASED ON TOTAL INTERVIEWED

	WORK DONE THROUGH RRAP PROGRAM																						
	ROOF/ CHIM- RE- TOTAL	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH -ER STRIP -PING	BATH ROOM	FOUN- DA- TION	INTER -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT -ILA -TION	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
SAVED MONEY	149 70.6%	75 70.8%	88 77.2%	26 60.5%	27 67.5%	34 82.9%	20 80.0%	23 79.3%	24 85.7%	19 73.1%	10 71.4%	22 81.5%	13 76.5%	30 85.7%	8 80.0%	7 58.3%	12 66.7%	5 50.0%	9 75.0%	9 81.8%	4 44.4%	3 75.0%	2 100.0%
- A LOT OF MONEY ON YOUR ENERGY BILL	47 22.3%	23 21.7%	28 24.6%	5 11.6%	10 25.0%	8 19.5%	6 24.0%	7 24.1%	10 35.7%	8 30.8%	4 28.6%	9 33.3%	7 41.2%	13 37.1%	4 40.0%	3 25.0%	3 16.7%	1 10.0%	2 16.7%	3 27.3%	2 22.2%	1 25.0%	1 50.0%
- A LITTLE MONEY ON YOUR ENERGY BILL	102 48.3%	52 49.1%	60 52.6%	21 48.8%	17 42.5%	26 63.4%	14 56.0%	16 55.2%	14 50.0%	11 42.3%	6 42.9%	13 48.1%	6 35.3%	17 48.6%	4 40.0%	4 33.3%	9 50.0%	4 40.0%	7 58.3%	6 54.5%	2 22.2%	2 50.0%	1 50.0%
NO MONEY AT ALL ON YOUR ENERGY BILL	47 22.3%	24 22.6%	18 15.8%	9 20.9%	10 25.0%	5 12.2%	3 12.0%	4 13.8%	4 14.3%	2 7.7%	2 14.3%	3 11.1%	4 23.5%	4 11.4%	1 10.0%	3 25.0%	4 22.2%	3 30.0%	2 16.7%	1 9.1%	3 33.3%	-	-
DK/NS	15 7.1%	7 6.6%	8 7.0%	8 18.6%	3 7.5%	2 4.9%	2 8.0%	2 6.9%	-	5 19.2%	2 14.3%	2 7.4%	-	1 2.9%	1 10.0%	2 16.7%	2 11.1%	2 20.0%	1 8.3%	1 9.1%	2 22.2%	1 25.0%	-

Table 9-2

Q.8 - EFFECT OF PROGRAM ON SAVINGS ON ENERGY BILL
BASED ON TOTAL INTERVIEWED

	GENDER		RESPONDENT'S AGE				HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
SAVED MONEY	149	62	87	42	46	60	40	57	52	26	57	30	45	84	16	43	19	18	18
	70.6%	73.8%	68.5%	80.8%	78.0%	61.2%	69.0%	71.3%	75.4%	66.7%	78.1%	78.9%	77.6%	69.4%	76.2%	82.7%	82.6%	81.8%	90.0%
- A LOT OF MONEY ON YOUR ENERGY BILL	47	21	26	14	15	17	8	21	18	7	18	7	14	25	8	16	5	7	9
	22.3%	25.0%	20.5%	26.9%	25.4%	17.3%	13.8%	26.3%	26.1%	17.9%	24.7%	18.4%	24.1%	20.7%	38.1%	30.8%	21.7%	31.8%	45.0%
- A LITTLE MONEY ON YOUR ENERGY BILL	102	41	61	28	31	43	32	36	34	19	39	23	31	59	8	27	14	11	9
	48.3%	48.8%	48.0%	53.8%	52.5%	43.9%	55.2%	45.0%	49.3%	48.7%	53.4%	60.5%	53.4%	48.8%	38.1%	51.9%	60.9%	50.0%	45.0%
NO MONEY AT ALL ON YOUR ENERGY BILL	47	16	31	5	11	30	18	15	11	11	12	5	9	29	3	4	2	1	-
	22.3%	19.0%	24.4%	9.6%	18.6%	30.6%	31.0%	18.8%	15.9%	28.2%	16.4%	13.2%	15.5%	24.0%	14.3%	7.7%	8.7%	4.5%	
DK/NS	15	6	9	5	2	8	-	8	6	2	4	3	4	8	2	5	2	3	2
	7.1%	7.1%	7.1%	9.6%	3.4%	8.2%		10.0%	8.7%	5.1%	5.5%	7.9%	6.9%	6.6%	9.5%	9.6%	8.7%	13.6%	10.0%

Table 9-3
Q.8 - EFFECT OF PROGRAM ON SAVINGS ON ENERGY BILL
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE DET- TOTAL	ACHED	OTHER	30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
SAVED MONEY	149 70.6%	131 70.1%	16 88.9%	34 65.4%	47 78.3%	53 71.6%	28 80.0%	29 74.4%	19 63.3%	44 66.7%	36 73.5%	69 73.4%	61 72.6%	17 68.0%	28 70.0%	23 71.9%
- A LOT OF MONEY ON YOUR ENERGY BILL	47 22.3%	45 24.1%	1 5.6%	12 23.1%	14 23.3%	16 21.6%	10 28.6%	9 23.1%	8 26.7%	15 22.7%	11 22.4%	21 22.3%	22 26.2%	6 24.0%	6 15.0%	8 25.0%
- A LITTLE MONEY ON YOUR ENERGY BILL	102 48.3%	86 46.0%	15 83.3%	22 42.3%	33 55.0%	37 50.0%	18 51.4%	20 51.3%	11 36.7%	29 43.9%	25 51.0%	48 51.1%	39 46.4%	11 44.0%	22 55.0%	15 46.9%
NO MONEY AT ALL ON YOUR ENERGY BILL	47 22.3%	41 21.9%	2 11.1%	16 30.8%	8 13.3%	15 20.3%	6 17.1%	6 15.4%	9 30.0%	18 27.3%	9 18.4%	19 20.2%	16 19.0%	6 24.0%	9 22.5%	7 21.9%
DK/NS	15 7.1%	15 8.0%	-	2 3.8%	5 8.3%	6 8.1%	1 2.9%	4 10.3%	2 6.7%	4 6.1%	4 8.2%	6 6.4%	7 8.3%	2 8.0%	3 7.5%	2 6.3%

Table 10-1

Q.9/10 - KEEP RECORDS OF ENERGY BILLS/ BEFORE OR AFTER WORK DONE UNDER RRAP
BASED ON TOTAL INTERVIEWED

	WORK DONE THROUGH RRAP PROGRAM																						
	ROOF/ CHIM. RE- TOTAL	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH -ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT -ILA	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
YES, KEEP ENERGY BILL	165 78.2%	82 77.4%	89 78.1%	34 79.1%	34 85.0%	34 82.9%	23 92.0%	22 75.9%	20 71.4%	23 88.5%	11 78.6%	21 77.8%	15 88.2%	27 77.1%	8 80.0%	8 66.7%	13 72.2%	8 80.0%	8 66.7%	10 90.9%	6 66.7%	2 50.0%	2 100.0%
- BEFORE RRAP ONLY	6 2.8%	2 1.9%	2 1.8%	-	3 7.5%	1 2.4%	2 8.0%	1 3.4%	1 3.6%	3 11.5%	-	-	-	1 2.9%	-	-	-	-	2 16.7%	-	-	-	-
- AFTER RRAP ONLY	53 25.1%	20 18.9%	37 32.5%	9 20.9%	12 30.0%	12 29.3%	10 40.0%	5 17.2%	5 17.9%	10 38.5%	4 28.6%	8 29.6%	4 23.5%	6 17.1%	3 30.0%	1 8.3%	2 11.1%	3 30.0%	2 16.7%	2 18.2%	2 22.2%	1 25.0%	-
- BEFORE AND AFTER RRAP	81 38.4%	44 41.5%	39 34.2%	19 44.2%	15 37.5%	18 43.9%	7 28.0%	16 55.2%	10 35.7%	8 30.8%	5 35.7%	11 40.7%	9 52.9%	18 51.4%	4 40.0%	5 41.7%	10 55.6%	3 30.0%	2 16.7%	5 45.5%	2 22.2%	1 25.0%	2 100.0%
- DK/NS	25 11.8%	16 15.1%	11 9.6%	6 14.0%	4 10.0%	3 7.3%	4 16.0%	-	4 14.3%	2 7.7%	2 14.3%	2 7.4%	2 11.8%	2 5.7%	1 10.0%	2 16.7%	1 5.6%	2 20.0%	2 16.7%	3 27.3%	2 22.2%	-	-
NO, DO NOT KEEP ENERGY BILL	40 19.0%	22 20.8%	23 20.2%	7 16.3%	5 12.5%	7 17.1%	2 8.0%	6 20.7%	8 28.6%	2 7.7%	2 14.3%	6 22.2%	2 11.8%	8 22.9%	2 20.0%	3 25.0%	2 11.1%	1 10.0%	4 33.3%	1 9.1%	1 11.1%	2 50.0%	-
DK/NS	6 2.8%	2 1.9%	2 1.8%	2 4.7%	1 2.5%	-	-	1 3.4%	-	1 3.8%	1 7.1%	-	-	-	-	1 8.3%	3 16.7%	1 10.0%	-	-	2 22.2%	-	-

Table 10-2

Q.9/10 - KEEP RECORDS OF ENERGY BILLS/ BEFORE OR AFTER WORK DONE UNDER RRAP
BASED ON TOTAL INTERVIEWED

	GENDER			RESPONDENT'S AGE			HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE-MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
YES, KEEP ENERGY BILL	165	63	102	44	47	72	46	60	56	28	58	33	46	92	17	45	19	18	18
	78.2%	75.0%	80.3%	84.6%	79.7%	73.5%	79.3%	75.0%	81.2%	71.8%	79.5%	86.8%	79.3%	76.0%	81.0%	86.5%	82.6%	81.8%	90.0%
- BEFORE RRAP ONLY	6	2	4	1	1	4	3	3	-	2	3	1	1	5	-	1	-	1	-
	2.8%	2.4%	3.1%	1.9%	1.7%	4.1%	5.2%	3.8%		5.1%	4.1%	2.6%	1.7%	4.1%		1.9%		4.5%	
- AFTER RRAP ONLY	53	17	36	10	17	24	14	23	14	10	12	8	12	31	6	13	-	6	8
	25.1%	20.2%	28.3%	19.2%	28.8%	24.5%	24.1%	28.8%	20.3%	25.6%	16.4%	21.1%	20.7%	25.6%	28.6%	25.0%		27.3%	40.0%
- BEFORE AND AFTER RRAP	81	34	47	28	23	30	22	22	36	10	36	20	27	39	11	28	17	10	10
	38.4%	40.5%	37.0%	53.8%	39.0%	30.6%	37.9%	27.5%	52.2%	25.6%	49.3%	52.6%	46.6%	32.2%	52.4%	53.8%	73.9%	45.5%	50.0%
- DK/NS	25	10	15	5	6	14	7	12	6	6	7	4	6	17	-	3	2	1	-
	11.8%	11.9%	11.8%	9.6%	10.2%	14.3%	12.1%	15.0%	8.7%	15.4%	9.6%	10.5%	10.3%	14.0%		5.8%	8.7%	4.5%	
NO, DO NOT KEEP ENERGY BILL	40	17	23	6	12	22	12	18	10	11	13	4	9	26	4	5	3	2	2
	19.0%	20.2%	18.1%	11.5%	20.3%	22.4%	20.7%	22.5%	14.5%	28.2%	17.8%	10.5%	15.5%	21.5%	19.0%	9.6%	13.0%	9.1%	10.0%
DK/NS	6	4	2	2	-	4	-	2	3	-	2	1	3	3	-	2	1	2	-
	2.8%	4.8%	1.6%	3.8%		4.1%		2.5%	4.3%		2.7%	2.6%	5.2%	2.5%		3.8%	4.3%	9.1%	

Table 10-3

Q.9/10 - KEEP RECORDS OF ENERGY BILLS/ BEFORE OR AFTER WORK DONE UNDER RRAP
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE DET- ACHED	OTHER		30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
YES, KEEP ENERGY BILL	165	145	15	41	45	56	23	33	26	48	42	73	67	20	31	23
	78.2%	77.5%	83.3%	78.8%	75.0%	75.7%	65.7%	84.6%	86.7%	72.7%	85.7%	77.7%	79.8%	80.0%	77.5%	71.9%
- BEFORE RRAP ONLY	6	5	1	1	2	3	1	1	-	-	3	3	3	1	1	-
	2.8%	2.7%	5.6%	1.9%	3.3%	4.1%	2.9%	2.6%			6.1%	3.2%	3.6%	4.0%	2.5%	
- AFTER RRAP ONLY	53	44	8	10	18	14	6	5	9	12	13	26	26	4	8	4
	25.1%	23.5%	44.4%	19.2%	30.0%	18.9%	17.1%	12.8%	30.0%	18.2%	26.5%	27.7%	31.0%	16.0%	20.0%	12.5%
- BEFORE AND AFTER RRAP	81	72	5	20	21	31	15	20	15	27	18	36	27	12	17	14
	38.4%	38.5%	27.8%	38.5%	35.0%	41.9%	42.9%	51.3%	50.0%	40.9%	36.7%	38.3%	32.1%	48.0%	42.5%	43.8%
- DK/NS	25	24	1	10	4	8	1	7	2	9	8	8	11	3	5	5
	11.8%	12.8%	5.6%	19.2%	6.7%	10.8%	2.9%	17.9%	6.7%	13.6%	16.3%	8.5%	13.1%	12.0%	12.5%	15.6%
NO, DO NOT KEEP ENERGY BILL	40	36	3	10	14	15	10	5	4	15	7	18	14	3	9	8
	19.0%	19.3%	16.7%	19.2%	23.3%	20.3%	28.6%	12.8%	13.3%	22.7%	14.3%	19.1%	16.7%	12.0%	22.5%	25.0%
DK/NS	6	6	-	1	1	3	2	1	-	3	-	3	3	2	-	1
	2.8%	3.2%		1.9%	1.7%	4.1%	5.7%	2.6%		4.5%		3.2%	3.6%	8.0%		3.1%

Table 11-1

Q.11 - POSSIBILITY OF BORROWING RECORDS TO CALCULATE SAVINGS
 BASED ON TOTAL WHO KEPT ENERGY BILLS

	WORK DONE THROUGH RRAP PROGRAM																						
	ROOF/ CHIM. RE-PAIR	WIND- OWS/ DOORS	ATTACH- STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH- -ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER- -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT- -TION	EXTER- -IOR HOME/ WALLS	WATER /WELL	FLOORS	SNOKE DETECTOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
	TOTAL	PAIR	DOORS	TURES	GRADE	TION	-ING	MENT	TEM	ING	-PING	ROOM	TION	WALLS	CHEN	-TION	WALLS	/WELL	FLOORS	-TOR	SEWAGE	WATER	REPAIR
TOTAL	165	82	89	34	34	34	23	22	20	23	11	21	15	27	8	8	13	8	8	10	6	2	2
YES	83	45	45	16	15	22	11	15	9	17	4	13	10	13	5	5	7	1	4	4	1	2	1
	50.3%	54.9%	50.6%	47.1%	44.1%	64.7%	47.8%	68.2%	45.0%	73.9%	36.4%	61.9%	66.7%	48.1%	62.5%	62.5%	53.8%	12.5%	50.0%	40.0%	16.7%	100%	50.0%
NO	48	24	24	11	12	6	8	6	7	5	5	4	4	6	2	3	4	4	3	5	4	-	1
	29.1%	29.3%	27.0%	32.4%	35.3%	17.6%	34.8%	27.3%	35.0%	21.7%	45.5%	19.0%	26.7%	22.2%	25.0%	37.5%	30.8%	50.0%	37.5%	50.0%	66.7%	-	50.0%
DK/NS	34	13	20	7	7	6	4	1	4	1	2	4	1	8	1	-	2	3	1	1	1	-	-
	20.6%	15.9%	22.5%	20.6%	20.6%	17.6%	17.4%	4.5%	20.0%	4.3%	18.2%	19.0%	6.7%	29.6%	12.5%		15.4%	37.5%	12.5%	10.0%	16.7%		

Table 11-2

Q.11 - POSSIBILITY OF BORROWING RECORDS TO CALCULATE SAVINGS
BASED ON TOTAL WHO KEPT ENERGY BILLS

	GENDER		RESPONDENT'S AGE				HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	165	63	102	44	47	72	46	60	56	28	58	33	46	92	17	45	19	18	18
YES	83	34	49	32	24	27	16	28	37	15	31	19	29	37	13	33	16	13	10
	50.3%	54.0%	48.0%	72.7%	51.1%	37.5%	34.8%	46.7%	66.1%	53.6%	53.4%	57.6%	63.0%	40.2%	76.5%	73.3%	84.2%	72.2%	55.6%
NO	48	18	30	6	14	26	19	15	13	7	18	5	9	30	4	6	1	1	4
	29.1%	28.6%	29.4%	13.6%	29.8%	36.1%	41.3%	25.0%	23.2%	25.0%	31.0%	15.2%	19.6%	32.6%	23.5%	13.3%	5.3%	5.6%	22.2%
DK/NS	34	11	23	6	9	19	11	17	6	6	9	9	8	25	-	6	2	4	4
	20.6%	17.5%	22.5%	13.6%	19.1%	26.4%	23.9%	28.3%	10.7%	21.4%	15.5%	27.3%	17.4%	27.2%		13.3%	10.5%	22.2%	22.2%

Table 11-3

Q.11 - POSSIBILITY OF BORROWING RECORDS TO CALCULATE SAVINGS
BASED ON TOTAL WHO KEPT ENERGY BILLS

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE DET- ACHED	OTHER		30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER
TOTAL	165	145	15	41	45	56	23	33	26	48	42	73	67	20	31	23
YES	83	72	9	24	19	30	17	13	16	22	21	40	31	8	17	12
	50.3%	49.7%	60.0%	58.5%	42.2%	53.6%	73.9%	39.4%	61.5%	45.8%	50.0%	54.8%	46.3%	40.0%	54.8%	52.2%
NO	48	42	4	10	14	14	4	10	4	17	9	21	21	8	8	6
	29.1%	29.0%	26.7%	24.4%	31.1%	25.0%	17.4%	30.3%	15.4%	35.4%	21.4%	28.8%	31.3%	40.0%	25.8%	26.1%
DK/NS	34	31	2	7	12	12	2	10	6	9	12	12	15	4	6	5
	20.6%	21.4%	13.3%	17.1%	26.7%	21.4%	8.7%	30.3%	23.1%	18.8%	28.6%	16.4%	22.4%	20.0%	19.4%	21.7%

Table 12

Q.9/10 - KEEP RECORDS OF ENERGY BILLS/ BEFORE OR AFTER WORK DONE UNDER RRAP (BY POSSIBILITY OF BORROWING RECORDS)
BASED ON TOTAL INTERVIEWED

	POSSIBLE TO BORROW RECORDS				NOT KEPT RECORDS
	TOTAL	YES	NO	DK/NS	
TOTAL	211	83	48	34	46
YES, KEEP ENERGY BILL	165 78.2%	83 100.0%	48 100.0%	34 100.0%	-
- BEFORE RRAP ONLY	6 2.8%	3 3.6%	3 6.3%	-	-
- AFTER RRAP ONLY	53 25.1%	28 33.7%	13 27.1%	12 35.3%	-
- BEFORE AND AFTER RRAP	81 38.4%	48 57.8%	21 43.8%	12 35.3%	-
- DK/NS	25 11.8%	4 4.8%	11 22.9%	10 29.4%	-
NO, DO NOT KEEP ENERGY BILL	40 19.0%	-	-	-	40 87.0%
DK/NS	6 2.8%	-	-	-	6 13.0%

Table 13-1

Q.12 - PERMISSION TO SPEAK TO LOCAL UTILITY/OIL DEALER TO OBTAIN RECORDS
BASED ON TOTAL INTERVIEWED

	WORK DONE THROUGH RRAP PROGRAM																						
	=====																						
	ROOF/ CHIM. RE-PAIR	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH -ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER- -IOR HOME/ KIT- CHEN	VENTS /VENT- -TION	EXTER -IOR WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR			
	TOTAL	PAIR	DOORS	TURES	GRADE	TION	-ING	MENT	TEM	ING	-PING	ROOM	TION	WALLS	KIT- CHEN	-ILA -TION	HOME/ WALLS	/WELL	FLOORS	-TOR	SEWAGE	WATER	REPAIR
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
YES	170	86	94	35	33	36	22	25	24	22	12	24	13	28	10	12	16	5	9	9	6	3	2
	80.6%	81.1%	82.5%	81.4%	82.5%	87.8%	88.0%	86.2%	85.7%	84.6%	85.7%	88.9%	76.5%	80.0%	100%	100%	88.9%	50.0%	75.0%	81.8%	66.7%	75.0%	100.0%
NO	28	11	15	5	6	4	1	4	3	4	2	2	3	5	-	-	1	2	2	1	-	-	-
	13.3%	10.4%	13.2%	11.6%	15.0%	9.8%	4.0%	13.8%	10.7%	15.4%	14.3%	7.4%	17.6%	14.3%			5.6%	20.0%	16.7%	9.1%			
DK/NS	13	9	5	3	1	1	2	-	1	-	-	1	1	2	-	-	1	3	1	1	3	1	-
	6.2%	8.5%	4.4%	7.0%	2.5%	2.4%	8.0%		3.6%			3.7%	5.9%	5.7%			5.6%	30.0%	8.3%	9.1%	33.3%	25.0%	

Table 13-2

Q.12 - PERMISSION TO SPEAK TO LOCAL UTILITY/OIL DEALER TO OBTAIN RECORDS
BASED ON TOTAL INTERVIEWED

	GENDER			RESPONDENT'S AGE			HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
YES	170	70	100	40	50	79	49	62	57	34	67	30	45	99	19	41	18	16	17
	80.6%	83.3%	78.7%	76.9%	84.7%	80.6%	84.5%	77.5%	82.6%	87.2%	91.8%	78.9%	77.6%	81.8%	90.5%	78.8%	78.3%	72.7%	85.0%
NO	28	6	22	8	5	14	7	11	8	5	1	6	10	14	1	8	3	4	2
	13.3%	7.1%	17.3%	15.4%	8.5%	14.3%	12.1%	13.8%	11.6%	12.8%	1.4%	15.8%	17.2%	11.6%	4.8%	15.4%	13.0%	18.2%	10.0%
DK/NS	13	8	5	4	4	5	2	7	4	-	5	2	3	8	1	3	2	2	1
	6.2%	9.5%	3.9%	7.7%	6.8%	5.1%	3.4%	8.8%	5.8%		6.8%	5.3%	5.2%	6.6%	4.8%	5.8%	8.7%	9.1%	5.0%

Table 13-3

Q.12 - PERMISSION TO SPEAK TO LOCAL UTILITY/OIL DEALER TO OBTAIN RECORDS
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE	DET-		30 YRS	OR	OVER	<1,000	1,000-	OVER					ELECT-		
TOTAL	ACHED	OTHER		LESS	YEARS	YEARS	SQ. FT.	1,500	1,500	RURAL	TOWN	CITY	GAS	RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
YES	170	150	16	36	50	64	30	27	24	51	39	79	70	19	37	22
	80.6%	80.2%	88.9%	69.2%	83.3%	86.5%	85.7%	69.2%	80.0%	77.3%	79.6%	84.0%	83.3%	76.0%	92.5%	68.8%
NO	28	25	2	12	6	6	3	5	6	9	6	12	10	5	2	5
	13.3%	13.4%	11.1%	23.1%	10.0%	8.1%	8.6%	12.8%	20.0%	13.6%	12.2%	12.8%	11.9%	20.0%	5.0%	15.6%
DK/NS	13	12	-	4	4	4	2	7	-	6	4	3	4	1	1	5
	6.2%	6.4%		7.7%	6.7%	5.4%	5.7%	17.9%		9.1%	8.2%	3.2%	4.8%	4.0%	2.5%	15.6%

Table 14

Q.11 - POSSIBILITY OF BORROWING RECORDS TO CALCULATE SAVINGS (BY PERMISSION TO SPEAK TO LOCAL UTILITY)
BASED ON TOTAL INTERVIEWED

	TOTAL	PERM. TO SPEAK TO UTILITY		
		YES	NO	DK/NS
TOTAL	211	170	28	13
YES	83 39.3%	77 45.3%	5 17.9%	1 7.7%
NO	48 22.7%	35 20.6%	11 39.3%	2 15.4%
DK/NS	34 16.1%	23 13.5%	5 17.9%	6 46.2%
DID NOT KEEP RECORDS	46 21.8%	35 20.6%	7 25.0%	4 30.8%

Table 15-1
Q.13 - AGE GROUP
BASED ON TOTAL INTERVIEWED

	WORK DONE THROUGH RRAP PROGRAM																						
	TOTAL	ROOF/ CHIM- RE- PAIR	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH -ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT -ILA -TION	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
UNDER 25	2 .9%	1 .9%	2 1.8%	1 2.3%	1 2.5%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25-29	4 1.9%	2 1.9%	-	-	-	-	1 4.0%	1 3.4%	1 3.6%	-	-	-	-	1 2.9%	1 10.0%	-	1 5.6%	-	-	-	-	1 25.0%	-
30-34	16 7.6%	9 8.5%	8 7.0%	4 9.3%	2 5.0%	9 22.0%	-	1 3.4%	2 7.1%	3 11.5%	2 14.3%	-	-	1 2.9%	-	2 16.7%	1 5.6%	-	1 8.3%	-	-	2 50.0%	-
35-39	11 5.2%	4 3.8%	9 7.9%	3 7.0%	2 5.0%	2 4.9%	-	-	1 3.6%	-	-	1 3.7%	1 5.9%	2 5.7%	1 10.0%	-	2 11.1%	1 10.0%	-	-	1 11.1%	-	-
40-44	19 9.0%	7 6.6%	13 11.4%	5 11.6%	4 10.0%	4 9.8%	2 8.0%	5 17.2%	1 3.6%	7 26.9%	1 7.1%	3 11.1%	1 5.9%	6 17.1%	1 10.0%	-	2 11.1%	2 20.0%	-	2 18.2%	-	-	-
45-49	11 5.2%	5 4.7%	6 5.3%	1 2.3%	4 10.0%	1 2.4%	1 4.0%	2 6.9%	1 3.6%	-	1 7.1%	1 3.7%	1 5.9%	-	-	1 8.3%	-	1 10.0%	-	2 18.2%	1 11.1%	-	-
50-54	12 5.7%	4 3.8%	6 5.3%	2 4.7%	1 2.5%	3 7.3%	6 24.0%	2 6.9%	2 7.1%	-	2 14.3%	1 3.7%	2 11.8%	2 5.7%	-	2 16.7%	-	1 10.0%	-	1 9.1%	2 22.2%	-	1 50.0%
55-59	13 6.2%	10 9.4%	7 6.1%	1 2.3%	5 12.5%	4 9.8%	5 20.0%	2 6.9%	2 7.1%	2 7.7%	-	5 18.5%	1 5.9%	3 8.6%	3 30.0%	1 8.3%	2 11.1%	1 10.0%	-	-	-	-	1 50.0%
60-64	23 10.9%	17 16.0%	9 7.9%	4 9.3%	5 12.5%	6 14.6%	1 4.0%	5 17.2%	2 7.1%	3 11.5%	1 7.1%	4 14.8%	2 11.8%	4 11.4%	1 10.0%	2 16.7%	2 11.1%	2 20.0%	4 33.3%	3 27.3%	1 11.1%	1 25.0%	-
65 OR OVER	98 46.4%	47 44.3%	52 45.6%	22 51.2%	16 40.0%	12 29.3%	8 32.0%	11 37.9%	16 57.1%	11 42.3%	7 50.0%	12 44.4%	9 52.9%	15 42.9%	3 30.0%	4 33.3%	8 44.4%	2 20.0%	7 58.3%	3 27.3%	3 33.3%	-	-
DK/NS	2 .9%	-	2 1.8%	-	-	-	1 4.0%	-	-	-	-	-	-	1 2.9%	-	-	-	-	-	-	1 11.1%	-	-

Table 15-2

Q.13 - AGE GROUP

BASED ON TOTAL INTERVIEWED

	GENDER		RESPONDENT'S AGE			HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN				
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
UNDER 25	2 .9%	1 1.2%	1 .8%	2 3.8%	-	-	1 1.7%	1 1.3%	-	-	1 1.4%	-	1 1.7%	1 .8%	-	-	-	-	-
25-29	4 1.9%	2 2.4%	2 1.6%	4 7.7%	-	-	1 1.7%	-	3 4.3%	-	2 2.7%	2 5.3%	2 3.4%	-	2 9.5%	3 5.8%	3 13.0%	-	-
30-34	16 7.6%	9 10.7%	7 5.5%	16 30.8%	-	-	1 1.7%	3 3.8%	12 17.4%	2 5.1%	4 5.5%	8 21.1%	12 20.7%	-	4 19.0%	13 25.0%	10 43.5%	6 27.3%	-
35-39	11 5.2%	4 4.8%	7 5.5%	11 21.2%	-	-	1 1.7%	-	10 14.5%	-	5 6.8%	4 10.5%	10 17.2%	-	1 4.8%	9 17.3%	5 21.7%	5 22.7%	5 25.0%
40-44	19 9.0%	8 9.5%	11 8.7%	19 36.5%	-	-	-	8 10.0%	11 15.9%	3 7.7%	6 8.2%	8 21.1%	10 17.2%	-	6 28.6%	15 28.8%	3 13.0%	5 22.7%	8 40.0%
45-49	11 5.2%	6 7.1%	5 3.9%	-	11 18.6%	-	1 1.7%	2 2.5%	8 11.6%	3 7.7%	4 5.5%	3 7.9%	6 10.3%	5 4.1%	-	2 3.8%	-	1 4.5%	2 10.0%
50-54	12 5.7%	7 8.3%	5 3.9%	-	12 20.3%	-	1 1.7%	4 5.0%	7 10.1%	-	4 5.5%	3 7.9%	8 13.8%	1 .8%	3 14.3%	3 5.8%	1 4.3%	3 13.6%	2 10.0%
55-59	13 6.2%	6 7.1%	7 5.5%	-	13 22.0%	-	4 6.9%	7 8.8%	2 2.9%	5 12.8%	3 4.1%	3 7.9%	3 5.2%	8 6.6%	1 4.8%	2 3.8%	-	-	2 10.0%
60-64	23 10.9%	8 9.5%	15 11.8%	-	23 39.0%	-	9 15.5%	10 12.5%	4 5.8%	9 23.1%	8 11.0%	1 2.6%	4 6.9%	16 13.2%	3 14.3%	-	-	-	-
65 OR OVER	98 46.4%	32 38.1%	66 52.0%	-	-	98 100%	39 67.2%	44 55.0%	12 17.4%	17 43.6%	36 49.3%	6 15.8%	2 3.4%	89 73.6%	1 4.8%	5 9.6%	1 4.3%	2 9.1%	1 5.0%
DK/NS	2 .9%	1 1.2%	1 .8%	-	-	-	-	1 1.3%	-	-	-	-	-	1 .8%	-	-	-	-	-

Table 15-3
Q.13 - AGE GROUP
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE DET- ACHED	OTHER		30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
UNDER 25	2 .9%	2 1.1%	-	1 1.9%	-	1 1.4%	-	-	-	-	2 4.1%	-	2 2.4%	-	-	-
25-29	4 1.9%	4 2.1%	-	1 1.9%	1 1.7%	2 2.7%	2 5.7%	1 2.6%	-	-	-	4 4.3%	-	-	2 5.0%	-
30-34	16 7.6%	15 8.0%	-	5 9.6%	4 6.7%	6 8.1%	2 5.7%	4 10.3%	6 20.0%	5 7.6%	8 16.3%	3 3.2%	6 7.1%	2 8.0%	-	4 12.5%
35-39	11 5.2%	9 4.8%	1 5.6%	4 7.7%	2 3.3%	5 6.8%	2 5.7%	3 7.7%	4 13.3%	5 7.6%	3 6.1%	3 3.2%	3 3.6%	2 8.0%	2 5.0%	2 6.3%
40-44	19 9.0%	16 8.6%	3 16.7%	6 11.5%	2 3.3%	11 14.9%	6 17.1%	2 5.1%	4 13.3%	11 16.7%	3 6.1%	5 5.3%	3 3.6%	1 4.0%	7 17.5%	4 12.5%
45-49	11 5.2%	11 5.9%	-	5 9.6%	3 5.0%	2 2.7%	3 8.6%	3 7.7%	-	4 6.1%	4 8.2%	3 3.2%	2 2.4%	3 12.0%	1 2.5%	3 9.4%
50-54	12 5.7%	11 5.9%	1 5.6%	5 9.6%	4 6.7%	3 4.1%	3 8.6%	3 7.7%	1 3.3%	6 9.1%	-	5 5.3%	2 2.4%	3 12.0%	3 7.5%	2 6.3%
55-59	13 6.2%	12 6.4%	1 5.6%	2 3.8%	2 3.3%	6 8.1%	-	3 7.7%	4 13.3%	3 4.5%	4 8.2%	6 6.4%	7 8.3%	3 12.0%	1 2.5%	2 6.3%
60-64	23 10.9%	21 11.2%	2 11.1%	6 11.5%	8 13.3%	6 8.1%	5 14.3%	5 12.8%	1 3.3%	7 10.6%	7 14.3%	9 9.6%	11 13.1%	1 4.0%	6 15.0%	2 6.3%
65 OR OVER	98 46.4%	85 45.5%	10 55.6%	17 32.7%	34 56.7%	32 43.2%	12 34.3%	15 38.5%	10 33.3%	25 37.9%	17 34.7%	56 59.6%	48 57.1%	10 40.0%	18 45.0%	13 40.6%
DK/NS	2 .9%	1 .5%	-	-	-	-	-	-	-	-	1 2.0%	-	-	-	-	-

Table 16-1

Q.14 - SEX

BASED ON TOTAL INTERVIEWED

WORK DONE THROUGH RRAP PROGRAM																							
	ROOF/ CHIM. RE-PAIR	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH- ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER- IOR HOME/ KIT- CHEN	VENTS /VENT- TION	EXTER- IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC- TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR		
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
MALE	127	60	71	29	25	24	15	18	16	17	10	20	12	21	8	4	13	5	8	6	2	1	1
	60.2%	56.6%	62.3%	67.4%	62.5%	58.5%	60.0%	62.1%	57.1%	65.4%	71.4%	74.1%	70.6%	60.0%	80.0%	33.3%	72.2%	50.0%	66.7%	54.5%	22.2%	25.0%	50.0%
FEMALE	84	46	43	14	15	17	10	11	12	9	4	7	5	14	2	8	5	5	4	5	7	3	1
	39.8%	43.4%	37.7%	32.6%	37.5%	41.5%	40.0%	37.9%	42.9%	34.6%	28.6%	25.9%	29.4%	40.0%	20.0%	66.7%	27.8%	50.0%	33.3%	45.5%	77.8%	75.0%	50.0%

Table 16-2

Q.14 - SEX

BASED ON TOTAL INTERVIEWED

	GENDER		RESPONDENT'S AGE				HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
MALE	127	-	127	28	32	66	52	44	27	32	42	16	25	77	17	27	9	12	10
	60.2%		100%	53.8%	54.2%	67.3%	89.7%	55.0%	39.1%	82.1%	57.5%	42.1%	43.1%	63.6%	81.0%	51.9%	39.1%	54.5%	50.0%
FEMALE	84	84	-	24	27	32	6	36	42	7	31	22	33	44	4	25	14	10	10
	39.8%	100%		46.2%	45.8%	32.7%	10.3%	45.0%	60.9%	17.9%	42.5%	57.9%	56.9%	36.4%	19.0%	48.1%	60.9%	45.5%	50.0%

Table 16-3

Q.14 - SEX

BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE		30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER	
	DET- ACHED	OTHER														
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
MALE	127	110	14	32	34	42	19	17	13	29	33	63	58	16	24	11
	60.2%	58.8%	77.8%	61.5%	56.7%	56.8%	54.3%	43.6%	43.3%	43.9%	67.3%	67.0%	69.0%	64.0%	60.0%	34.4%
FEMALE	84	77	4	20	26	32	16	22	17	37	16	31	26	9	16	21
	39.8%	41.2%	22.2%	38.5%	43.3%	43.2%	45.7%	56.4%	56.7%	56.1%	32.7%	33.0%	31.0%	36.0%	40.0%	65.6%

Table 17-1
Q.15 - HOUSE TYPE
BASED ON TOTAL INTERVIEWED

	WORK DONE THROUGH RRAP PROGRAM																						
	ROOF/ CHIM- RE- TOTAL	WIND- OWS/ PAIR	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH- -ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT -TION	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
LOW RISE APARTMENT	2 .9%	2 1.9%	2 1.8%	2 4.7%	-	-	1 4.0%	1 3.4%	-	1 3.8%	-	1 3.7%	-	-	-	1 8.3%	-	-	-	2 18.2%	-	-	-
ROW HOUSE	1 .5%	-	1 .9%	-	1 2.5%	-	-	-	-	-	-	1 3.7%	1 5.9%	-	1 10.0%	-	-	-	-	-	-	-	-
TOWNHOUSE	2 .9%	1 .9%	2 1.8%	-	-	1 2.4%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLEX	6 2.8%	2 1.9%	6 5.3%	1 2.3%	3 7.5%	1 2.4%	1 4.0%	2 6.9%	1 3.6%	1 3.8%	-	1 3.7%	-	3 8.6%	-	-	1 5.6%	-	-	-	-	-	-
SEMI-DETACHED	7 3.3%	3 2.8%	3 2.6%	1 2.3%	1 2.5%	-	1 4.0%	1 3.4%	1 3.6%	1 3.8%	2 14.3%	2 7.4%	-	-	-	-	-	-	-	-	-	-	-
SINGLE DETACHED HOME	187 88.6%	95 89.6%	97 85.1%	38 88.4%	34 85.0%	38 92.7%	22 88.0%	24 82.8%	26 92.9%	23 88.5%	12 85.7%	22 81.5%	16 94.1%	32 91.4%	9 90.0%	11 91.7%	15 83.3%	9 90.0%	12 100.0%	9 81.8%	9 100.0%	4 100%	2 100.0%
DK/NS	6 2.8%	3 2.8%	3 2.6%	1 2.3%	1 2.5%	1 2.4%	-	1 3.4%	-	-	-	-	-	-	-	-	2 11.1%	1 10.0%	-	-	-	-	-

Table 17-2
Q.15 - HOUSE TYPE
BASED ON TOTAL INTERVIEWED

	GENDER		RESPONDENT'S AGE				HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
LOW RISE APARTMENT	2 .9%	-	2 1.6%	1 1.9%	-	1 1.0%	-	-	2 2.9%	-	1 1.4%	-	1 1.7%	1 .8%	-	1 1.9%	-	-	1 5.0%
ROW HOUSE	1 .5%	-	1 .8%	-	-	1 1.0%	-	1 1.3%	-	-	1 1.4%	-	-	-	-	-	-	-	-
TOWNHOUSE	2 .9%	-	2 1.6%	-	1 1.7%	1 1.0%	-	2 2.5%	-	2 5.1%	-	-	-	2 1.7%	-	-	-	-	-
DUPLEX	6 2.8%	2 2.4%	4 3.1%	2 3.8%	1 1.7%	3 3.1%	2 3.4%	3 3.8%	1 1.4%	2 5.1%	3 4.1%	-	1 1.7%	4 3.3%	1 4.8%	2 3.8%	1 4.3%	1 4.5%	-
SEMI-DETACHED	7 3.3%	2 2.4%	5 3.9%	1 1.9%	2 3.4%	4 4.1%	2 3.4%	2 2.5%	3 4.3%	-	3 4.1%	2 5.3%	3 5.2%	3 2.5%	-	1 1.9%	-	1 4.5%	-
SINGLE DETACHED HOME	187 88.6%	77 91.7%	110 86.6%	46 88.5%	55 93.2%	85 86.7%	52 89.7%	71 88.8%	61 88.4%	35 89.7%	63 86.3%	35 92.1%	51 87.9%	108 89.3%	20 95.2%	46 88.5%	21 91.3%	20 90.9%	18 90.0%
DK/NS	6 2.8%	3 3.6%	3 2.4%	2 3.8%	-	3 3.1%	2 3.4%	1 1.3%	2 2.9%	-	2 2.7%	1 2.6%	2 3.4%	3 2.5%	-	2 3.8%	1 4.3%	-	1 5.0%

Table 17-3
Q.15 - HOUSE TYPE
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE DET- ACHED	OTHER		30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
LOW RISE APARTMENT	2 .9%	-	2 11.1%	-	-	1 1.4%	1 2.9%	-	-	-	-	2 2.1%	-	1 4.0%	1 2.5%	-
ROW HOUSE	1 .5%	-	1 5.6%	-	-	-	-	-	-	-	-	1 1.1%	1 1.2%	-	-	-
TOWNHOUSE	2 .9%	-	2 11.1%	-	1 1.7%	-	-	-	-	-	-	2 2.1%	2 2.4%	-	-	-
DUPLEX	6 2.8%	-	6 33.3%	2 3.8%	1 1.7%	3 4.1%	-	1 2.6%	3 10.0%	-	-	6 6.4%	4 4.8%	-	-	1 3.1%
SEMI-DETACHED	7 3.3%	-	7 38.9%	2 3.8%	3 5.0%	2 2.7%	1 2.9%	3 7.7%	1 3.3%	-	-	7 7.4%	3 3.6%	2 8.0%	1 2.5%	-
SINGLE DETACHED HOME	187 88.6%	187 100.0%	-	45 86.5%	53 88.3%	68 91.9%	32 91.4%	33 84.6%	25 83.3%	63 95.5%	48 98.0%	75 79.8%	73 86.9%	21 84.0%	38 95.0%	30 93.8%
DK/NS	6 2.8%	-	-	3 5.8%	2 3.3%	-	1 2.9%	2 5.1%	1 3.3%	3 4.5%	1 2.0%	1 1.1%	1 1.2%	1 4.0%	-	1 3.1%

Table 18-1
Q.16 - HEATING SYSTEM(S) IN HOME
BASED ON TOTAL INTERVIEWED

WORK DONE THROUGH RRAP PROGRAM																							
	ROOF/ CHIM- RE- TOTAL	WIND- OWS/ DOORS	ATTA- CHED- STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH -ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT -TION	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
(NET) GAS	99 46.9%	43 40.6%	51 44.7%	16 37.2%	23 57.5%	17 41.5%	11 44.0%	16 55.2%	20 71.4%	14 53.8%	9 64.3%	12 44.4%	8 47.1%	17 48.6%	5 50.0%	5 41.7%	10 55.6%	3 30.0%	6 50.0%	4 36.4%	3 33.3%	3 75.0%	-
- FORCED AIR CONVENTIONAL OR REGULAR GAS FURNACE	58 27.5%	25 23.6%	32 28.1%	10 23.3%	15 37.5%	12 29.3%	6 24.0%	10 34.5%	8 28.6%	10 38.5%	4 28.6%	6 22.2%	2 11.8%	8 22.9%	2 20.0%	2 16.7%	7 38.9%	-	4 33.3%	2 18.2%	-	1 25.0%	-
- FORCED AIR HIGH EFFICIENCY GAS FURNACE	37 17.5%	17 16.0%	17 14.9%	5 11.6%	8 20.0%	5 12.2%	4 16.0%	6 20.7%	11 39.3%	4 15.4%	5 35.7%	5 18.5%	5 29.4%	9 25.7%	3 30.0%	3 25.0%	3 16.7%	2 20.0%	2 16.7%	1 9.1%	1 11.1%	2 50.0%	-
- GAS-FIRED RADIATORS	4 1.9%	1 .9%	2 1.8%	1 2.3%	-	-	1 4.0%	-	1 3.6%	-	-	1 3.7%	1 5.9%	-	-	-	-	1 10.0%	-	1 9.1%	2 22.2%	-	-
(NET) ELECTRICITY	56 26.5%	27 25.5%	34 29.8%	10 23.3%	12 30.0%	13 31.7%	6 24.0%	7 24.1%	1 3.6%	4 15.4%	3 21.4%	8 29.6%	5 29.4%	10 28.6%	3 30.0%	5 41.7%	10 55.6%	4 40.0%	2 16.7%	3 27.3%	2 22.2%	-	-
- ELECTRIC BASEBOARD HEATER	44 20.9%	19 17.9%	27 23.7%	7 16.3%	9 22.5%	9 22.0%	2 8.0%	4 13.8%	-	2 7.7%	2 14.3%	5 18.5%	4 23.5%	6 17.1%	2 20.0%	2 16.7%	6 33.3%	3 30.0%	2 16.7%	2 18.2%	1 11.1%	-	-
- FORCE AIR ELECTRIC FURNACE	7 3.3%	4 3.8%	4 3.5%	3 7.0%	1 2.5%	2 4.9%	2 8.0%	-	1 3.6%	1 3.8%	-	2 7.4%	2 11.8%	2 5.7%	-	2 16.7%	1 5.6%	-	-	1 9.1%	-	-	-
- ELECTRIC RADIANT HEAT (IN FLOOR OR CEILING)	2 .9%	2 1.9%	1 .9%	-	1 2.5%	-	1 4.0%	1 3.4%	-	1 3.8%	-	-	-	-	-	-	-	-	-	-	-	-	-
- ELECTRIC PLENUM HEATER	2 .9%	1 .9%	2 1.8%	-	1 2.5%	2 4.9%	1 4.0%	1 3.4%	-	-	1 7.1%	1 3.7%	-	1 2.9%	-	1 8.3%	1 5.6%	-	-	-	-	-	-
- ELECTRICAL HEAT PUMP	1 .5%	-	-	-	-	-	-	1 3.4%	-	-	-	-	-	1 2.9%	1 10.0%	-	1 5.6%	-	-	-	-	-	-
- ELECTRIC BOILER WITH RADIATORS	1 .5%	1 .9%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1 5.6%	1 10.0%	-	-	1 11.1%	-	-
(NET) OIL	55 26.1%	31 29.2%	28 24.6%	16 37.2%	8 20.0%	9 22.0%	9 36.0%	8 27.6%	7 25.0%	7 26.9%	3 21.4%	9 33.3%	2 11.8%	11 31.4%	4 40.0%	2 16.7%	3 16.7%	3 30.0%	5 41.7%	5 45.5%	1 11.1%	-	1 50.0%
- FORCED AIR OIL FURNACE	44 20.9%	24 22.6%	23 20.2%	12 27.9%	7 17.5%	8 19.5%	8 32.0%	5 17.2%	5 17.9%	7 26.9%	3 21.4%	7 25.9%	2 11.8%	8 22.9%	3 30.0%	2 16.7%	3 16.7%	3 30.0%	5 41.7%	5 45.5%	1 11.1%	-	-

Continued

Table 18-1
Q.16 - HEATING SYSTEM(S) IN HOME
BASED ON TOTAL INTERVIEWED

	WORK DONE THROUGH RRAP PROGRAM																						
	TOTAL	ROOF/ CHIM. RE- PAIR	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH -ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT -ILA	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
- FORCED AIR HIGH EFFICIENCY OIL	9 4.3%	6 5.7%	3 2.6%	3 7.0%	1 2.5%	1 2.4%	1 4.0%	3 10.3%	2 7.1%	-	-	2 7.4%	-	3 8.6%	1 10.0%	-	-	-	-	-	-	-	1 50.0%
- OIL-FIRED BOILER WITH RADIATORS	2 .9%	1 .9%	2 1.8%	1 2.3%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(NET) RADIATORS	15 7.1%	8 7.5%	7 6.1%	5 11.6%	1 2.5%	1 2.4%	2 8.0%	3 10.3%	3 10.7%	-	-	3 11.1%	1 5.9%	3 8.6%	1 10.0%	-	-	1 10.0%	-	1 9.1%	2 22.2%	-	1 50.0%
- FORCED AIR HIGH EFFICIENCY OIL	9 4.3%	6 5.7%	3 2.6%	3 7.0%	1 2.5%	1 2.4%	1 4.0%	3 10.3%	2 7.1%	-	-	2 7.4%	-	3 8.6%	1 10.0%	-	-	-	-	-	-	-	1 50.0%
- GAS-FIRED RADIATORS	4 1.9%	1 .9%	2 1.8%	1 2.3%	-	-	1 4.0%	-	1 3.6%	-	-	1 3.7%	1 5.9%	-	-	-	-	1 10.0%	-	1 9.1%	2 22.2%	-	-
- OIL-FIRED BOILER WITH RADIATORS	2 .9%	1 .9%	2 1.8%	1 2.3%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(NET) FORCED AIR	155 73.5%	76 71.7%	79 69.3%	33 76.7%	32 80.0%	28 68.3%	21 84.0%	24 82.8%	27 96.4%	22 84.6%	12 85.7%	22 81.5%	11 64.7%	30 85.7%	9 90.0%	9 75.0%	14 77.8%	5 50.0%	11 91.7%	9 81.8%	2 22.2%	3 75.0%	1 50.0%
- FORCED AIR CONVENTIONAL OR REGULAR GAS FURNACE	58 27.5%	25 23.6%	32 28.1%	10 23.3%	15 37.5%	12 29.3%	6 24.0%	10 34.5%	8 28.6%	10 38.5%	4 28.6%	6 22.2%	2 11.8%	8 22.9%	2 20.0%	2 16.7%	7 38.9%	-	4 33.3%	2 18.2%	-	1 25.0%	-
- FORCED AIR OIL FURNACE	44 20.9%	24 22.6%	23 20.2%	12 27.9%	7 17.5%	8 19.5%	8 32.0%	5 17.2%	5 17.9%	7 26.9%	3 21.4%	7 25.9%	2 11.8%	8 22.9%	3 30.0%	2 16.7%	3 16.7%	3 30.0%	5 41.7%	5 45.5%	1 11.1%	-	-
- FORCED AIR HIGH EFFICIENCY GAS FURNACE	37 17.5%	17 16.0%	17 14.9%	5 11.6%	8 20.0%	5 12.2%	4 16.0%	6 20.7%	11 39.3%	4 15.4%	5 35.7%	5 18.5%	5 29.4%	9 25.7%	3 30.0%	3 25.0%	3 16.7%	2 20.0%	2 16.7%	1 9.1%	1 11.1%	2 50.0%	-
- FORCED AIR HIGH EFFICIENCY OIL	9 4.3%	6 5.7%	3 2.6%	3 7.0%	1 2.5%	1 2.4%	1 4.0%	3 10.3%	2 7.1%	-	-	2 7.4%	-	3 8.6%	1 10.0%	-	-	-	-	-	-	-	1 50.0%
- FORCE AIR ELECTRIC FURNACE	7 3.3%	4 3.8%	4 3.5%	3 7.0%	1 2.5%	2 4.9%	2 8.0%	-	1 3.6%	1 3.8%	-	2 7.4%	2 11.8%	2 5.7%	-	2 16.7%	1 5.6%	-	-	1 9.1%	-	-	-
MISCELLANEOUS....																							
WOOD STOVE	47 22.3%	27 25.5%	25 21.9%	9 20.9%	8 20.0%	15 36.6%	3 12.0%	3 10.3%	5 17.9%	6 23.1%	3 21.4%	7 25.9%	7 41.2%	7 20.0%	2 20.0%	2 16.7%	4 22.2%	5 50.0%	3 25.0%	3 27.3%	5 55.6%	1 25.0%	1 50.0%

Continued

Table 18-1
Q.16 - HEATING SYSTEM(S) IN HOME
BASED ON TOTAL INTERVIEWED

	WORK DONE THROUGH RRAP PROGRAM																						
	ROOF/ CHIM- RE- TOTAL	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH- -ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER- -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT -ILA -TION	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
OTHER	18 8.5%	11 10.4%	10 8.8%	2 4.7%	2 5.0%	5 12.2%	2 8.0%	2 6.9%	1 3.6%	2 7.7%	1 7.1%	4 14.8%	2 11.8%	4 11.4%	3 30.0%	2 16.7%	1 5.6%	-	-	-	1 11.1%	1 25.0%	1 50.0%
NONE/DK/NS	5 2.4%	2 1.9%	4 3.5%	1 2.3%	1 2.5%	1 2.4%	1 4.0%	-	-	-	-	-	-	1 2.9%	-	-	1 5.6%	-	-	-	1 11.1%	-	-

Table 18-2
Q.16 - HEATING SYSTEM(S) IN HOME
BASED ON TOTAL INTERVIEWED

	GENDER			RESPONDENT'S AGE			HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
(NET) GAS	99	33	66	19	27	53	30	42	25	17	32	15	16	65	11	17	9	10	2
	46.9%	39.3%	52.0%	36.5%	45.8%	54.1%	51.7%	52.5%	36.2%	43.6%	43.8%	39.5%	27.6%	53.7%	52.4%	32.7%	39.1%	45.5%	10.0%
- FORCED AIR CONVENTIONAL OR REGULAR GAS FURNACE	58	18	40	9	18	31	19	25	13	11	20	7	10	39	5	7	4	5	1
	27.5%	21.4%	31.5%	17.3%	30.5%	31.6%	32.8%	31.3%	18.8%	28.2%	27.4%	18.4%	17.2%	32.2%	23.8%	13.5%	17.4%	22.7%	5.0%
- FORCED AIR HIGH EFFICIENCY GAS FURNACE	37	13	24	10	7	20	10	15	11	5	11	8	6	23	5	10	5	5	1
	17.5%	15.5%	18.9%	19.2%	11.9%	20.4%	17.2%	18.8%	15.9%	12.8%	15.1%	21.1%	10.3%	19.0%	23.8%	19.2%	21.7%	22.7%	5.0%
- GAS-FIRED RADIATORS	4	2	2	-	2	2	1	2	1	1	1	-	-	3	1	-	-	-	-
	1.9%	2.4%	1.6%		3.4%	2.0%	1.7%	2.5%	1.4%	2.6%	1.4%			2.5%	4.8%				
(NET) ELECTRICITY	56	25	31	18	16	22	14	18	24	10	20	11	21	24	6	19	8	12	8
	26.5%	29.8%	24.4%	34.6%	27.1%	22.4%	24.1%	22.5%	34.8%	25.6%	27.4%	28.9%	36.2%	19.8%	28.6%	36.5%	34.8%	54.5%	40.0%
- ELECTRIC BASEBOARD HEATER	44	20	24	14	13	17	11	15	18	7	15	10	17	18	4	14	4	8	8
	20.9%	23.8%	18.9%	26.9%	22.0%	17.3%	19.0%	18.8%	26.1%	17.9%	20.5%	26.3%	29.3%	14.9%	19.0%	26.9%	17.4%	36.4%	40.0%
- FORCE AIR ELECTRIC FURNACE	7	2	5	1	1	5	4	1	2	2	4	-	2	4	1	1	-	1	-
	3.3%	2.4%	3.9%	1.9%	1.7%	5.1%	6.9%	1.3%	2.9%	5.1%	5.5%		3.4%	3.3%	4.8%	1.9%		4.5%	
- ELECTRIC RADIANT HEAT (IN FLOOR OR CEILING)	2	1	1	-	1	1	-	1	1	-	1	-	-	1	1	1	1	1	-
	.9%	1.2%	.8%		1.7%	1.0%		1.3%	1.4%		1.4%			.8%	4.8%	1.9%	4.3%	4.5%	
- ELECTRIC PLENUM HEATER	2	1	1	1	1	-	-	1	1	1	-	1	1	1	-	1	1	1	-
	.9%	1.2%	.8%	1.9%	1.7%			1.3%	1.4%	2.6%		2.6%	1.7%	.8%		1.9%	4.3%	4.5%	
- ELECTRICAL HEAT PUMP	1	-	1	1	-	-	-	-	1	-	1	-	-	-	1	1	1	-	-
	.5%		.8%	1.9%					1.4%		1.4%				4.8%	1.9%	4.3%		
- ELECTRIC BOILER WITH RADIATORS	1	1	-	1	-	-	-	-	1	-	-	-	1	-	-	1	1	1	-
	.5%	1.2%		1.9%					1.4%				1.7%			1.9%	4.3%	4.5%	
(NET) OIL	55	24	31	17	16	22	14	21	19	15	20	12	17	30	6	17	7	4	10
	26.1%	28.6%	24.4%	32.7%	27.1%	22.4%	24.1%	26.3%	27.5%	38.5%	27.4%	31.6%	29.3%	24.8%	28.6%	32.7%	30.4%	18.2%	50.0%
- FORCED AIR OIL FURNACE	44	19	25	15	14	15	13	15	16	14	15	11	15	23	6	15	6	4	9
	20.9%	22.6%	19.7%	28.8%	23.7%	15.3%	22.4%	18.8%	23.2%	35.9%	20.5%	28.9%	25.9%	19.0%	28.6%	28.8%	26.1%	18.2%	45.0%
- FORCED AIR HIGH EFFICIENCY OIL	9	5	4	2	2	5	-	5	3	1	3	1	2	5	-	2	1	-	1
	4.3%	6.0%	3.1%	3.8%	3.4%	5.1%		6.3%	4.3%	2.6%	4.1%	2.6%	3.4%	4.1%		3.8%	4.3%		5.0%

Continued

Table 18-2
Q.16 - HEATING SYSTEM(S) IN HOME
BASED ON TOTAL INTERVIEWED

	GENDER			RESPONDENT'S AGE			HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
- OIL-FIRED BOILER WITH RADIATORS	2 .9%	-	2 1.6%	-	-	2 2.0%	1 1.7%	1 1.3%	-	-	2 2.7%	-	-	2 1.7%	-	-	-	-	-
(NET) RADIATORS	15 7.1%	7 8.3%	8 6.3%	2 3.8%	4 6.8%	9 9.2%	2 3.4%	8 10.0%	4 5.8%	2 5.1%	6 8.2%	1 2.6%	2 3.4%	10 8.3%	1 4.8%	2 3.8%	1 4.3%	-	1 5.0%
- FORCED AIR HIGH EFFICIENCY OIL	9 4.3%	5 6.0%	4 3.1%	2 3.8%	2 3.4%	5 5.1%	-	5 6.3%	3 4.3%	1 2.6%	3 4.1%	1 2.6%	2 3.4%	5 4.1%	-	2 3.8%	1 4.3%	-	1 5.0%
- GAS-FIRED RADIATORS	4 1.9%	2 2.4%	2 1.6%	-	2 3.4%	2 2.0%	1 1.7%	2 2.5%	1 1.4%	1 2.6%	1 1.4%	-	-	3 2.5%	1 4.8%	-	-	-	-
- OIL-FIRED BOILER WITH RADIATORS	2 .9%	-	2 1.6%	-	-	2 2.0%	1 1.7%	1 1.3%	-	-	2 2.7%	-	-	2 1.7%	-	-	-	-	-
(NET) FORCED AIR	155 73.5%	57 67.9%	98 77.2%	37 71.2%	42 71.2%	76 77.6%	46 79.3%	61 76.3%	45 65.2%	33 84.6%	53 72.6%	27 71.1%	35 60.3%	94 77.7%	17 81.0%	35 67.3%	16 69.6%	15 68.2%	12 60.0%
- FORCED AIR CONVENTIONAL OR REGULAR GAS FURNACE	58 27.5%	18 21.4%	40 31.5%	9 17.3%	18 30.5%	31 31.6%	19 32.8%	25 31.3%	13 18.8%	11 28.2%	20 27.4%	7 18.4%	10 17.2%	39 32.2%	5 23.8%	7 13.5%	4 17.4%	5 22.7%	1 5.0%
- FORCED AIR OIL FURNACE	44 20.9%	19 22.6%	25 19.7%	15 28.8%	14 23.7%	15 15.3%	13 22.4%	15 18.8%	16 23.2%	14 35.9%	15 20.5%	11 28.9%	15 25.9%	23 19.0%	6 28.6%	15 28.8%	6 26.1%	4 18.2%	9 45.0%
- FORCED AIR HIGH EFFICIENCY GAS FURNACE	37 17.5%	13 15.5%	24 18.9%	10 19.2%	7 11.9%	20 20.4%	10 17.2%	15 18.8%	11 15.9%	5 12.8%	11 15.1%	8 21.1%	6 10.3%	23 19.0%	5 23.8%	10 19.2%	5 21.7%	5 22.7%	1 5.0%
- FORCED AIR HIGH EFFICIENCY OIL	9 4.3%	5 6.0%	4 3.1%	2 3.8%	2 3.4%	5 5.1%	-	5 6.3%	3 4.3%	1 2.6%	3 4.1%	1 2.6%	2 3.4%	5 4.1%	-	2 3.8%	1 4.3%	-	1 5.0%
- FORCE AIR ELECTRIC FURNACE	7 3.3%	2 2.4%	5 3.9%	1 1.9%	1 1.7%	5 5.1%	4 6.9%	1 1.3%	2 2.9%	2 5.1%	4 5.5%	-	2 3.4%	4 3.3%	1 4.8%	1 1.9%	-	1 4.5%	-
MISCELLANEOUS....																			
WOOD STOVE	47 22.3%	27 32.1%	20 15.7%	17 32.7%	15 25.4%	15 15.3%	6 10.3%	17 21.3%	24 34.8%	8 20.5%	17 23.3%	12 31.6%	20 34.5%	22 18.2%	3 14.3%	16 30.8%	8 34.8%	4 18.2%	6 30.0%
OTHER	18 8.5%	9 10.7%	9 7.1%	5 9.6%	6 10.2%	7 7.1%	2 3.4%	7 8.8%	9 13.0%	1 2.6%	7 9.6%	5 13.2%	7 12.1%	10 8.3%	1 4.8%	6 11.5%	3 13.0%	1 4.5%	3 15.0%

Continued

Table 18-2

Q.16 - HEATING SYSTEM(S) IN HOME
BASED ON TOTAL INTERVIEWED

	GENDER			RESPONDENT'S AGE			HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE-MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
NONE/DK/NS	5	2	3	-	-	3	2	2	-	1	-	-	-	4	-	-	-	-	-
	2.4%	2.4%	2.4%			3.1%	3.4%	2.5%		2.6%				3.3%					

Table 18-3
Q.16 - HEATING SYSTEM(S) IN HOME
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE DET- ACHED	OTHER		30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
(NET) GAS	99	87	11	22	34	35	15	21	8	12	23	64	84	1	-	5
	46.9%	46.5%	61.1%	42.3%	56.7%	47.3%	42.9%	53.8%	26.7%	18.2%	46.9%	68.1%	100.0%	4.0%		15.6%
- FORCED AIR CONVENTIONAL OR REGULAR GAS FURNACE	58	53	5	13	19	22	5	10	4	6	12	40	51	1	-	3
	27.5%	28.3%	27.8%	25.0%	31.7%	29.7%	14.3%	25.6%	13.3%	9.1%	24.5%	42.6%	60.7%	4.0%		9.4%
- FORCED AIR HIGH EFFICIENCY GAS FURNACE	37	30	6	9	13	12	8	11	4	3	10	24	32	-	-	-
	17.5%	16.0%	33.3%	17.3%	21.7%	16.2%	22.9%	28.2%	13.3%	4.5%	20.4%	25.5%	38.1%			
- GAS-FIRED RADIATORS	4	4	-	-	2	1	2	-	-	3	1	-	1	-	-	2
	1.9%	2.1%			3.3%	1.4%	5.7%			4.5%	2.0%		1.2%			6.3%
(NET) ELECTRICITY	56	45	8	22	14	11	10	11	12	24	9	23	11	25	4	8
	26.5%	24.1%	44.4%	42.3%	23.3%	14.9%	28.6%	28.2%	40.0%	36.4%	18.4%	24.5%	13.1%	100.0%	10.0%	25.0%
- ELECTRIC BASEBOARD HEATER	44	37	5	19	11	7	8	8	10	20	9	15	9	17	4	7
	20.9%	19.8%	27.8%	36.5%	18.3%	9.5%	22.9%	20.5%	33.3%	30.3%	18.4%	16.0%	10.7%	68.0%	10.0%	21.9%
- FORCE AIR ELECTRIC FURNACE	7	4	2	2	3	-	1	1	3	2	-	5	-	7	-	-
	3.3%	2.1%	11.1%	3.8%	5.0%		2.9%	2.6%	10.0%	3.0%		5.3%		28.0%		
- ELECTRIC RADIANT HEAT (IN FLOOR OR CEILING)	2	2	-	1	1	-	1	-	-	-	-	2	1	1	-	-
	.9%	1.1%		1.9%	1.7%		2.9%					2.1%	1.2%	4.0%		
- ELECTRIC PLENUM HEATER	2	1	1	-	-	2	-	1	-	1	-	1	1	-	-	1
	.9%	.5%	5.6%			2.7%		2.6%		1.5%		1.1%	1.2%			3.1%
- ELECTRICAL HEAT PUMP	1	1	-	-	-	1	-	-	-	-	-	1	-	-	-	-
	.5%	.5%				1.4%						1.1%				
- ELECTRIC BOILER WITH RADIATORS	1	1	-	-	-	1	-	1	-	1	-	-	-	1	-	-
	.5%	.5%				1.4%		2.6%		1.5%				4.0%		
(NET) OIL	55	52	2	10	13	26	10	6	9	25	15	14	-	-	40	7
	26.1%	27.8%	11.1%	19.2%	21.7%	35.1%	28.6%	15.4%	30.0%	37.9%	30.6%	14.9%			100.0%	21.9%
- FORCED AIR OIL FURNACE	44	41	2	7	9	23	8	6	8	20	14	9	-	-	29	7
	20.9%	21.9%	11.1%	13.5%	15.0%	31.1%	22.9%	15.4%	26.7%	30.3%	28.6%	9.6%			72.5%	21.9%
- FORCED AIR HIGH EFFICIENCY OIL	9	9	-	2	3	3	2	-	1	5	1	3	-	-	9	-
	4.3%	4.8%		3.8%	5.0%	4.1%	5.7%		3.3%	7.6%	2.0%	3.2%			22.5%	

Continued

Table 18-3
Q.16 - HEATING SYSTEM(S) IN HOME
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	TOTAL	SINGLE DET- ACHED	OTHER	30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
- OIL-FIRED BOILER WITH RADIATORS	2 .9%	2 1.1%	-	1 1.9%	1 1.7%	-	-	-	-	-	-	2 2.1%	-	-	2 5.0%	-
(NET) RADIATORS	15 7.1%	15 8.0%	-	3 5.8%	6 10.0%	4 5.4%	4 11.4%	-	1 3.3%	8 12.1%	2 4.1%	5 5.3%	1 1.2%	-	11 27.5%	2 6.3%
- FORCED AIR HIGH EFFICIENCY OIL	9 4.3%	9 4.8%	-	2 3.8%	3 5.0%	3 4.1%	2 5.7%	-	1 3.3%	5 7.6%	1 2.0%	3 3.2%	-	-	9 22.5%	-
- GAS-FIRED RADIATORS	4 1.9%	4 2.1%	-	-	2 3.3%	1 1.4%	2 5.7%	-	-	3 4.5%	1 2.0%	-	1 1.2%	-	-	2 6.3%
- OIL-FIRED BOILER WITH RADIATORS	2 .9%	2 1.1%	-	1 1.9%	1 1.7%	-	-	-	-	-	-	2 2.1%	-	-	2 5.0%	-
(NET) FORCED AIR	155 73.5%	137 73.3%	15 83.3%	33 63.5%	47 78.3%	60 81.1%	24 68.6%	28 71.8%	20 66.7%	36 54.5%	37 75.5%	81 86.2%	83 98.8%	8 32.0%	38 95.0%	10 31.3%
- FORCED AIR CONVENTIONAL OR REGULAR GAS FURNACE	58 27.5%	53 28.3%	5 27.8%	13 25.0%	19 31.7%	22 29.7%	5 14.3%	10 25.6%	4 13.3%	6 9.1%	12 24.5%	40 42.6%	51 60.7%	1 4.0%	-	3 9.4%
- FORCED AIR OIL FURNACE	44 20.9%	41 21.9%	2 11.1%	7 13.5%	9 15.0%	23 31.1%	8 22.9%	6 15.4%	8 26.7%	20 30.3%	14 28.6%	9 9.6%	-	-	29 72.5%	7 21.9%
- FORCED AIR HIGH EFFICIENCY GAS FURNACE	37 17.5%	30 16.0%	6 33.3%	9 17.3%	13 21.7%	12 16.2%	8 22.9%	11 28.2%	4 13.3%	3 4.5%	10 20.4%	24 25.5%	32 38.1%	-	-	-
- FORCED AIR HIGH EFFICIENCY OIL	9 4.3%	9 4.8%	-	2 3.8%	3 5.0%	3 4.1%	2 5.7%	-	1 3.3%	5 7.6%	1 2.0%	3 3.2%	-	-	9 22.5%	-
- FORCE AIR ELECTRIC FURNACE	7 3.3%	4 2.1%	2 11.1%	2 3.8%	3 5.0%	-	1 2.9%	1 2.6%	3 10.0%	2 3.0%	-	5 5.3%	-	7 28.0%	-	-
MISCELLANEOUS....																
WOOD STOVE	47 22.3%	44 23.5%	1 5.6%	12 23.1%	10 16.7%	23 31.1%	10 28.6%	9 23.1%	10 33.3%	39 59.1%	5 10.2%	3 3.2%	2 2.4%	5 20.0%	5 12.5%	28 87.5%
OTHER	18 8.5%	18 9.6%	-	5 9.6%	6 10.0%	7 9.5%	5 14.3%	4 10.3%	3 10.0%	8 12.1%	3 6.1%	7 7.4%	5 6.0%	-	3 7.5%	10 31.3%

Continued

Table 18-3
Q.16 - HEATING SYSTEM(S) IN HOME
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	=====			=====			=====			=====			=====			
	SINGLE			30 YRS	OVER		<1,000	1,000-	OVER					ELECT-		
	DET-			OR	31-50	50	SQ.FT.	1,500	1,500	RURAL	TOWN	CITY	GAS	RICITY	OIL	OTHER
	ACHED	OTHER		LESS	YEARS	YEARS										
	-----	-----		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
NONE/DK/NS	5	4	-	1	-	-	-	1	-	-	1	3	-	-	-	-
	2.4%	2.1%		1.9%				2.6%			2.0%	3.2%				

Table 19-1
Q.17 - MAIN HEATING SYSTEM IN HOME
BASED ON TOTAL INTERVIEWED

WORK DONE THROUGH RRAP PROGRAM																							
	ROOF/ CHIM- RE- PAIR	WIND- OWS/ DOORS	ATTA- CHED- STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH -ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER- -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT- -ILA -TION	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
(NET) GAS	84 39.8%	41 38.7%	46 40.4%	13 30.2%	20 50.0%	16 39.0%	9 36.0%	13 44.8%	18 64.3%	14 53.8%	8 57.1%	9 33.3%	6 35.3%	14 40.0%	4 40.0%	4 33.3%	9 50.0%	1 10.0%	5 41.7%	1 9.1%	1 11.1%	2 50.0%	-
- FORCED AIR CONVENTIONAL OR REGULAR GAS FURNACE	52 24.6%	23 21.7%	30 26.3%	9 20.9%	12 30.0%	11 26.8%	6 24.0%	8 27.6%	7 25.0%	10 38.5%	4 28.6%	5 18.5%	1 5.9%	8 22.9%	2 20.0%	1 8.3%	7 38.9%	- 25.0%	3 25.0%	-	-	1 25.0%	-
- FORCED AIR HIGH EFFICIENCY GAS FURNACE	31 14.7%	17 16.0%	15 13.2%	4 9.3%	8 20.0%	5 12.2%	3 12.0%	5 17.2%	10 35.7%	4 15.4%	4 28.6%	4 14.8%	5 29.4%	6 17.1%	2 20.0%	3 25.0%	2 11.1%	1 10.0%	2 16.7%	1 9.1%	1 11.1%	1 25.0%	-
- GAS-FIRED RADIATORS	1 .5%	1 .9%	1 .9%	-	-	-	-	-	1 3.6%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(NET) ELECTRICITY	25 11.8%	14 13.2%	14 12.3%	5 11.6%	5 12.5%	7 17.1%	3 12.0%	2 6.9%	1 3.6%	2 7.7%	-	3 11.1%	3 17.6%	4 11.4%	-	4 33.3%	3 16.7%	2 20.0%	1 8.3%	2 18.2%	2 22.2%	-	-
- ELECTRIC BASEBOARD HEATER	16 7.6%	8 7.5%	9 7.9%	2 4.7%	4 10.0%	5 12.2%	-	1 3.4%	-	1 3.8%	-	1 3.7%	1 5.9%	2 5.7%	-	2 16.7%	1 5.6%	1 10.0%	1 8.3%	1 9.1%	1 11.1%	-	-
- FORCE AIR ELECTRIC FURNACE	7 3.3%	4 3.8%	4 3.5%	3 7.0%	1 2.5%	2 4.9%	2 8.0%	-	1 3.6%	1 3.8%	-	2 7.4%	2 11.8%	2 5.7%	-	2 16.7%	1 5.6%	-	-	1 9.1%	-	-	-
- ELECTRIC RADIANT HEAT (IN FLOOR OR CEILING)	1 .5%	1 .9%	1 .9%	-	-	-	1 4.0%	1 3.4%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- ELECTRIC BOILER WITH RADIATORS	1 .5%	1 .9%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1 5.6%	1 10.0%	-	-	1 11.1%	-	-
(NET) OIL	40 19.0%	18 17.0%	19 16.7%	13 30.2%	6 15.0%	5 12.2%	6 24.0%	6 20.7%	6 21.4%	4 15.4%	2 14.3%	7 25.9%	-	8 22.9%	4 40.0%	2 16.7%	3 16.7%	2 20.0%	3 25.0%	4 36.4%	1 11.1%	-	1 50.0%
- FORCED AIR OIL FURNACE	29 13.7%	11 10.4%	14 12.3%	9 20.9%	5 12.5%	4 9.8%	5 20.0%	3 10.3%	4 14.3%	4 15.4%	2 14.3%	5 18.5%	-	5 14.3%	3 30.0%	2 16.7%	3 16.7%	2 20.0%	3 25.0%	4 36.4%	1 11.1%	-	-
- FORCED AIR HIGH EFFICIENCY OIL	9 4.3%	6 5.7%	3 2.6%	3 7.0%	1 2.5%	1 2.4%	1 4.0%	3 10.3%	2 7.1%	-	-	2 7.4%	-	3 8.6%	1 10.0%	-	-	-	-	-	-	-	1 50.0%
- OIL-FIRED BOILER WITH RADIATORS	2 .9%	1 .9%	2 1.8%	1 2.3%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Continued

Table 19-1
Q.17 - MAIN HEATING SYSTEM IN HOME
BASED ON TOTAL INTERVIEWED

	WORK DONE THROUGH RRAP PROGRAM																						
	ROOF/ RE- PAIR	CHIM- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH- ER -PING	BATH- ROOM	FOUN- DA- TION	INTER- -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT -TION	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
(NET) RADIATORS	12 5.7%	8 7.5%	6 5.3%	4 9.3%	1 2.5%	1 2.4%	1 4.0%	3 10.3%	3 10.7%	-	-	2 7.4%	-	3 8.6%	1 10.0%	-	-	-	-	-	-	-	1 50.0%
- FORCED AIR HIGH EFFICIENCY OIL	9 4.3%	6 5.7%	3 2.6%	3 7.0%	1 2.5%	1 2.4%	1 4.0%	3 10.3%	2 7.1%	-	-	2 7.4%	-	3 8.6%	1 10.0%	-	-	-	-	-	-	-	1 50.0%
- OIL-FIRED BOILER WITH RADIATORS	2 .9%	1 .9%	2 1.8%	1 2.3%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- GAS-FIRED RADIATORS	1 .5%	1 .9%	1 .9%	-	-	-	-	-	1 3.6%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(NET) FORCED AIR	128 60.7%	61 57.5%	66 57.9%	28 65.1%	27 67.5%	23 56.1%	17 68.0%	19 65.5%	24 85.7%	19 73.1%	10 71.4%	18 66.7%	8 47.1%	24 68.6%	8 80.0%	8 66.7%	13 72.2%	3 30.0%	8 66.7%	6 54.5%	2 22.2%	2 50.0%	1 50.0%
- FORCED AIR CONVENTIONAL OR REGULAR GAS FURNACE	52 24.6%	23 21.7%	30 26.3%	9 20.9%	12 30.0%	11 26.8%	6 24.0%	8 27.6%	7 25.0%	10 38.5%	4 28.6%	5 18.5%	1 5.9%	8 22.9%	2 20.0%	1 8.3%	7 38.9%	-	3 25.0%	-	-	1 25.0%	-
- FORCED AIR HIGH EFFICIENCY GAS FURNACE	31 14.7%	17 16.0%	15 13.2%	4 9.3%	8 20.0%	5 12.2%	3 12.0%	5 17.2%	10 35.7%	4 15.4%	4 28.6%	4 14.8%	5 29.4%	6 17.1%	2 20.0%	3 25.0%	2 11.1%	1 10.0%	2 16.7%	1 9.1%	1 11.1%	1 25.0%	-
- FORCED AIR OIL FURNACE	29 13.7%	11 10.4%	14 12.3%	9 20.9%	5 12.5%	4 9.8%	5 20.0%	3 10.3%	4 14.3%	4 15.4%	2 14.3%	5 18.5%	-	5 14.3%	3 30.0%	2 16.7%	3 16.7%	2 20.0%	3 25.0%	4 36.4%	1 11.1%	-	-
- FORCED AIR HIGH EFFICIENCY OIL	9 4.3%	6 5.7%	3 2.6%	3 7.0%	1 2.5%	1 2.4%	1 4.0%	3 10.3%	2 7.1%	-	-	2 7.4%	-	3 8.6%	1 10.0%	-	-	-	-	-	-	-	1 50.0%
- FORCE AIR ELECTRIC FURNACE	7 3.3%	4 3.8%	4 3.5%	3 7.0%	1 2.5%	2 4.9%	2 8.0%	-	1 3.6%	1 3.8%	-	2 7.4%	2 11.8%	2 5.7%	-	2 16.7%	1 5.6%	-	-	1 9.1%	-	-	-
MISCELLANEOUS....																							
WOOD STOVE	26 12.3%	15 14.2%	15 13.2%	3 7.0%	4 10.0%	8 19.5%	2 8.0%	-	2 7.1%	2 7.7%	2 14.3%	5 18.5%	4 23.5%	3 8.6%	-	2 16.7%	-	2 20.0%	1 8.3%	2 18.2%	3 33.3%	1 25.0%	-
OTHER	6 2.8%	4 3.8%	2 1.8%	1 2.3%	-	1 2.4%	1 4.0%	2 6.9%	-	1 3.8%	-	2 7.4%	2 11.8%	1 2.9%	1 10.0%	-	-	-	-	-	1 11.1%	-	1 50.0%
NONE/DK/NS	30 14.2%	14 13.2%	18 15.8%	8 18.6%	5 12.5%	4 9.8%	4 16.0%	6 20.7%	1 3.6%	3 11.5%	2 14.3%	1 3.7%	2 11.8%	5 14.3%	1 10.0%	-	3 16.7%	3 30.0%	2 16.7%	2 18.2%	1 11.1%	1 25.0%	-

Table 19-2
Q.17 - MAIN HEATING SYSTEM IN HOME
BASED ON TOTAL INTERVIEWED

	GENDER			RESPONDENT'S AGE			HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN				
	TOTAL	MALE	FE-MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17	
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20	
(NET) GAS	84	26	58	14	22	48	28	37	17	15	27	12	13	58	8	13	7	9	2	
	39.8%	31.0%	45.7%	26.9%	37.3%	49.0%	48.3%	46.3%	24.6%	38.5%	37.0%	31.6%	22.4%	47.9%	38.1%	25.0%	30.4%	40.9%	10.0%	
- FORCED AIR CONVENTIONAL OR REGULAR GAS FURNACE	52	15	37	8	16	28	18	24	9	11	17	7	9	35	5	6	4	5	1	
	24.6%	17.9%	29.1%	15.4%	27.1%	28.6%	31.0%	30.0%	13.0%	28.2%	23.3%	18.4%	15.5%	28.9%	23.8%	11.5%	17.4%	22.7%	5.0%	
- FORCED AIR HIGH EFFICIENCY GAS FURNACE	31	11	20	6	6	19	10	12	8	4	10	5	4	22	3	7	3	4	1	
	14.7%	13.1%	15.7%	11.5%	10.2%	19.4%	17.2%	15.0%	11.6%	10.3%	13.7%	13.2%	6.9%	18.2%	14.3%	13.5%	13.0%	18.2%	5.0%	
- GAS-FIRED RADIATORS	1	-	1	-	-	1	-	1	-	-	-	-	-	1	-	-	-	-	-	
	.5%		.8%			1.0%		1.3%						.8%						
(NET) ELECTRICITY	25	9	16	5	10	10	13	3	9	6	9	3	11	12	2	5	2	5	1	
	11.8%	10.7%	12.6%	9.6%	16.9%	10.2%	22.4%	3.8%	13.0%	15.4%	12.3%	7.9%	19.0%	9.9%	9.5%	9.6%	8.7%	22.7%	5.0%	
- ELECTRIC BASEBOARD HEATER	16	6	10	3	8	5	9	2	5	4	5	3	8	8	-	2	-	2	1	
	7.6%	7.1%	7.9%	5.8%	13.6%	5.1%	15.5%	2.5%	7.2%	10.3%	6.8%	7.9%	13.8%	6.6%		3.8%		9.1%	5.0%	
- FORCE AIR ELECTRIC FURNACE	7	2	5	1	1	5	4	1	2	2	4	-	2	4	1	1	-	1	-	
	3.3%	2.4%	3.9%	1.9%	1.7%	5.1%	6.9%	1.3%	2.9%	5.1%	5.5%		3.4%	3.3%	4.8%	1.9%		4.5%		
- ELECTRIC RADIANT HEAT (IN FLOOR OR CEILING)	1	-	1	-	1	-	-	-	1	-	-	-	-	-	1	1	1	1	-	
	.5%		.8%		1.7%				1.4%						4.8%	1.9%	4.3%	4.5%		
- ELECTRIC BOILER WITH RADIATORS	1	1	-	1	-	-	-	-	1	-	-	-	1	-	-	1	1	1	-	
	.5%	1.2%		1.9%					1.4%				1.7%			1.9%	4.3%	4.5%		
(NET) OIL	40	16	24	11	11	18	12	14	13	11	16	6	10	24	4	13	4	4	9	
	19.0%	19.0%	18.9%	21.2%	18.6%	18.4%	20.7%	17.5%	18.8%	28.2%	21.9%	15.8%	17.2%	19.8%	19.0%	25.0%	17.4%	18.2%	45.0%	
- FORCED AIR OIL FURNACE	29	11	18	9	9	11	11	8	10	10	11	5	8	17	4	11	3	4	8	
	13.7%	13.1%	14.2%	17.3%	15.3%	11.2%	19.0%	10.0%	14.5%	25.6%	15.1%	13.2%	13.8%	14.0%	19.0%	21.2%	13.0%	18.2%	40.0%	
- FORCED AIR HIGH EFFICIENCY OIL	9	5	4	2	2	5	-	5	3	1	3	1	2	5	-	2	1	-	1	
	4.3%	6.0%	3.1%	3.8%	3.4%	5.1%		6.3%	4.3%	2.6%	4.1%	2.6%	3.4%	4.1%		3.8%	4.3%		5.0%	
- OIL-FIRED BOILER WITH RADIATORS	2	-	2	-	-	2	1	1	-	-	2	-	-	2	-	-	-	-	-	
	.9%		1.6%			2.0%	1.7%	1.3%			2.7%			1.7%						
(NET) RADIATORS	12	5	7	2	2	8	1	7	3	1	5	1	2	8	-	2	1	-	1	
	5.7%	6.0%	5.5%	3.8%	3.4%	8.2%	1.7%	8.8%	4.3%	2.6%	6.8%	2.6%	3.4%	6.6%		3.8%	4.3%		5.0%	

Continued

Table 19-2
Q.17 - MAIN HEATING SYSTEM IN HOME
BASED ON TOTAL INTERVIEWED

	GENDER			RESPONDENT'S AGE			HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
- FORCED AIR HIGH EFFICIENCY OIL	9 4.3%	5 6.0%	4 3.1%	2 3.8%	2 3.4%	5 5.1%	-	5 6.3%	3 4.3%	1 2.6%	3 4.1%	1 2.6%	2 3.4%	5 4.1%	-	2 3.8%	1 4.3%	-	1 5.0%
- OIL-FIRED BOILER WITH RADIATORS	2 .9%	-	2 1.6%	-	-	2 2.0%	1 1.7%	1 1.3%	-	-	2 2.7%	-	-	2 1.7%	-	-	-	-	-
- GAS-FIRED RADIATORS	1 .5%	-	1 .8%	-	-	1 1.0%	-	1 1.3%	-	-	-	-	-	1 .8%	-	-	-	-	-
(NET) FORCED AIR	128 60.7%	44 52.4%	84 66.1%	26 50.0%	34 57.6%	68 69.4%	43 74.1%	50 62.5%	32 46.4%	28 71.8%	45 61.6%	18 47.4%	25 43.1%	83 68.6%	13 61.9%	27 51.9%	11 47.8%	14 63.6%	11 55.0%
- FORCED AIR CONVENTIONAL OR REGULAR GAS FURNACE	52 24.6%	15 17.9%	37 29.1%	8 15.4%	16 27.1%	28 28.6%	18 31.0%	24 30.0%	9 13.0%	11 28.2%	17 23.3%	7 18.4%	9 15.5%	35 28.9%	5 23.8%	6 11.5%	4 17.4%	5 22.7%	1 5.0%
- FORCED AIR HIGH EFFICIENCY GAS FURNACE	31 14.7%	11 13.1%	20 15.7%	6 11.5%	6 10.2%	19 19.4%	10 17.2%	12 15.0%	8 11.6%	4 10.3%	10 13.7%	5 13.2%	4 6.9%	22 18.2%	3 14.3%	7 13.5%	3 13.0%	4 18.2%	1 5.0%
- FORCED AIR OIL FURNACE	29 13.7%	11 13.1%	18 14.2%	9 17.3%	9 15.3%	11 11.2%	11 19.0%	8 10.0%	10 14.5%	10 25.6%	11 15.1%	5 13.2%	8 13.8%	17 14.0%	4 19.0%	11 21.2%	3 13.0%	4 18.2%	8 40.0%
- FORCED AIR HIGH EFFICIENCY OIL	9 4.3%	5 6.0%	4 3.1%	2 3.8%	2 3.4%	5 5.1%	-	5 6.3%	3 4.3%	1 2.6%	3 4.1%	1 2.6%	2 3.4%	5 4.1%	-	2 3.8%	1 4.3%	-	1 5.0%
- FORCE AIR ELECTRIC FURNACE	7 3.3%	2 2.4%	5 3.9%	1 1.9%	1 1.7%	5 5.1%	4 6.9%	1 1.3%	2 2.9%	2 5.1%	4 5.5%	-	2 3.4%	4 3.3%	1 4.8%	1 1.9%	-	1 4.5%	-
MISCELLANEOUS....																			
WOOD STOVE	26 12.3%	18 21.4%	8 6.3%	8 15.4%	8 13.6%	10 10.2%	-	11 13.8%	15 21.7%	1 2.6%	12 16.4%	6 15.8%	11 19.0%	13 10.7%	1 4.8%	9 17.3%	5 21.7%	1 4.5%	3 15.0%
OTHER	6 2.8%	3 3.6%	3 2.4%	2 3.8%	1 1.7%	3 3.1%	-	3 3.8%	3 4.3%	-	4 5.5%	2 5.3%	2 3.4%	3 2.5%	1 4.8%	3 5.8%	1 4.3%	-	2 10.0%
NONE/DK/NS	30 14.2%	12 14.3%	18 14.2%	12 23.1%	7 11.9%	9 9.2%	5 8.6%	12 15.0%	12 17.4%	6 15.4%	5 6.8%	9 23.7%	11 19.0%	11 9.1%	5 23.8%	9 17.3%	4 17.4%	3 13.6%	3 15.0%

Table 19-3

Q.17 - MAIN HEATING SYSTEM IN HOME
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE DET- ACHED	OTHER	30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER	
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
(NET) GAS	84	73	10	17	30	31	10	16	7	6	20	58	84	-	-	-
	39.8%	39.0%	55.6%	32.7%	50.0%	41.9%	28.6%	41.0%	23.3%	9.1%	40.8%	61.7%	100.0%			
- FORCED AIR CONVENTIONAL OR REGULAR GAS FURNACE	52	46	6	11	17	21	3	9	3	3	11	38	52	-	-	-
	24.6%	24.6%	33.3%	21.2%	28.3%	28.4%	8.6%	23.1%	10.0%	4.5%	22.4%	40.4%	61.9%			
- FORCED AIR HIGH EFFICIENCY GAS FURNACE	31	26	4	6	13	9	7	7	4	2	9	20	31	-	-	-
	14.7%	13.9%	22.2%	11.5%	21.7%	12.2%	20.0%	17.9%	13.3%	3.0%	18.4%	21.3%	36.9%			
- GAS-FIRED RADIATORS	1	1	-	-	-	1	-	-	-	1	-	-	1	-	-	-
	.5%	.5%				1.4%				1.5%			1.2%			
(NET) ELECTRICITY	25	21	3	12	5	2	3	6	6	11	6	8	-	25	-	-
	11.8%	11.2%	16.7%	23.1%	8.3%	2.7%	8.6%	15.4%	20.0%	16.7%	12.2%	8.5%	100.0%			
- ELECTRIC BASEBOARD HEATER	16	15	1	9	2	1	2	4	3	8	6	2	-	16	-	-
	7.6%	8.0%	5.6%	17.3%	3.3%	1.4%	5.7%	10.3%	10.0%	12.1%	12.2%	2.1%	64.0%			
- FORCE AIR ELECTRIC FURNACE	7	4	2	2	3	-	1	1	3	2	-	5	-	7	-	-
	3.3%	2.1%	11.1%	3.8%	5.0%		2.9%	2.6%	10.0%	3.0%		5.3%	28.0%			
- ELECTRIC RADIANT HEAT (IN FLOOR OR CEILING)	1	1	-	1	-	-	-	-	-	-	-	1	-	1	-	-
	.5%	.5%		1.9%								1.1%	4.0%			
- ELECTRIC BOILER WITH RADIATORS	1	1	-	-	-	1	-	1	-	1	-	-	-	1	-	-
	.5%	.5%				1.4%		2.6%		1.5%			4.0%			
(NET) OIL	40	38	2	7	10	17	9	3	3	15	11	13	-	-	40	-
	19.0%	20.3%	11.1%	13.5%	16.7%	23.0%	25.7%	7.7%	10.0%	22.7%	22.4%	13.8%	100.0%			
- FORCED AIR OIL FURNACE	29	27	2	4	6	14	7	3	2	10	10	8	-	-	29	-
	13.7%	14.4%	11.1%	7.7%	10.0%	18.9%	20.0%	7.7%	6.7%	15.2%	20.4%	8.5%	72.5%			
- FORCED AIR HIGH EFFICIENCY OIL	9	9	-	2	3	3	2	-	1	5	1	3	-	-	9	-
	4.3%	4.8%		3.8%	5.0%	4.1%	5.7%		3.3%	7.6%	2.0%	3.2%	22.5%			
- OIL-FIRED BOILER WITH RADIATORS	2	2	-	1	1	-	-	-	-	-	-	2	-	-	2	-
	.9%	1.1%		1.9%	1.7%							2.1%	5.0%			
(NET) RADIATORS	12	12	-	3	4	4	2	-	1	6	1	5	1	-	11	-
	5.7%	6.4%		5.8%	6.7%	5.4%	5.7%		3.3%	9.1%	2.0%	5.3%	1.2%	27.5%		

Continued

Table 19-3

Q.17 - MAIN HEATING SYSTEM IN HOME
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE DET- ACHED	OTHER		30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
- FORCED AIR HIGH EFFICIENCY OIL	9 4.3%	9 4.8%	-	2 3.8%	3 5.0%	3 4.1%	2 5.7%	-	1 3.3%	5 7.6%	1 2.0%	3 3.2%	-	-	9 22.5%	-
- OIL-FIRED BOILER WITH RADIATORS	2 .9%	2 1.1%	-	1 1.9%	1 1.7%	-	-	-	-	-	-	2 2.1%	-	-	2 5.0%	-
- GAS-FIRED RADIATORS	1 .5%	1 .5%	-	-	-	1 1.4%	-	-	-	1 1.5%	-	-	1 1.2%	-	-	-
(NET) FORCED AIR	128 60.7%	112 59.9%	14 7.8%	25 48.1%	42 70.0%	47 63.5%	20 57.1%	20 51.3%	13 43.3%	22 33.3%	31 63.3%	74 78.7%	83 98.8%	7 28.0%	38 95.0%	-
- FORCED AIR CONVENTIONAL OR REGULAR GAS FURNACE	52 24.6%	46 24.6%	6 33.3%	11 21.2%	17 28.3%	21 28.4%	3 8.6%	9 23.1%	3 10.0%	3 4.5%	11 22.4%	38 40.4%	52 61.9%	-	-	-
- FORCED AIR HIGH EFFICIENCY GAS FURNACE	31 14.7%	26 13.9%	4 22.2%	6 11.5%	13 21.7%	9 12.2%	7 20.0%	7 17.9%	4 13.3%	2 3.0%	9 18.4%	20 21.3%	31 36.9%	-	-	-
- FORCED AIR OIL FURNACE	29 13.7%	27 14.4%	2 11.1%	4 7.7%	6 10.0%	14 18.9%	7 20.0%	3 7.7%	2 6.7%	10 15.2%	10 20.4%	8 8.5%	-	-	29 72.5%	-
- FORCED AIR HIGH EFFICIENCY OIL	9 4.3%	9 4.8%	-	2 3.8%	3 5.0%	3 4.1%	2 5.7%	-	1 3.3%	5 7.6%	1 2.0%	3 3.2%	-	-	9 22.5%	-
- FORCE AIR ELECTRIC FURNACE	7 3.3%	4 2.1%	2 11.1%	2 3.8%	3 5.0%	-	1 2.9%	1 2.6%	3 10.0%	2 3.0%	-	5 5.3%	-	7 28.0%	-	-
MISCELLANEOUS....																
WOOD STOVE	26 12.3%	24 12.8%	1 5.6%	5 9.6%	6 10.0%	15 20.3%	9 25.7%	6 15.4%	3 10.0%	24 36.4%	1 2.0%	1 1.1%	-	-	-	26 81.3%
OTHER	6 2.8%	6 3.2%	-	1 1.9%	3 5.0%	2 2.7%	1 2.9%	1 2.6%	2 6.7%	3 4.5%	3 6.1%	-	-	-	-	6 18.8%
NONE/DK/NS	30 14.2%	25 13.4%	2 11.1%	10 19.2%	6 10.0%	7 9.5%	3 8.6%	7 17.9%	9 30.0%	7 10.6%	8 16.3%	14 14.9%	-	-	-	-

Table 20-1
Q.18 - AGE OF HEATING SYSTEM
BASED ON TOTAL INTERVIEWED

	WORK DONE THROUGH RRAP PROGRAM																						
	ROOF/ CHIM- RE- PAIR	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH -ER STRIP -PING	BATH ROOM	FOUN- DA- TION	INTER -IOR HOME/ KIT- CHEN	VENTS /VENT -ILA	EXTER -IOR HOME/ WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR			
	TOTAL	PAIR	DOORS	TURES	GRADE	TION	-ING	MENT	TEM	ING	-PING	ROOM	-TION	WALLS	KIT- CHEN	-TION	WALLS	/WELL	FLOORS	-TOR	SEWAGE	WATER	REPAIR
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
(0.5X) LESS THAN 1 YEAR	11 5.2%	6 5.7%	3 2.6%	-	1 2.5%	3 7.3%	2 8.0%	2 6.9%	3 10.7%	1 3.8%	1 7.1%	3 11.1%	1 5.9%	5 14.3%	2 20.0%	1 8.3%	2 11.1%	2 20.0%	1 8.3%	1 9.1%	1 11.1%	1 25.0%	-
(2.5X) 1 TO 5 YEARS	55 26.1%	25 23.6%	24 21.1%	6 14.0%	12 30.0%	10 24.4%	5 20.0%	5 17.2%	19 67.9%	7 26.9%	3 21.4%	9 33.3%	3 17.6%	7 20.0%	2 20.0%	4 33.3%	5 27.8%	2 20.0%	2 16.7%	1 9.1%	3 33.3%	1 25.0%	2 100.0%
(7.5X) 5+ TO 10 YEARS	50 23.7%	28 26.4%	26 22.8%	16 37.2%	10 25.0%	8 19.5%	3 12.0%	7 24.1%	5 17.9%	5 19.2%	9 64.3%	7 25.9%	6 35.3%	12 34.3%	1 10.0%	3 25.0%	4 22.2%	2 20.0%	4 33.3%	3 27.3%	2 22.2%	1 25.0%	-
(12.5X) 10+ TO 15 YEARS	29 13.7%	14 13.2%	20 17.5%	7 16.3%	6 15.0%	7 17.1%	4 16.0%	4 13.8%	-	4 15.4%	1 7.1%	4 14.8%	2 11.8%	5 14.3%	3 30.0%	-	1 5.6%	2 20.0%	2 16.7%	1 9.1%	1 11.1%	1 25.0%	-
(17.0X) 15+ TO 18 YEARS	6 2.8%	2 1.9%	2 1.8%	1 2.3%	-	2 4.9%	1 4.0%	-	-	-	-	-	1 5.9%	1 2.9%	-	-	1 5.6%	-	1 8.3%	-	-	-	-
(20.0X) 18+ TO 21 YEARS	16 7.6%	6 5.7%	11 9.6%	3 7.0%	4 10.0%	3 7.3%	2 8.0%	3 10.3%	-	3 11.5%	-	1 3.7%	1 5.9%	-	1 10.0%	1 8.3%	2 11.1%	1 10.0%	2 16.7%	1 9.1%	1 11.1%	-	-
(23.5X) 21+ TO 25 YEARS	10 4.7%	8 7.5%	2 1.8%	2 4.7%	1 2.5%	-	3 12.0%	2 6.9%	-	1 3.8%	-	2 7.4%	1 5.9%	1 2.9%	-	1 8.3%	-	-	-	1 9.1%	-	-	-
(50.0X) OLDER THAN 25 YEARS	19 9.0%	12 11.3%	14 12.3%	3 7.0%	2 5.0%	4 9.8%	2 8.0%	4 13.8%	1 3.6%	2 7.7%	-	-	2 11.8%	1 2.9%	-	2 16.7%	2 11.1%	-	-	1 9.1%	-	-	-
DK/NS	15 7.1%	5 4.7%	12 10.5%	5 11.6%	4 10.0%	4 9.8%	3 12.0%	2 6.9%	-	3 11.5%	-	1 3.7%	-	3 8.6%	1 10.0%	-	1 5.6%	1 10.0%	-	2 18.2%	1 11.1%	-	-
AVGE AGE OF HEATING SYSTEM	12.7	13.8	14.8	13.1	10.7	12.6	14.3	15.7	4.9	12.6	6.3	7.4	14.0	8.2	7.9	14.7	12.5	7.3	9.8	14.6	6.9	5.8	2.5
STD DEV	13.79	14.80	15.19	12.18	11.34	14.20	13.66	15.79	8.93	13.30	3.03	6.62	14.48	9.15	6.48	17.20	15.02	6.27	6.38	14.39	6.15	4.66	-
STD ERR	.99	1.47	1.50	1.98	1.89	2.34	2.91	3.04	1.69	2.77	.81	1.30	3.51	1.62	2.16	4.97	3.64	2.09	1.84	4.80	2.17	2.33	-

Table 20-2
Q.18 - AGE OF HEATING SYSTEM
BASED ON TOTAL INTERVIEWED

	GENDER			RESPONDENT'S AGE			HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
(0.5X) LESS THAN 1 YEAR	11	5	6	5	2	4	1	4	6	2	4	2	4	4	3	4	4	1	-
	5.2%	6.0%	4.7%	9.6%	3.4%	4.1%	1.7%	5.0%	8.7%	5.1%	5.5%	5.3%	6.9%	3.3%	14.3%	7.7%	17.4%	4.5%	
(2.5X) 1 TO 5 YEARS	55	22	33	17	14	24	11	25	19	7	19	13	19	28	5	16	4	7	7
	26.1%	26.2%	26.0%	32.7%	23.7%	24.5%	19.0%	31.3%	27.5%	17.9%	26.0%	34.2%	32.8%	23.1%	23.8%	30.8%	17.4%	31.8%	35.0%
(7.5X) 5+ TO 10 YEARS	50	20	30	11	13	26	15	18	17	9	21	6	12	31	6	14	9	5	4
	23.7%	23.8%	23.6%	21.2%	22.0%	26.5%	25.9%	22.5%	24.6%	23.1%	28.8%	15.8%	20.7%	25.6%	28.6%	26.9%	39.1%	22.7%	20.0%
(12.5X) 10+ TO 15 YEARS	29	11	18	4	11	14	9	13	7	9	8	7	5	18	3	5	-	3	3
	13.7%	13.1%	14.2%	7.7%	18.6%	14.3%	15.5%	16.3%	10.1%	23.1%	11.0%	18.4%	8.6%	14.9%	14.3%	9.6%		13.6%	15.0%
(17.0X) 15+ TO 18 YEARS	6	3	3	2	2	2	1	2	3	1	2	2	3	3	-	2	2	-	-
	2.8%	3.6%	2.4%	3.8%	3.4%	2.0%	1.7%	2.5%	4.3%	2.6%	2.7%	5.3%	5.2%	2.5%		3.8%	8.7%		
(20.0X) 18+ TO 21 YEARS	16	7	9	4	8	4	5	5	5	5	2	6	6	7	1	3	1	2	2
	7.6%	8.3%	7.1%	7.7%	13.6%	4.1%	8.6%	6.3%	7.2%	12.8%	2.7%	15.8%	10.3%	5.8%	4.8%	5.8%	4.3%	9.1%	10.0%
(23.5X) 21+ TO 25 YEARS	10	3	7	-	3	7	5	3	2	1	4	-	3	6	-	-	-	-	-
	4.7%	3.6%	5.5%		5.1%	7.1%	8.6%	3.8%	2.9%	2.6%	5.5%		5.2%	5.0%					
(50.0X) OLDER THAN 25 YEARS	19	9	10	4	3	12	4	6	7	1	8	1	3	15	1	5	2	2	2
	9.0%	10.7%	7.9%	7.7%	5.1%	12.2%	6.9%	7.5%	10.1%	2.6%	11.0%	2.6%	5.2%	12.4%	4.8%	9.6%	8.7%	9.1%	10.0%
DK/NS	15	4	11	5	3	5	7	4	3	4	5	1	3	9	2	3	1	2	2
	7.1%	4.8%	8.7%	9.6%	5.1%	5.1%	12.1%	5.0%	4.3%	10.3%	6.8%	2.6%	5.2%	7.4%	9.5%	5.8%	4.3%	9.1%	10.0%
AVGE AGE OF HEATING SYSTEM	12.7	13.2	12.3	10.5	12.2	14.1	13.5	11.4	12.3	11.1	12.9	10.0	10.8	14.4	8.8	11.3	10.6	11.7	12.5
STD DEV	13.79	14.51	13.26	13.36	11.25	15.16	12.60	12.85	14.36	9.22	14.79	9.43	11.75	15.24	10.95	14.07	13.54	13.93	14.39
STD ERR	.99	1.62	1.23	1.95	1.50	1.57	1.76	1.47	1.77	1.56	1.79	1.55	1.58	1.44	2.51	2.01	2.89	3.11	3.39

Table 20-3
Q.18 - AGE OF HEATING SYSTEM
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	TOTAL	SINGLE	OTHER	30 YRS	31-50	OVER	<1,000	1,000-	OVER	RURAL	TOWN	CITY	GAS	ELECT-	OIL	OTHER
		DET- ACHED		OR LESS		YEARS										
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
(0.5X) LESS THAN 1 YEAR	11 5.2%	11 5.9%	-	3 5.8%	3 5.0%	5 6.8%	-	5 12.8%	1 3.3%	4 6.1%	2 4.1%	5 5.3%	3 3.6%	1 4.0%	1 2.5%	2 6.3%
(2.5X) 1 TO 5 YEARS	55 26.1%	50 26.7%	3 16.7%	14 26.9%	21 35.0%	17 23.0%	15 42.9%	10 25.6%	11 36.7%	21 31.8%	10 20.4%	24 25.5%	24 28.6%	3 12.0%	7 17.5%	15 46.9%
(7.5X) 5+ TO 10 YEARS	50 23.7%	43 23.0%	5 27.8%	9 17.3%	13 21.7%	21 28.4%	8 22.9%	9 23.1%	10 33.3%	18 27.3%	11 22.4%	21 22.3%	18 21.4%	5 20.0%	12 30.0%	8 25.0%
(12.5X) 10+ TO 15 YEARS	29 13.7%	24 12.8%	4 22.2%	9 17.3%	10 16.7%	6 8.1%	3 8.6%	2 5.1%	3 10.0%	8 12.1%	7 14.3%	14 14.9%	11 13.1%	5 20.0%	6 15.0%	2 6.3%
(17.0X) 15+ TO 18 YEARS	6 2.8%	5 2.7%	1 5.6%	1 1.9%	2 3.3%	1 1.4%	1 2.9%	3 7.7%	-	2 3.0%	1 2.0%	3 3.2%	2 2.4%	1 4.0%	2 5.0%	1 3.1%
(20.0X) 18+ TO 21 YEARS	16 7.6%	15 8.0%	1 5.6%	6 11.5%	4 6.7%	6 8.1%	4 11.4%	3 7.7%	1 3.3%	3 4.5%	5 10.2%	7 7.4%	8 9.5%	1 4.0%	6 15.0%	-
(23.5X) 21+ TO 25 YEARS	10 4.7%	8 4.3%	2 11.1%	3 5.8%	1 1.7%	5 6.8%	1 2.9%	4 10.3%	-	-	2 4.1%	8 8.5%	4 4.8%	3 12.0%	1 2.5%	1 3.1%
(50.0X) OLDER THAN 25 YEARS	19 9.0%	17 9.1%	2 11.1%	5 9.6%	3 5.0%	8 10.8%	3 8.6%	2 5.1%	3 10.0%	6 9.1%	2 4.1%	11 11.7%	9 10.7%	3 12.0%	2 5.0%	3 9.4%
DK/NS	15 7.1%	14 7.5%	-	2 3.8%	3 5.0%	5 6.8%	-	1 2.6%	1 3.3%	4 6.1%	9 18.4%	1 1.1%	5 6.0%	3 12.0%	3 7.5%	-
AVGE AGE OF HEATING SYSTEM	12.7	12.6	15.5	13.5	9.9	13.5	11.6	11.2	10.7	11.0	11.5	14.2	13.6	16.6	12.4	9.8
STD DEV	13.79	13.91	13.73	13.97	11.14	14.79	13.37	11.93	13.99	13.70	11.04	14.76	14.59	14.86	10.97	13.83
STD ERR	.99	1.06	3.24	1.98	1.48	1.78	2.26	1.93	2.60	1.74	1.75	1.53	1.64	3.17	1.80	2.44

Table 21-1
Q.19 - APPROXIMATE AGE OF HOME
BASED ON TOTAL INTERVIEWED

	WORK DONE THROUGH RRAP PROGRAM																						
	ROOF/ CHIM. RE- PAIR	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH- ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER- IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT -ILA	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC- TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
	TOTAL	PAIR	DOORS	TURES	GRADE	TION	-ING	MENT	TEM	ING	-PING	ROOM	-TION	HOME/ WALLS	KIT- CHEN	-TION	WALLS	/WELL	FLOORS	-TOR	SEWAGE	WATER	REPAIR
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
1-10 YEARS	2 .9%	1 .9%	1 .9%	1 2.3%	-	1 2.4%	-	-	2 7.1%	1 3.8%	-	-	2 11.8%	2 5.7%	-	-	1 5.6%	-	1 8.3%	1 9.1%	-	-	-
11-20 YEARS	20 9.5%	8 7.5%	11 9.6%	4 9.3%	1 2.5%	5 12.2%	-	-	1 3.6%	1 3.8%	1 7.1%	2 7.4%	1 5.9%	-	-	1 8.3%	2 11.1%	2 20.0%	1 8.3%	-	1 11.1%	1 25.0%	-
21-30 YEARS	30 14.2%	14 13.2%	18 15.8%	7 16.3%	2 5.0%	2 4.9%	2 8.0%	2 6.9%	4 14.3%	3 11.5%	2 14.3%	2 7.4%	-	2 5.7%	1 10.0%	2 16.7%	1 5.6%	2 20.0%	1 8.3%	2 18.2%	1 11.1%	1 25.0%	-
31-40 YEARS	35 16.6%	15 14.2%	18 15.8%	6 14.0%	7 17.5%	7 17.1%	3 12.0%	5 17.2%	8 28.6%	6 23.1%	1 7.1%	6 22.2%	4 23.5%	5 14.3%	2 20.0%	1 8.3%	1 5.6%	1 10.0%	2 16.7%	2 18.2%	3 33.3%	1 25.0%	-
41-50 YEARS	25 11.8%	14 13.2%	15 13.2%	1 2.3%	7 17.5%	4 9.8%	2 8.0%	5 17.2%	4 14.3%	2 7.7%	3 21.4%	2 7.4%	2 11.8%	2 5.7%	-	1 8.3%	2 11.1%	2 20.0%	1 8.3%	2 18.2%	1 11.1%	-	-
51-75 YEARS	26 12.3%	11 10.4%	14 12.3%	9 20.9%	5 12.5%	6 14.6%	3 12.0%	6 20.7%	2 7.1%	4 15.4%	1 7.1%	-	3 17.6%	4 11.4%	3 30.0%	3 25.0%	4 22.2%	1 10.0%	1 8.3%	1 9.1%	1 11.1%	-	-
76-100 YEARS	37 17.5%	23 21.7%	17 14.9%	8 18.6%	9 22.5%	9 22.0%	6 24.0%	8 27.6%	3 10.7%	5 19.2%	2 14.3%	9 33.3%	2 11.8%	13 37.1%	-	1 8.3%	4 22.2%	1 10.0%	4 33.3%	2 18.2%	1 11.1%	-	-
OVER 100 YEARS	11 5.2%	7 6.6%	5 4.4%	-	3 7.5%	3 7.3%	5 20.0%	2 6.9%	3 10.7%	1 3.8%	-	1 3.7%	1 5.9%	2 5.7%	2 20.0%	-	-	-	-	-	-	1 25.0%	2 100.0%
DK/NS	25 11.8%	13 12.3%	15 13.2%	7 16.3%	6 15.0%	4 9.8%	4 16.0%	1 3.4%	1 3.6%	3 11.5%	4 28.6%	5 18.5%	2 11.8%	5 14.3%	2 20.0%	3 25.0%	3 16.7%	1 10.0%	1 8.3%	1 9.1%	1 11.1%	-	-
AVGE AGE OF HOME	54.5	59.6	52.5	51.3	64.6	59.9	77.4	68.6	51.1	56.4	50.7	64.0	54.1	71.6	70.8	51.7	55.3	41.6	57.2	49.4	46.5	45.0	147.5
STD DEV	31.37	33.72	30.01	27.45	30.24	33.05	37.15	32.86	34.19	30.30	24.94	35.14	36.08	34.50	39.35	26.60	27.91	24.51	34.40	29.22	24.82	33.55	2.50
STD ERR	2.30	3.50	3.02	4.58	5.19	5.43	8.11	6.21	6.58	6.32	7.89	7.49	9.32	6.30	13.91	8.87	7.21	8.17	10.37	9.24	8.77	16.77	1.77

Table 21-2
Q.19 - APPROXIMATE AGE OF HOME
BASED ON TOTAL INTERVIEWED

	GENDER			RESPONDENT'S AGE			HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
1-10 YEARS	2 .9%	1 1.2%	1 .8%	1 1.9%	1 1.7%	-	-	1 1.3%	1 1.4%	1 2.6%	1 1.4%	-	1 1.7%	1 .8%	-	1 1.9%	-	1 4.5%	-
11-20 YEARS	20 9.5%	10 11.9%	10 7.9%	7 13.5%	6 10.2%	7 7.1%	2 3.4%	8 10.0%	9 13.0%	4 10.3%	3 4.1%	4 10.5%	9 15.5%	7 5.8%	1 4.8%	6 11.5%	1 4.3%	-	4 20.0%
21-30 YEARS	30 14.2%	9 10.7%	21 16.5%	9 17.3%	11 18.6%	10 10.2%	9 15.5%	9 11.3%	12 17.4%	7 17.9%	11 15.1%	4 10.5%	10 17.2%	15 12.4%	4 19.0%	7 13.5%	3 13.0%	4 18.2%	2 10.0%
31-40 YEARS	35 16.6%	16 19.0%	19 15.0%	4 7.7%	10 16.9%	21 21.4%	9 15.5%	16 20.0%	10 14.5%	6 15.4%	16 21.9%	4 10.5%	3 5.2%	24 19.8%	7 33.3%	7 13.5%	2 8.7%	4 18.2%	3 15.0%
41-50 YEARS	25 11.8%	10 11.9%	15 11.8%	5 9.6%	7 11.9%	13 13.3%	7 12.1%	10 12.5%	8 11.6%	4 10.3%	9 12.3%	4 10.5%	5 8.6%	14 11.6%	4 19.0%	5 9.6%	3 13.0%	3 13.6%	2 10.0%
51-75 YEARS	26 12.3%	8 9.5%	18 14.2%	10 19.2%	5 8.5%	11 11.2%	9 15.5%	5 6.3%	10 14.5%	4 10.3%	7 9.6%	9 23.7%	10 17.2%	14 11.6%	1 4.8%	9 17.3%	5 21.7%	6 27.3%	3 15.0%
76-100 YEARS	37 17.5%	18 21.4%	19 15.0%	11 21.2%	8 13.6%	18 18.4%	10 17.2%	17 21.3%	10 14.5%	5 12.8%	16 21.9%	7 18.4%	13 22.4%	22 18.2%	1 4.8%	10 19.2%	7 30.4%	2 9.1%	4 20.0%
OVER 100 YEARS	11 5.2%	6 7.1%	5 3.9%	4 7.7%	4 6.8%	3 3.1%	2 3.4%	4 5.0%	5 7.2%	-	4 5.5%	5 13.2%	4 6.9%	4 3.3%	3 14.3%	5 9.6%	2 8.7%	1 4.5%	2 10.0%
DK/NS	25 11.8%	6 7.1%	19 15.0%	1 1.9%	7 11.9%	15 15.3%	10 17.2%	10 12.5%	4 5.8%	8 20.5%	6 8.2%	1 2.6%	3 5.2%	20 16.5%	-	2 3.8%	-	1 4.5%	-
AVGE AGE OF HOME	54.5	57.1	52.7	57.7	52.3	54.0	55.9	55.2	53.0	44.3	57.5	64.0	57.9	54.2	53.1	59.1	66.6	52.9	58.6
STD DEV	31.37	33.07	29.95	32.25	35.50	27.69	29.23	32.19	32.28	24.77	32.93	32.83	35.03	29.12	33.44	33.66	28.99	27.75	36.79
STD ERR	2.30	3.74	2.88	4.52	4.92	3.04	4.22	3.85	4.00	4.45	4.02	5.40	4.72	2.90	7.30	4.76	6.04	6.05	8.23

Table 21-3
Q.19 - APPROXIMATE AGE OF HOME
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE DET- TOTAL	ACHED OTHER	OTHER	30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
1-10 YEARS	2 .9%	2 1.1%	-	2 3.8%	-	-	-	1 2.6%	1 3.3%	1 1.5%	1 2.0%	-	1 1.2%	1 4.0%	-	-
11-20 YEARS	20 9.5%	17 9.1%	-	20 38.5%	-	-	5 14.3%	4 10.3%	3 10.0%	11 16.7%	5 10.2%	4 4.3%	4 4.8%	4 16.0%	2 5.0%	4 12.5%
21-30 YEARS	30 14.2%	26 13.9%	4 22.2%	30 57.7%	-	-	5 14.3%	8 20.5%	4 13.3%	7 10.6%	9 18.4%	14 14.9%	12 14.3%	7 28.0%	5 12.5%	2 6.3%
31-40 YEARS	35 16.6%	32 17.1%	3 16.7%	-	35 58.3%	-	11 31.4%	8 20.5%	3 10.0%	7 10.6%	7 14.3%	21 22.3%	16 19.0%	4 16.0%	8 20.0%	6 18.8%
41-50 YEARS	25 11.8%	21 11.2%	2 11.1%	-	25 41.7%	-	4 11.4%	5 12.8%	4 13.3%	3 4.5%	5 10.2%	17 18.1%	14 16.7%	1 4.0%	2 5.0%	3 9.4%
51-75 YEARS	26 12.3%	24 12.8%	2 11.1%	-	-	26 35.1%	4 11.4%	4 10.3%	2 6.7%	12 18.2%	5 10.2%	8 8.5%	13 15.5%	-	5 12.5%	5 15.6%
76-100 YEARS	37 17.5%	34 18.2%	3 16.7%	-	-	37 50.0%	3 8.6%	6 15.4%	8 26.7%	16 24.2%	7 14.3%	14 14.9%	14 16.7%	2 8.0%	10 25.0%	8 25.0%
OVER 100 YEARS	11 5.2%	10 5.3%	1 5.6%	-	-	11 14.9%	2 5.7%	1 2.6%	2 6.7%	5 7.6%	3 6.1%	3 3.2%	4 4.8%	-	2 5.0%	4 12.5%
DK/NS	25 11.8%	21 11.2%	3 16.7%	-	-	-	1 2.9%	2 5.1%	3 10.0%	4 6.1%	7 14.3%	13 13.8%	6 7.1%	6 24.0%	6 15.0%	-
AVGE AGE OF HOME	54.5	55.1	56.1	22.5	41.1	87.9	46.8	46.6	58.6	60.1	52.5	51.3	54.9	34.2	59.9	65.4
STD DEV	31.37	31.54	30.01	5.53	5.75	21.10	27.38	27.78	34.35	35.49	32.49	26.67	28.65	24.33	32.24	35.21
STD ERR	2.30	2.45	7.75	.77	.74	2.45	4.70	4.57	6.61	4.51	5.01	2.96	3.24	5.58	5.53	6.22

WORK DONE THROUGH RRAP PROGRAM

[illegible]

Table 22-2

Q.20 - LENGTH OF TIME IN CURRENT RESIDENCE
BASED ON TOTAL INTERVIEWED

	GENDER		RESPONDENT'S AGE				HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
LESS THAN 2 YEARS	2	2	-	1	-	1	-	1	1	-	1	1	1	1	-	1	1	1	-
	.9%	2.4%		1.9%		1.0%		1.3%	1.4%		1.4%	2.6%	1.7%	.8%		1.9%	4.3%	4.5%	
2 TO 5 YEARS	28	14	14	12	10	6	3	9	15	-	13	7	15	9	4	12	9	4	3
	13.3%	16.7%	11.0%	23.1%	16.9%	6.1%	5.2%	11.3%	21.7%		17.8%	18.4%	25.9%	7.4%	19.0%	23.1%	39.1%	18.2%	15.0%
6 TO 10 YEARS	37	16	21	18	8	11	5	17	14	7	9	10	15	13	7	15	6	8	2
	17.5%	19.0%	16.5%	34.6%	13.6%	11.2%	8.6%	21.3%	20.3%	17.9%	12.3%	26.3%	25.9%	10.7%	33.3%	28.8%	26.1%	36.4%	10.0%
11 TO 15 YEARS	24	8	16	10	8	6	6	6	12	4	9	7	9	12	1	10	2	4	7
	11.4%	9.5%	12.6%	19.2%	13.6%	6.1%	10.3%	7.5%	17.4%	10.3%	12.3%	18.4%	15.5%	9.9%	4.8%	19.2%	8.7%	18.2%	35.0%
16 TO 20 YEARS	19	5	14	6	7	6	7	4	8	6	5	3	5	9	3	8	4	3	5
	9.0%	6.0%	11.0%	11.5%	11.9%	6.1%	12.1%	5.0%	11.6%	15.4%	6.8%	7.9%	8.6%	7.4%	14.3%	15.4%	17.4%	13.6%	25.0%
MORE THAN 20 YEARS	99	38	61	4	26	68	37	43	18	22	36	9	12	77	6	6	1	2	3
	46.9%	45.2%	48.0%	7.7%	44.1%	69.4%	63.8%	53.8%	26.1%	56.4%	49.3%	23.7%	20.7%	63.6%	28.6%	11.5%	4.3%	9.1%	15.0%
DK/NS	2	1	1	1	-	-	-	-	1	-	-	1	1	-	-	-	-	-	-
	.9%	1.2%	.8%	1.9%					1.4%			2.6%	1.7%						

Table 22-3
Q.20 - LENGTH OF TIME IN CURRENT RESIDENCE
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	TOTAL	SINGLE DET- ACHED	OTHER	30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
LESS THAN 2 YEARS	2 .9%	2 1.1%	-	-	1 1.7%	1 1.4%	-	1 2.6%	-	-	1 2.0%	1 1.1%	2 2.4%	-	-	-
2 TO 5 YEARS	28 13.3%	26 13.9%	1 5.6%	6 11.5%	7 11.7%	14 18.9%	6 17.1%	8 20.5%	4 13.3%	12 18.2%	6 12.2%	10 10.6%	11 13.1%	3 12.0%	2 5.0%	6 18.8%
6 TO 10 YEARS	37 17.5%	33 17.6%	3 16.7%	12 23.1%	8 13.3%	12 16.2%	9 25.7%	7 17.9%	10 33.3%	14 21.2%	7 14.3%	16 17.0%	13 15.5%	7 28.0%	5 12.5%	4 12.5%
11 TO 15 YEARS	24 11.4%	20 10.7%	3 16.7%	8 15.4%	5 8.3%	9 12.2%	6 17.1%	5 12.8%	1 3.3%	9 13.6%	5 10.2%	9 9.6%	7 8.3%	3 12.0%	8 20.0%	5 15.6%
16 TO 20 YEARS	19 9.0%	18 9.6%	-	10 19.2%	1 1.7%	7 9.5%	5 14.3%	3 7.7%	1 3.3%	5 7.6%	9 18.4%	5 5.3%	8 9.5%	3 12.0%	5 12.5%	2 6.3%
MORE THAN 20 YEARS	99 46.9%	87 46.5%	11 61.1%	15 28.8%	38 63.3%	31 41.9%	9 25.7%	15 38.5%	13 43.3%	26 39.4%	20 40.8%	53 56.4%	43 51.2%	9 36.0%	20 50.0%	15 46.9%
DK/NS	2 .9%	1 .5%	-	1 1.9%	-	-	-	-	1 3.3%	-	1 2.0%	-	-	-	-	-

Table 23-1
Q.21 - SIZE OF RESIDENCE (SQUARE FEET)
BASED ON TOTAL INTERVIEWED

	WORK DONE THROUGH RRAP PROGRAM																						
	ROOF/ CHIM. RE- TOTAL	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH -ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT -TION	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
LESS THAN 1,000 SQUARE FEET	35 16.6%	16 15.1%	19 16.7%	4 9.3%	6 15.0%	6 14.6%	4 16.0%	4 13.8%	5 17.9%	3 11.5%	4 28.6%	8 29.6%	3 17.6%	3 8.6%	1 10.0%	5 41.7%	2 11.1%	2 20.0%	2 16.7%	2 18.2%	3 33.3%	1 25.0%	-
1,000 TO 1,499 SQUARE FEET	39 18.5%	19 17.9%	14 12.3%	5 11.6%	4 10.0%	8 19.5%	5 20.0%	5 17.2%	6 21.4%	4 15.4%	3 21.4%	5 18.5%	3 17.6%	8 22.9%	- 41.7%	5 16.7%	3 40.0%	4 25.0%	3 27.3%	4 44.4%	1 25.0%	-	
1,500 TO 1,999 SQUARE FEET	18 8.5%	12 11.3%	8 7.0%	7 16.3%	1 2.5%	5 12.2%	1 4.0%	2 6.9%	2 7.1%	6 23.1%	-	2 7.4%	2 11.8%	3 8.6%	-	-	1 5.6%	2 20.0%	2 16.7%	1 9.1%	1 11.1%	1 25.0%	-
2,000 TO 2,499 SQUARE FEET	8 3.8%	2 1.9%	6 5.3%	1 2.3%	2 5.0%	1 2.4%	-	-	-	-	-	-	1 5.9%	2 5.7%	-	-	-	1 10.0%	-	-	-	-	-
2,500 TO 2,999 SQUARE FEET	3 1.4%	-	3 2.6%	1 2.3%	2 5.0%	1 2.4%	-	-	1 3.6%	-	-	-	-	1 2.9%	-	-	-	-	-	-	-	-	-
3,000 SQUARE FEET	1 .5%	1 .9%	-	-	1 2.5%	-	-	-	1 3.6%	1 3.8%	-	-	-	-	-	-	-	-	-	-	-	-	-
DK/NS	107 50.7%	56 52.8%	64 56.1%	25 58.1%	24 60.0%	20 48.8%	15 60.0%	18 62.1%	13 46.4%	12 46.2%	7 50.0%	12 44.4%	8 47.1%	18 51.4%	9 90.0%	2 16.7%	12 66.7%	1 10.0%	5 41.7%	5 45.5%	1 11.1%	1 25.0%	2 100.0%

Table 23-2

Q.21 - SIZE OF RESIDENCE (SQUARE FEET)
BASED ON TOTAL INTERVIEWED

	GENDER		RESPONDENT'S AGE				HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
LESS THAN 1,000 SQUARE FEET	35	16	19	12	11	12	6	12	17	5	15	6	12	16	6	14	5	5	5
	16.6%	19.0%	15.0%	23.1%	18.6%	12.2%	10.3%	15.0%	24.6%	12.8%	20.5%	15.8%	20.7%	13.2%	28.6%	26.9%	21.7%	22.7%	25.0%
1,000 TO 1,499 SQUARE FEET	39	22	17	10	14	15	6	18	15	2	15	11	16	20	2	9	6	5	1
	18.5%	26.2%	13.4%	19.2%	23.7%	15.3%	10.3%	22.5%	21.7%	5.1%	20.5%	28.9%	27.6%	16.5%	9.5%	17.3%	26.1%	22.7%	5.0%
1,500 TO 1,999 SQUARE FEET	18	12	6	7	4	7	1	10	7	4	6	4	7	9	1	6	3	2	1
	8.5%	14.3%	4.7%	13.5%	6.8%	7.1%	1.7%	12.5%	10.1%	10.3%	8.2%	10.5%	12.1%	7.4%	4.8%	11.5%	13.0%	9.1%	5.0%
2,000 TO 2,499 SQUARE FEET	8	3	5	5	1	2	3	-	5	1	3	3	4	2	2	4	3	2	2
	3.8%	3.6%	3.9%	9.6%	1.7%	2.0%	5.2%	-	7.2%	2.6%	4.1%	7.9%	6.9%	1.7%	9.5%	7.7%	13.0%	9.1%	10.0%
2,500 TO 2,999 SQUARE FEET	3	2	1	2	-	1	2	-	1	1	1	1	2	1	-	1	-	-	1
	1.4%	2.4%	.8%	3.8%	-	1.0%	3.4%	-	1.4%	2.6%	1.4%	2.6%	3.4%	.8%	-	1.9%	-	-	5.0%
3,000 SQUARE FEET	1	-	1	-	1	-	-	1	-	-	-	1	1	-	-	-	-	-	-
	.5%	-	.8%	-	1.7%	-	-	1.3%	-	-	-	2.6%	1.7%	-	-	-	-	-	-
DK/NS	107	29	78	16	28	61	40	39	24	26	33	12	16	73	10	18	6	8	10
	50.7%	34.5%	61.4%	30.8%	47.5%	62.2%	69.0%	48.8%	34.8%	66.7%	45.2%	31.6%	27.6%	60.3%	47.6%	34.6%	26.1%	36.4%	50.0%

Table 23-3

Q.21 - SIZE OF RESIDENCE (SQUARE FEET)
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE	DET-	OTHER	30 YRS	31-50	OVER	<1,000	1,000-	OVER	RURAL	TOWN	CITY	GAS	ELECT-	OIL	OTHER
	ACHED			LESS	YEARS	YEARS	SQ.FT.	1,500	1,500					RICITY		
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
LESS THAN 1,000 SQUARE FEET	35	32	2	10	15	9	35	-	-	14	7	14	10	3	9	10
	16.6%	17.1%	11.1%	19.2%	25.0%	12.2%	100.0%			21.2%	14.3%	14.9%	11.9%	12.0%	22.5%	31.3%
1,000 TO 1,499 SQUARE FEET	39	33	4	13	13	11	-	39	-	12	8	19	16	6	3	7
	18.5%	17.6%	22.2%	25.0%	21.7%	14.9%		100.0%		18.2%	16.3%	20.2%	19.0%	24.0%	7.5%	21.9%
1,500 TO 1,999 SQUARE FEET	18	15	2	7	3	6	-	-	18	7	4	7	3	2	2	3
	8.5%	8.0%	11.1%	13.5%	5.0%	8.1%			60.0%	10.6%	8.2%	7.4%	3.6%	8.0%	5.0%	9.4%
2,000 TO 2,499 SQUARE FEET	8	7	1	1	2	4	-	-	8	5	-	3	2	3	1	1
	3.8%	3.7%	5.6%	1.9%	3.3%	5.4%			26.7%	7.6%		3.2%	2.4%	12.0%	2.5%	3.1%
2,500 TO 2,999 SQUARE FEET	3	2	1	-	1	2	-	-	3	1	-	2	1	1	-	1
	1.4%	1.1%	5.6%		1.7%	2.7%			10.0%	1.5%		2.1%	1.2%	4.0%		3.1%
3,000 SQUARE FEET	1	1	-	-	1	-	-	-	1	-	-	1	1	-	-	-
	.5%	.5%			1.7%				3.3%			1.1%	1.2%			
DK/NS	107	97	8	21	25	42	-	-	-	27	30	48	51	10	25	10
	50.7%	51.9%	44.4%	40.4%	41.7%	56.8%				40.9%	61.2%	51.1%	60.7%	40.0%	62.5%	31.3%

Table 24-1
Q.22 - APPROXIMATE ANNUAL FUEL BILL
BASED ON TOTAL INTERVIEWED

	WORK DONE THROUGH RRAP PROGRAM																						
	ROOF/ CHIM.	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH -ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT -ILA	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
	TOTAL	PAIR																					
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
\$100 OR LESS	1 .5%	-	1 .9%	-	-	-	1 4.0%	-	-	-	-	-	1 5.9%	-	-	-	-	-	-	-	-	-	-
\$101-\$250	1 .5%	-	-	-	-	-	-	-	-	1 3.8%	-	-	-	1 2.9%	-	-	-	-	-	-	-	-	-
\$251-\$500	16 7.6%	7 6.6%	6 5.3%	3 7.0%	1 2.5%	3 7.3%	2 8.0%	2 6.9%	3 10.7%	1 3.8%	1 7.1%	2 7.4%	-	3 8.6%	2 20.0%	1 8.3%	1 5.6%	2 20.0%	1 8.3%	-	2 22.2%	-	-
\$501-\$750	41 19.4%	17 16.0%	22 19.3%	6 14.0%	10 25.0%	8 19.5%	1 4.0%	7 24.1%	9 32.1%	5 19.2%	4 28.6%	4 14.8%	4 23.5%	5 14.3%	2 20.0%	1 8.3%	7 38.9%	-	1 8.3%	4 36.4%	3 33.3%	1 25.0%	-
\$751-\$1050	49 23.2%	22 20.8%	22 19.3%	8 18.6%	14 35.0%	17 41.5%	8 32.0%	7 24.1%	10 35.7%	11 42.3%	4 28.6%	5 18.5%	2 11.8%	8 22.9%	2 20.0%	5 41.7%	6 33.3%	-	2 16.7%	2 18.2%	-	1 25.0%	-
\$1001-\$1250	20 9.5%	13 12.3%	8 7.0%	5 11.6%	3 7.5%	1 2.4%	4 16.0%	5 17.2%	3 10.7%	3 11.5%	-	3 11.1%	3 17.6%	1 2.9%	1 10.0%	3 25.0%	1 5.6%	2 20.0%	1 8.3%	-	3 33.3%	2 50.0%	2 100.0%
\$1251-\$1500	20 9.5%	11 10.4%	10 8.8%	7 16.3%	2 5.0%	5 12.2%	2 8.0%	4 13.8%	1 3.6%	1 3.8%	1 7.1%	3 11.1%	1 5.9%	5 14.3%	-	2 16.7%	1 5.6%	2 20.0%	2 16.7%	2 18.2%	-	-	-
\$1501-\$2000	11 5.2%	5 4.7%	9 7.9%	1 2.3%	3 7.5%	2 4.9%	2 8.0%	2 6.9%	-	-	1 7.1%	1 3.7%	-	3 8.6%	-	-	1 5.6%	2 20.0%	1 8.3%	-	-	-	-
\$2001-\$2500	3 1.4%	1 .9%	2 1.8%	-	-	-	-	-	-	-	-	-	1 5.9%	-	-	-	-	-	-	-	-	-	-
\$3001 PLUS	2 .9%	1 .9%	2 1.8%	-	1 2.5%	-	1 4.0%	1 3.4%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DK/NS	47 22.3%	29 27.4%	32 28.1%	13 30.2%	6 15.0%	5 12.2%	4 16.0%	1 3.4%	2 7.1%	4 15.4%	3 21.4%	9 33.3%	5 29.4%	9 25.7%	3 30.0%	-	1 5.6%	2 20.0%	4 33.3%	3 27.3%	1 11.1%	-	-
AVGE \$ FUEL BILL	998	1024	1072	989	1034	922	1103	1057	817	848	852	975	1005	1007	743	988	901	1214	1103	881	805	988	1200
STD DEV \$	519	474	621	374	618	381	639	544	244	267	356	417	564	481	222	260	374	539	414	281	333	230	-
STD ERR \$	41	54	69	68	106	64	139	103	48	57	107	98	163	94	84	75	91	190	146	99	118	115	-

Table 24-2
Q.22 - APPROXIMATE ANNUAL FUEL BILL
BASED ON TOTAL INTERVIEWED

	GENDER			RESPONDENT'S AGE			HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE-MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
\$100 OR LESS	1 .5%	1 1.2%	-	-	1 1.7%	-	-	-	1 1.4%	-	-	1 2.6%	1 1.7%	-	-	-	-	-	-
\$101-\$250	1 .5%	-	1 .8%	1 1.9%	-	-	-	1 1.3%	-	-	1 1.4%	-	1 1.7%	-	-	-	-	-	-
\$251-\$500	16 7.6%	9 10.7%	7 5.5%	6 11.5%	6 10.2%	4 4.1%	1 1.7%	9 11.3%	6 8.7%	4 10.3%	4 5.5%	4 10.5%	8 13.8%	7 5.8%	1 4.8%	6 11.5%	6 26.1%	2 9.1%	-
\$501-\$750	41 19.4%	21 25.0%	20 15.7%	9 17.3%	13 22.0%	19 19.4%	10 17.2%	20 25.0%	10 14.5%	6 15.4%	16 21.9%	7 18.4%	14 24.1%	23 19.0%	3 14.3%	6 11.5%	3 13.0%	2 9.1%	3 15.0%
\$751-\$1050	49 23.2%	16 19.0%	33 26.0%	20 38.5%	10 16.9%	19 19.4%	15 25.9%	12 15.0%	22 31.9%	9 23.1%	20 27.4%	12 31.6%	14 24.1%	24 19.8%	8 38.1%	21 40.4%	9 39.1%	10 45.5%	7 35.0%
\$1001-\$1250	20 9.5%	10 11.9%	10 7.9%	1 1.9%	8 13.6%	11 11.2%	5 8.6%	8 10.0%	6 8.7%	4 10.3%	6 8.2%	2 5.3%	3 5.2%	14 11.6%	2 9.5%	2 3.8%	-	1 4.5%	1 5.0%
\$1251-\$1500	20 9.5%	7 8.3%	13 10.2%	6 11.5%	3 5.1%	11 11.2%	6 10.3%	9 11.3%	5 7.2%	3 7.7%	9 12.3%	3 7.9%	5 8.6%	12 9.9%	2 9.5%	5 9.6%	-	2 9.1%	3 15.0%
\$1501-\$2000	11 5.2%	4 4.8%	7 5.5%	3 5.8%	5 8.5%	3 3.1%	5 8.6%	2 2.5%	4 5.8%	4 10.3%	3 4.1%	2 5.3%	5 8.6%	5 4.1%	1 4.8%	4 7.7%	1 4.3%	1 4.5%	3 15.0%
\$2001-\$2500	3 1.4%	2 2.4%	1 .8%	-	1 1.7%	2 2.0%	1 1.7%	1 1.3%	1 1.4%	-	1 1.4%	1 2.6%	1 1.7%	1 .8%	1 4.8%	-	-	-	-
\$3001 PLUS	2 .9%	-	2 1.6%	-	1 1.7%	1 1.0%	1 1.7%	-	1 1.4%	-	1 1.4%	-	-	1 .8%	1 4.8%	1 1.9%	1 4.3%	1 4.5%	-
DK/NS	47 22.3%	14 16.7%	33 26.0%	6 11.5%	11 18.6%	28 28.6%	14 24.1%	18 22.5%	13 18.8%	9 23.1%	12 16.4%	6 15.8%	6 10.3%	34 28.1%	2 9.5%	7 13.5%	3 13.0%	3 13.6%	3 15.0%
AVGE \$ FUEL BILL	998	932	1047	917	1007	1046	1140	902	997	1001	998	952	906	1013	1162	1007	875	1075	1120
STD DEV \$	519	458	555	381	587	541	621	413	517	435	569	455	488	506	656	506	606	585	437
STD ERR \$	41	55	57	56	85	65	94	52	69	80	73	81	68	54	150	75	136	134	106

Table 24-3
Q.22 - APPROXIMATE ANNUAL FUEL BILL
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE	DET-	OTHER	30 YRS	31-50	OVER	<1,000	1,000-	OVER	RURAL	TOWN	CITY	GAS	ELECT-	OIL	OTHER
	ACHED	ACHED		OR	YEARS	YEARS	SQ.FT.	1,500	1,500					RICITY		
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
\$100 OR LESS	1 .5%	1 .5%	-	-	1 1.7%	-	-	1 2.6%	-	1 1.5%	-	-	-	-	-	1 3.1%
\$101-\$250	1 .5%	1 .5%	-	-	-	1 1.4%	-	-	-	1 1.5%	-	-	-	-	-	1 3.1%
\$251-\$500	16 7.6%	14 7.5%	1 5.6%	5 9.6%	4 6.7%	5 6.8%	3 8.6%	5 12.8%	2 6.7%	7 10.6%	4 8.2%	5 5.3%	6 7.1%	1 4.0%	5 12.5%	2 6.3%
\$501-\$750	41 19.4%	37 19.8%	4 22.2%	6 11.5%	17 28.3%	15 20.3%	9 25.7%	7 17.9%	6 20.0%	10 15.2%	6 12.2%	25 26.6%	22 26.2%	-	6 15.0%	6 18.8%
\$751-\$1050	49 23.2%	42 22.5%	5 27.8%	11 21.2%	14 23.3%	19 25.7%	8 22.9%	12 30.8%	7 23.3%	14 21.2%	10 20.4%	24 25.5%	21 25.0%	5 20.0%	14 35.0%	6 18.8%
\$1001-\$1250	20 9.5%	19 10.2%	-	5 9.6%	4 6.7%	10 13.5%	2 5.7%	4 10.3%	1 3.3%	8 12.1%	3 6.1%	9 9.6%	8 9.5%	2 8.0%	3 7.5%	6 18.8%
\$1251-\$1500	20 9.5%	16 8.6%	4 22.2%	7 13.5%	3 5.0%	9 12.2%	4 11.4%	4 10.3%	4 13.3%	7 10.6%	4 8.2%	9 9.6%	5 6.0%	4 16.0%	5 12.5%	2 6.3%
\$1501-\$2000	11 5.2%	10 5.3%	-	3 5.8%	3 5.0%	4 5.4%	3 8.6%	1 2.6%	4 13.3%	4 6.1%	5 10.2%	2 2.1%	1 1.2%	4 16.0%	1 2.5%	-
\$2001-\$2500	3 1.4%	3 1.6%	-	-	3 5.0%	-	2 5.7%	-	1 3.3%	-	-	3 3.2%	-	1 4.0%	1 2.5%	-
\$3001 PLUS	2 .9%	1 .5%	1 5.6%	1 1.9%	-	1 1.4%	-	-	1 3.3%	-	-	2 2.1%	1 1.2%	1 4.0%	-	-
DK/NS	47 22.3%	43 23.0%	3 16.7%	14 26.9%	11 18.3%	10 13.5%	4 11.4%	5 12.8%	4 13.3%	14 21.2%	17 34.7%	15 16.0%	20 23.8%	7 28.0%	5 12.5%	8 25.0%
AVGE \$ FUEL BILL	998	986	1096	1068	940	1020	1036	880	1217	953	1031	1017	912	1443	958	839
STD DEV \$	519	471	841	527	511	533	519	380	770	434	417	602	494	655	417	358
STD ERR \$	41	39	217	86	73	67	93	65	151	60	74	68	62	154	70	73

Table 25-1
Q.23 - RESPONDENT'S OCCUPATION
BASED ON TOTAL INTERVIEWED

	WORK DONE THROUGH RRAP PROGRAM																						
	ROOF/ CHIM- RE- PAIR	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH -ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT -ILA -TION	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
	TOTAL	PAIR	DOORS	TURES	GRADE	TION	-ING	MENT	TEM	ING	-PING	ROOM	TION	WALLS	KIT- CHEN	-TION	WALLS	/WELL	FLOORS	-TOR	SEWAGE	WATER	REPAIR
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
BUSINESS EXECUTIVES/ OWNERS/ MANAGERS	14 6.6%	6 5.7%	7 6.1%	3 7.0%	4 10.0%	4 9.8%	1 4.0%	1 3.4%	1 3.6%	1 3.8%	-	-	-	3 8.6%	-	-	-	1 10.0%	-	1 9.1%	2 22.2%	-	-
SALESPeOPLE	3 1.4%	2 1.9%	2 1.8%	-	-	-	-	-	1 3.6%	-	-	1 3.7%	1 5.9%	1 2.9%	-	-	-	-	-	-	-	1 25.0%	-
OFFICE WORKERS	11 5.2%	3 2.8%	8 7.0%	3 7.0%	2 5.0%	3 7.3%	1 4.0%	-	1 3.6%	2 7.7%	1 7.1%	1 3.7%	1 5.9%	1 2.9%	1 10.0%	-	2 11.1%	-	-	-	-	-	-
SKILLED LABOUR	13 6.2%	11 10.4%	3 2.6%	2 4.7%	2 5.0%	5 12.2%	2 8.0%	-	1 3.6%	1 3.8%	1 7.1%	2 7.4%	1 5.9%	2 5.7%	-	2 16.7%	1 5.6%	2 20.0%	-	-	1 11.1%	-	-
UNSKILLED LABOUR	17 8.1%	5 4.7%	13 11.4%	7 16.3%	4 10.0%	4 9.8%	2 8.0%	4 13.8%	1 3.6%	3 11.5%	1 7.1%	-	-	1 2.9%	-	2 16.7%	1 5.6%	-	-	1 9.1%	1 11.1%	-	1 50.0%
HOMEMAKER	11 5.2%	7 6.6%	5 4.4%	-	1 2.5%	3 7.3%	3 12.0%	4 13.8%	2 7.1%	2 7.7%	-	4 14.8%	2 11.8%	3 8.6%	1 10.0%	-	1 5.6%	-	1 8.3%	1 9.1%	-	1 25.0%	1 50.0%
RETIRED/ PENSIONED	121 57.3%	65 61.3%	66 57.9%	23 53.5%	21 52.5%	21 51.2%	12 48.0%	17 58.6%	19 67.9%	15 57.7%	7 50.0%	16 59.3%	10 58.8%	22 62.9%	5 50.0%	7 58.3%	11 61.1%	5 50.0%	11 91.7%	7 63.6%	4 44.4%	1 25.0%	-
UNEMPLOYED	8 3.8%	4 3.8%	5 4.4%	3 7.0%	3 7.5%	1 2.4%	1 4.0%	3 10.3%	1 3.6%	2 7.7%	2 14.3%	1 3.7%	1 5.9%	1 2.9%	2 20.0%	1 8.3%	1 5.6%	-	-	1 9.1%	1 11.1%	-	-
STUDENT	2 .9%	-	1 .9%	1 2.3%	-	-	1 4.0%	-	1 3.6%	-	1 7.1%	1 3.7%	-	-	-	-	-	1 10.0%	-	-	-	1 25.0%	-
REFUSED	3 1.4%	1 .9%	2 1.8%	1 2.3%	-	-	-	-	-	-	-	-	-	1 2.9%	-	-	-	1 10.0%	-	-	-	-	-
NOT STATED	8 3.8%	2 1.9%	2 1.8%	-	3 7.5%	-	2 8.0%	-	-	-	1 7.1%	1 3.7%	1 5.9%	-	1 10.0%	-	1 5.6%	-	-	-	-	-	-

Table 25-2
Q.23 - RESPONDENT'S OCCUPATION
BASED ON TOTAL INTERVIEWED

	GENDER		RESPONDENT'S AGE				HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
BUSINESS EXECUTIVES/ OWNERS/ MANAGERS	14 6.6%	10 11.9%	4 3.1%	9 17.3%	4 6.8%	1 1.0%	1 1.7%	4 5.0%	9 13.0%	1 2.6%	5 6.8%	6 15.8%	14 24.1%	-	-	7 13.5%	4 17.4%	2 9.1%	4 20.0%
SALESPeOPLE	3 1.4%	1 1.2%	2 1.6%	2 3.8%	1 1.7%	-	1 1.7%	1 1.3%	1 1.4%	1 2.6%	2 2.7%	-	3 5.2%	-	-	1 1.9%	-	-	1 5.0%
OFFICE WORKERS	11 5.2%	-	11 8.7%	6 11.5%	4 6.8%	1 1.0%	1 1.7%	3 3.8%	7 10.1%	1 2.6%	2 2.7%	4 10.5%	11 19.0%	-	-	6 11.5%	2 8.7%	4 18.2%	2 10.0%
SKILLED LABOUR	13 6.2%	11 13.1%	2 1.6%	6 11.5%	7 11.9%	-	2 3.4%	4 5.0%	7 10.1%	-	4 5.5%	7 18.4%	13 22.4%	-	-	4 7.7%	4 17.4%	2 9.1%	-
UNSKILLED LABOUR	17 8.1%	11 13.1%	6 4.7%	12 23.1%	5 8.5%	-	3 5.2%	3 3.8%	11 15.9%	1 2.6%	7 9.6%	9 23.7%	17 29.3%	-	-	9 17.3%	5 21.7%	4 18.2%	3 15.0%
HOMEMAKER	11 5.2%	-	11 8.7%	6 11.5%	4 6.8%	1 1.0%	2 3.4%	3 3.8%	6 8.7%	1 2.6%	5 6.8%	1 2.6%	-	-	11 52.4%	8 15.4%	4 17.4%	5 22.7%	2 10.0%
RETIRED/ PENSIONED	121 57.3%	44 52.4%	77 60.6%	1 1.9%	30 50.8%	89 90.8%	46 79.3%	53 66.3%	20 29.0%	29 74.4%	42 57.5%	7 18.4%	-	121 100%	-	8 15.4%	1 4.3%	3 13.6%	4 20.0%
UNEMPLOYED	8 3.8%	3 3.6%	5 3.9%	5 9.6%	3 5.1%	-	-	4 5.0%	4 5.8%	3 7.7%	5 6.8%	-	-	-	8 38.1%	5 9.6%	2 8.7%	2 9.1%	2 10.0%
STUDENT	2 .9%	1 1.2%	1 .8%	2 3.8%	-	-	-	1 1.3%	1 1.4%	1 2.6%	-	1 2.6%	-	-	2 9.5%	2 3.8%	1 4.3%	-	1 5.0%
REFUSED	3 1.4%	-	3 2.4%	1 1.9%	-	1 1.0%	-	1 1.3%	-	-	-	1 2.6%	-	-	-	-	-	-	-
NOT STATED	8 3.8%	3 3.6%	5 3.9%	2 3.8%	1 1.7%	5 5.1%	2 3.4%	3 3.8%	3 4.3%	1 2.6%	1 1.4%	2 5.3%	-	-	-	2 3.8%	-	-	1 5.0%

Table 25-3
Q.23 - RESPONDENT'S OCCUPATION
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE DET- ACHED	OTHER		30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
BUSINESS EXECUTIVES/ OWNERS/ MANAGERS	14 6.6%	13 7.0%	1 5.6%	2 3.8%	2 3.3%	10 13.5%	3 8.6%	2 5.1%	5 16.7%	10 15.2%	1 2.0%	3 3.2%	2 2.4%	-	3 7.5%	6 18.8%
SALESPEOPLE	3 1.4%	2 1.1%	1 5.6%	2 3.8%	1 1.7%	-	1 2.9%	1 2.6%	1 3.3%	-	1 2.0%	2 2.1%	1 1.2%	1 4.0%	-	1 3.1%
OFFICE WORKERS	11 5.2%	9 4.8%	1 5.6%	8 15.4%	-	3 4.1%	2 5.7%	3 7.7%	3 10.0%	2 3.0%	3 6.1%	5 5.3%	4 4.8%	2 8.0%	1 2.5%	1 3.1%
SKILLED LABOUR	13 6.2%	12 6.4%	-	5 9.6%	2 3.3%	5 6.8%	1 2.9%	7 17.9%	4 13.3%	7 10.6%	3 6.1%	3 3.2%	1 1.2%	4 16.0%	2 5.0%	3 9.4%
UNSKILLED LABOUR	17 8.1%	15 8.0%	2 11.1%	3 5.8%	3 5.0%	9 12.2%	5 14.3%	3 7.7%	1 3.3%	5 7.6%	7 14.3%	5 5.3%	5 6.0%	4 16.0%	4 10.0%	2 6.3%
HOMEMAKER	11 5.2%	11 5.9%	-	2 3.8%	6 10.0%	3 4.1%	2 5.7%	1 2.6%	2 6.7%	1 1.5%	3 6.1%	7 7.4%	7 8.3%	2 8.0%	1 2.5%	1 3.1%
RETIRED/ PENSIONED	121 57.3%	108 57.8%	10 55.6%	23 44.2%	38 63.3%	40 54.1%	16 45.7%	20 51.3%	12 40.0%	34 51.5%	28 57.1%	59 62.8%	58 69.0%	12 48.0%	24 60.0%	16 50.0%
UNEMPLOYED	8 3.8%	7 3.7%	1 5.6%	2 3.8%	5 8.3%	1 1.4%	3 8.6%	-	1 3.3%	3 4.5%	2 4.1%	3 3.2%	1 1.2%	-	2 5.0%	1 3.1%
STUDENT	2 .9%	2 1.1%	-	1 1.9%	-	1 1.4%	1 2.9%	1 2.6%	-	1 1.5%	-	1 1.1%	-	-	1 2.5%	-
REFUSED	3 1.4%	2 1.1%	-	1 1.9%	-	1 1.4%	-	1 2.6%	-	1 1.5%	1 2.0%	-	-	-	1 2.5%	-
NOT STATED	8 3.8%	6 3.2%	2 11.1%	3 5.8%	3 5.0%	1 1.4%	1 2.9%	-	1 3.3%	2 3.0%	-	6 6.4%	5 6.0%	-	1 2.5%	1 3.1%

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Table 26-2
Q.24 - SIZE OF HOUSEHOLD
BASED ON TOTAL INTERVIEWED

	GENDER			RESPONDENT'S AGE			HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN				
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UNEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17	
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20	
ONE	58	6	52	4	15	39	58	-	-	17	27	2	8	46	2	1	-	-	-	
	27.5%	7.1%	40.9%	7.7%	25.4%	39.8%	100%			43.6%	37.0%	5.3%	13.8%	38.0%	9.5%	1.9%				
TWO	80	36	44	12	23	44	-	80	-	17	27	11	15	53	8	6	1	3	2	
	37.9%	42.9%	34.6%	23.1%	39.0%	44.9%		100%		43.6%	37.0%	28.9%	25.9%	43.8%	38.1%	11.5%	4.3%	13.6%	10.0%	
THREE	32	16	16	12	11	9	-	-	32	3	11	5	12	14	3	13	5	3	5	
	15.2%	19.0%	12.6%	23.1%	18.6%	9.2%			46.4%	7.7%	15.1%	13.2%	20.7%	11.6%	14.3%	25.0%	21.7%	13.6%	25.0%	
FOUR	21	15	6	14	5	2	-	-	21	2	5	10	11	4	6	17	10	9	5	
	10.0%	17.9%	4.7%	26.9%	8.5%	2.0%			30.4%	5.1%	6.8%	26.3%	19.0%	3.3%	28.6%	32.7%	43.5%	40.9%	25.0%	
FIVE OR MORE	16	11	5	10	5	1	-	-	16	-	3	10	12	2	2	15	7	7	8	
	7.6%	13.1%	3.9%	19.2%	8.5%	1.0%			23.2%		4.1%	26.3%	20.7%	1.7%	9.5%	28.8%	30.4%	31.8%	40.0%	
DK/NS	4	-	4	-	-	3	-	-	-	-	-	-	-	2	-	-	-	-	-	
	1.9%		3.1%			3.1%								1.7%						

Table 26-3
Q.24 - SIZE OF HOUSEHOLD
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE DET- ACHED	OTHER		30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
ONE	58 27.5%	52 27.8%	4 22.2%	11 21.2%	16 26.7%	21 28.4%	6 17.1%	6 15.4%	6 20.0%	10 15.2%	18 36.7%	30 31.9%	28 33.3%	13 52.0%	12 30.0%	-
TWO	80 37.9%	71 38.0%	8 44.4%	18 34.6%	26 43.3%	26 35.1%	12 34.3%	18 46.2%	11 36.7%	28 42.4%	15 30.6%	37 39.4%	37 44.0%	3 12.0%	14 35.0%	14 43.8%
THREE	32 15.2%	28 15.0%	3 16.7%	16 30.8%	7 11.7%	6 8.1%	11 31.4%	6 15.4%	4 13.3%	13 19.7%	6 12.2%	13 13.8%	8 9.5%	4 16.0%	5 12.5%	9 28.1%
FOUR	21 10.0%	20 10.7%	1 5.6%	3 5.8%	9 15.0%	8 10.8%	4 11.4%	6 15.4%	3 10.0%	5 7.6%	6 12.2%	9 9.6%	6 7.1%	2 8.0%	6 15.0%	4 12.5%
FIVE OR MORE	16 7.6%	13 7.0%	2 11.1%	3 5.8%	2 3.3%	11 14.9%	2 5.7%	3 7.7%	6 20.0%	9 13.6%	3 6.1%	4 4.3%	3 3.6%	3 12.0%	2 5.0%	5 15.6%
DK/NS	4 1.9%	3 1.6%	-	1 1.9%	-	2 2.7%	-	-	-	1 1.5%	1 2.0%	1 1.1%	2 2.4%	-	1 2.5%	-

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[illegible]

Table 27-2

Q.25 - NUMBER OF FEMALE ADULTS IN HOUSEHOLD
BASED ON TOTAL INTERVIEWED

	GENDER			RESPONDENT'S AGE			HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
NONE	8	8	-	1	4	3	5	1	2	1	5	-	2	6	-	-	-	-	-
	3.8%	9.5%		1.9%	6.8%	3.1%	8.6%	1.3%	2.9%	2.6%	6.8%		3.4%	5.0%					
ONE	169	65	104	47	45	76	53	69	47	33	61	31	47	97	18	45	21	20	16
	80.1%	77.4%	81.9%	90.4%	76.3%	77.6%	91.4%	86.3%	68.1%	84.6%	83.6%	81.6%	81.0%	80.2%	85.7%	86.5%	91.3%	90.9%	80.0%
TWO	24	9	15	2	7	15	-	10	14	5	5	5	5	15	2	5	2	2	2
	11.4%	10.7%	11.8%	3.8%	11.9%	15.3%		12.5%	20.3%	12.8%	6.8%	13.2%	8.6%	12.4%	9.5%	9.6%	8.7%	9.1%	10.0%
THREE	4	2	2	-	3	1	-	-	4	-	1	2	2	1	1	1	-	-	1
	1.9%	2.4%	1.6%		5.1%	1.0%			5.8%		1.4%	5.3%	3.4%	.8%	4.8%	1.9%			5.0%
FOUR	1	-	1	1	-	-	-	-	1	-	1	-	1	-	-	1	-	-	1
	.5%		.8%	1.9%					1.4%		1.4%		1.7%			1.9%			5.0%
DK/NS	5	-	5	1	-	3	-	-	1	-	-	-	1	2	-	-	-	-	-
	2.4%		3.9%	1.9%		3.1%			1.4%				1.7%	1.7%					

Table 27-3

Q.25 - NUMBER OF FEMALE ADULTS IN HOUSEHOLD
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE DET- ACHED	OTHER		30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
NONE	8 3.8%	6 3.2%	1 5.6%	1 1.9%	4 6.7%	3 4.1%	2 5.7%	2 5.1%	1 3.3%	4 6.1%	1 2.0%	3 3.2%	1 1.2%	2 8.0%	3 7.5%	1 3.1%
ONE	169 80.1%	157 84.0%	9 50.0%	41 78.8%	48 80.0%	62 83.8%	30 85.7%	30 76.9%	24 80.0%	53 80.3%	41 83.7%	74 78.7%	70 83.3%	19 76.0%	31 77.5%	25 78.1%
TWO	24 11.4%	17 9.1%	6 33.3%	7 13.5%	7 11.7%	5 6.8%	2 5.7%	5 12.8%	4 13.3%	6 9.1%	4 8.2%	14 14.9%	11 13.1%	1 4.0%	4 10.0%	4 12.5%
THREE	4 1.9%	3 1.6%	1 5.6%	1 1.9%	1 1.7%	1 1.4%	- 5.1%	2 5.1%	-	1 1.5%	2 4.1%	1 1.1%	- 8.0%	2 8.0%	-	2 6.3%
FOUR	1 .5%	-	1 5.6%	-	-	1 1.4%	1 2.9%	-	-	-	-	1 1.1%	-	-	1 2.5%	-
DK/NS	5 2.4%	4 2.1%	-	2 3.8%	-	2 2.7%	-	-	1 3.3%	2 3.0%	1 2.0%	1 1.1%	2 2.4%	1 4.0%	1 2.5%	-

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[illegible]

Table 28-2

Q.26 - NUMBER OF MALE ADULTS IN HOUSEHOLD
BASED ON TOTAL INTERVIEWED

	GENDER		RESPONDENT'S AGE				HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
NONE	78 37.0%	2 2.4%	76 59.8%	18 34.6%	18 30.5%	42 42.9%	52 89.7%	16 20.0%	10 14.5%	24 61.5%	29 39.7%	6 15.8%	15 25.9%	49 40.5%	11 52.4%	15 28.8%	6 26.1%	8 36.4%	4 20.0%
ONE	110 52.1%	71 84.5%	39 30.7%	31 59.6%	28 47.5%	50 51.0%	6 10.3%	62 77.5%	42 60.9%	12 30.8%	42 57.5%	25 65.8%	36 62.1%	60 49.6%	9 42.9%	33 63.5%	17 73.9%	14 63.6%	12 60.0%
TWO	15 7.1%	8 9.5%	7 5.5%	2 3.8%	10 16.9%	3 3.1%	-	2 2.5%	13 18.8%	2 5.1%	2 2.7%	6 15.8%	5 8.6%	8 6.6%	1 4.8%	4 7.7%	-	-	4 20.0%
THREE	3 1.4%	3 3.6%	-	-	3 5.1%	-	-	-	3 4.3%	1 2.6%	-	1 2.6%	1 1.7%	2 1.7%	-	-	-	-	-
DK/NS	5 2.4%	-	5 3.9%	1 1.9%	-	3 3.1%	-	-	1 1.4%	-	-	-	1 1.7%	2 1.7%	-	-	-	-	-

Table 28-3

Q.26 - NUMBER OF MALE ADULTS IN HOUSEHOLD
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE DET- ACHED	OTHER		30 YRS OR LESS	31-50 YEARS	OVER 50 YEARS	<1,000 SQ.FT.	1,000- 1,500	OVER 1,500	RURAL	TOWN	CITY	GAS	ELECT- RICITY	OIL	OTHER
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
NONE	78 37.0%	69 36.9%	7 38.9%	18 34.6%	21 35.0%	25 33.8%	11 31.4%	9 23.1%	11 36.7%	16 24.2%	22 44.9%	40 42.6%	38 45.2%	14 56.0%	13 32.5%	3 9.4%
ONE	110 52.1%	96 51.3%	11 61.1%	27 51.9%	34 56.7%	40 54.1%	20 57.1%	26 66.7%	15 50.0%	38 57.6%	24 49.0%	47 50.0%	42 50.0%	9 36.0%	22 55.0%	21 65.6%
TWO	15 7.1%	15 8.0%	-	5 9.6%	4 6.7%	5 6.8%	3 8.6%	4 10.3%	3 10.0%	7 10.6%	2 4.1%	6 6.4%	2 2.4%	1 4.0%	3 7.5%	6 18.8%
THREE	3 1.4%	3 1.6%	-	-	1 1.7%	2 2.7%	1 2.9%	-	-	3 4.5%	-	-	-	-	1 2.5%	2 6.3%
DK/NS	5 2.4%	4 2.1%	-	2 3.8%	-	2 2.7%	-	-	1 3.3%	2 3.0%	1 2.0%	1 1.1%	2 2.4%	1 4.0%	1 2.5%	-

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[illegible]

Table 29-2

Q.27 - NUMBER OF CHILDREN UNDER 18 IN HOUSEHOLD
BASED ON TOTAL INTERVIEWED

	GENDER		RESPONDENT'S AGE				HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
NONE	154	59	95	11	52	90	57	74	23	35	57	18	30	111	6	-	-	-	-
	73.0%	70.2%	74.8%	21.2%	88.1%	91.8%	98.3%	92.5%	33.3%	89.7%	78.1%	47.4%	51.7%	91.7%	28.6%				
ONE	21	6	15	15	2	4	1	6	14	2	8	5	7	5	7	21	5	4	10
	10.0%	7.1%	11.8%	28.8%	3.4%	4.1%	1.7%	7.5%	20.3%	5.1%	11.0%	13.2%	12.1%	4.1%	33.3%	40.4%	21.7%	18.2%	50.0%
TWO	16	10	6	13	2	1	-	-	16	1	5	7	10	2	4	16	8	9	5
	7.6%	11.9%	4.7%	25.0%	3.4%	1.0%			23.2%	2.6%	6.8%	18.4%	17.2%	1.7%	19.0%	30.8%	34.8%	40.9%	25.0%
THREE	12	7	5	9	3	-	-	-	12	1	2	6	7	1	4	12	8	7	4
	5.7%	8.3%	3.9%	17.3%	5.1%				17.4%	2.6%	2.7%	15.8%	12.1%	.8%	19.0%	23.1%	34.8%	31.8%	20.0%
FOUR	1	1	-	1	-	-	-	-	1	-	1	-	1	-	-	1	1	-	-
	.5%	1.2%		1.9%					1.4%		1.4%		1.7%			1.9%	4.3%		
FIVE OR MORE	2	1	1	2	-	-	-	-	2	-	-	2	2	-	-	2	1	2	1
	.9%	1.2%	.8%	3.8%					2.9%			5.3%	3.4%			3.8%	4.3%	9.1%	5.0%
DK/NS	5	-	5	1	-	3	-	-	1	-	-	-	1	2	-	-	-	-	-
	2.4%		3.9%	1.9%		3.1%			1.4%				1.7%	1.7%					

Table 29-3

Q.27 - NUMBER OF CHILDREN UNDER 18 IN HOUSEHOLD
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE	DET-	OTHER	30 YRS	31-50	OVER	<1,000	1,000-	OVER				GAS	ELECT-	OIL	OTHER
	ACHED			OR	YEARS	YEARS	SQ.FT.	1,500	1,500	RURAL	TOWN	CITY		RICITY		
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
NONE	154	137	14	36	48	48	21	30	18	45	34	75	69	19	26	20
	73.0%	73.3%	77.8%	69.2%	80.0%	64.9%	60.0%	76.9%	60.0%	68.2%	69.4%	79.8%	82.1%	76.0%	65.0%	62.5%
ONE	21	17	3	8	2	10	8	2	3	7	7	7	3	-	7	7
	10.0%	9.1%	16.7%	15.4%	3.3%	13.5%	22.9%	5.1%	10.0%	10.6%	14.3%	7.4%	3.6%		17.5%	21.9%
TWO	16	15	1	2	6	7	3	4	3	5	4	6	5	2	5	3
	7.6%	8.0%	5.6%	3.8%	10.0%	9.5%	8.6%	10.3%	10.0%	7.6%	8.2%	6.4%	6.0%	8.0%	12.5%	9.4%
THREE	12	11	-	4	4	4	3	2	4	5	2	5	4	3	1	1
	5.7%	5.9%		7.7%	6.7%	5.4%	8.6%	5.1%	13.3%	7.6%	4.1%	5.3%	4.8%	12.0%	2.5%	3.1%
FOUR	1	1	-	-	-	1	-	-	1	-	1	-	1	-	-	-
	.5%	.5%				1.4%			3.3%		2.0%		1.2%			
FIVE OR MORE	2	2	-	-	-	2	-	1	-	2	-	-	-	-	-	1
	.9%	1.1%				2.7%		2.6%		3.0%						3.1%
DK/NS	5	4	-	2	-	2	-	-	1	2	1	1	2	1	1	-
	2.4%	2.1%		3.8%		2.7%			3.3%	3.0%	2.0%	1.1%	2.4%	4.0%	2.5%	

Table 30-1
Q.28 - PRESENCE OF CHILDREN
BASED ON TOTAL INTERVIEWED

	WORK DONE THROUGH RRAP PROGRAM																						
	ROOF/ CHIM- RE- TOTAL	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH -ER -PING	BATH- ROOM	FOUN- DA- TION	INTER -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT -ILA -TION	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
PRESENCE OF CHILDREN	50 23.7%	27 25.5%	32 28.1%	13 30.2%	9 22.5%	13 31.7%	8 32.0%	10 34.5%	4 14.3%	8 30.8%	3 21.4%	6 22.2%	3 17.6%	10 28.6%	4 40.0%	3 25.0%	6 33.3%	2 20.0%	1 8.3%	2 18.2%	1 11.1%	2 50.0%	1 50.0%
- 6 YEARS AGE AND UNDER	23 10.9%	15 14.2%	12 10.5%	6 14.0%	2 5.0%	7 17.1%	3 12.0%	2 6.9%	2 7.1%	2 7.7%	2 14.3%	-	-	4 11.4%	2 20.0%	1 8.3%	2 11.1%	1 10.0%	-	-	1 11.1%	1 25.0%	-
- 7 TO 12 YEARS OF AGE	22 10.4%	12 11.3%	15 13.2%	7 16.3%	4 10.0%	6 14.6%	4 16.0%	6 20.7%	2 7.1%	4 15.4%	1 7.1%	-	1 5.9%	3 8.6%	1 10.0%	3 25.0%	3 16.7%	1 10.0%	1 8.3%	-	1 11.1%	1 25.0%	-
- 13 TO 17 YEARS OF AGE	20 9.5%	9 8.5%	17 14.9%	7 16.3%	6 15.0%	3 7.3%	4 16.0%	5 17.2%	-	2 7.7%	1 7.1%	6 22.2%	2 11.8%	5 14.3%	2 20.0%	-	2 11.1%	1 10.0%	-	2 18.2%	-	-	1 50.0%

Table 30-2
Q.28 - PRESENCE OF CHILDREN
BASED ON TOTAL INTERVIEWED

	GENDER		RESPONDENT'S AGE			HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN				
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
PRESENCE OF CHILDREN	50	25	25	39	7	4	-	6	44	4	15	20	27	7	15	50	23	22	20
	23.7%	29.8%	19.7%	75.0%	11.9%	4.1%		7.5%	63.8%	10.3%	20.5%	52.6%	46.6%	5.8%	71.4%	96.2%	100%	100%	100%
- 6 YEARS AGE AND UNDER	23	14	9	21	1	1	-	1	22	1	7	11	15	1	7	23	23	9	1
	10.9%	16.7%	7.1%	40.4%	1.7%	1.0%		1.3%	31.9%	2.6%	9.6%	28.9%	25.9%	.8%	33.3%	44.2%	100%	40.9%	5.0%
- 7 TO 12 YEARS OF AGE	22	10	12	16	4	2	-	3	19	1	4	10	12	3	7	22	9	22	6
	10.4%	11.9%	9.4%	30.8%	6.8%	2.0%		3.8%	27.5%	2.6%	5.5%	26.3%	20.7%	2.5%	33.3%	42.3%	39.1%	100%	30.0%
- 13 TO 17 YEARS OF AGE	20	10	10	13	6	1	-	2	18	2	7	8	10	4	5	20	1	6	20
	9.5%	11.9%	7.9%	25.0%	10.2%	1.0%		2.5%	26.1%	5.1%	9.6%	21.1%	17.2%	3.3%	23.8%	38.5%	4.3%	27.3%	100%

Table 30-3
Q.28 - PRESENCE OF CHILDREN
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE	DET-	OTHER	30 YRS	31-50	OVER	<1,000	1,000-	OVER	RURAL	TOWN	CITY	GAS	ELECT-	OIL	OTHER
	ACHED			OR	YEARS	YEARS	SQ.FT.	1,500	1,500					RICITY		
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
PRESENCE OF CHILDREN	50	44	4	13	12	24	13	9	11	18	13	18	13	5	12	11
	23.7%	23.5%	22.2%	25.0%	20.0%	32.4%	37.1%	23.1%	36.7%	27.3%	26.5%	19.1%	15.5%	20.0%	30.0%	34.4%
- 6 YEARS AGE AND UNDER	23	21	1	4	5	14	5	6	6	7	7	9	7	2	4	6
	10.9%	11.2%	5.6%	7.7%	8.3%	18.9%	14.3%	15.4%	20.0%	10.6%	14.3%	9.6%	8.3%	8.0%	10.0%	18.8%
- 7 TO 12 YEARS OF AGE	22	20	2	5	7	9	5	5	4	7	3	11	9	5	4	1
	10.4%	10.7%	11.1%	9.6%	11.7%	12.2%	14.3%	12.8%	13.3%	10.6%	6.1%	11.7%	10.7%	20.0%	10.0%	3.1%
- 13 TO 17 YEARS OF AGE	20	18	1	6	5	9	5	1	4	10	5	4	2	1	9	5
	9.5%	9.6%	5.6%	11.5%	8.3%	12.2%	14.3%	2.6%	13.3%	15.2%	10.2%	4.3%	2.4%	4.0%	22.5%	15.6%

Table 31-1
Q.29 - RESPONDENT'S EDUCATION
BASED ON TOTAL INTERVIEWED

WORK DONE THROUGH RRAP PROGRAM																							
	ROOF/ CHIM- RE- TOTAL	WIND- OWS/ DOORS	ATTA- CHED- STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH -ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT -ILA -TION	EXTER -IOR HOME/ WALLS	WATER /WELL FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR		
	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
	4 1.9%	3 2.8%	2 1.8%	1 2.3%	-	-	2 8.0%	1 3.4%	-	-	-	-	-	1 2.9%	-	-	-	-	-	-	-	-	
	31 14.7%	14 13.2%	15 13.2%	5 11.6%	4 10.0%	6 14.6%	2 8.0%	5 17.2%	6 21.4%	3 11.5%	1 7.1%	4 14.8%	2 11.8%	7 20.0%	-	2 16.7%	2 11.1%	1 10.0%	-	2 18.2%	-	1 25.0%	-
	35 16.6%	22 20.8%	20 17.5%	6 14.0%	7 17.5%	7 17.1%	3 12.0%	5 17.2%	3 10.7%	5 19.2%	3 21.4%	6 22.2%	3 17.6%	6 17.1%	4 40.0%	4 33.3%	3 16.7%	-	-	3 27.3%	2 22.2%	-	-
	58 27.5%	30 28.3%	32 28.1%	11 25.6%	11 27.5%	10 24.4%	6 24.0%	5 17.2%	9 32.1%	4 15.4%	5 35.7%	9 33.3%	5 29.4%	9 25.7%	-	4 33.3%	5 27.8%	5 50.0%	7 58.3%	4 36.4%	3 33.3%	1 25.0%	-
	32 15.2%	13 12.3%	17 14.9%	10 23.3%	7 17.5%	4 9.8%	3 12.0%	4 13.8%	5 17.9%	4 15.4%	1 7.1%	4 14.8%	1 5.9%	4 11.4%	2 20.0%	1 8.3%	3 16.7%	1 10.0%	1 8.3%	1 9.1%	2 22.2%	1 25.0%	-
	24 11.4%	13 12.3%	10 8.8%	2 4.7%	7 17.5%	5 12.2%	6 24.0%	7 24.1%	3 10.7%	3 11.5%	1 7.1%	2 7.4%	3 17.6%	3 8.6%	3 30.0%	-	4 22.2%	1 10.0%	2 16.7%	1 9.1%	1 11.1%	1 25.0%	2 100.0%
	19 9.0%	8 7.5%	12 10.5%	7 16.3%	3 7.5%	8 19.5%	2 8.0%	2 6.9%	2 7.1%	7 26.9%	2 14.3%	2 7.4%	2 11.8%	4 11.4%	1 10.0%	1 8.3%	1 5.6%	2 20.0%	2 16.7%	-	-	-	-
	8 3.8%	3 2.8%	6 5.3%	1 2.3%	1 2.5%	1 2.4%	1 4.0%	-	-	-	1 7.1%	-	1 5.9%	1 2.9%	-	-	-	-	-	-	1 11.1%	-	-

Table 31-2
Q.29 - RESPONDENT'S EDUCATION
BASED ON TOTAL INTERVIEWED

	GENDER		RESPONDENT'S AGE				HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE- MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
NO FORMAL EDUCATION	4	1	3	-	2	2	2	1	1	-	-	-	1	2	1	1	1	1	-
	1.9%	1.2%	2.4%		3.4%	2.0%	3.4%	1.3%	1.4%				1.7%	1.7%	4.8%	1.9%	4.3%	4.5%	
SOME ELEMENTARY SCHOOL	31	18	13	3	9	19	4	15	11	2	5	2	1	26	3	7	3	3	1
	14.7%	21.4%	10.2%	5.8%	15.3%	19.4%	6.9%	18.8%	15.9%	5.1%	6.8%	5.3%	1.7%	21.5%	14.3%	13.5%	13.0%	13.6%	5.0%
COMPLETED ELEMENTARY SCHOOL	35	14	21	3	11	21	13	15	7	9	18	3	4	27	3	4	-	2	3
	16.6%	16.7%	16.5%	5.8%	18.6%	21.4%	22.4%	18.8%	10.1%	23.1%	24.7%	7.9%	6.9%	22.3%	14.3%	7.7%		9.1%	15.0%
SOME HIGH SCHOOL	58	23	35	15	17	26	17	22	19	16	23	11	16	35	6	13	7	2	6
	27.5%	27.4%	27.6%	28.8%	28.8%	26.5%	29.3%	27.5%	27.5%	41.0%	31.5%	28.9%	27.6%	28.9%	28.6%	25.0%	30.4%	9.1%	30.0%
HIGH SCHOOL GRADUATE	32	9	23	14	7	11	5	13	14	4	12	10	19	9	3	13	6	7	5
	15.2%	10.7%	18.1%	26.9%	11.9%	11.2%	8.6%	16.3%	20.3%	10.3%	16.4%	26.3%	32.8%	7.4%	14.3%	25.0%	26.1%	31.8%	25.0%
SOME COLLEGE/TECHNICAL SCHOOL	24	9	15	7	9	8	9	6	9	4	8	5	8	9	4	8	3	4	3
	11.4%	10.7%	11.8%	13.5%	15.3%	8.2%	15.5%	7.5%	13.0%	10.3%	11.0%	13.2%	13.8%	7.4%	19.0%	15.4%	13.0%	18.2%	15.0%
COLLEGE/UNIVERSITY GRADUATE	19	7	12	8	4	7	6	5	7	4	7	7	8	9	1	6	3	3	2
	9.0%	8.3%	9.4%	15.4%	6.8%	7.1%	10.3%	6.3%	10.1%	10.3%	9.6%	18.4%	13.8%	7.4%	4.8%	11.5%	13.0%	13.6%	10.0%
REFUSED/ NOT STATED	8	3	5	2	-	4	2	3	1	-	-	-	1	4	-	-	-	-	-
	3.8%	3.6%	3.9%	3.8%		4.1%	3.4%	3.8%	1.4%				1.7%	3.3%					

Table 31-3
Q.29 - RESPONDENT'S EDUCATION
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE	DET-	OTHER	30 YRS	31-50	OVER	<1,000	1,000-	OVER	RURAL	TOWN	CITY	GAS	ELECT-	OIL	OTHER
TOTAL	ACHED			OR	YEARS	50	SQ.FT.	1,500	1,500					RICITY		
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
NO FORMAL EDUCATION	4	4	-	2	-	1	-	-	-	-	2	2	2	1	-	-
	1.9%	2.1%		3.8%		1.4%					4.1%	2.1%	2.4%	4.0%		
SOME ELEMENTARY SCHOOL	31	27	3	4	10	13	8	5	3	7	8	16	17	-	6	6
	14.7%	14.4%	16.7%	7.7%	16.7%	17.6%	22.9%	12.8%	10.0%	10.6%	16.3%	17.0%	20.2%		15.0%	18.8%
COMPLETED ELEMENTARY SCHOOL	35	29	5	8	6	13	4	6	1	14	7	14	10	5	8	6
	16.6%	15.5%	27.8%	15.4%	10.0%	17.6%	11.4%	15.4%	3.3%	21.2%	14.3%	14.9%	11.9%	20.0%	20.0%	18.8%
SOME HIGH SCHOOL	58	54	3	14	20	17	12	10	13	19	13	26	19	7	13	8
	27.5%	28.9%	16.7%	26.9%	33.3%	23.0%	34.3%	25.6%	43.3%	28.8%	26.5%	27.7%	22.6%	28.0%	32.5%	25.0%
HIGH SCHOOL GRADUATE	32	28	3	9	11	11	8	8	8	10	5	16	12	4	5	7
	15.2%	15.0%	16.7%	17.3%	18.3%	14.9%	22.9%	20.5%	26.7%	15.2%	10.2%	17.0%	14.3%	16.0%	12.5%	21.9%
SOME COLLEGE/TECHNICAL SCHOOL	24	20	3	6	7	10	1	3	2	4	6	14	11	4	5	1
	11.4%	10.7%	16.7%	11.5%	11.7%	13.5%	2.9%	7.7%	6.7%	6.1%	12.2%	14.9%	13.1%	16.0%	12.5%	3.1%
COLLEGE/UNIVERSITY GRADUATE	19	18	1	5	5	9	2	7	2	10	5	4	10	2	2	4
	9.0%	9.6%	5.6%	9.6%	8.3%	12.2%	5.7%	17.9%	6.7%	15.2%	10.2%	4.3%	11.9%	8.0%	5.0%	12.5%
REFUSED/ NOT STATED	8	7	-	4	1	-	-	-	1	2	3	2	3	2	1	-
	3.8%	3.7%		7.7%	1.7%				3.3%	3.0%	6.1%	2.1%	3.6%	8.0%	2.5%	

WORK DONE THROUGH RRAP PROGRAM

[illegible]

Table 32-2
Q.30 - TYPE OF AREA
BASED ON TOTAL INTERVIEWED

	GENDER			RESPONDENT'S AGE			HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE-MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- <\$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
IN RURAL OR COUNTRY AREA	66	37	29	21	20	25	10	28	27	14	23	15	24	34	5	19	7	7	10
	31.3%	44.0%	22.8%	40.4%	33.9%	25.5%	17.2%	35.0%	39.1%	35.9%	31.5%	39.5%	41.4%	28.1%	23.8%	36.5%	30.4%	31.8%	50.0%
IN A SMALL TOWN OF ABOUT 2,000 PEOPLE	23	9	14	6	8	8	6	12	5	3	7	6	8	14	1	4	2	1	1
	10.9%	10.7%	11.0%	11.5%	13.6%	8.2%	10.3%	15.0%	7.2%	7.7%	9.6%	15.8%	13.8%	11.6%	4.8%	7.7%	8.7%	4.5%	5.0%
IN A SMALL TOWN OF 2,000 TO 10,000 PEOPLE	26	7	19	10	7	9	12	3	10	6	9	5	7	14	4	10	5	2	4
	12.3%	8.3%	15.0%	19.2%	11.9%	9.2%	20.7%	3.8%	14.5%	15.4%	12.3%	13.2%	12.1%	11.6%	19.0%	19.2%	21.7%	9.1%	20.0%
IN A MEDIUM SIZE CITY CONSISTING OF 10,000 TO 100,000 PEOPLE	57	20	37	8	18	31	15	24	18	13	19	6	10	38	6	11	4	5	4
	27.0%	23.8%	29.1%	15.4%	30.5%	31.6%	25.9%	30.0%	26.1%	33.3%	26.0%	15.8%	17.2%	31.4%	28.6%	21.2%	17.4%	22.7%	20.0%
IN A SUBURBAN AREA OF A LARGE CITY	15	4	11	3	1	11	8	5	2	1	5	1	3	8	2	3	2	3	-
	7.1%	4.8%	8.7%	5.8%	1.7%	11.2%	13.8%	6.3%	2.9%	2.6%	6.8%	2.6%	5.2%	6.6%	9.5%	5.8%	8.7%	13.6%	-
IN A LARGE CITY	22	7	15	4	4	14	7	8	6	2	10	4	5	13	3	4	3	3	-
	10.4%	8.3%	11.8%	7.7%	6.8%	14.3%	12.1%	10.0%	8.7%	5.1%	13.7%	10.5%	8.6%	10.7%	14.3%	7.7%	13.0%	13.6%	-
REFUSED/ NOT STATED	2	-	2	-	1	-	-	-	1	-	-	1	1	-	-	1	-	1	1
	.9%	-	1.6%	-	1.7%	-	-	-	1.4%	-	-	2.6%	1.7%	-	-	1.9%	-	4.5%	5.0%

TABLE 32-1
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[illegible]

Table 33-1
Q.31 - HOUSEHOLD INCOME
BASED ON TOTAL INTERVIEWED

	WORK DONE THROUGH RRAP PROGRAM																						
	ROOF/ CHIM- RE- TOTAL	WIND- OWS/ DOORS	ATTA- CHED STRUC- TURES	ELEC. UP- GRADE	IN- SULA- TION	PLUMB -ING	BASE- MENT	HEAT- ING SYS- TEM	SID- ING	WEATH -ER STRIP -PING	BATH- ROOM	FOUN- DA- TION	INTER -IOR HOME/ WALLS	KIT- CHEN	VENTS /VENT -ILA	EXTER -IOR HOME/ WALLS	WATER /WELL	FLOORS	SMOKE DETEC -TOR	SEPTIC TANK/ SEWAGE	HOT WATER	STRUC- TURAL REPAIR	
TOTAL	211	106	114	43	40	41	25	29	28	26	14	27	17	35	10	12	18	10	12	11	9	4	2
UNDER \$10,000	39	16	26	9	10	6	6	3	6	7	4	7	2	7	4	1	7	6	4	2	2	1	-
	18.5%	15.1%	22.8%	20.9%	25.0%	14.6%	24.0%	10.3%	21.4%	26.9%	28.6%	25.9%	11.8%	20.0%	40.0%	8.3%	38.9%	60.0%	33.3%	18.2%	22.2%	25.0%	
\$10,000 - \$19,999	73	42	34	16	14	19	4	12	11	13	5	11	8	13	4	6	5	-	7	6	3	-	1
	34.6%	39.6%	29.8%	37.2%	35.0%	46.3%	16.0%	41.4%	39.3%	50.0%	35.7%	40.7%	47.1%	37.1%	40.0%	50.0%	27.8%		58.3%	54.5%	33.3%		50.0%
\$20,000 - \$29,999	29	17	12	5	6	7	6	1	4	2	2	3	2	3	2	3	1	1	-	-	2	1	1
	13.7%	16.0%	10.5%	11.6%	15.0%	17.1%	24.0%	3.4%	14.3%	7.7%	14.3%	11.1%	11.8%	8.6%	20.0%	25.0%	5.6%	10.0%			22.2%	25.0%	50.0%
\$30,000 - \$39,999	3	1	2	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
	1.4%	.9%	1.8%					3.4%						2.9%									
\$40,000 - \$49,999	2	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	.9%		1.8%		2.5%																		
\$50,000 - \$59,999	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	.5%		.9%																				
\$70,000 AND OVER	3	1	3	2	-	1	-	1	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-
	1.4%	.9%	2.6%	4.7%		2.4%		3.4%		3.8%				2.9%									
REFUSED	30	11	13	4	4	3	4	7	2	2	2	2	3	2	-	-	2	3	1	2	1	1	-
	14.2%	10.4%	11.4%	9.3%	10.0%	7.3%	16.0%	24.1%	7.1%	7.7%	14.3%	7.4%	17.6%	5.7%			11.1%	30.0%	8.3%	18.2%	11.1%	25.0%	
DON'T KNOW	31	18	21	7	5	5	5	4	5	1	1	4	2	8	-	2	3	-	-	1	1	1	-
	14.7%	17.0%	18.4%	16.3%	12.5%	12.2%	20.0%	13.8%	17.9%	3.8%	7.1%	14.8%	11.8%	22.9%		16.7%	16.7%			9.1%	11.1%	25.0%	

Table 33-2
Q.31 - HOUSEHOLD INCOME
BASED ON TOTAL INTERVIEWED

	GENDER			RESPONDENT'S AGE			HOUSEHOLD SIZE			HOUSEHOLD INCOME			RESP'S OCCUPATION			PRESENCE OF CHILDREN			
	TOTAL	MALE	FE-MALE	UNDER 45	45 TO 64	65 OR OVER	ONE	TWO	THREE OR MORE	UNDER \$10K	\$10K- \$20K	\$20K PLUS	EMPL- OYED	RE- TIRED	UMEMP. /H.W. /STUD.	YES	6 YRS OR <	7 TO 12	13 TO 17
TOTAL	211	84	127	52	59	98	58	80	69	39	73	38	58	121	21	52	23	22	20
UNDER \$10,000	39	7	32	5	17	17	17	17	5	39	-	-	4	29	5	4	1	1	2
	18.5%	8.3%	25.2%	9.6%	28.8%	17.3%	29.3%	21.3%	7.2%	100%			6.9%	24.0%	23.8%	7.7%	4.3%	4.5%	10.0%
\$10,000 - \$19,999	73	31	42	18	19	36	27	27	19	-	73	-	20	42	10	16	7	4	7
	34.6%	36.9%	33.1%	34.6%	32.2%	36.7%	46.6%	33.8%	27.5%		100%		34.5%	34.7%	47.6%	30.8%	30.4%	18.2%	35.0%
\$20,000 - \$29,999	29	16	13	16	8	5	1	10	18	-	-	29	19	6	2	14	10	7	2
	13.7%	19.0%	10.2%	30.8%	13.6%	5.1%	1.7%	12.5%	26.1%			76.3%	32.8%	5.0%	9.5%	26.9%	43.5%	31.8%	10.0%
\$30,000 - \$39,999	3	2	1	2	1	-	-	-	3	-	-	3	2	-	-	3	-	1	3
	1.4%	2.4%	.8%	3.8%	1.7%				4.3%			7.9%	3.4%			5.8%		4.5%	15.0%
\$40,000 - \$49,999	2	2	-	1	1	-	-	-	2	-	-	2	2	-	-	1	-	-	1
	.9%	2.4%		1.9%	1.7%				2.9%			5.3%	3.4%			1.9%			5.0%
\$50,000 - \$59,999	1	-	1	-	-	1	1	-	-	-	-	1	-	1	-	-	-	-	-
	.5%		.8%			1.0%	1.7%					2.6%		.8%					
\$70,000 AND OVER	3	2	1	3	-	-	-	1	2	-	-	3	3	-	-	2	1	2	2
	1.4%	2.4%	.8%	5.8%				1.3%	2.9%			7.9%	5.2%			3.8%	4.3%	9.1%	10.0%
REFUSED	30	11	19	4	8	17	5	11	12	-	-	-	6	17	3	8	3	4	2
	14.2%	13.1%	15.0%	7.7%	13.6%	17.3%	8.6%	13.8%	17.4%				10.3%	14.0%	14.3%	15.4%	13.0%	18.2%	10.0%
DON'T KNOW	31	13	18	3	5	22	7	14	8	-	-	-	2	26	1	4	1	3	1
	14.7%	15.5%	14.2%	5.8%	8.5%	22.4%	12.1%	17.5%	11.6%				3.4%	21.5%	4.8%	7.7%	4.3%	13.6%	5.0%

Table 33-3
Q.31 - HOUSEHOLD INCOME
BASED ON TOTAL INTERVIEWED

	HOUSE TYPE			HOUSE AGE			SIZE OF RESIDENCE			TYPE OF AREA			PRINCIPAL FUEL			
	SINGLE	DET-	OTHER	30 YRS	31-50	OVER	<1,000	1,000-	OVER	RURAL	TOWN	CITY	GAS	ELECT-	OIL	OTHER
	ACHED			LESS	YEARS	YEARS	SQ.FT.	1,500	1,500					RICITY		
TOTAL	211	187	18	52	60	74	35	39	30	66	49	94	84	25	40	32
UNDER \$10,000	39	35	4	12	10	9	5	2	6	14	9	16	15	6	11	1
	18.5%	18.7%	22.2%	23.1%	16.7%	12.2%	14.3%	5.1%	20.0%	21.2%	18.4%	17.0%	17.9%	24.0%	27.5%	3.1%
\$10,000 - \$19,999	73	63	8	15	25	27	15	15	10	23	16	34	27	9	16	16
	34.6%	33.7%	44.4%	28.8%	41.7%	36.5%	42.9%	38.5%	33.3%	34.8%	32.7%	36.2%	32.1%	36.0%	40.0%	50.0%
\$20,000 - \$29,999	29	27	1	7	6	15	4	10	6	10	9	9	10	2	4	7
	13.7%	14.4%	5.6%	13.5%	10.0%	20.3%	11.4%	25.6%	20.0%	15.2%	18.4%	9.6%	11.9%	8.0%	10.0%	21.9%
\$30,000 - \$39,999	3	3	-	1	1	1	1	-	1	2	1	-	-	1	1	-
	1.4%	1.6%		1.9%	1.7%	1.4%	2.9%		3.3%	3.0%	2.0%			4.0%	2.5%	
\$40,000 - \$49,999	2	2	-	-	1	1	1	-	1	1	-	1	-	-	-	1
	.9%	1.1%			1.7%	1.4%	2.9%		3.3%	1.5%		1.1%				3.1%
\$50,000 - \$59,999	1	1	-	-	-	1	-	-	-	-	1	-	1	-	-	-
	.5%	.5%				1.4%					2.0%		1.2%			
\$70,000 AND OVER	3	2	1	-	-	3	-	1	1	2	-	1	1	-	1	-
	1.4%	1.1%	5.6%			4.1%		2.6%	3.3%	3.0%		1.1%	1.2%		2.5%	
REFUSED	30	27	1	11	10	5	3	9	3	7	6	16	15	3	1	4
	14.2%	14.4%	5.6%	21.2%	16.7%	6.8%	8.6%	23.1%	10.0%	10.6%	12.2%	17.0%	17.9%	12.0%	2.5%	12.5%
DON'T KNOW	31	27	3	6	7	12	6	2	2	7	7	17	15	4	6	3
	14.7%	14.4%	16.7%	11.5%	11.7%	16.2%	17.1%	5.1%	6.7%	10.6%	14.3%	18.1%	17.9%	16.0%	15.0%	9.4%