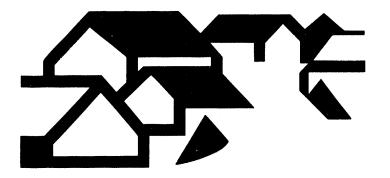
#### The 1992 Pacific Northwest Residential Energy Survey – Phase I

Book 5: Selected Crosstabulations

■ Volume F: Pacific Northwest Region

PNWRES92



This document is a product of the Energy Resources Development and Implementation Process:

**Define Situation** 

Identify Alternatives Select Strategies Implement Strategies Evaluate Performance

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#### Energy Resources Development and Implementation Process

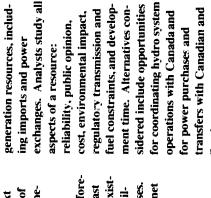
reflects that process, with others for their advice and major tasks for each step. customers, the Northwest Program contains all the Throughout the process, steps needed to plan for Power Planning Council, utility and environmental The Energy Resources interactions among the groups, the public and resources. This chart Though we display a linear process, it is a and manage energy simplification; many stages take place. Bonneville asks comment.

Customers Northwest Power Planning Council Utility and Environmental Groups The Public

#### Defining the Resource Picture

To define the resource

picture. Bonneville assesses its customers' power requirements for the next 20 years and the supply of existing resources. Bonneville and the Northwest Power Planning Council publish energy demand forecasts, and analysts forecast how much power from existing resources will be available to meet projected uses. The difference must be met by new resources.



strategy.

#### Selecting Strategies

resources and predict future supplies of conservation and

Analysts track potential

Alternatives

Identifying

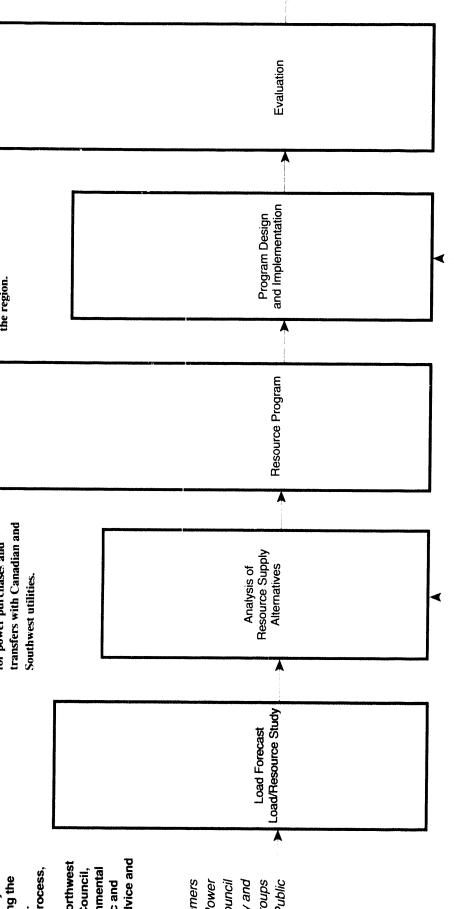
Using information on loads and resources, Bonneville weighs combinations of resources, their consequences, and public comment to choose the most appropriate and cost-effective resource strategy. The Resource Program documents this

#### Implementing Strategies

Resource Program is the next programs and projects. BPA resource developers, interest conservation and generation step. Working with utilities, others, Bonneville sponsors projects and also provides Fulfilling the plans in the reviews of programs and groups, the public, and oversight for generation conducts environmental megawatts of electricity generated or saved for projects. The result: the region.

#### Evaluating Performance

How well did actions meet BPA's objectives? Answering this question through program evaluation provides information on energy savings, energy production, costs and other measures of program quality. It is BPA's policy to evaluate all energy resource acquisitions.



#### The 1992 Pacific Northwest Residential Energy Survey -Phase I

#### (PNWRES92-I)

#### **Book 5: Selected Crosstabulations**

Volume F: Pacific Northwest Region

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#### PREFACE

This book constitutes a portion of the *primary documentation* for the **1992 Pacific Northwest Residential Energy Survey, Phase I (PNWRES92-I)**.<sup>1</sup> The complete 33-volume set of primary documentation provides information needed by energy analysts and interpreters with respect to planning, execution, data collection, and data management of the PNWRES92-I process. Thirty of these volumes are devoted to different "views" of the data themselves, with each view having a special purpose or interest as its focus. Analyses and interpretations of these data will be the subjects of forthcoming publications.

Conducted during the late summer and fall months of 1992, PNWRES92-I had the over-arching goal of satisfying basic requirements for a variety of information about the stock of residential units in Bonneville's service region. Surveys with a similar goal were conducted in 1979 and 1983 and were respectively designated PNWRES79 and PNWRES83.

<sup>&</sup>lt;sup>1</sup> From its planning stages, PNWRES92 was conceived as and intended to be a two-phase study: Phase I, the Telephone Survey, was to provide a modest amount of data on a large number (some 20,000) of Pacific Northwest households; Phase II, the On-Site Survey, was to provide a great deal of data on relatively few (perhaps 2,000-3,000) of the households interviewed in Phase I. Phase I households were intended also to provide a "surrogate population" of the region's households for specially focused future surveys.

PNWRES92-I differed from its two predecessors in several ways. It was designed to ...

... be conducted as a telephone survey—in contrast to an on-site/in-person interview.

.... include all classes of housing units in the Pacific Northwest—in contrast to those that could be reached only through cooperating electric utilities.

... assure coverage of six geographic sub-regions<sup>2</sup> and three utility types<sup>3</sup>—in contrast, again, to depending upon the cooperation and effort of a selection of electric utilities.

... provide data on some 20,000 housing units—in contrast to some 4,000-5,000 housing units interviewed in PNWRES79 and PNWRES83.

... provide a surrogate population of Pacific Northwest households as a basis for future, fine-tuned surveys aimed at specific issues or limited data needs.

In order to provide a record of intention and achievement, the 33 coordinated volumes—designated **Volume A through Volume AG**—were prepared by PNWRES92-I's principal contractor, the Applied Management & Planning Group of Los Angeles, CA. These volumes are collected and published in a series of 12 "books," each of which contains a particular subgroup of the 33 volumes:

- Book 1: Volumes A and B. The Executive Summary, the Concordance, and the Glossary (A) and the Report on Methodology and the Technical Appendix (B).
- **Book 2:** Volume C. Item-by-item crosstabulations<sup>4</sup> for the Pacific Northwest Region.

**Book 3: Volume D**. Item-by-item crosstabulations for the four Bonneville Area Offices (Puget Sound, Lower Columbia, Upper Columbia, and Snake River).

<sup>&</sup>lt;sup>2</sup> Western Montana, Idaho, Eastern Washington, Western Washington, Eastern Oregon, and Western Oregon.

<sup>&</sup>lt;sup>3</sup> Publicly-Owned Generating Utilities, Publicly-Owned Non-Generating Utilities, and Investor-Owned Utilities.

<sup>&</sup>lt;sup>4</sup> Item-by-item crosstabulations display all responses to each of 80 survey items (excepting confidential/sensitive items like names and addresses) for each of the 15 survey domains and for the Region (Volume C), Bonneville's four Area Offices (Volume D), and the four Pacific Northwest states (Volume E).

- **Book 4: Volume E**. Item-by-item crosstabulations for the four Pacific Northwest states served by Bonneville (Western Montana, Idaho, Washington, and Oregon).
- **Book 5:** Volume F. Selected crosstabulations<sup>5</sup> for the Pacific Northwest Region.
- **Book 6: Volumes G, H, and I**. Selected crosstabulations for the three publicly-owned *generating* utility domains: Eastern Washington (G), Western Washington (H), and Western Oregon (I).
- Book 7: Volumes J, K, L, M, N, and O. Selected crosstabulations for the six publiclyowned *non-generating* utility domains: Western Montana (J), Idaho (K), Eastern Washington (L), Western Washington (M), Eastern Oregon (N), and Western Oregon (O).
- Book 8: Volumes P, Q, R, S, T, and U. Selected crosstabulations for the six investor-owned utility domains: Western Montana (P), Idaho (Q), Eastern Washington (R), Western Washington (S), Eastern Oregon (T), and Western Oregon (U).
- Book 9: Volumes V, W, X, and Y. Selected crosstabulations for Bonneville's four Area Offices: Puget Sound (V), Lower Columbia (W), Upper Columbia (X), and Snake River (Y).
- Book 10: Volumes Z, AA, AB, and AC. Selected crosstabulations for the four states served by Bonneville: Washington (Z), Oregon (AA), Idaho (AB), and Western Montana (AC).
- Book 11: Volumes AD, AE, and AF. Selected crosstabulations for the three categories of utilities in the Pacific Northwest: Public Generating (AD), Public Non-Generating (AE), and Investor-Owned (AF).
- **Book 12: Volume AG.** A report of a post-survey study of PNWRES92-I non-respondents (conducted in late Spring 1993) and their reason(s) for not completing the original survey.

For additional information, comments, or data requests, contact David Mills: 503-230-7505.

To obtain copies of the reports, contact Kim Andersen, End-Use Research Section (RPEE), Bonneville Power Administration, P.O. Box 3621, Portland, OR 97208-3621: 503-230-5712.

Individually-bound copies of **Volume A (Executive Summary, Concordance, and Glossary)** may be obtained from Bonneville's Public Information Office: 503-230-3055.

<sup>&</sup>lt;sup>5</sup> "Selected crosstabulations" refers to a set of nine survey items of wide interest (Dwelling Type, Ownership Type, Year-of-Construction, Dwelling Size, Primary Space-Heating Fuel, Primary Water-Heating Fuel, Household Income for 1991, Utility Type, and Space-Heating Fuels: Systems and Equipment) that were crosstabulated among themselves and thus yielded 36 two-way tables for each of the several views displayed in **Volumes F through AF**.

1992 Pacific Northwest Residential Energy Survey Phase I

### VOLUME F Pacific Northwest Region Crosstabulations

Prepared for Bonneville Power Administration Portland, Oregon

by Applied Management & Planning Group Los Angeles

Contract No.: DE-AC79-92BP25174

#### **OVERVIEW OF 1992 PACIFIC NORTHWEST RESIDENTIAL ENERGY SURVEY**

Phase I of the 1992 Pacific Northwest Residential Energy Survey (PNWRES92-I) was the third comprehensive survey of the region to provide data on energy usage, conservation awareness/behaviors and associated consumer characteristics for use in forecasting and planning by the Bonneville Power Administration.

Energy-use data from residential surveys conducted in 1979 and 1983 have been used extensively by Bonneville, the Pacific Northwest Utilities Conference Committee, the Northwest Power Planning Council, and by several of the utilities in the region. Since 1983, both increased fuel prices and conservation programs have impacted consumer behavior and have made it necessary to update the data base used for forecasting. In order to improve the accuracy of these forecasts, more detailed information was required concerning the use of residential energy in the Pacific Northwest. Thus, Bonneville contracted its third regional residential survey, PNWRES92-I.

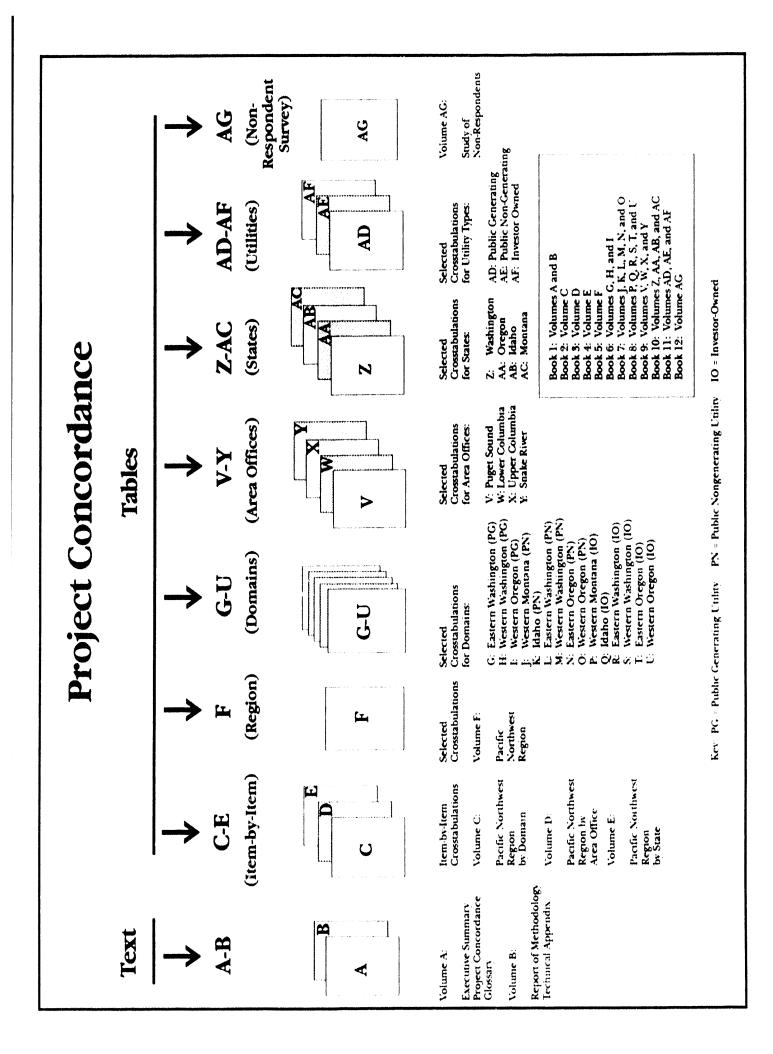
A team of staff members, representing several constituencies within Bonneville's Office of Energy Resources, designed the data collection as a telephone survey. The Applied Management & Planning Group (AMPG), Los Angeles, California, was selected to carry out the survey, to summarize the data, and to prepare the initial documentation. Interviewing Services of America (ISA), Van Nuys, California, was subcontracted by AMPG to conduct the telephone interviews.

PNWRES92-I used random digit dialing (RDD) and computer-assisted telephone interviewing (CATI). The sample was stratified into 15 sampling domains defined by geographic area and utility type. A total of 20,170 interviews were completed from September 3, 1992, to December 9, 1992.

The survey's full documentation is divided among 33 volumes, which are displayed in the Project Concordance in the next section. All volumes are available both in printed form and on personal computers using **Bonneville Power Plus**. Volumes A and B provide detailed documentation. Volume C shows all survey items for each sampling domain, for the entire region. Each of the data tables in Volumes C through AF show both the sample counts and the weighted population counts, as well as a chart for the population counts.

Volume F presents selected crosstabulations for the Pacific Northwest Region.

For additional information, comments, or data requests, contact David Mills: (503)230-7505. To obtain copies of the reports, contact Kim Andersen, End-Use Research Section (RPEE), Bonneville Power Administration, P.O. Box 3621, Portland, OR 97208-3621; (503)230-5/12.



#### Listing of Tables and Charts Volume F: Pacific Northwest Region Crosstabulations

- F-1: Ownership Type by Dwelling Type
- F-2: Year of Construction by Dwelling Type
- F-3: Dwelling Size in Square Feet by Dwelling Type
- F-4: Primary Space-Heating Fuel Type by Dwelling Type
- F-5: Primary Water-Heating Fuel Type by Dwelling Type
- F-6: Household Income by Dwelling Type
- F-7: Utility Type by Dwelling Type
- F-8: Space-Heating Fuels: Systems and Equipment by Dwelling Type
- F-9: Year of Construction by Ownership Type
- F-10: Dwelling Size in Square Feet by Ownership Type
- F-11: Primary Space-Heating Fuel Type by Ownership Type
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- F-19: Household Income by Year of Construction
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- F-21: Space-Heating Fuels: Systems and Equipment by Year of Construction
- F-22: Primary Space-Heating Fuel Type by Dwelling Size in Square Feet
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- F-32: Utility Type by Primary Water-Heating Fuel Type
- F-33: Space-Heating Fuels: Systems and Equipment by Primary Water-Heating Fuel Type
- F-34: Utility Type by Household Income
- F-35: Space-Heating Fuels: Systems and Equipment by Household Income
- F-36: Space-Heating Fuels: Systems and Equipment by Utility Type

#### Tables and Charts Survey QuestionsVolume F:Pacific Northwest Region Crosstabulations

| F-1:  | Ownersł<br>Q18:           | nip Type by Dwelling Type<br>Do you own your home, rent it, or occupy it under some other<br>arrangement?   |
|-------|---------------------------|---|
|       | Q16:                      | Which of the following best describes your dwelling?  |
| F-2:  | Year of (<br>Q20:<br>Q16: | Construction by Dwelling Type<br>In what year was your home constructed?<br>Which of the following best describes your dwelling?                                  |
| F-3:  | Dwelling<br>Q24:<br>Q16:  | Size in Square Feet by Dwelling Type<br>What is the square footage of your home?<br>Which of the following best describes your dwelling?                          |
| F-4:  | Primary<br>Q46:<br>Q16:   | Space-Heating Fuel Type by Dwelling Type<br>What fuel do you use most to heat your home?<br>Which of the following best describes your dwelling?                  |
| F-5:  | Primary<br>Q102:<br>Q16:  | Water-Heating Fuel Type by Dwelling Type<br>What fuel do you use most for heating water in your home?<br>Which of the following best describes your dwelling?     |
| F-6:  | Q186:                     | old Income by Dwelling Type<br>Was your total household income before taxes for 1991 above or<br>below \$25,000?  |
|       | Q188&<br>Q189:<br>Q16:    | What is your household income?<br>Which of the following best describes your dwelling?  |
| F-7:  | Utility Ty<br>Q16:        | pe by Dwelling Type<br>Which of the following best describes your dwelling?   |
| F-8:  | Space-H<br>Q16:           | leating Fuels: Systems and Equipment by Dwelling Type<br>Which of the following best describes your dwelling?   |
| F-9:  | Year of (<br>Q20:<br>Q18: | Construction by Ownership Type<br>In what year was your home constructed?<br>Do you own your home, rent it, or occupy it under some other<br>arrangement?         |
| F-10: | Dwelling<br>Q24:<br>Q18:  | Size in Square Feet by Ownership Type<br>What is the square footage of your home?<br>Do you own your home, rent it, or occupy it under some other<br>arrangement? |

#### Tables and Charts Survey QuestionsVolume F: Pacific Northwest Region Crosstabulations

#### F-11: Primary Space-Heating Fuel Type by Ownership Type

- Q46: What fuel do you use most to heat your home?
- Q18: Do you own your home, rent it, or occupy it under some other arrangement?
- F-12: Primary Water-Heating Fuel Type by Ownership Type
  - Q102: What fuel do you use most for heating water in your home?
  - Q18: Do you own your home, rent it, or occupy it under some other arrangement?
- F-13: Household Income by Ownership Type
  - Q186: Was your total household income before taxes for 1991 above or below \$25,000?

Q188&

- Q189: What is your household income?
- Q18: Do you own your home, rent it, or occupy it under some other arrangement?
- **F-14:** Utility Type by Ownership Type
  - Q18: Do you own your home, rent it, or occupy it under some other arrangement?
- **F-15:** Space-Heating Fuels: Systems and Equipment by Ownership Type Q18: Do you own your home, rent it, or occupy it under some other arrangement?
- **F-16:** Dwelling Size in Square Feet by Year of Construction
  - Q24: What is the square footage of your home?
  - Q20: In what year was your home constructed?
- F-17: Primary Space-Heating Fuel Type by Year of Construction Q46: What fuel do you use most to heat your home? Q20: In what year was your home constructed?
- F-18: Primary Water-Heating Fuel Type by Year of Construction
   Q102: What fuel do you use most for heating water in your home?
   Q20: In what year was your home constructed?

#### F-19: Household Income by Year of Construction

Q186: Was your total household income before taxes for 1991 above or below \$25,000?

Q188&

- Q189: What is your household income?
- Q20: In what year was your home constructed?

#### Tables and Charts Survey QuestionsVolume F: Pacific Northwest Region Crosstabulations

| F-20: | Utility Type by Year of Construction<br>Q20: In what year was your home constructed?   |
|-------|--|
| F-21: | Space-Heating Fuels: Systems and Equipment by Year of Construction Q20: In what year was your home constructed?  |
| F-22: | Primary Space-Heating Fuel Type by Dwelling Size in Square Feet<br>Q46: What fuel do you use most to heat your home?<br>Q24: What is the square footage of your home?  |
| F-23: | Primary Water-Heating Fuel Type by Dwelling Size in Square Feet<br>Q102: What fuel do you use most for heating water in your home?<br>Q24: What is the square footage of your home?                                    |
| F-24: | Household Income by Dwelling Size in Square Feet<br>Q186: Was your total household income before taxes for 1991 above or<br>below \$25,000?  |
|       | Q188&<br>Q189: What is your household income?<br>Q24: What is the square footage of your home?   |
| F-25: | Utility Type by Dwelling Size in Square Feet<br>Q24: What is the square footage of your home?  |
| F-26: | Space-Heating Fuels: Systems and Equipment by Dwelling Size in Square<br>Feet<br>Q24: What is the square footage of your home?   |
| F-27: | <ul><li>Primary Water-Heating Fuel Type by Primary Space-Heating Fuel Type</li><li>Q102: What fuel do you use most for heating water in your home?</li><li>Q46: What fuel do you use most to heat your home?</li></ul> |
| F-28: | Household Income by Primary Space-Heating Fuel Type<br>Q186: Was your total household income before taxes for 1991 above or<br>below \$25,000?   |
|       | Q188&<br>Q189: What is your household income?<br>Q46: What fuel do you use most to heat your home?   |
| F-29: | Utility Type by Primary Space-Heating Fuel Type<br>Q46: What fuel do you use most to heat your home?   |
| F-30: | Space-Heating Fuels: Systems and Equipment by Primary Space-Heating Fuel Type  |
|       | Q46: What fuel do you use most to heat your home?  |

#### Tables and Charts Survey QuestionsVolume F: Pacific Northwest Region Crosstabulations

| F-31: | Household Income by Primary Water-Heating Fuel Type<br>Q186: Was your total household income before taxes for 1991 above or<br>below \$25,000?                     |
|-------|--|
|       | Q188&<br>Q189: What is your household income?<br>Q102: What fuel do you use most for heating water in your home?   |
| F-32: | Utility Type by Primary Water-Heating Fuel Type<br>Q102: What fuel do you use most for heating water in your home?   |
| F-33: | Space-Heating Fuels: Systems and Equipment by Primary Water-Heating<br>Fuel Type<br>Q102: What fuel do you use most for heating water in your home?                |
| F-34: | Utility Type by Household Income<br>Q186: Was your total household income before taxes for 1991 above or<br>below \$25,000?<br>Q188&                               |
|       | Q189: What is your household income?   |
| F-35: | Space-Heating Fuels: Systems and Equipment by Household Income<br>Q186: Was your total household income before taxes for 1991 above or<br>below \$25,000?<br>Q188& |
|       | Q189: What is your household income?   |
| E 06. | Change Lipping Fueley Sustema and Faultament by Litility Type  |

**F-36:** Space-Heating Fuels: Systems and Equipment by Utility Type

# Table F-1: Ownership Type by Dwelling Type Q18 by Q16

### Raw Data

|                        |              |                           | M              | DWELLING TYPE |          |             |              | Γ        |
|------------------------|--------------|---------------------------|----------------|---------------|----------|-------------|--------------|----------|
|                        | Manufactured | anufactured Single Family |                |               |          | Fiveplex or | Ī            |          |
| OWNERSHIP TYPE         | Home         | Dwelling                  | Duplex         | Triplex       | Fourplex | More        | Other        | TOTA     |
| Own                    | 2,497        | 12,216                    | <del>3</del> 5 | 28            |          | 13          | 15           | 15 120   |
| Rent or Lease          | 413          | 2,040                     | 8 <u>9</u> 3   | Х<br>Х        | 286      | 1 234       | 24           | A P.D    |
| Occupy without Payment | 7            | 152                       | 15             | G             | 4        | , K         |              |          |
| Don't Know             | •            | 7                         | 0              |               |          | 3 -         | <del>.</del> | 3        |
| Refused                | 4            | 16                        | 0              | 0             |          | • •         |              | <u>ک</u> |
| TOTAL                  | 2,992        | 14,536                    | 728            | 113           | 92       | 1,392       | R            | 20,170   |

## Weighted Data

|                        |                 |                          | M       | DWELLING TYPE |          |                |        |           |
|------------------------|-----------------|--------------------------|---------|---------------|----------|----------------|--------|-----------|
|                        | Manufactured    | undactured Single Family |         |               |          | Firenter or    |        |           |
| OWNERSHIP TYPE         | Home            | Dwelling                 | Duplex  | Triplex       | Fourplex | More           | Other  | TOTAL     |
| Own                    | 373,129         | 2,170,644                | 28,673  | 8,210         | 8,260    | 27,001         | 12 567 | 2 628 483 |
| Rent or Lease          | 9 <b>8</b> 0'65 |                          | 96,518  | 21,193        | 53.377   | 286 145        | 5.438  | Cac 128   |
| Occupy without Payment | 1.731           |                          | 3 778   |               | AAG      | 2.055<br>2.055 |        | 707'100   |
| Drut Know              | 2               |                          |         | •             | ţ        | nor'r          | R.     |           |
|                        | <b></b>         | 5.                       | Ð       | Ð             | 0        | 0              | ক্ষ    | 1,902     |
| Keiused                | 323             | 4,208                    | 0       | 0             | 0        | 0              | 2      | 4,601     |
|                        |                 |                          |         |               |          |                |        |           |
| IU A                   | 440,324         | 2,553,152                | 128,418 | 29,403        | 62.082   | 317.101        | 18 329 | 3 548 809 |
|                        |                 |                          |         |               |          |                |        |           |

Bonneville Power Administration PNWRES\$2-Phase | Pacific Northwest Region Crosstates Volume F - Tathe 1

Bonneville Power Administration PNNRCES\$2-Phase | Pacific Northwest Region Crosstabs Volume F - Chart 1

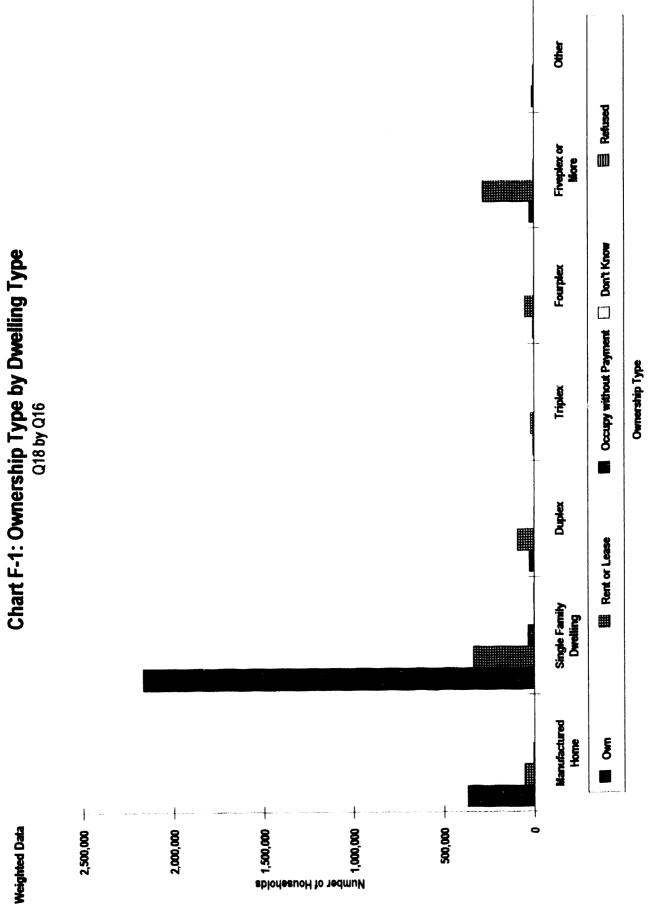


 Table F-2: Year of Construction by Dwelling Type

 Q20 by Q16

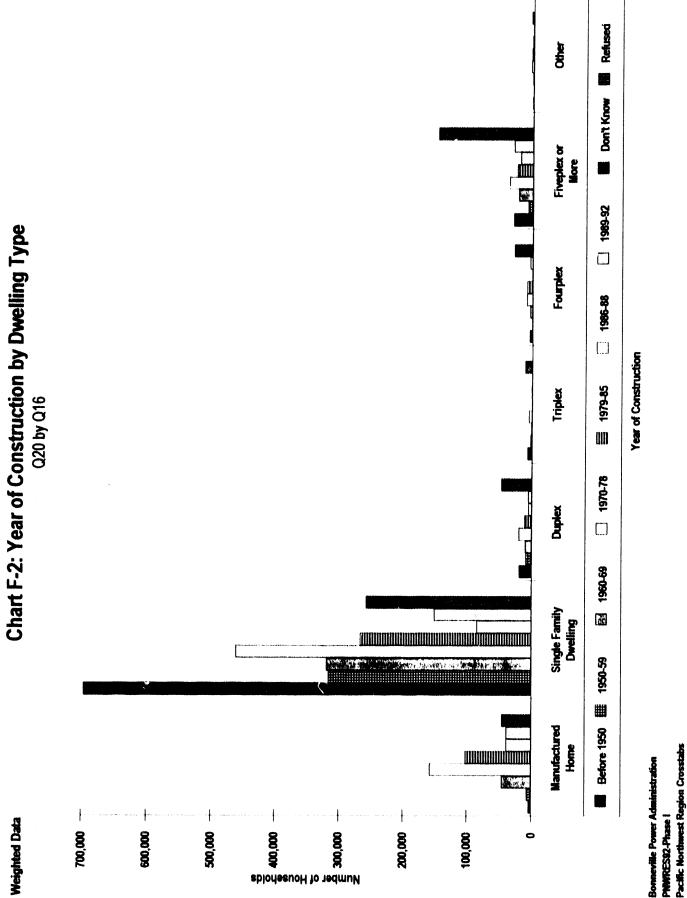
Raw Data

|                      |              |               | M        | DWELLING TYPE |            |  |       |        |
|----------------------|--------------|---------------|----------|---------------|------------|--|-------|--------|
|                      | Manufactured | Single Family |          |               |            | Fiveplex or  |       |        |
| YEAR OF CONSTRUCTION | Home         | Dwelling      | Duplex   | Triplex       | Fourplex   | More   | Other | TOTAL  |
| Before 1950          | 37           | 3,872         | <b>5</b> | 22            | 28         | 128  | Ŧ     | 4 207  |
| 1950-59              | 11           | 1,872         | 57       | 7             | 10         | 8  | e     | 2065   |
| 1960-69              | 580          | 1,840         | 62       | 7             | 19         | <u>8</u>   | 7     | 2.204  |
| 1970-78              | 1,101        | 2,545         | 107      | 13            | 8          | 181  | 17    | 4 017  |
| 1979-85              | 889          | 1,517         | <b>8</b> | 9             | 5          | 117  | 16    | 2.62   |
| 1986-88              | 22           | <b>F</b> 83   | 8        | 4             | σ          | 99   |       | 8      |
| 1989-92              | 278          | £11           | £        | 4             | 18         | 106  | 00    | 1 22   |
| Don't Know           | 313          | 1,619         | 274      | 47            | <u>152</u> | a de la de l | 12    | 3 061  |
| Refused              | 3            | ŝ             | -        | 0             | -          | e  | 0     | 12     |
| TOTAL                | 2,992        | 14,536        | 178      | 113           | 330        | 1,382  | R     | 20,170 |
|                      |              |               |          |               |            |  |       |        |

## Weighted Data

|                      |              |               | DW       | DWELLING TYPE                          |          |             |        |           |
|----------------------|--------------|---------------|----------|--|----------|-------------|--------|-----------|
|                      | Manufactured | Single Family |          |  |          | Fiveplex or |        |           |
| YEAR OF CONSTRUCTION | Home         | Dwelling      | Duplex   | Triplex                                | Fourplex | Nor         | Other  | TOTA      |
| Before 1950          | 4,083        | 697,182       | 19,443   | 7,012                                  | 4,818    | 26.732      | 1.608  | 763.676   |
| 1950-59              | 7,275        | 315,781       | 9,219    | 2,682                                  | 1.405    | 1.791       | 8      | 344.595   |
| 1960-69              | 45,743       | 318,833       | 10,307   | 1,715                                  | 4,162    | 20,402      | 1562   | S77.75    |
| 1970-78              | 157,724      | 461,086       | 19,582   | 5.302                                  | 9,101    | 36.461      | 3 894  | 011 209   |
| 1979-85              | 101.727      | 266,668       | 11,383   | 245                                    | 8.707    | 24 461      | 3.60   | A16.640   |
| 1986-88              | 39,003       | 84,796        | 5.427    | 1,003                                  | 1 213    | 19.367      | 100 C  | 152 816   |
| 19 <del>89-9</del> 2 | 38,843       | 151,063       | 5,572    | 194                                    | 144.1    | 20 478      | 1 151  |           |
| Don't Know           | 45,787       | 257,268       | 47.341   | 11.249                                 | 28.117   | 147 184     | 3041   |           |
| Refused              | 138          | 476           | 142      | 0                                      | g        | 82          | 0      | 1,319     |
| TOTAL                | 102.011      | 2 553 157     | 128.418  | 204.05                                 |          | 247 4M      | 40.720 | 2 E.Ae en |
|                      |              | To: Image     | 012-2021 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ac, we   | 212,101     |        |           |

Bonneville Power Administration PNNRES82-Phase I Pactitc Northwest Region Crosstabs Volume F - Table 2



-

PNNRCES92-Phase | Pacific Northwest Region Crosstabs Volume F - Chart 2

Table F-3: Dwelling Size in Square Feet by Dwelling Type Q24 by Q16

|                  |              |               | MO           | DWELLING TYPE |          |            |          |        |
|------------------|--------------|---------------|--------------|---------------|----------|------------|----------|--------|
| DWEILING SIZE IN | Manufactured | Single Family |              |               |          | Fivenex or |          |        |
| SQUARE FEET      | Home         | Dwelling      | Duplex       | Triplex       | Fourplex | Nore       | Other    | TOTA   |
| < 750            | 213          | 207           | ਲ            | 14            | 8        | <u>1</u> 8 | 4        | 141    |
| 750 to < 1000    | 467          | 83<br>83      | 114          | 14            | 73       | 275        | 1        | 1 818  |
| 1000 to < 1250   | 423          | 1,847         | 120          | 10            | 41       | 138        | i G      | 2.5.6  |
| 1250 to < 1500   | 348          | 1,576         | 54           | 2             | 19       | 07         |          | 2 0.65 |
| 1500 to < 1750   | 273          | 1,558         | 41           | S             | , vo     | 24         |          | 1 640  |
| 1750 to < 2000   | 210          | 1,323         | 8            | 4             | 0        | 16         | - 40     | 1 500  |
| 2000 to < 2500   | 8            | 1,828         | 8            | n             | 3        | : =        |          |        |
| 2500 to < 3000   | 27           | 006           | 10           | 0             | 2        | -          |          | 3      |
| 3000 ar >        | 8            | 1,050         | 12           | 4             | ŝ        | 10         |          | 1177   |
| Don't Know       | 602          | 3,367         | 762          | 3             | 138      | 200        | <u>×</u> | 5      |
| Refused          | n            | 17            | 0            | 0             | -        | 2          | 0        | 2      |
| TOTAL            | 2,992        | 14,536        | <b>9</b> 728 | 113           | WL.      | 1 201      | 2        |        |

11.

Weighted Data

|                  |              |               | MC      | DMELLING TYPE |                |            |        |            |
|------------------|--------------|---------------|---------|---------------|----------------|------------|--------|------------|
| DWEITING SIZE IN | Manufactured | Single Family |         |               |                | Fivedex or |        |            |
| SQUARE FEET      | Home         | Dwelling      | Duplex  | Triplex       | Fourplex       | More       | Other  | TOTA       |
| < 750            | 32,181       | 30,417        | 6,253   | 4,851         | 6,077          | 44.495     | 2 002  | 129 256    |
| 750 to < 1000    | 65,441       | 134,222       | 611,62  | 2,884         | 12,940         | 67,106     | 2509   |            |
| 1000 to < 1250   | 69,167       | 366,996       | 24,265  | 2,123         | 10,481         | 202 12     | 5110   | 145 494    |
| 1250 to < 1500   | 51,101       | 288,120       | 1,725   | 1 534         | 3770           | 14 (19)    | 1 430  |            |
| 1500 to < 1750   | 37,943       | 296,087       | 6,647   | 1.501         | 828            | 6 603      | 8      |            |
| 1750 to < 2000   | 36,979       | 250,604       | 5.074   | 512           | 1450           | 4 150      | 3.9    |            |
| 2000 to < 2500   | 11,617       | 351,141       | 5,146   | 1,189         | 1 033          | 2 883      | AC2    |            |
| 2500 to < 3000   | 2,683        | 169,255       | 1.819   | 0             | 3              | 1 903      |        |            |
| 3000 ar >        | 3,608        | 186,680       | 1,265   | 1,429         | 52             | 251        | 31     |            |
| Don't Know       | 128,619      | 534,770       | 46,446  | 13,381        | 22 000         | 146 834    | 5005   |            |
| Refused          | 986          | 1,867         | 0       | 0             | 8              | 106        | 0      | 2,979      |
| TOTAL            | 440,324      | 2,553,152     | 128.418 | 29,403        | 63 <b>0</b> 63 | 317 1M     | 11 220 | 2 5.4E BAD |

Bonneville Power Administration PNNRESS12-Phase | Pacific Northwest Region Crosstabs Volume F - Table 3





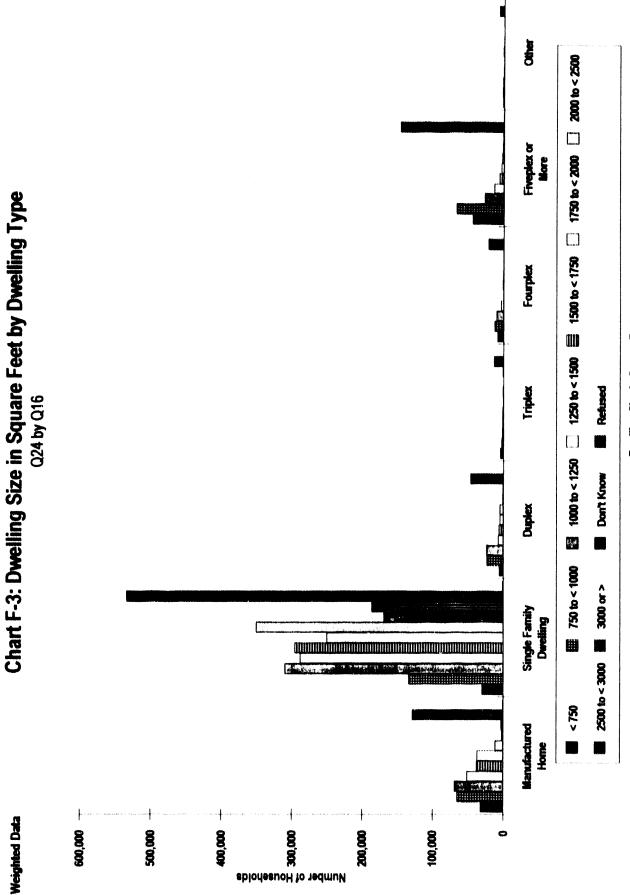


Table F-4: Primary Space-Heating Fuel Type by Dwelling Type Q46 by Q16

Raw Data

|                        |              |               | MC          | DMELLING TYPE |          |             |          |          |
|------------------------|--------------|---------------|-------------|---------------|----------|-------------|----------|----------|
| PRIMARY SPACE-HEATING  | Manufactured | Single Family |             |               |          | Fiveplex or |          |          |
| FUEL TYPE              | Home         | Dwelling      | Duplex      | Triplex       | Fourplex | More        | <b>S</b> | TOTAL    |
| Electricity            | 1,846        | 6,901         | 461         | £             | 24       | 1,064       | 8        | 10,621   |
| Natural Gas            | 166          | 2,686         | 91          | 7             | 24       | 8           | 4        | 3003     |
| Fuel Oil               | 53           | 1,348         | 12          | <b>y</b> m    | m        | 4           | 0        | 1,426    |
| Wood ar Presto Logs    | 768          | 3,254         | ¥           | S             | e        | 13          | 16       | 4 083    |
| Propene or Bottled Gas | 138          | 82            | 0           | <b>*</b> ••   | 4-       | 9           | 7        | S.F.     |
| Kerosene               | 4            | 12            | 2           | 0             | 0        | 0           | ō        | 18       |
| Coal                   | 2            | 8             | -           | 0             | 0        | 0           | 0        | 8        |
| Solar                  | -            | 7             | 0           | 0             | -        | 0           | 0        | 16       |
| Geothermal             |              | 9             | 0           | 0             | 0        | -           | 0        | •0       |
| Other                  | 7            | 4             | -           | 0             | 0        | 0           | 0        | 3        |
| No Heat                | *            | £             | 0           | 0             | C        | 0           | Ô        | 4        |
| Not Asked              | 0            | 0             | <u>1</u> 25 | 19            | ន        | Ø           | 8        | \$       |
| Dari't Know            | 0            | 11            | -           | 0             | +        | 4           | 0        | 11       |
| Refused                | 0            | *             | 0           | 0             | 0        | 0           | 0        | <b>4</b> |
| TOTAL                  | 2,992        | 14,536        | 128         | 113           | 336      | 1,392       | R        | 20,170   |

Boareeffie Power Administration PMMCSSQ-Phases | Pacific Northwest Region Crossishs Volume F - Table 4

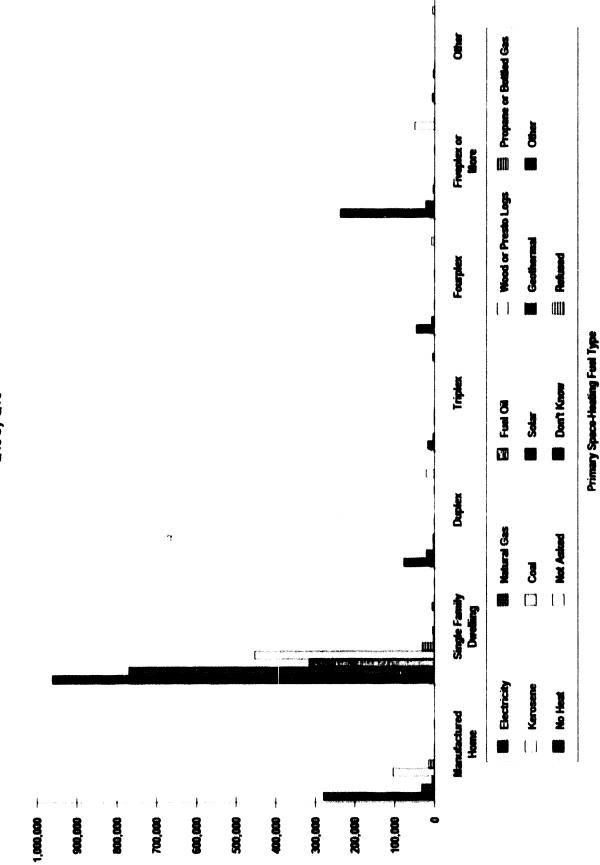
# Table F-4: Primary Space-Heating Fuel Type by Dwelling Type Q46 by Q16

# Weighhed Data

|                        |              |               | MC         | DMELLING TYPE |            |             |            |                 |
|------------------------|--------------|---------------|------------|---------------|------------|-------------|------------|-----------------|
| PRIMARY SPACE-HEATING  | Manufactured | Single Family |            |               |            | Freeplex or |            |                 |
| FUEL TYPE              | Home         | Dwelling      | Duplex     | Triplex       | Fourplex   | More        | <b>Ser</b> | TOTAL           |
| Electricity            | 279,968      | 963,206       | 101        | 17,488        | 46,928     | 296,152     | 6,766      | 1.629.745       |
| Natural Gas            | 32,626       | 1927,011      | 20,884     | 4,724         | 1,228      | 22,188      | 196        | <b>858</b> ,134 |
| Fuel Oil               | 9079'9       | 315,998       | 3,155      | 5             | 115        | £           | 0          | 326.196         |
| Wood or Presto Logs    | 104.789      | 453,586       | 4,625      | 386           | 178        | 4,054       | 4,628      | 572,066         |
| Propane or Bottled Gas | 14,509       | 31,354        | 0          | <b>19</b> 5   | <b>t</b> 5 | 212         | 1.13       | THEM            |
| Kerosene               | 514          | 3,204         | 1,174      | 0             | 0          | 0           | ō          | 2001            |
| Con                    | 196          | 5,011         | 2          | 0             | 0          | 0           | 0          | 5.07            |
| Solar                  | R            | 1,099         | 0          | 0             | 415        | 0           | 0          | 1.584           |
| Geothermal             | ğ            | <b>F</b> 2    | 0          | 0             | 0          | 181         | 0          | 1.075           |
| Other                  | 913          | 7,118         | g          | 0             | 0          | 0           | 0          | 535.8           |
| No Heat                | 2            | 516           | 0          | 0             | 0          | 0           | 0          | 3               |
| Not Asked              | •            | G             | 20,738     | 5,226         | 7,148      | 50,682      | 5,500      | BUE DE          |
| Don't Know             | •            | 198           | <b>t</b> 5 | 0             | 3          | 1,356       | 0          | 2,407           |
| Refused                | 0            | ମ             | 0          | 0             | 0          | 0           | 0          | 8               |
| TOTAL                  | 102,011      | 2,553,152     | 126,418    | 29,403        | 62,062     | 347,101     | 14,229     | 3,548,809       |

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Bouwelle Prwer Administration Prattic Rootward Rugion Coonside Volume F - Charl A



Number of Households

Chart F-4: Primary Space-Heating Fuel Type by Dwelling Type 046 by Q16

Weighted Data

Table F-5: Primary Water-Heating Fuel Type by Dwelling Type 0102 by 016

| 1 |
|---|
| J |
| G |
| 2 |

|                       |              |               |            | THELLING TYPE |          |             |   |        |
|-----------------------|--------------|---------------|------------|---------------|----------|-------------|---|--------|
| PRIMARY WATER HEATING | Manufactured | Single Family |            |               |          | Fineplex or |   |        |
| RUEL TYPE             | Home         | Dwelling      | Duplex     | Triplex       | Fourplex | ţ           | O | TOTAL  |
| Electricity           | 2,667        | 12,266        | 8          | R             | 20       | 8           | 2 | 16,731 |
| Natural Gas           | 841          | 1,902         | <b>3</b> 3 | S             | 5        | \$          | m | 2,100  |
| Fuel OI               |              | 8             | ę          | 0             | 0        | 0           | 0 | 8      |
| Wood                  | 2            | LG            | 0          | 0             | 0        | 0           | R | 24     |
| Propane or Bothed Gas | ET.          | <b>19</b>     | 0          | 0             | 0        | 4           | 7 | *      |
| Sofier                | e            | 8             | -          | 0             | -        | 0           | 0 | M      |
| Officer               | 2            | 1             | 0          | 0             | 0        | -           | 0 | 2      |
| No Hot Water in Home  | 2            | 2             | 0          | 0             | 0        | 0           | 0 | 4      |
| Not Asked             | 0            | 0             | 2          | æ             | 8        |             | R | 3      |
| Don't Know            | 7            | 3             | 9          | 2             | 4        | ŧ           | 0 | 8      |
| Refused               | •            | o             | 0          | 0             | •        | 0           | 0 | •      |
| TOTAL                 | 2992         | 14,536        | 81         | 113           | 8        |             | 2 | 20,170 |

### Weighted Data

|                        |              |               |         | DREUBIG TYPE |             |            |        | Γ         |
|------------------------|--------------|---------------|---------|--------------|-------------|------------|--------|-----------|
| PRIMARY WATER-HEATING  | Kanufactured | Single Family |         |              |             | Freplex or |        |           |
| FUEL TYPE              | Home         | Dunding       | Duplex  | Triplex      | Fourplex    | More       | Other  | TOTA      |
| Electricity            | 162,295      |               | 200,362 | 20,332       | 12,201      | 220,473    | 9,968  | 2712775   |
| Natural Cas            | 28,242       |               | 15,404  | 983          | 4,892       | 16,229     | 1.00.1 | 520 ABS   |
| Fuel Oi                | 15           |               | 511     | 0            | 0           | 0          | 0      | 6.843     |
| Wood                   | 1,157        |               | •       | 0            | 0           | 0          | 2:     | 6,718     |
| Propene or Bottled Gas | 17,002       | 25,512        | 0       | 0            | 0           | 2          | 314    | 13,059    |
| Solar                  | 1000         |               | 2       | 0            | 415         | 0          | 0      |           |
| Other                  | 3            |               | 0       | 0            | 0           | 3          | 0      | 1,206     |
| No Hot Water In Home   | ž            |               | 0       | 0            | 0           | 0          | 0      | 618       |
| Not Asked              | 0            | 0             | 30,798  | 8,003        | 10,825      | 76,163     | 6,067  | 132,686   |
| Don't Know             | 616          | 12,783        | 1,268   | 175          | <b>64</b> 1 | 3,950      | 0      | 19.541    |
| Refused                | 0            | G             | 0       | 0            | 0           | 0          | 0      | 0         |
| TOTAL                  | NCC ONT      | 2,553,152     | 128,418 | 29,403       | 62,082      | 317,101    | 18,229 | 3,548,809 |

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Bomerille Power Administration PruntESE2.Phase I Pacific Northwest Rayion Creecialis Volume F - Chart 5

Primary Water-Heating Fuel Type

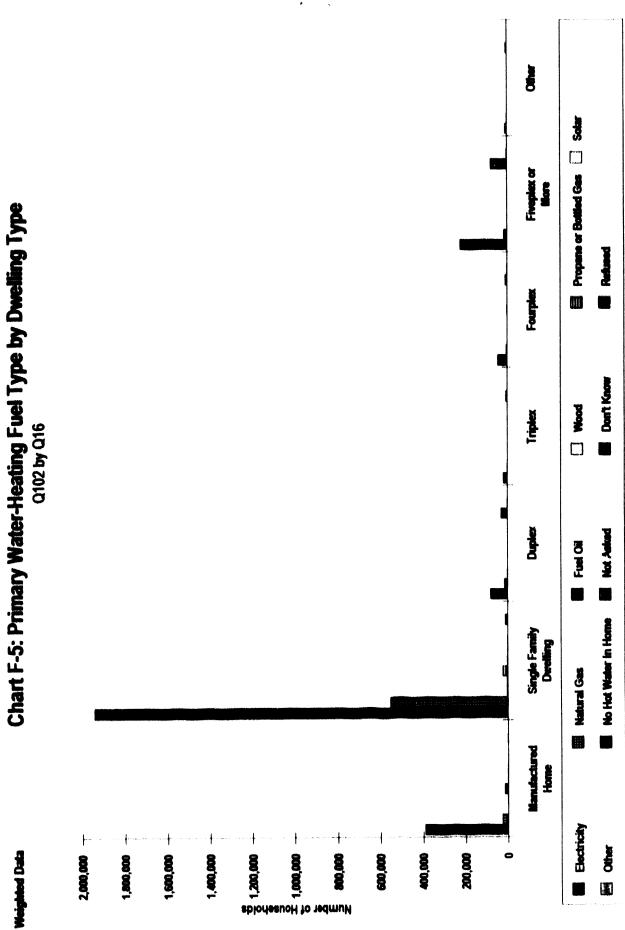


 Table F-6: Household Income by Dwelling Type

 Q186, Q188, Q189 by Q16

Raw Data

|                         | Manufactured | Single Family |        |         | -        | -heplex or      |       |       |
|-------------------------|--------------|---------------|--------|---------|----------|-----------------|-------|-------|
| HOUSEHOLD INCOME        | Home         | Dwelling      | Duplex | Triplex | Fourplex | More            | Other | TOTAL |
| Below \$5,000           | 88           | 217           | ន      | 1       | R        | 116             | 8     | 2     |
| \$5,000 to < \$10,000   | 245          | 909           | 8      | 13      | 4        | <b>1</b><br>190 | 6     | 1,164 |
| \$10,000 to < \$15,000  | 202          | 88            | 8      | 4       | 8        | 191             | 6     | 1,517 |
| \$15,000 to < \$20,000  | 38           | 325           | 74     | 1       | Я        | <u>1</u>        | 6     | 1,401 |
| \$20,000 to < \$25,000  | 32           | 1,181         | 91     | Ø       | 8        | 121             | 7     | 1,796 |
| \$25,000 to < \$30,000  | 88           | 1,555         | Ę      | 0)      | 4        | 124             | 10    | 2,173 |
| \$30,000 to < \$40,000  | 424          | 2,182         | 8      | 17      | 8        | 124             | 9     | 2,870 |
| \$40,000 to < \$50,000  | 198          | 1,524         | Ŧ      | 9       | 19       | 8               | 4     | 1,857 |
| \$50,000 to < \$60,000  | 8            | 3 <b>5</b> 5  | 83     | S       | 14       | 8               | 2     | 1,107 |
| \$60,000 to < \$80,000  | 4            | 2175          | 19     | m       | ę        | 19              | 0     | 198   |
| \$80,000 to < \$100,000 | 15           | 302           | 11     | 2       | 2        | 5               | 2     | 8     |
| \$100,000 ar Mare       | 19           | 316           | 4      | -       | -        | 9               | ***   |       |
| Dan't Know              | 241          | 1,149         | 57     | σ       | 24       | 134             | 5     | 1,619 |
| Refused                 | 332          | 1,958         | 78     | 1       | ន        | 12              | 7     | 2,529 |
| 1014                    | 2 992        | 14,536        | 82/    | 113     | 900      | 1.382           | 2     | 20,17 |

Bonneette Pouer Administration PNNRESK2-Phane I Pacific Northwest Rogion Crosstabs Volume F - Table 6 

 Table F-6: Household Income by Dwelling Type

 Q186, Q188, Q189 by Q16

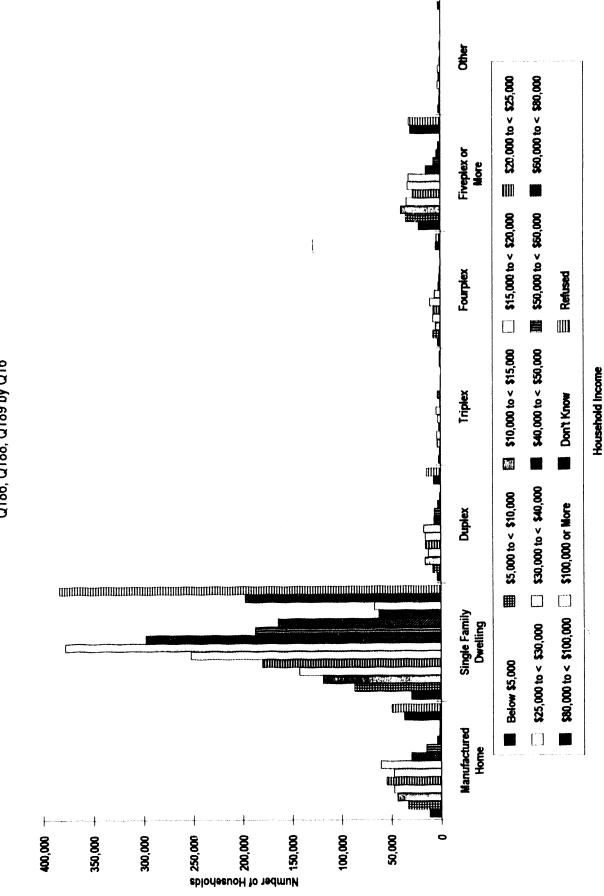
Weighted Data

|                         |              |               | M       | DWELLING TYPE |          |             |        |           |
|-------------------------|--------------|---------------|---------|---------------|----------|-------------|--------|-----------|
|                         | Manufactured | Single Family |         |               |          | Fiveplex or |        |           |
| HOUSEHOLD INCOME        | Home         | Dwelling      | Duplex  | Triplex       | Fourplex | More        | Other  | TOTAL     |
| Below \$5,000           | 11 770       | 30,191        | 3,887   | 2,298         | 3,163    | 21,759      | 2.287  | 75.357    |
| \$5,000 to < \$10,000   | 33,480       | 87,398        | 8,192   | 1,396         | 7.421    | 35,085      | 1.378  | 174 349   |
| \$10,000 to < \$15,000  | 44,252       | 118,729       | 15,803  | 3,738         | 4,869    | 30,771      | 1.114  | 278 275   |
| \$15,000 to < \$20,000  | 47,437       | 142,717       | 12,616  | 3,993         | 7,582    | 34,430      | 3.133  | 251 909   |
| \$20,000 to < \$25,000  | 55,148       | 180,290       | 15,411  | 2,086         | 7,347    | 28,179      | 2.140  | 290,603   |
| \$25,000 to < \$30,000  | 47,511       | 252,606       | 15,364  | 3,133         | 10.437   | 33,285      | 2 553  | 364 887   |
| \$30,000 to < \$40,000  | 60,992       | 378,632       | 17,010  | 4,736         | 6,052    | 32,239      | 961    | 500.622   |
| \$40,000 to < \$50,000  | . 30,048     | 297,881       | 6,939   | 1,069         | 2.308    | 14.756      | 318    | 353 319   |
| \$50,000 to < \$60,000  | 14,613       | 187,842       | 6,600   | 3,254         | 1.826    | 7 255       | 056    | 277.379   |
| \$60,000 to < \$80,000  | 4,367        | 164,648       | 3,277   | 417           | 1.088    | 4.256       | 0      | 178.054   |
| \$80,000 to < \$100,000 | 1,943        | 62,728        | 1,434   | 387           | 2        | 2.704       | 175    | 69 456    |
| \$100,000 or More       | 1,833        | 66,730        | 447     | ନ             | 841      | 872         | 415    | 71 169    |
| Don't Know              | 37,319       | 197,910       | 7,324   | 1,447         | 4,836    | 30,623      | 366    | 279.825   |
| Refused                 | 49,610       | 384,850       | 14,114  | 1,418         | 4,228    | 31,887      | 2,537  | 488,644   |
| TOTAL                   | 440,324      | 2,553,152     | 128,418 | 29,403        | 62,082   | 317,101     | 18.329 | 3.548.809 |
|                         |              |               |         |               |          |             |        |           |

Bonneville Power Administration PNWRES92-Phase I Pacific Northwest Region Crosstabs Volume F - Table 6



# Chart F-6: Household Income by Dwelling Type Q186, Q188, Q189 by Q16



Borneville Power Administration PMWRES92-Phase I Pacific Northwest Region Crosstabs Volume F - Chart 6

# Table F-7: Utility Type by Dwelling Type TYPE by Q16

#### Raw Data

|                       |                |               | M      | DWEILING TYPE |          |             |       |        |
|-----------------------|----------------|---------------|--------|---------------|----------|-------------|-------|--------|
|                       | Manufactured S | Single Family |        |               |          | Fiveplex or |       |        |
|                       | Home           | Dwelling      | Duplex | Triplex       | Fourplex | More        | Other | TOTAL  |
| Public Generating     | 570            | 3,998         | 711    | 31            | 117      | 624         | 12    | 5,529  |
| Public Non-Generating | 1,853          | 7,558         | Ŕ      | 51            | 156      | 510         | 4     | 10,506 |
| Investor Owned        | 895<br>1       | 2,980         | 117    | 31            | 51       | <b>8</b> 52 | 8     | 4,035  |
| TOTAL                 | 2,992          | 14,536        | 178    | 113           | 330      | 1,392       | R     | 20,170 |

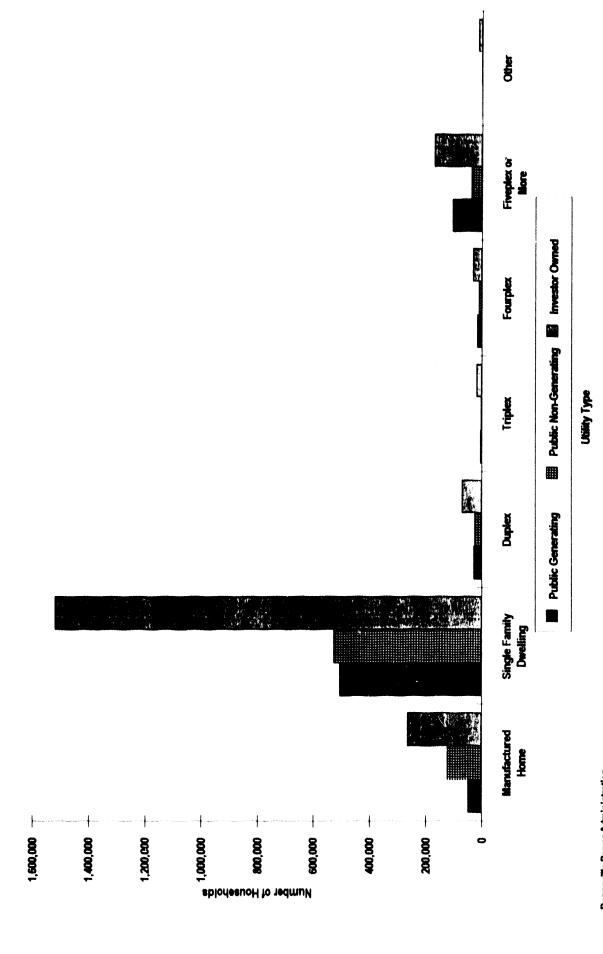
## Weighted Data

|                       |              |               | M       | DMELLING TYPE |          |             |        |           |
|-----------------------|--------------|---------------|---------|---------------|----------|-------------|--------|-----------|
|                       | Manufactured | Single Family |         |               |          | Fiveplex or |        |           |
| UTILITY TYPE          | Home         | Dwelling      | _       | Triplex       | Fourplex | More        | Other  | TOTAL     |
| Public Generating     | 50,715       | 505,802       | 30,085  | 5,773         | 17,428   | 107,391     | 385    | 718,158   |
| Public Non-Generating | 124,629      | 527,220       |         | 3,427         | 11,383   | 39,275      | 2,641  |           |
| Investor Owned        | 264,980      | 1,520,130     |         | 20,203        | 33,271   | 170,436     | 14.724 | 2         |
| TOTAL                 | 440,324      | 2,553,152     | 126,418 | 29,403        | 62,082   | 317,101     | 18,329 | 3,548,809 |

Bonneville Power Administration PNNRESS2-Phase i Pacific Northwest Region Crosstabs Volume F - Table 7



# Chart F-7: Utility Type by Dwelling Type TYPE by Q16



Bonneville Power Administration PWWRES82-Phase I Pacific Northwest Region Crosstabs Volume F - Chart 7 

 Table F-8: Space-Heating Fuels: Systems and Equipment by Dwelling Type

 HEAT\_EQP by Q16

Raw Data

| SPACE-HEATING<br>FUELS: 5<br>Multi-Umit:<br>Fossii: |                               | Manufactured | Single Family   |          |          |             |             |       |        |
|---|-------------------------------|--------------|-----------------|----------|----------|-------------|-------------|-------|--------|
| FUELS: S<br>Muniti-Unit:<br>Fossai:                 |                               |              | •               |          |          |             | Fineplex or |       |        |
|   | FUELS: SYSTEMS AND EQUIPMENT  | Home         | Dwelling        | Duplex   | Triplex  | Fourplex    | More        | Other | TOTA   |
| Fossi   | Central Heat - All Units      | 0            | 0               | <b>8</b> | 7        | 8           | 186         | \$    | 8      |
| Fossil:   | Central Heat - Several Units  | 0            | 0               | 16       | 5        | 80          | 2           | e     | 3      |
| Foesil:   | Unit Not Heated               | 0            | 0               | 2        | 0        | 2           | 7           | 0     | Ŧ      |
|   | Steam or Hot Water Radiators  | 8            | <b>6</b> 2      | 9        | 0        | 2           | *           | 6     | 246    |
|   | Wall, Floor, or Ceiling Units | 24           | 274             | 16       | e        | 4           | 8           |       | Ŕ      |
|   | Portable Units                | ø            | 8               | -        | 0        | 0           | -           | 0     | 4      |
|   | Central Furnace               | 318          | 3,630           | 75       | 11       | 21          | 4           | 6     | A 105  |
|   | Other                         | 5            | 8               | 4        | 2        | 0           | -           |       | 112    |
| Electricity:  | Heat Pump                     | 157          | <del>8</del> 61 | 11       | 3        | 1           | 19          | 2     | 1,160  |
|   | Portable Room Heaters         | 41           | 128             | 11       | 2        | 4           | 21          | e     | 210    |
|   | Radiant Panels                | 8            | 1,167           | 131      | 13       | ន           | 244         | 9     | 1.72   |
|   | Steam or Hot Water Radiators  | 80           | 13              | 0        | -        | 0           | 5           | 0     | 8      |
|   | Central Furnace               | 1,414        | 1,863           | 8        | 6        | 82          | 115         | 11    | 3,505  |
|   | Baseboard or Wall Units       | 115          | 2,678           | 53       | <b>Q</b> | <u>1</u> 45 | 23          | 6     | 3,853  |
|   | Other                         | 1            | 31              | -        | 0        | 0           | 4           | 0     | R      |
| Wood:   | Free-Standing Stove           | 976          | 2,329           | 8        | e        | 2           | 3           | 3     | 3,048  |
|   | Free-Standing Pellet Stove    | 47           | 211             | e        | 2        | 0           | -           | 0     | A      |
|   | Central Furnace               | 10           | 176             | 0        | 0        | 0           | 0           | *     | 187    |
|   | Freplace with an Insert       | 8            | 460             | ę        | 0        | Ŧ           | 9           | *     | 104    |
|   | Fireplace without an Insert   | 9            | 8               | 2        | 0        | 0           | e           |       | 2      |
| Other:  | Solar                         | -            | 14              | 0        | 0        | 1           | 0           | 6     | 16     |
|   | Geothermal                    | -            | 9               | 0        | 0        | 0           | -           | 0     | •0     |
|   | Other                         | 1            | 4               | -        | 0        | o           | 0           | 0     | 8      |
|   | No Heat                       | -            | £               | 0        | 0        | 0           | 0           | 0     |        |
|   | Don't Know                    | ଛ            | z               | 18       | 2        | 10          | 14          | 2     | Į‡     |
|   | Refused                       | 0            | ę               | 0        | 0        | 0           | 0           | 0     | ~      |
|   | TOTAL                         | 2,992        | 14,536          | 82,2     | 113      | 92          | 1,382       | 2     | 20,170 |

 Table F-8: Space-Heating Fuels: Systems and Equipment by Dwelling Type

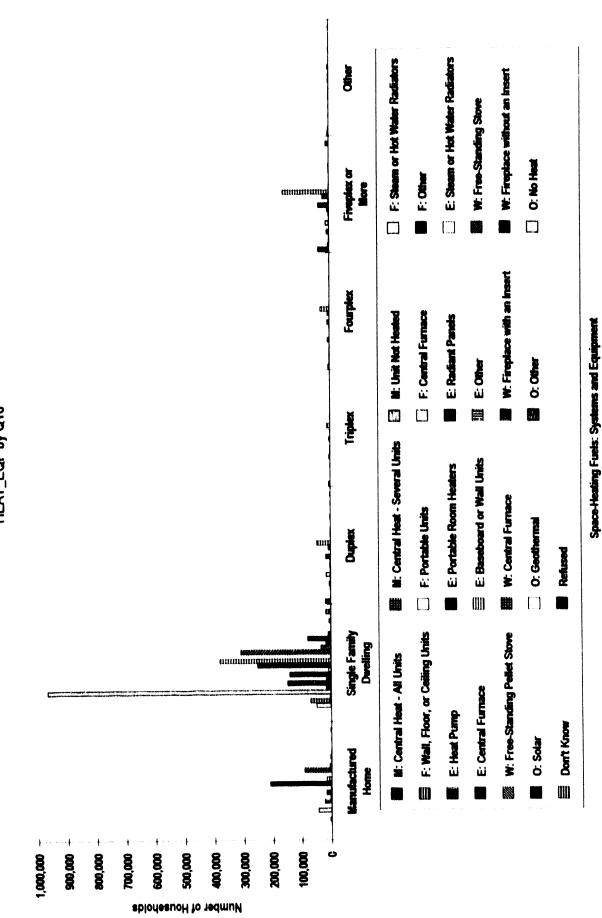
 HEAT\_EQP by Q16

Weighted Data

| wayned use   |                                      |              |               |   | TIME LING TYPE |          |             |        | ſ         |
|--------------|--------------------------------------|--------------|---------------|---|----------------|----------|-------------|--------|-----------|
| SPACEHEATING |                                      | Manufactured | Single Family |   |                |          | Fiveplex or |        |           |
| FUELS:       | FUELS: SYSTEMS AND EQUIPMENT         | Home         | Dwelling      | Duplex  | Triplex        | Fourpiex | More        | Other  | TOTAL     |
| Multi-Unit:  | Multi-Unit: Central Heat - All Units | 0            | 0             | 18,345  | 5,020          | 5,779    | 39,811      | 3,791  | 72,746    |
|              | Central Heat - Several Units         | 0            | 0             | 1,332   | <b>30</b> 6    | 114      | 4,250       | 1,672  | 122.1     |
|              | Unit Not Heated                      | 0            | 0             | 2   | 0              | ¥        | 1,345       | 0      | 1,856     |
| Fossil:      | Steam or Hot Water Radiators         | 1,246        | 51,296        | 1.694   | 0              | R        | 1,070       | 0      | 55.55     |
|              | Wall, Floor, or Ceiling Units        | 4,898        | 71,558        | 5,817   | 8 <b>4</b> 5   | 8        | 9,127       | 841    | 11928     |
|              | Portable Units                       | 816          | 4,673         | 8   | 0              | 0        | 35          | 0      | 5,876     |
|              | Central Furnace                      | 45,856       | 969,891       | 15,353  | 3,875          | 6,247    | 12,552      | 264    | 1.054.267 |
|              | Other                                | 243          | 18,104        | 1,309   | 86<br>28       | 0        | 8           | 8      | 21,211    |
| Electricity. | Heat Pump                            | 24,871       | 149,980       | 3,003   | 616            | ສ        | 2,481       | 23     | 181,506   |
|              | Portable Room Heaters                | 3,784        | 15,908        | 1,683   | 178            | 908<br>8 | 6,589       | 302    | 20,273    |
|              | Radiant Panels                       | 17,664       | 142,727       | 16,067  | 4,303          | 8,190    | 38,467      | 1,040  | 228,568   |
|              | Steam or Hot Water Radiators         | 3,221        | 9,005         | 0   | ₹<br>£         | 0        | 2,365       | 0      | 14.722    |
|              | Central Furnace                      | 211,140      | 252,658       | 712,1   | <b>9</b> 83    | 6,104    | 23,118      | 1,744  | 503,028   |
|              | Baseboard or Wall Units              | 17,016       | 382,754       | 48,610  | 11,203         | 31,519   | 159,958     | 2211   | 653.271   |
|              | Other                                | 142          | 3,583         | ଞ   | 0              | 0        | 1982        | 0      | 4.641     |
| :pooM        | Free-Standing Stove                  | 32,592       | 310,376       | 1,451   | £              | 124      | 187         | 3,724  | 409,305   |
|              | Free-Standing Pellet Stove           | 6,010        | 36,197        | 8   | Ą              | 0        | 35          | 0      | 41,626    |
|              | Central Furnace                      | <u>s</u>     | 17,489        | 0   | 0              | 0        | 0           | 8      | 18,426    |
|              | Freplace with an Insert              | 4,474        | 80,256        | 168<br>1  | 0              | 35       | 1,552       | 8      | 145'90    |
|              | Fireplace without an Insert          | 474          | 9,358         | 2,578   | 0              | 0        | 2,260       | 118    | 15,511    |
| Other.       | Solar                                | 02           | 1,099         | 0   | 0              | 415      | 0           | 0      | 1.584     |
|              | Geothermal                           | <u>1</u>     | 753           | 0   | 0              | •        | 181         | 0      | 1,075     |
|              | Other                                | 913          | 7,118         | g   | 0              | 0        | 0           | 0      | 8,363     |
|              | No Heat                              | 02           | 516           | 0   | 0              | 0        | 0           | 0      | 33        |
|              | Dan't Know                           | 3,276        | 17,831        | 2,543   | 8              | 1,119    | 10,736      | 1,034  | 36,586    |
|              | Refused                              | 0            | 1,024         | 0   | 0              | 0        | 0           | 0      | 1,004     |
|              | TOTAL                                | 440,324      | 2553,152      | 128,418   | 29,403         | 200 23   | 317.101     | 18.229 | 3 548 809 |
|              |                                      |              |               | I and |                |          |             |        |           |

Bonneville Power Administration PMMRESS2-Phane I Pacific Northwest Rogion Crosstabs Volume F - Table 8 Chart F-8: Space-Heating Fuels: Systems and Equipment by Dwelling Type HEAT\_EQP by Q16

Weighted Data



Bonneville Power Administration PNURES82-Phase I Pacific Northwest Region Crosstabs Volume F - Chart 8

# Table F-9: Year of Construction by Ownership Type Q20 by Q18

| Л |  |
|---|--|
| B |  |
| 2 |  |
|   |  |

|                      |        | <b>Geo</b> | ERSHIP TYPE    |            |         |        |
|----------------------|--------|------------|----------------|------------|---------|--------|
|                      |        |            | Occupy         |            |         |        |
|                      |        | Rent or    | <b>Without</b> |            |         |        |
| YEAR OF CONSTRUCTION | O      | <b>1</b>   | Payment        | Dan't Know | Fehrend | TOTAL  |
| Before 1950          | 3,236  | 863        | ŝ              | 9          | e       | 1877   |
| 1950-59              | 1,713  | 500        | 37             | 0          | 2       | 2,005  |
| 1960-69              | 1,883  |            | 4              | 0          | 2       | 2.20   |
| 1970-78              | 3,410  | 280        | 8              | -          | 9       | 191    |
| 1979-85              | 2,104  | 906<br>306 | ą              | 0          | 2       | 2.62   |
| 1966-88              | đ      | 109        | O)             | 0          | 0       | g      |
| 19 <del>09-5</del> 2 | 1,023  | 186        | 10             | -          | 0       | 1,23   |
| Don't Know           | 1,000  | 1,920      | 8              | 4          | 9       | 3.001  |
| Refused              | Q      | Q          | 0              | 0          | 6       | 5      |
| TOTAL                | 15,120 | 4,640      | 8              | 6          | ~       | 20,170 |

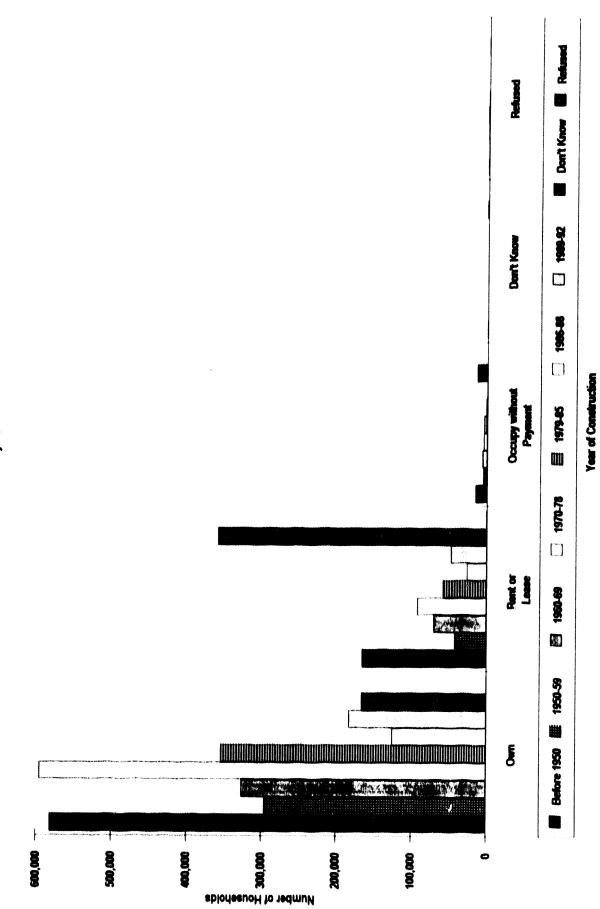
## Weighted Data

|                      |             |         | ERSHIP TYPE |            |         |                |
|----------------------|-------------|---------|-------------|------------|---------|----------------|
|                      |             |         | Occupy      |            |         |                |
|                      |             | Rent or | without     |            |         |                |
| YEAR OF CONSTRUCTION | Our         |         | Payment     | Don't Know | Fefered | TOTAL          |
| Betare 1950          | 581,361     | 166,715 | 15,271      | 113        | 1,053   | <b>MALEN</b>   |
| 1950-59              | 296,445     | 42,308  | 5,264       | 0          | 8/1     |                |
| 1960-69              | 326,383     | 70,646  | 6,825       | 0          | 1/28    |                |
| 1970-78              | 586,137     | 91,877  | 111.1       | 3          | 1.301   | <b>661.140</b> |
| 1979-85              | 354,027     | 57,829  | 4,639       | 0          | 19      | 416,640        |
| 1906-88              | 124,977     | 22,955  | 1,874       | 0          | 0       | 152,806        |
| 1909-92              | 163,196     | 620,14  | <b>8</b> 95 | 8          | 0       | 220,022        |
| Don't Know           | 166,451     | 369,014 | 13,329      | 1,340      | 12      | 540,067        |
| Refused              | <b>30</b> 5 | 813     | 0           | 0          | 0       | 1,319          |
| TOTAL                | 2,628,483   | 861,282 | 52541       | 1,902      | 4,601   | 3,548,809      |

Bennette Prous Administration Prottis Rochman I Pacific Rochman Rogina Cronstalu Volume F - Takle 9



# Chart F-9: Year of Construction by Ownership Type 020 by Q18



Bosseville Power Administration PHINESR2 Phese | Pacific Northwest Region Creastinks Volume F - Chart 8 Table F-10: Dwelling Size in Square Feet by Ownership Type 024 by 018

Raw Data

|                  |          |          | DIMERSHIP TYPE |            |       |              |
|------------------|----------|----------|----------------|------------|-------|--------------|
|                  |          |          | Occupy         |            |       |              |
| DMELLING SIZE IN |          | Rent or  | Tion in        |            |       |              |
| SOUME FEET       | <b>M</b> | j        | Payment        | Don't Know | Print | TOTA         |
| < 750            | 38       | <b>9</b> | Z              | -          | 1     | Ħ            |
| 750 to < 1000    | 1,067    | 111      | 8              | 0          | -     | 1, MH        |
| 1000 to < 1250   | 88       |          | 8              | 2          | 4     |              |
| 1250 to < 1500   | 1,730    | 592      | 8              |            | M     | 2.065        |
| 1500 to < 1750   | 1,675    | 200      | R              | 0          | *     | 1,910        |
| 1750 to < 2000   | 1.08     | à        | 8              | 0          | 0     |              |
| 2000 lo < 2500   | 11.1     | 141      | 8              | 0          | Ś     | 1997<br>1997 |
| 2500 to < 3000   | 53       | 8        | 60             | 0          | 0     | 3            |
| 3000 ar >        | 1,047    | 8        | 12             | 0          | ~     | 1,123        |
| Don't Know       | 3,238    | 2,051    | 5              | 2          | 4     | 5,000        |
| Retured          | 11       | ŝ        | ***            | 0          | 0     | 2            |
| N MA             | 46 434   | 12.6     | 8              |            | ×     | <b>20</b> (2 |
| IULE             |          | 3        | R              | •          | 5     |              |

Denote Prov Antibula Protecto Provi Partic Hardword Rayon Constan Volume F - Tatle 19 

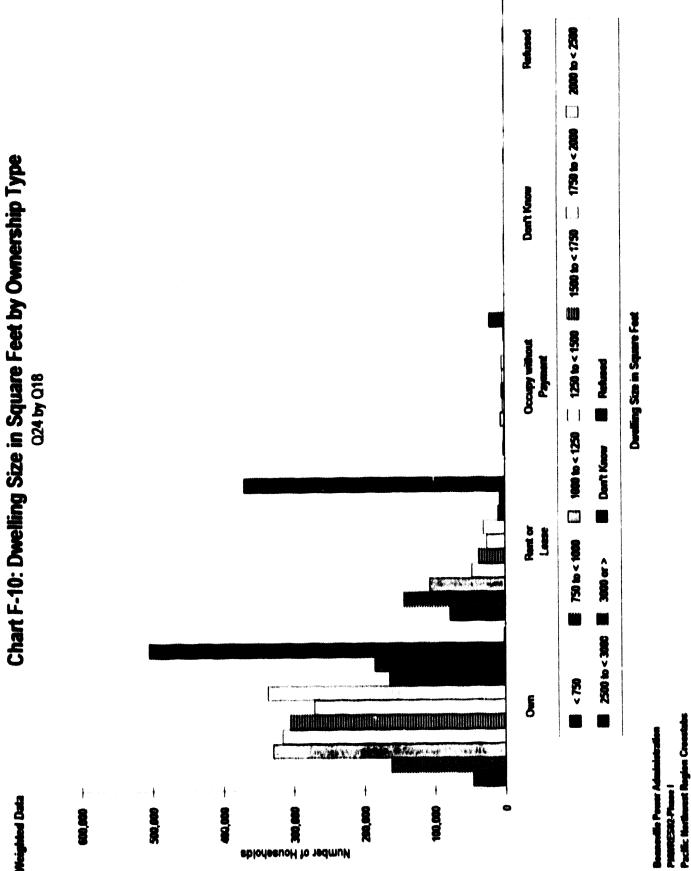
 Table F-10: Dwelling Size in Square Feet by Ownership Type

 024 by 018

#### Weighted Data

|           | O  | ERSHIP TYPE   |             |  |   |
|-----------|--|---|-------------|--|---|
|           |  |   |             |  |   |
|           |  | Occupy  |             |  |   |
|           | Read or  |   |             | an in the second se   |   |
| 8         | <b>!</b>   | <b>June</b>   | Deart Keese | Į  | TOTAL   |
| 100'17    | VAN  | 2,800   | 3           | *  | 121,236   |
| 162,769   | 522/224  | 2,153   | 0           | 2  | 300,000   |
| 300,005   | 107,353  | 6,576   | 513         | 1.185  | 15,04   |
| 316,576   | 027'17   | 3,260   | <u>1</u>    | 2  | ent.ne  |
| 305,726   | UL'E   | 5,238   | 8           | ä  | 715.000   |
| ME 112    | 222  | 3,736   | 0           | 0  |   |
| 336,646   | 30,736   | 1.624   | 0           | 1.528  | 373,536   |
| 16A.067   | 10,406   | 83  | 0           | 0  | ITS BO  |
| 185,402   | 102,8  | 1,954   | 0           | ă,   | 195. No   |
| 505,635   | 370,240  | 21,494  | 1,226       | 200  | 200,954   |
| 2,628     | ž  | 將   | 0           | 0  | 2,579   |
| 2,528,463 |  | 1958  | 1,902       | (IN)   | 354,00  |
|           | 200966<br>2016,576<br>2017,266<br>2017,266<br>2017,266<br>2016,665<br>2016,665<br>2016,665<br>2016,665<br>2016,665<br>2016,665<br>2016,665<br>2016,665<br>2016,665<br>2016,665<br>2016,665<br>2016,665<br>2016,665<br>2016,665<br>2016,665<br>2016,665<br>2016,665<br>2016,675<br>2016,776<br>2016,776<br>2016,776<br>2016,776<br>2016,776<br>2016,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,776<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,777<br>2017,7777<br>2017,7777<br>2017,7777<br>2017,7777<br>2017,7777<br>2017,77777<br>2017,77777<br>2017,777777<br>2017,77777777777777777777777777777777777 | 200,000 107,000<br>306,756 47,400<br>306,756 27,711<br>271,304 25,523<br>336,566 30,756<br>166,466 10,466<br>165,402 8,301<br>566,655 370,246<br>2,626 310,246<br>2,626 310,246 |             | 107,355<br>47,420<br>37,771<br>55,523<br>37,76<br>30,766<br>10,466<br>10,466<br>1,364<br>314<br>314<br>314<br>314<br>314<br>314<br>314<br>314<br>314<br>31 | 107,365 6,576 5,13<br>47,470 3,290 106<br>47,470 3,296 10<br>25,523 3,756 10<br>26,503 3,756 10<br>10,466 5,206 10<br>10,466 5,206 10<br>314 1,956 10<br>314 35 1,466 1,226<br>314 35 2,466 1,226 |

Provide Prov Additional Profile Reference Inc. Profile Reference Provide Volume F-1746-18



Volume F.- Charles

## Table F-11: Primary Space-Heating Fuel Type by Ownership Type Q46 by Q18

Raw Data

|                        |             |            | OMERSHIP TYPE |            |    |         |
|------------------------|-------------|------------|---------------|------------|----|---------|
|                        |             |            | Occupy        |            |    |         |
| PRIMARY SPACEHEATING   |             | Rent or    | A library     |            |    |         |
| FUEL TYPE              | Own         | j          | The second    | Don't Know | ļ  | TOTA    |
| Bechicky               | 1,551       | 2,068      | 181           | 'n         | 12 | 20      |
| Natural Gas            | 2,307       | 610        | 4             | •          | 4  |         |
| Fund Oil               | 1,186       | 162        | 8             | ••••       | -  | Q.      |
| Wood or Presto Logs    | 3,451       | 50         | 8             | m          | 4  | 4       |
| Propene or Bottled Ges | 314         | 8          | ţ             | 0          | 0  | 5       |
| Karosene               | 12          | ŝ          | -             | 6          | ð  | #       |
| Com                    | ន           | 2          | 0             | 0          | 0  | 8       |
| Solid<br>Solid         | 15          | <b>4</b>   | 0             | 0          | 0  | ¥       |
| Geofremat              | 9           | 2          | 0             | 0          | 0  | -       |
| Other                  | \$          | 4          | 2             | 0          | 0  | म       |
| No Host                | <b>9</b> 44 | e          | 0             | 0          | 0  |         |
| Not Asked              | 8           | 8          | 13            | -          | 0  | 3       |
| Don't Know             | *0          | <b>G</b> h | 0             | 0          | 0  | 4       |
| Refused                | 1           | 0          | 0             | 0          | 0  | •       |
| TOTAL                  | 15,120      | 4,640      | 300           | 6          | 2  | 2011/02 |

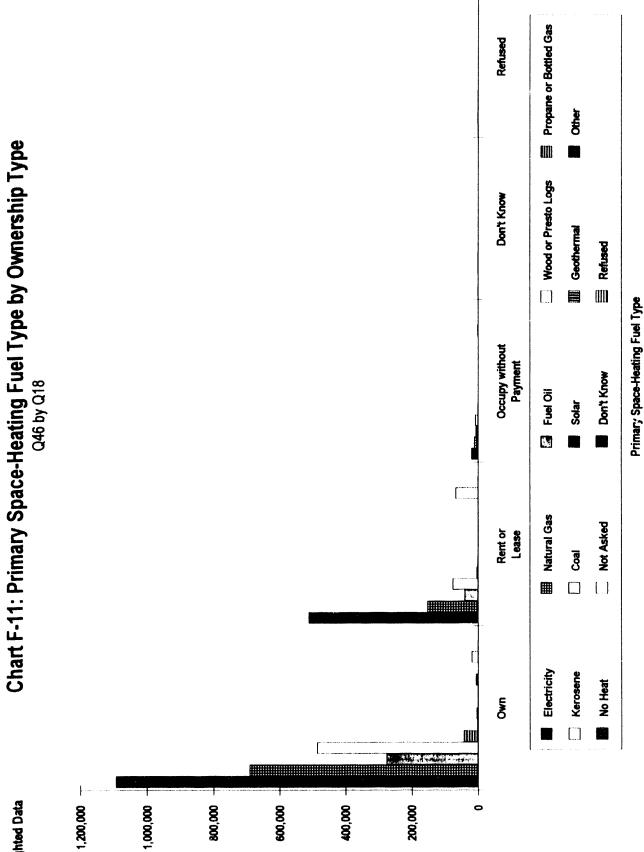
Benneffie Power Administration Preffic Rothman ( Region Croestable Volume F - Table 11 Table F-11: Primary Space-Heating Fuel Type by Ownership Type Q46 by Q18

Weighhed Data

|                        |           | OWO        | ONNERSHIP TYPE |            |         |           |
|------------------------|-----------|------------|----------------|------------|---------|-----------|
|                        |           |            | Occupy         |            |         |           |
| PRIMARY SPACE-HEATING  |           | Rent or    | without        |            |         |           |
| FUEL TYPE              | - Minor   | 5550       | Payment        | Dan't Know | Refused | TOTAL     |
| Eachicity              | 11094,114 | 512,722    | 21,105         | 82         | 1.571   | 1,629,745 |
| Natural Gas            | 691,521   | 152,417    | 12,296         | 8          | 1,864   | 858,134   |
| Fuel Oil               | 275,945   | 11,251     | 7,190          | 795        | 110     | 326, 196  |
| Wood or Presto Logs    | 485,766   | 76,909     | 9,251          | 73         | 318     | 572,066   |
| Propene or Bottled Gas | 42,786    | 5,098      | 8              | 0          | 0       | TIEN      |
| Kerosene               | 2,906     | 1,876      | 8              | 0          | 0       | 1802      |
| Coal                   | 5,066     | 212        | 0              | 0          | 0       | 5111      |
| Solar                  | 1,168     | 415        | 0              | 0          | 0       | 1,584     |
| Geoffiermal            | 714       | <b>1</b> 8 | 0              | 0          | 0       | 1,075     |
| Other                  | 7.478     | 669        | 1 <u>9</u> 6   | 0          | 0       | COC.3     |
| No Heat                | 8         | 516        | o              | 0          | 0       | 8         |
| Not Asked              | 19,793    | 67,444     | 2,042          | 35         | 0       | 80.338    |
| Don't Know             | 1,002     | 1,365      | 0              | 0          | 0       | 2,407     |
| Refused                | R         | 0          | 0              | 0          | 0       | 8         |
| TOTAL                  | 2,628,463 | 861,282    | 52541          | 1,902      | 4,601   | 3,548,809 |

Boundie Pour Administration PMRESS2-Phane I Pactic Northmet Region Constable Volume F - Table 11

Pacific Northwest Region Crosstabs Volume F - Chart 11 Bonneville Power Administration PNWRES92-Phase I



Number of Households

Weighted Data

### Table F-12: Primary Water-Heating Fuel Type by Ownership Type Q102 by Q18

| raw uata               |        |            | 2                     |            |          |        |
|------------------------|--------|------------|-----------------------|------------|----------|--------|
|                        |        | WO         | <b>OWNERSHIP TYPE</b> |            |          |        |
| PRIMARY WATER-HEATING  |        |            | Occupy                |            |          |        |
| FUEL TYPE              | Own    | Lease      | Payment               | Don't Know | Referend | TOTAL  |
| Electricity            | 12,775 | 3,616      | 321                   | 7          | 19t      |        |
| Natural Gas            | 1,774  | 380        | 2                     | • •        | 2 0      |        |
| Fuel Oil               | 8      | L.         | : ,                   | - (        | 0        | 2,100  |
| Wood                   | 1 2    |            | 0                     | Þ          | 0        | 8      |
|                        | 8      | Ø          | 2                     | 0          | ***      | 12     |
| Propane or bottled Gas | 298    | ঙ্গ        | 14                    | 0          | 0        | AL.    |
| Solar                  | R      | 4          | 0                     | c          |          | 1      |
| Other                  | 80     | ~          | c                     | • c        | 5 0      | 5      |
| No Hot Water In Home   | . (*   | <i>ı</i> c |                       |            | 2        | P      |
| Not Acted              |        |            | 5                     | 0          | *        | -      |
|                        | 111    | 532        | 14                    | -          | 0        | 658    |
| DOUT KNOW              | 31     | 22         | 5                     | 0          | C        | 2      |
| Ketused                | 0      | 0          | 0                     | 0          | 0        | 30     |
| TOTAL                  | 15 120 | 1111       | 200                   |            |          |        |
|                        | 12,120 | 4,040      |                       | თ          | x        | 20 170 |

#### Weighted Data

|                        |                    | WO      | <b>OWNERSHIP TYPE</b> |            |          |                 |
|------------------------|--------------------|---------|-----------------------|------------|----------|-----------------|
|                        |                    |         | Occurv                |            |          |                 |
| PRIMARY WATER-HEATING  |                    | Rent or | without               |            |          |                 |
| FUEL TYPE              | Own                | Lease   | Pavment               | Don't Know | Rafineed | TOTAL           |
| Electricity            | 2,030,768          | 638,356 | 39.283                | 1 812      | 1950     | 2 743 778       |
| Natural Gas            | 511,960            | 98,500  | 8.172                 | 92         | 1 828    | 630 400         |
| Fuel Oil               | 4,533              | 1.576   | 134                   | 3 -        | 070''    |                 |
| Mood                   | 6,012              | 420     | 215                   | • c        | 0 0      |                 |
| Propane or Bottled Gas | 37,905             | 3.679   | 1 476                 |            | 2 0      | 01.0            |
| Solar                  | 4,104              | 759     |                       |            | 5 0      |                 |
| Other                  | 1 087              | 3       |                       | <b>.</b>   | 5        | <b>1</b> 002    |
|                        | 700 <sup>4</sup> 1 | 471     | C                     | 0          | 0        | 1,206           |
| NU FOU VVALIET IN HOME | 476                | 0       | 0                     | 0          | 142      | 618             |
| Not Asked              | 24,425             | 106.046 | 2.161                 | 2          |          | 127.696         |
| Don't Know             | 7.219              | 11,822  | 005                   | ; -        |          |                 |
| Refused                | Ċ                  |         | 3                     | > (        | 5        | LIC'SI          |
|                        | >                  | 5       | 5                     | 0          | 0        | 0               |
| TOTAL                  | 2,628,483          | 861.282 | 52.541                | 1 603      | 1 EM     | 1 EM 2 5 48 900 |

Bonneville Power Administration PNWRES92-Phase I Pacific Northwest Region Crosstabs Volume F - Table 12

Refused Propane or Bottled Gas Chart F-12: Primary Water-Heating Fuel Type by Ownership Type Don't Know Refused Primary Water-Heating Fuel Type 📕 Don't Know Occupy without Payment Mood Q102 by Q18 Not Asked Fuel Oil Rent or Lease No Hot Water In Home Natural Gas E Solo 0 Pacific Northwest Region Crosstabs Volume F - Chart 12 Bonneville Power Administration Electricity PNINRES02-Phase | Number of Households Other 2,000,000 500,000 Weighted Data 2,500,000

 Table F-13: Household Income by Ownership Type

 Q186, Q188, Q189 by Q18

Raw Data

|                         |        | GNNO        | OMMERSHIP TYPE |            |             |        |
|-------------------------|--------|-------------|----------------|------------|-------------|--------|
|                         |        |             | Occupy         |            |             |        |
|                         |        | Rent or     | without        |            |             |        |
| HOUSEHOLD INCOME        | E A    | Lease       | Payment        | Don't Know | Retured     | TOTAL  |
| Below \$5,000           | 215    | 261         | 15             | 0          | 0           | 54     |
| \$5,000 to < \$10,000   | 609    | 515         | 8              | 2          | 0           | 1,164  |
| \$10,000 to < \$15,000  | 916    | 095         | 51             | -          | 0           | 1,517  |
| \$15,000 to < \$20,000  | 896    | 505         | 8              | 0          | 0           | 1,491  |
| \$20,000 to < \$25,000  | 1,252  | 502         | 9              | 2          | 0           | 1.78   |
| \$25,000 to < \$30,000  | 1,614  | 518         | 4              | 0          | ¥.          | 2,173  |
| \$30,000 to < \$40,000  | 2,309  | 523         | 37             | •          | <b>G</b> ra | 2,870  |
| \$40,000 to < \$50,000  | 1,574  | <b>7</b> 27 | 8              | 0          |             | 1,857  |
| \$50,000 to < \$60,000  | 975    | 12          | 10             | 0          | 0           | 1,107  |
| \$60,000 to < \$80,000  | 280    | 22          | a              | 0          | 0           | 58     |
| \$80,000 to < \$100,000 | 315    | 83          | т              | 0          | 0           | 34     |
| \$100,000 or More       | ĝ      | 9           | 0              | 0          | 0           | 200    |
| Don't Know              | 1,179  | <b>10</b> 4 | 8              | 2          | -           | 1,619  |
| Refused                 | 2,096  | 381         | ន              | 2          | 11          | 2,529  |
| TOTAL                   | 15.120 | 4640        | 99             | o          | 7           | 20.170 |
|                         |        |             | 3              |            |             |        |

Borneville Power Administration PMMRES\$2-Phase | Pacific Northwest Region Crosstabs Volume F - Table 13 

 Table F-13: Household Income by Ownership Type

 Q186, Q188, Q189 by Q18

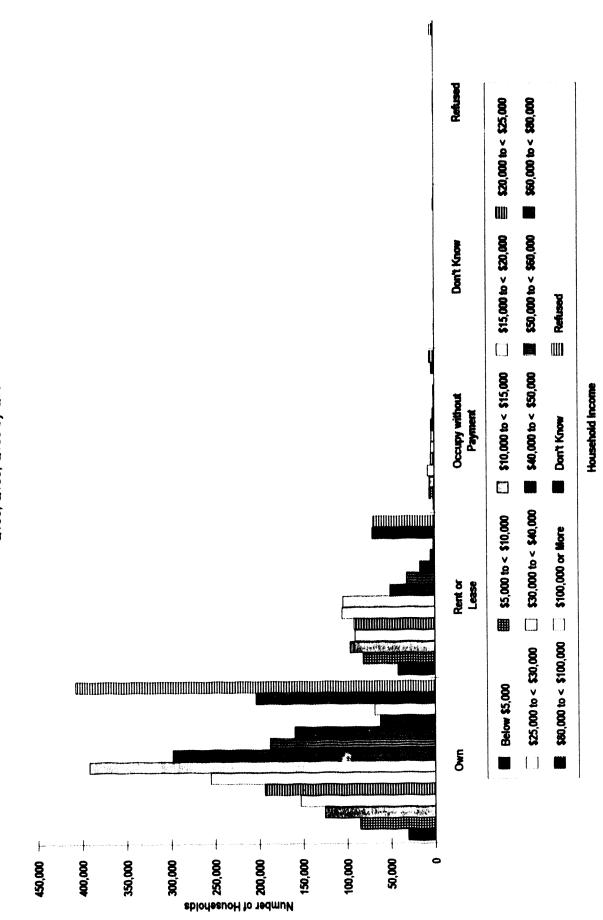
Weighted Datz

|                         |           | WO             | OWNERSHIP TYPE |            |          |           |
|-------------------------|-----------|----------------|----------------|------------|----------|-----------|
|                         |           |                | Occupy         |            |          |           |
|                         |           | Rent or        | without        |            |          |           |
| HOUSEHOLD INCOME        | Own       | Lease          | Payment        | Don't Know | Referent | TOTA      |
| Below \$5,000           | 31,579    | 42,305         | 1,472          | 0          | G        | 75.357    |
| \$5,000 to < \$10,000   | 85,799    | 82,012         | 6,169          | 89<br>99   | G        | 174.340   |
| \$10,000 to < \$15,000  | 125,991   | <b>69</b> C'96 | 5,885          | 8          | 0        | 211 812   |
| \$15,000 to < \$20,000  | 153,321   | 90,663         | 7,924          | 0          | G        | 21 200    |
| \$20,000 to < \$25,000  | 193,969   | 91,744         | 4,635          | 235        |          | 20060     |
| \$25,000 to < \$30,000  | 256,259   | 105,618        | 3.974          | 0          |          | 35.4 007  |
| \$30,000 to < \$40,000  | 392,409   | 104,410        | 3.662          | 0          | 9        | CU (2)    |
| \$40,060 to < \$50,000  | 298,448   | 50,576         | 4.154          |            | 3        | 353 240   |
| \$50,000 to < \$60,000  | 187,833   | 32,153         | 2,363          | 0          | G        | 277 230   |
| \$60,000 to < \$80,000  | 159,993   | 16,827         | 1,233          | 0          |          | 178.054   |
| \$80,000 to < \$100,000 | 62,825    | 5,042          | 1,590          | 0          | 0        | 69 ASK    |
| \$100,000 or More       | 69,112    | 2,057          | 0              | 0          |          | 71 160    |
| Don't Know              | 203,629   | 71,344         | 3,672          | 1.072      | 108      | 201 012   |
| Refused                 | 408,295   | 70,162         | 5,820          | 196        | 4,172    | 408,644   |
| TOTAL                   | 2,628,483 | 861,282        | 52,541         | 1,902      | 4.601    | 3.548,809 |
|                         |           |                |                |            |          |           |

Bonneville Power Administration PNNRES82-Phase i Pactific Northwest Region Crosstabs Volume F - Table 13

Weighted Data

### Chart F-13: Household Income by Ownership Type Q186, Q188, Q189 by Q18



Bonneville Power Administration PNWRES82-Phase I Pacific Northwest Region Crosstabs Volume F - Chart 13

### Table F-14: Utility Type by Ownership Type TYPE by Q18

#### Raw Data

|                       |       | 0          | OWNERSHIP TYPE |            |          |        |
|-----------------------|-------|------------|----------------|------------|----------|--------|
|                       |       |            | Occupy         |            |          |        |
|                       |       | Rent or    | without        |            |          |        |
|                       | Omn   | Lease      | Pavenent       | Don't Know | Referent | TOTA   |
| Public Generating     | 3,931 | 1.596      | 8              | 1          |          | 5.52   |
| Public Non-Generating | 8,085 | 2,179      | 224            | i un       | . 6      |        |
| Investor Owned        | 3,104 | <b>992</b> | 8              | 2          | 4        | 8      |
| TOTAL                 |       |            |                |            |          |        |
| IUN                   |       | 4.640      | R              | 01         | K        | 20.170 |

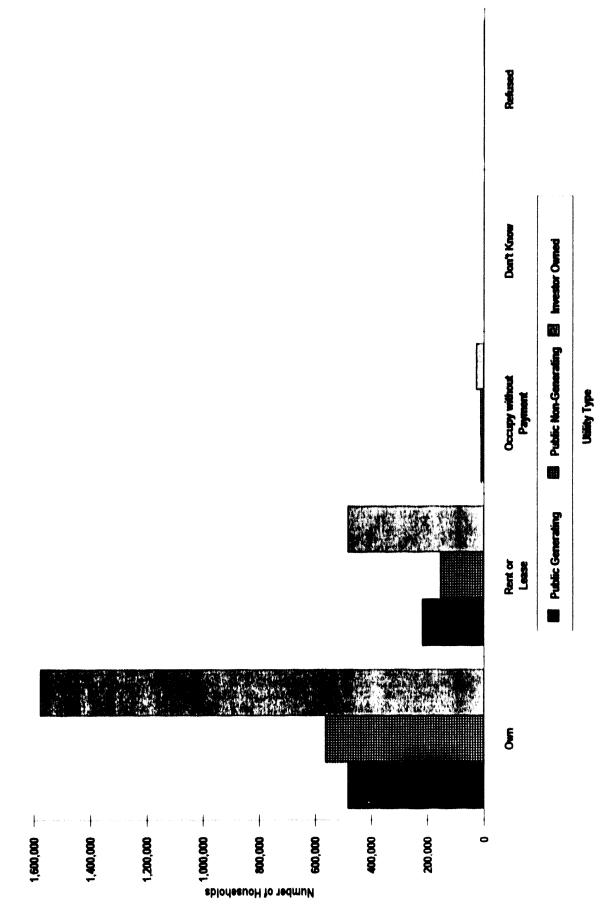
#### Weighted Data

|                       |           | G       | OWNERSHIP TYPE |            |         |           |
|-----------------------|-----------|---------|----------------|------------|---------|-----------|
|                       |           |         | Occupy         |            |         |           |
|                       |           | Rent or | without        |            |         |           |
|                       | Own       | Lease   | Payment        | Don't Know | Refused | TOTA      |
| Public Generating     | 485,047   | 220,664 | 11,369         |            | 82      | 71415     |
| Public Non-Generating | 564,127   | 156,218 | 13,219         | <b>3</b> 8 | 1 207   | 725 166   |
| Investor Owned        | 1,579,309 | 484,400 | 236,72         | 1,144      | 2,669   | 2,095,485 |
| TOTAL                 | 2,628,483 | 861.282 | 5254           | 1902       | A Kith  |           |

Bonnerthe Power Administration PMMRES12.Phase I Pactific Northwest Region Crosstates Volume F - Tathe 14



Chart F-14: Utility Type by Ownership Type TYPE by Q18



Bonneylle Power Administration PMMRES82 Phase 1 Pacific Northwest Region Crosstales Volume F - Chart 14

# Table F-15: Space-Heating Fuels: Systems and Equipment by Ownership Type HEAT\_EQP by Q18

Raw Data

|               |                               |        |             | OMIERSHIP TYPE | u          |       |   |
|---------------|-------------------------------|--------|-------------|----------------|------------|-------|---|
|               |                               |        |             | Occupy         |            |       |   |
| SPACE HEATING |                               |        | Rent of     | Without        |            |       |   |
| RIELS         | SYSTEMS AND EQUIPMENT         | Om     |             | Payment        | Don't Know | Print | TOTAL   |
| Houdsi-Unit   | Central Heat - Al Units       | 8      | <b>9</b> 57 | 11             | <b>*</b>   | 0     | 2   |
|               | Central Heat - Several Units  | 11     | 4           | 0              | 0          | 0     | 3   |
| -             | Unit Not Heated               | 2      | •0          | <b>y</b> in    | 0          | 0     | Ŧ   |
| Foesil:       | Steam or Hot Water Radiators  | 191    | ន           | 5              | 0          | ō     | 2   |
|               | Wall, Floor, or Ceiling Units | 8      | 120         | 1              | 0          | ō     | 2   |
|               | Portable Units                | 8      | •0          | 2              | 0          | 0     | 8   |
|               | Central Furnace               | 3,300  | 949         | 2              | 2          | Ŷ     |   |
|               | Other                         | 8      | 58          | ũ              | 0          | 0     | 11  |
| Electricity.  | Heat Pump                     | 1,074  | 8           | 15             | 0          | 2     |   |
|               |                               | 120    | 8           | 7              | 0          | 0     | 210   |
|               | Radiant Panets                | 1,116  | 511         | 12             | 0          | 2     | 1,722   |
|               | Steem or Hot Water Radiators  | 4      | ξ           | 4              | <b>e</b>   | 0     | 8   |
|               | Central Furnace               | 2,908  | 8           | 58             | 2          | e     |   |
|               | Baseboard or Wall Units       | 2,228  | HS'I        | 76             | 0          | S     |   |
|               | Other                         | 193    | 2           | -              | 0          | 0     | R   |
| Wood          | Free-Standing Stove           | 2,528  | \$          | R              | 2          | R     | <b>NOL</b>  |
|               | Free-Standing Pellet Stove    | 240    | <b>£</b>    | •              | -          | 0     | Ā   |
|               | Central Furnace               | 17     | 13          | 2              | 0          | 6     |   |
|               | Freplace with an Insert       | 8      | ß           | Ø              | 0          | 0     |   |
|               | Freplace without an Insert    | 8      | 8           | ۳<br>۱         | 0          | 0     | 2   |
| Other:        |                               | 15     | -           | 0              | 0          | 0     | Ŧ   |
|               | Geothermal                    | 9      | 2           | o              | 8          | C     | -   |
|               | Other                         | 4      | 4           | 2              | 0          | 0     | 88  |
|               | No Heat                       | 1      | 3           | 0              | 0          | 0     | •   |
|               | Don't Know                    | 8      | 8           | ß              | 0          | F     | <b>11</b>   |
|               | Refused                       | e<br>M | 0           | Ð              | 0          | 0     | ••  |
|               |                               |        |             |                |            |       | de la constante |

Bonnethe Prove Administrates PARTESE2-Prese I Pactic Northmest Region Cronstate Volume F - Table 15

# Table F-15: Space-Heating Fuels: Systems and Equipment by Ownership Type HEAT\_EQP by Q18

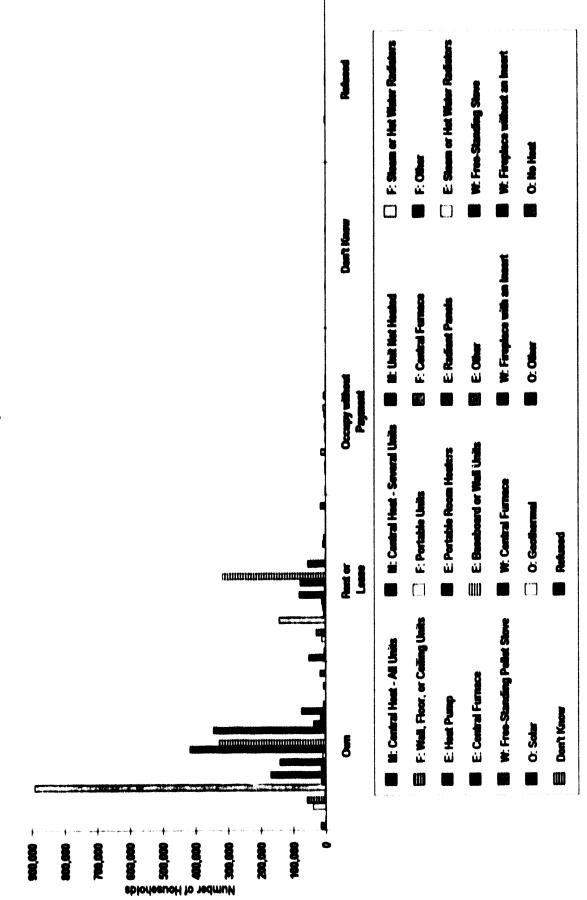
#### States and the states of the s

| -            |                               |               |          |             |            |       |                    |
|--------------|-------------------------------|---------------|----------|-------------|------------|-------|--------------------|
|              |                               |               | 8        |             |            |       |                    |
|              |                               |               |          | Occupy      |            |       |                    |
| SPACEHEATING |                               |               | Rent or  | Though a    |            |       |                    |
| <b>RES</b> : | SYSTEMS AND EQUIPMENT         | O             | <b>j</b> | Payment     | Deeft Know | Print | TOTA               |
|              | Central Heat - Al Units       | 17,189        | 5,60     | 1,863       | 2          | 8     | 77                 |
|              | Central Heat - Several Units  | 1,765         | 6,172    | 0           | 0          | 2     | 1997               |
|              | Unit Not Heated               | <b>1</b><br>1 | 1,677    | R           | 0          | 0     |                    |
| Foesit:      | Steam or Hot Water Radiators  | ¥0,924        | 12,576   | 2,059       | 0          | 6     | 55,55              |
|              | Wall, Floor, or Ceiling Units | 60,100        | 30,664   | 2,826       | 0          | ō     | 110 BS             |
|              | Portable Units                | 3,631         | 2,107    | 138         | 0          | -0    | 5.64               |
|              | Central Furnace               | 296,168       | 141,094  | 14,486      | 1,000      | 2,705 | 1.054.267          |
|              | Other                         | 14,565        | 6,540    | <u>1</u> 06 | 0          | 0     | 21.211             |
| Elecaricity: | Heat Pump                     | 169,902       | 9,778    | 1,719       | 0          | 1061  | 195 191<br>192 191 |
|              | Portable Room Heaters         | 14,925        | 12,904   | 1.443       | 0          | 0     |                    |
|              | Radiant Panets                | 142,070       | 82,509   | 3,930       | 0          | 8     |                    |
|              | Steam or Hot Water Radiators  | 10,292        | 3,672    | 822         | 8          | 6     |                    |
|              | Central Furnace               | 417,309       | 951,61   | 5,375       | <b>3</b> 5 | CONC  |                    |
|              | Baseboard or Wali Units       | 326,853       | 317,788  | 7,611       | 0          | 1,019 | 112.03             |
|              | Other                         | 3,194         | 1,266    | 191         | 0          | 6     | 19                 |
| Wood         | Free-Standing Store           | 344,990       | 56,757   | 1,030       | 1¥         | 21    |                    |
|              | Free-Standing Petert Stove    | 215'95        | 1,915    | 83          | 181        | 0     | 11.62              |
|              | Central Furnace               | 17 220        | 8        | <b>JHE</b>  | Ð          | 0     |                    |
|              | Freplace with an trsert       | 75.458        | 925'6    | 1,156       | 0          | 0     | N SA               |
|              | Freplace without an insert    | 8,041         | 1,308    | <b>1</b>    | 0          | 0     | 115,211            |
| Other.       | Solar                         | 1,168         | 415      | 0           | 0          | 8     | 3                  |
|              | Geofhermal                    | 714           | 197      | •           | 0          | 0     | 1,075              |
|              | Other                         | 1,478         | 829      | 196         | 0          | 0     | 1.1                |
|              | No Heat                       | R             | 516      | 0           | 0          | 0     | 8                  |
|              | Dan't Know                    | 18,536        | 11211    | 995<br>260  | 0          | ğ     | 195' X.            |
|              | Reflected                     | 1,024         | 0        | 0           | 0          | 0     |                    |
| Ī            | 20411                         |               |          |             |            |       |                    |

Benefit Powr Administrato Puttic Rothwell Pactic Rothwell Region Count Volume F - Tathe 15

Weighted Data

# Chart F-15: Space-Heating Fuels: Systems and Equipment by Ownership Type HEAT\_EQP by 018



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Space Healing Fusic Systems and Equipment

 Table F-16: Dwelling Size in Square Feet by Year of Construction

 024 by 020

#### Raw Data

|                  |        |             |               | YEAR OF | YEAR OF CONSTRUCTIO | 3  |   |            |       | ſ      |
|------------------|--------|-------------|---------------|---------|---------------------|----|---|------------|-------|--------|
| DWEITING SIZE IN | Betare |             |               |         |                     |    |   |            |       |        |
| SQUARE FEET      | 1950   | 1950-59     | 1960-69       | 1970-78 | 197-45              |    |   | Darit Kung |       | TOTAL  |
| 051 >            | 124    | 8           | 8             | Ŧ       | 8                   | 8  | 8 | ä          | Ŧ     | £      |
| 750 to < 1000    | 104    | 174         | 19 <b>6</b> 1 | Ŗ       | 210                 | 11 | R |            | 8     |        |
| 1000 to < 1250   | 8      | 8           | Ħ             | 8       | 310                 | 8  |   | 2          | N     | 2.96   |
| 1250 to < 1500   | LSE    | 20          | <b>8</b> /2   | ş       | 2/2                 | 2  | Ä | đ          | 6     | 2.065  |
| 1500 to < 1750   | 紧      | 802         | R             | 15      | 202                 | 91 | 2 | 8          | -     | 1 9 10 |
| 1750 to < 2000   | ž      | <b>1</b> 65 | 187           | 55      |                     | 8  | 2 | 3          | 0     |        |
| 2000 to < 2500   | 348    | 214         | <b>1</b>      | Ş       | 315                 | 8  | ž | 8          | ~     |        |
| 2500 to < 3000   | 193    | 8           | 2             | 8       | 131                 | 5  | 8 | 8          | 6     | 1      |
| 3000 ar >        | 822    | 25          | Ä             | 216     | 161                 | 8  | 2 | ă          | e     | 1 173  |
| Don't Know       | 1,290  | Ş           | 8             |         | 5                   | Đ  | ß | 1.670      | . (7) | 5      |
| Refused          | 1      | •••         | ŝ             |         | -                   | 2  | 0 |            | M     | 8      |
| TOTAL            | 1907   | 2,055       | 2,324         | 4.017   | 2,62                | Ø  |   | 1997       | 2     | 2011   |

Benefit Pere Antickén Petit Referet Rejen Consta Veinne F-Tata N 

 Table F-16: Dwelling Size in Square Feet by Year of Construction

 024 by 020

Weighted Data

| DWELLING SIZE IN         BI           SQUARE FEET         21           < 750         21           < 750         21           750 to < 1000         11           1000 to < 1250         102           1250 to < 1500         73           1500 to < 1750         73 | Betore<br>1960<br>27,022<br>71,527 | 1001 60 |                 |               |         |        |        |           |    |           |
|--|------------------------------------|---------|-----------------|---------------|---------|--------|--------|-----------|----|-----------|
|  | 1550<br>7.022<br>1.527             | 1001 60 |                 |               |         |        |        |           |    |           |
|  | 125                                |         | 1960-69         |               | 1979-05 |        |        | Card Kare |    |           |
|  | 1251                               | 0++6    | 16.033          | 23277         | 11 201  | 12.1   |        |           |    |           |
|  |                                    | 72 500  |                 |               |         |        |        | 5.15      | 3  |           |
|  |                                    | 20.07   | 5711/14         |               | 32,167  | 12,677 | 10,10  | 51.527    | 6  |           |
| 92-10 <sup>7</sup> -10 <sup>7</sup> -10  | 2,109                              |         | 907.95          | <b>20.475</b> | 57 840  | 17 778 | 1111   |           |    |           |
|  | 5718                               | 44 059  | AC GOD          |               |         |        |        |           | 2  |           |
|  |                                    |         |                 |               | 510,0   |        | 20,141 | 20,018    | 0  | CLI'DE    |
|  | 3,8/1                              |         | 48,406          | 76,514        | 52,079  | 17,818 |        | 13.05     | C. | 1000      |
| 1750 to < 2000   | 52,444                             | 30,280  | 35.010          | 74.355        | K 761   |        |        |           | T  |           |
| 2000 th < 2500   | 0.064                              | 20, 202 |                 |               |         |        | 51.12  | 220.01    | 5  |           |
|  |                                    |         | 711,14          |               | 20,008  | 16,333 |        | 20.500    | 18 | THE PARTY |
| 3000   | 41,181                             | 16,067  | 20,056          | 010           | 24 658  | CBU 11 | the st | 2000      |    |           |
| 3000 cr > 41   | 41 650                             | 10 016  | The Film        |               |         |        |        |           | 5  |           |
|  |                                    |         | A 18'07         |               |         | 972    |        | 199.7     | Ö  | 155,752   |
|  | 202.457                            | 100     | 50.4 <b>3</b> 8 | 117,219       | 67,581  | 16,660 | 23.561 |           | ÷  |           |
| Refused  | 1135                               | 8       | 1 110           | F             | 2       |        | i      |           | 3  |           |
|  | }                                  | 3       |                 | 2             | 5       |        | 0      | 8         |    | 232       |
|  | 163.878                            | 342 545 | AT M            |               | M6 2.0  | 100    |        |           |    |           |

Bounerdie Power Administration PHINGESK2 Phane | Pacific Northwest Region Croestale Volume F - Table 18



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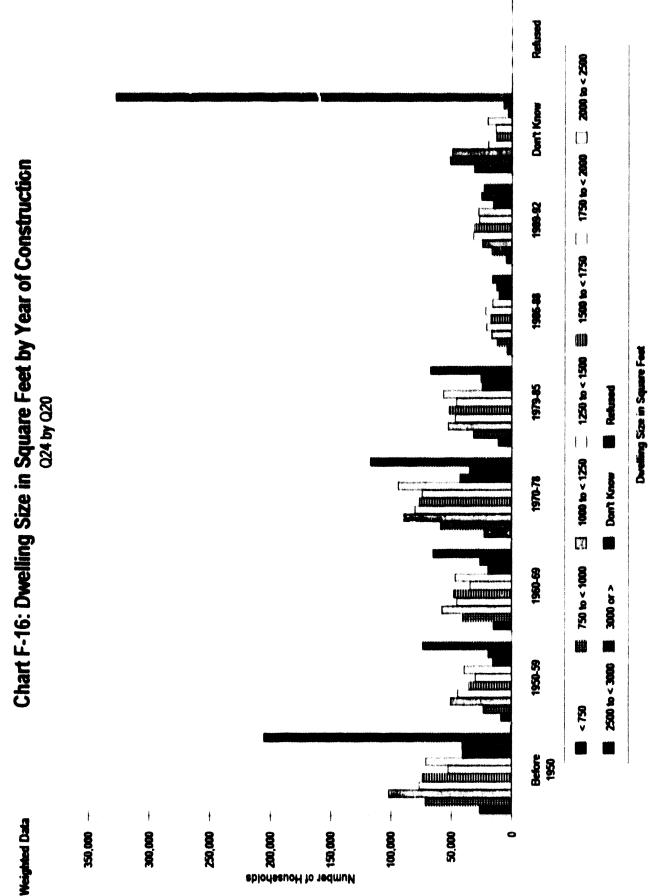


Table F-17: Primary Space-Heating Fuel Type by Year of Construction Q46 by Q20

Raw Data

|                        |        |         |         | YEAR OF | <b>YEAR OF CONSTRUCTION</b> | 2       |         |            |         |        |
|------------------------|--------|---------|---------|---------|-----------------------------|---------|---------|------------|---------|--------|
| PRIMARY SPACE-HEATING  | Before |         |         |         |                             |         |         |            |         |        |
| FUEL TYPE              | 1950   | 1950-59 | 1960-69 | 1970-78 | 1979-85                     | 1986-88 | 1989-92 | Don't Know | Refused | TOTAL  |
| Electricity            | 1,465  | 972     | 1,169   | 2,414   | 1,493                       | 507     | 786     | 1,807      | 80      | 10,621 |
| Natural Gas            | 396    | 381     | 451     | 400     | 159                         | 91      | 210     | 362<br>362 | 0       | 3,053  |
| Fuel Oil               | 605    | 331     | 196     | 115     | 13                          | S       | 4       | 156        | -       | 1,426  |
| Wood or Presto Loas    | 961    | 311     | 418     | 933     | 969                         | 175     | 143     | 454        | 2       | 4,093  |
| Propane or Bottled Gas | 73     | 28      | 8       | 28      | 40                          | 26      | 43      | 64         | 0       | 379    |
| Kerosene               | 4      | 2       | ę       | 4       | 2                           | 0       | -       | 2          | 0       | 18     |
| Coal                   | 24     | 4       | 0       | 2       | -                           | 0       | 0       | 4          | 0       | 8      |
| Solar                  | 0      | •       | 0       | -       | 7                           | 2       | m       | 2          | 0       | 16     |
| Geothermal             | £      | 0       | 0       | -       | -                           |         | 0       | 2          | 0       | •0     |
| Other                  | 10     | 5       | 10      | 13      | 4                           | 2       | 4       | 2          | 0       | 8      |
| No Heat                | 2      | -       | 0       | 0       | 0                           | 0       | 0       | -          | 0       | 4      |
| Not Asked              | 92     | 18      | 8       | 49      | 8                           | 13      | 26      | 176        | -       | 149    |
| Don't Know             | -      | -       | e       | +       | 0                           | 0       | 0       | 11         | 0       | 17     |
| Refused                | -      | 0       | 0       | 0       | 0                           | 0       | 0       | 0          | 0       | *-     |
| TOTAL                  | 4.207  | 2,055   | 2,324   | 4,017   | 2,452                       | 822     | 1,220   | 3,061      | 12      | 20,170 |

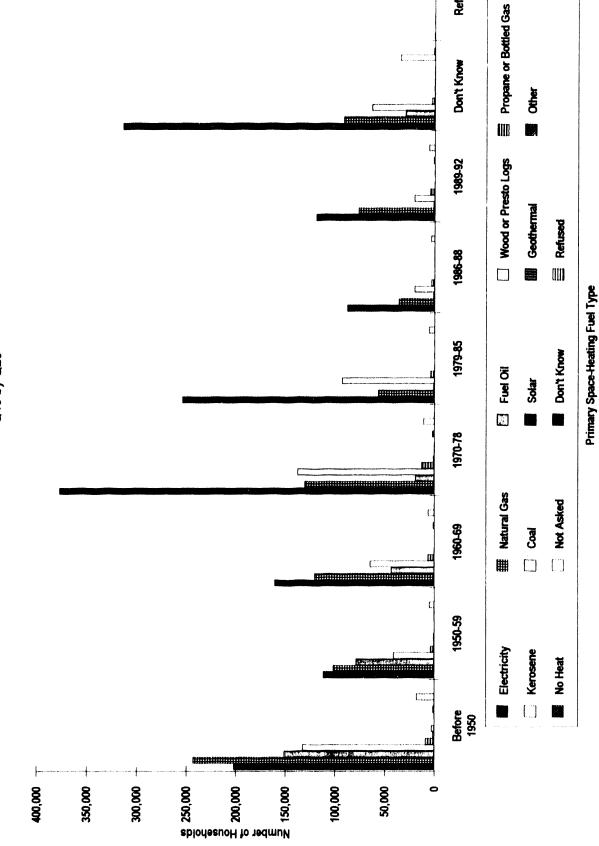
Bonneville Power Administration PMNRF ©92-Phase I Pacific Northwest Region Crosstabs Volume F - Table 17 Table F-17: Primary Space-Heating Fuel Type by Year of Construction Q46 by Q20

Weighted Data

| PRIMARY SPACE-HEATING<br>FUEL TYPE<br>Electricity<br>Natural Gas<br>Fuel Oil | Before     |          |         |         |          |         |         |            |         |            |
|--|------------|----------|---------|---------|----------|---------|---------|------------|---------|------------|
| FUEL TYPE<br>Electricity<br>Natural Gas<br>Fuel Oil                          | 4 DED      |          |         |         |          |         |         |            | T       |            |
| Electricity<br>Natural Gas<br>Fuel Oil                                       | RE         | 1950-59  | 1960-69 | 1970-78 | 1979-85  | 1986-88 | 1989-92 | Don't Know | Deficed | TOTAL      |
| Natural Gas<br>Fuel Oil  | 202,243    | 111,721  | 160,975 | 377,637 | 254,363  | 88,102  | 119.394 | 314 474    | JCO     | 1 E-20 74E |
| Fuel Oil   | 243,514    | 101,820  | 120.742 | 130,825 | 56.831   | 36 715  | 76.673  |            | 3       |            |
|  | 151,166    | 78,701   | 43 483  | 18 057  | 1 235    | 1 405   |         | 32,U14     | 5       | 808,134    |
| Wood or Presto Lors  | 137 668    | 40.050   | EA AND  | 100,01  | AC1, CC  | CO4()   |         | 0100 87    | 181     | 326,196    |
| Dimension of Defined of Contraction  | 000,201    | 505°0    | 744     | 137,901 | 93,172   | 19,921  | 20,390  | 63,255     | 151     | 572,866    |
|  | 0,000      | 3,960    | 6,568   | 12,727  | 4,198    | 3,528   | 5,069   | 3.378      | 0       | 48.317     |
| Kerosene   | 1,728      | 666      | 405     | 1,247   | 145      | 0       | 333     | 369        |         | 1 803      |
| Coal   | 3,119      | 1,049    | 0       | 196     | 25       | c       |         | DEC D      | 5 6     | 720'5      |
| Solar  | 0          | <b>%</b> | 0       | 70      | 453      | , đ     | 350     | 600 F      | 5 0     | 117'0      |
| Geothermai   | 542        | C        | c       | ţ       | į¥       | 0.1     | 3       | 24         | 5       | 1,064      |
| Other  | 1 877      | 2        | 0.00    | 2       | נ        | 142     | 0       | 361        | 0       | 1,075      |
|  | 170'1      | 700      | 965.1   | 2,353   | 507      | 175     | 1,319   | 284        | 0       | 8 363      |
| No real  | 485<br>485 | 20       | 0       | 0       | 0        | 0       | 0       | 8          | C       | <b>FRS</b> |
| Not Asked  | 17,639     | 5,072    | 6,201   | 10,878  | 5.668    | 3541    | 5 843   | 24 35U     | 145     | 200        |
| Don't Know   | ଞ          | 8        | 511     | 333     | C        |         |         |            | 2 0     | 000,20     |
| Refused  | æ          | c        | c       |         | <b>,</b> | •       | 5       | 500.1      | 5       | 2,407      |
|  | 3          | 5        | 5       | 5       | 9        | 0       | 0       | 0          | 0       | 8          |
| TOTAL  | 763,878    | 344,585  | 404,725 | 693,140 | 416.640  | 152 806 | 220.820 | 540 887    | 1 340   | 7 540 000  |

Bonneville Power Administration PNWRES92-Phase I Pacific Northwest Region Crosstabs Volume F - Table 17

Bonneville Power Administration PNWRES92-Phase I Pacific Northwest Region Crosstabs Volume F - Chart 17



Refused

Chart F-17: Primary Space-Heating Fuel Type by Year of Construction Q46 by Q20

Weighted Data

 Table F-18: Primary Water-Heating Fuel Type by Year of Construction

 Q102 by Q20

Raw Data

|                        |        |         |         | YEAR OF    | <b>YEAR OF CONSTRUCTION</b> | Z       |             |            |         |        |
|------------------------|--------|---------|---------|------------|-----------------------------|---------|-------------|------------|---------|--------|
| PRIMARY WATER-HEATING  | Before |         |         |            |                             |         |             |            |         |        |
| FUEL TYPE              | 1950   | 1950-59 | 1960-69 | 1970-78    | 1979-85                     | 1966-88 | 1989-92     | Don't Know | Refused | TOTAL  |
| Electricity            | 3,370  | 1,726   | 1,883   | 3,482      | 2,189                       | 88      | 948         | 2,444      | 9       | 16,735 |
| Natural Gas            | 587    | 253     | 342     | ĝ          | 134                         | 8       | <b>1</b> 38 | <b>5</b> 2 | 0       | 2,188  |
| Fuel Oil               | æ      | 8       | 9       | 2          | -                           | -       | 0           | 4          | 0       | 8      |
| poom                   | 11     | 9       | 2       | 19         | 8                           | Ω.      | ŝ           | 9          | 0       | 74     |
| Propane or Bottled Gas | ß      | 19      | 31      | <b>3</b> 3 | 46                          | 31      | 9           | 33         |         | 380    |
| Solar                  | 5      | 5       | 5       | 2          | 8                           | -       | 2           | 9          | 0       | 37     |
| Other                  | 2      | -       | 0       | -          | ę                           | 0       | -           | 2          | 0       | 9      |
| No Hot Water in Home   | 2      | +       | 0       | 0          | 0                           | 0       | 0           | -          | 0       | 4      |
| Not Asked              | 150    | R       | 49      | 70         | <b>4</b> 6                  | 18      | 8           | 271        |         | 83     |
| Don't Know             | 19     | e       | 9       | 7          | 5                           | e       | ŝ           | 4          | 0       | 8      |
| Refused                | 0      | 0       | 0       | 0          | 0                           | o       | 0           | 0          | 0       | 0      |
| TOTAL                  | 4,207  | 2,055   | 2,324   | 4,017      | 2,452                       | 822     | 1,220       | 3,061      | 12      | 20,170 |
|                        |        |         |         |            |                             |         |             |            |         |        |

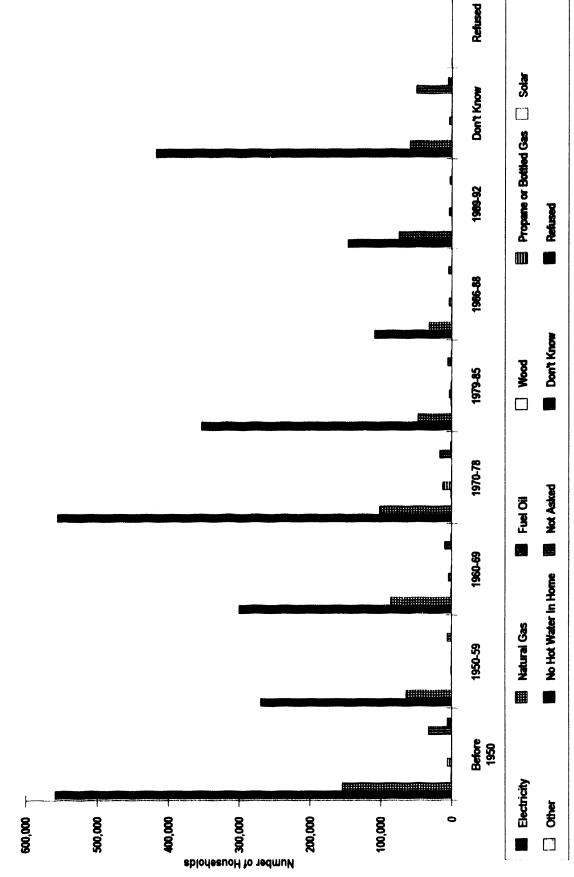
#### Weighted Data

| Weighted Data          |         |         |         |              |                             |             |         |            |         |           |
|------------------------|---------|---------|---------|--------------|-----------------------------|-------------|---------|------------|---------|-----------|
|                        |         |         |         | YEAR OF      | <b>YEAR OF CONSTRUCTION</b> | Z           |         |            |         |           |
| PRIMARY WATER-HEATING  | Before  |         |         |              |                             |             |         |            |         |           |
| FUEL TYPE              | 1950    | 1950-59 | 1960-69 | 1970-78      | 1979-85                     | 1966-88     | 1969-92 | Don't Know | Refused | TOTAL     |
| Electricity            | 559,165 | 270,026 | 299,960 | 555,976      | 353,487                     | 109,044     | 146,596 | 417,365    | 1,159   | 2712,779  |
| Natural Gas            | 154,155 | 64,270  | 86,116  | 101.711      | 47,841                      | 32,452      | 74,675  | 59,276     | 0       | 620,496   |
| Fuel Oil               | 1,600   | 818     | 1,508   | <b>4</b> 31  | g                           | <b>7</b> 96 | 0       | 1,191      | 0       | 6,843     |
| poom                   | 1,378   | 311     | 287     | 1,781        | 1,511                       | 425         | 447     | 577        | 0       | 6,718     |
| Propane or Bottled Gas | 6,558   | 1,748   | 4,763   | 12,965       | 4,152                       | 4,271       | 4,222   | 4,365      | 15      | 43,059    |
| Solar                  | 497     | 268     | 491     | 6 <b>4</b> 3 | 1,744                       | 142         | 124     | 1,048      | 0       | 4,863     |
| Other                  | 362     | 108     | 0       | 415          | 88                          | 0           | 108     | 124        | 0       | 1,206     |
| No Hot Water in Home   | 440     | 96      | 0       | 0            | 0                           | 0           | 0       | 142        | 0       | 618       |
| Not Asked              | 33,198  | 6.530   | 10,145  | 17,145       | 6,195                       | 5,145       | 3,706   | 50,478     | 145     | 132,606   |
| Don't Know             | 6,525   | 470     | 1,454   | 2,167        | 1,289                       | 38          | 950     | 6,322      | 0       | 19,541    |
| Refused                | 0       | 0       | 0       | 0            | 0                           | 0           | 0       | 0          | 0       | 0         |
| TOTAL                  | 763,878 | 344,585 | 404,725 | 693,140      | 416,640                     | 152,806     | 230,829 | 540,887    | 1,319   | 3,548,809 |

Bonneville Power Administration PNWRES92-Phase I Pacific Northwest Region Crosstabs Volume F - Table 18



## Chart F-18: Primary Water-Heating Fuel Type by Year of Construction Q102 by Q20



Bonneville Power Administration PNWRES82-Phase I Pacific Northwest Region Crosstabs Volume F - Chart 18

Primary Water-Heating Fuel Type

 Table F-19: Household Income by Year of Construction

 Q186, Q188, Q189 by Q20

#### Raw Data

|                         |          |            |             | YEAR OF     | YEAR OF CONSTRUCTION | Z       |              |             |         |        |
|-------------------------|----------|------------|-------------|-------------|----------------------|---------|--------------|-------------|---------|--------|
| <b>.</b>                | Before   |            |             |             |                      |         |              |             |         |        |
| HOUSEHOLD INCOME        | 1950     | 1950-59    | 1960-69     | 1970-78     | 1979-85              | 1986-88 | 1969-92      | Don't Know  | Refused | TOTAL  |
| Below \$5.000           | 67       | œ          | 57          | 67          | \$                   | 4       | 19           | 162         | 0       | 5      |
| \$5,000 to < \$10,000   | 281      | 8          | 8           | 216         | 26                   | 7       | ጽ            | 8           | **      | 1,164  |
| \$10,000 to < \$15,000  | 371      | 130        | 162         | <b>292</b>  | 141                  | 31      | 51           | 998<br>9    | 0       | 1,517  |
| \$15,000 to < \$20,000  | 375      | 148        | 145         | 280         | 135                  | 8       | 5            | <b>9</b> 67 | -       | 1.491  |
| \$20,000 to < \$25,000  | 402      | 162        | 213         | ž           | 196                  | ន       | 8            | 313         | 0       | 1,736  |
| \$25,000 to < \$30,000  | 499      | SS         | <b>5</b> 80 | <b>9</b> 24 | 267                  | 8       | 3            | <b>1</b> 82 | 2       | 2173   |
| \$30,000 to < \$40,000  | 579      | 356        | 368         | 58<br>28    | 99K                  | 128     | 187          | 280         | +       | 2,870  |
| \$40,000 to < \$50,000  | 350      | 208        | 234         | <b>7</b> 3  | 286                  | 8       | 140          | 107         | +       | 1,857  |
| \$50,000 to < \$60,000  | 181      | 125        | 141         | <b>790</b>  | 165                  | 88      | 9            | 8           | **      | 1,107  |
| \$60,000 to < \$80,000  | 149      | 62         | 67          | 219         | 138                  | 64      | 3            | 8           | 0       | 961    |
| \$80,000 to < \$100,000 | 8        | <b>£</b> 3 | 74          | 2           | 22                   | 27      | <del>9</del> | 15          | 0       | - FR   |
| \$100,000 or More       | <b>5</b> | ଞ          | <b>3</b> 3  | 8           | 8                    | 2       | 51           | 9           | 0       | 20     |
| Don't Know              | 342      | 140        | <b>15</b> 9 | 261         | 164                  | 46      | 88           | 420         | 2       | 1,619  |
| Refused                 | 459      | 270        | 316         | 466         | 325                  | 116     | 181          | 969<br>969  | e e     | 2,529  |
| TUTAI                   | 106.4    | 2 065      | VAL         | AM7         | 2.62                 | 822     | 1 220        | 3.061       | 12      | 20.170 |
|                         | 10312    | 5,000      |             |             |                      |         |              |             |         |        |

Bonneville Power Administration PMNRESS2-Phase I Pactific Northwest Region Crosstabs Volume F - Table 19 

 Table F-19: Household Income by Year of Construction

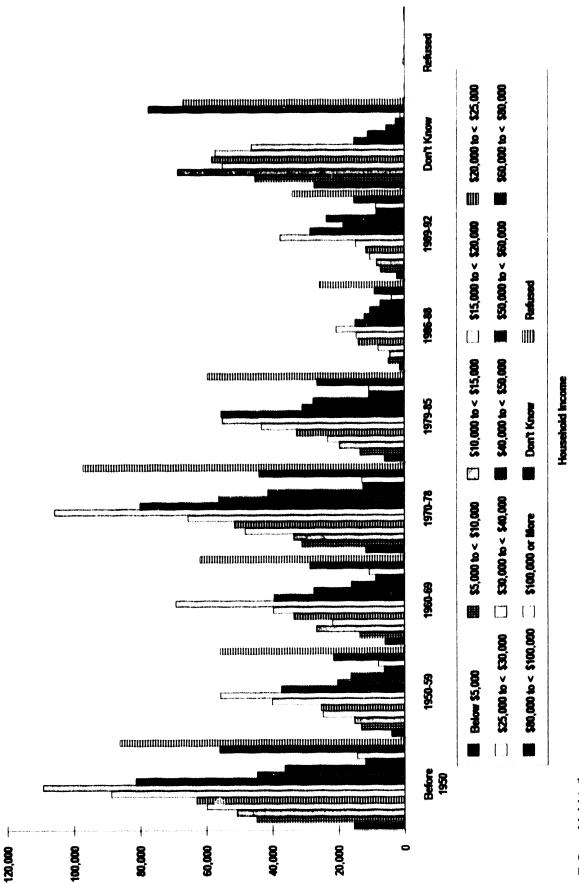
 Q186, Q188, Q189 by Q20

Weighted Data

|                                  |         |         |         | YEAR OF        | YEAR OF CONSTRUCTION | ž       |         |            |         |                |
|----------------------------------|---------|---------|---------|----------------|----------------------|---------|---------|------------|---------|----------------|
|                                  | Before  |         |         |                |                      |         |         |            |         |                |
| HOUSEHOLD INCOME                 | 1950    | 1950-59 | 1960-69 | 1970-78        | 1979-85              | 1966-85 | 1969-92 | Don't Know | Refused | TOTA           |
| Below \$5,000                    | 15,439  | 4,166   | 3,088   | 11,886         | 6,154                | 1,627   | 2,506   | 27.490     | 0       | 15.257         |
| \$5,000 to < \$10,000            | 45,002  | 13,257  | 13,646  | 31,122         | 13,495               | 5,007   | 7,316   | 45,396     | 108     | 174.349        |
| \$10,000  to < \$15,000          | 50,944  | 15,241  | 26,774  | 33,691         | 19,721               | 4,489   | 8,566   | 68.848     | 0       | 211 212        |
| \$15,000 to < \$20,000           | 126,92  | 24,736  | 21,813  | 48,305         | 23,253               | 8,046   | 10,543  | 55.270     | 15      | 251 909        |
| \$20,000 to < \$25,000           | 63,030  | 25,291  | 33,652  | 51,621         | 32,111               | 14,012  | 11,737  | 58.482     | 0       | 290.002        |
| \$25,000 to < \$30,000           | 88,810  | 40,088  | 39,735  | 65,580         | 43,464               | 14,565  | 14,808  | 57.372     | 175     | 364 BUT        |
| \$30,000 to < \$40,000           | 109,352 | 55,874  | 69,280  | 105,989        | 55,216               | 20,738  | 37,681  | 46.462     | 8       | 500 627        |
| <b>\$40,000 to &lt; \$50,000</b> | 81,409  | 37,344  | 39,502  | 80,165         | 55,651               | 15,013  | 28,649  | 15.405     | 181     | 353.319        |
| \$50,270 to < \$60,000           | 44,829  | 20,450  | 27,618  | 56,293         | 30,999               | 12,285  | 18,500  | 11,262     | 15      | 277.339        |
| \$60,000 to < \$80,000           | 36,351  | 16,319  | 16,174  | 41,420         | 27,817               | 10,586  | 23,672  | 5.716      | 0       | 178.054        |
| \$80,000 to < \$100,000          | 11,985  | 6,242   | 8,878   | 12,624         | 10,859               | 1,450   | 8,582   | 2.837      | 0       | 69 <b>1</b> 56 |
| \$100,000 or More                | 14,408  | 8,010   | 10,758  | 12,890         | 10,869               | 4,045   | 8,775   | 1.415      | 0       | 71,169         |
| Don't Know                       | 56,095  | 21,590  | 28,795  | 44,201         | 26,646               | 9,174   | 15,302  | 11.759     | 175     | 279 825        |
| Refused                          | 86,295  | 56,976  | 62,012  | <b>93C'</b> 16 | 59,719               | 25,781  | 34,014  | 61,172     | R       | 488,644        |
| TOTAL                            | 763,878 | 34,585  | 404,725 | 693,140        | 416,640              | 152,806 | 230,829 | 540,887    | 1,375,1 | 3,548,809      |

Bonneville Power Administration PNNNESR2-Phase I `actific Northwest Region Crosstabs Volume F - Tathe 19

Bonneville Power Administration PMNRES12-Phase | Pacific Morthwest Region Crosstahs Volume F - Chart 19



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Chart F-19: Household Income by Year of Construction Q186, Q188, Q189 by Q20

Weighted Data

Table F-20: Utility Type by Year of Construction TYPE by Q20

#### Raw Data

|  |                       |                |                      | YEARO                | TEAR OF CONSTRUCTION | 7     |              |              |       | ſ |
|--|-----------------------|----------------|----------------------|----------------------|----------------------|-------|--------------|--------------|-------|---|
|  | Betore                |                |                      |                      |                      |       |              |              | T     |   |
| UTRUTY TYPE  | 1950                  | 1950-59        | 1960-69              | 1270-21              | 1679.05              |       |              |              |       | ļ |
| Public Generating<br>Public Non-Generating<br>Investor Owned | 1,222<br>2,136<br>886 | 16<br>80<br>88 | 987<br>17.11<br>1804 | 22.24<br>22.24<br>BB | 8 <u>8</u> 9         | 2 Q I | <b>N 8</b> 7 | 8 <u>6</u> 8 | 6 - 0 |   |
| TOTAL  | 102'1                 | 2055           | 7334                 | 4017                 | 2,622                | 3     | 3 <b>8</b>   | 3061         |       |   |
|  |                       |                |                      |                      |                      |       |              |              | 2     |   |

#### Weighted Data

|                       |           |           |         | YEAR CF | YEAR OF CONSTRUCTION |         |            |       | ſ         |
|-----------------------|-----------|-----------|---------|---------|----------------------|---------|------------|-------|-----------|
|                       | Betore    |           |         |         |                      |         |            |       |           |
|                       | 1950      | 1950-59   | 1960-69 | 1970-73 | 1979-85              | 1465.25 |            |       |           |
| Public Generating     | 203,146   | 91.227    | 29623   | 87.959  | ROR                  | ML W    | TOTAL PLAN |       | N IS      |
| Public Non-Generaling | 141,896   | 64,469    | 84.059  | 151.27  |                      |         |            |       |           |
| Investor Owned        | 418.834   | 1,85, 890 | 737 605 |         | 30,010<br>166 004    |         |            | 8     | 130,166   |
|                       |           |           |         |         | 100'007              |         | 119,219    | 8     | 2,005,405 |
| TOTA                  | The state | 244 696   | AL THE  |         |                      |         |            | -     | -         |
|                       |           |           |         |         |                      | 152,006 |            | 13151 | 3549,000  |

Bennette Pour Administraten PARKESK2.Phane I Pactis Hardmeet Rogina Creatain Voime F - Tatio 20

Boomedie Power Administration Prattic Northword Region Constrain Volume F - Charl 20

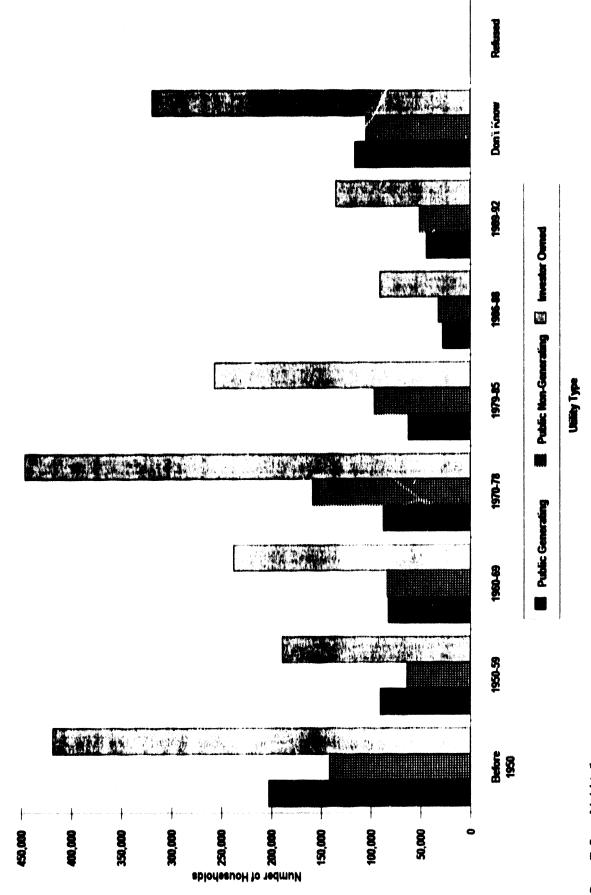


Chart F-20: Utility Type by Year of Construction TYPE by Q20

Weighted Data

 Table F-21: Space-Heating Fuels: Systems and Equipment by Year of Construction

 HEAT\_EQP by 020

Raw Data

| SPACEHEATING  |                                |             |             |             |            |         |            |         |             |              |       |
|---------------|--------------------------------|-------------|-------------|-------------|------------|---------|------------|---------|-------------|--------------|-------|
|               |                                |             |             |             |            |         |            |         |             | Γ            |       |
| <b>FUELS:</b> | FUELS: SYSTEMS AND EQUIPMENT   | 1950        | 1950-59     | 1960-69     | 1570-73    | 1979-45 | 1986-85    | 1988-92 | Dan't Know  | <b>P</b>     | TOTAL |
| Bludbi-Unit   | Central Heat - All Units       | 76          | 5           | ឝ           | 8          | R       | 2          | \$      | <u>S</u>    | <b>Q</b> av. | Ž     |
|               | Central Heat - Several Units   | 13          | m           | ũ           | S          | 2       | 0          | 4       | Ŕ           | 6            | 3     |
|               | Unit Not Heated                | <b>y</b> -a | •-          | 0           | 'n         | 2       | 0          | +       | e           | 0            | Ŧ     |
| Fossil        | : Steam or Hot Water Radiators | z           | 將           | 8           | 11         | 2       | 42         | 2       | 8           | 6            | 2     |
|               | Wall, Floor, or Ceiling Units  | 2           | 4           | R           | 12         | 11      | ŝ          | 8       | R           | 6            | 2     |
|               | Portable Units                 | 10          | 9           | Q           | ŝ          | Ś       | 0          | 2       | 7           | 0            | Q     |
|               | Central Furnace                | 1,352       | g           | <b>3</b> 9  | 12         | ğ       | Đ          | 822     | 194<br>1    | •            | 418   |
|               | Officer                        | R           | Z           | 1           | 7          | m       | 2          | *       | 8           | 0            | 12    |
| Bechicity:    | Heat Pump                      | <b>8</b>    | 110         | 8           | 112        | 202     | 110        | 202     | 8           | G            | 1     |
|               | Partable Room Heaters          | 2           | R           | )<br>Į      | R          | 7       | ŝ          | -       | 61          | 0            | 210   |
|               | Radiant Panels                 | 8           | 2 <u>7</u>  | 2<br>2<br>2 | 474        | 51      | 2          | 2       | R           | 4            | 21.12 |
|               | Steam or Hot Water Radiators   | 80          | 80          | 4           | 12         | ¥7      | Ŷ          | 0       | <b>t</b> 5  | 0            | 8     |
|               | Central Furnace                | LOR         | <b>9</b> 27 | <b>19</b>   | 1,170      | ø       | 200        | 5       | 195         | e            | 3,505 |
|               | Baseboard or Wall Units        | 2           | 3           | Ş           | <b>195</b> | R       | 111        | 200     | 8           | *            | 3.053 |
|               | Other                          | 7           | 2           | 7           | •0         | 4       | 2          | ų       | 4           | 0            | A     |
| Wood          | : Free-Standing Stove          | 121         | S           | R           | <b>3</b> 8 | 574     | ta<br>Ta   | ä       | <b>\$</b>   | 2            | 200   |
|               | Free-Standing Pellet Stove     | ន           | 24          | 8           | 8          | 4       | 11         | 8       | R           | C            | R     |
|               | Central Furnace                | ន           | 21          | ŝ           | 12         | 8       | \$         | 80      | 11          | 0            | 2     |
|               | Freplace with an insert        | 8           | \$          | đ           | 141        | 將       | Q          | -       | \$          | 0            | 2     |
|               | Freplace without an insert     | 13          | 4           | Z           | 15         |         | 4          | -       | 19          | 0            | 8     |
| Other.        | Sotar                          | 0           | -           | 0           | -          | 7       | 2          | 3       | 2           | 0            | Ý     |
|               | Geothermal                     | e           | 0           | 0           | -          | -       | <b>ę</b> m | 0       | 2           | 0            | •     |
|               | Other                          | õ           | 5           | 5           | ដ          | •       | 2          | 4       | 2           | 6            | 8     |
|               | No Heat                        | 2           | <b>9</b> 00 | ø           | 0          | 0       | 0          | 0       | <b>y</b> -a | 6            | 4     |
|               | Don't Know                     | 8           | 5           | 13          | 16         | Ω       | 9          | 8       | 8           | 0            | Ē     |
|               | Refused                        | 2           | •••         | 0           | 0          | 0       | 0          | 0       | o           | 8            | m     |
|               | TOTAL                          | 1201        | 2055        | 234         | 101        | 762     | 6          | 120     | 361         | \$           | et e  |

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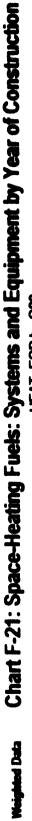
 Table F-21: Space-Heating Fuels: Systems and Equipment by Year of Construction

 HEAT\_EQP by 020

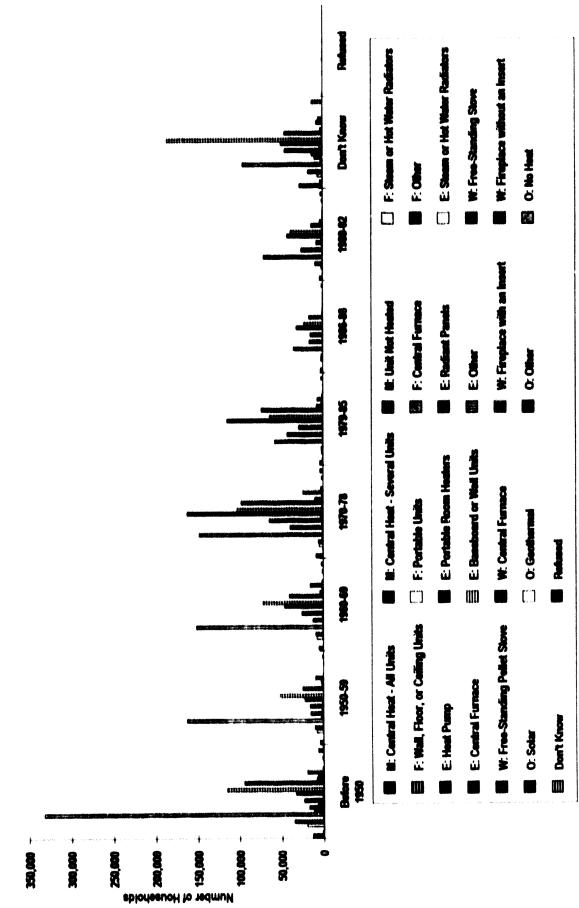
stad Date

| SPACE-HEATING<br>FIGELS: SYSTEENS AND ECURPAREINT<br>Runsi-Unit:<br>Contrait Heat - All Units<br>Contrait Heat - All Units<br>Contrait Heat - Seemal Units<br>Unit Mult Hambed<br>From the Units<br>Portubbe Units<br>Contrait From or Central Functs<br>Detraite Room Heaters<br>Rutent Parents<br>Rectar Farmers<br>Rectar Farmers<br>Frequence with an Insert<br>Frequence with an Insert   | Bullone<br>14,444<br>14,444<br>1,444<br>1,566<br>15,506<br>12,0556<br>12,056<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>13,556<br>14,557<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,556<br>14,5566<br>14,5566<br>14,5566<br>14,5566<br>14,5566<br>14,5566<br>14,5566<br>14,5566<br>14,5566<br>14,5566<br>14,5566<br>14,5566<br>14,5566<br>14,5566<br>14 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1978-78<br>9,191<br>9,191<br>9,191<br>9,191<br>9,157<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,575<br>1,57    | Marka         Harka         Harka           8:191         4:072           8:191         4:072           8:191         4:072           8:191         4:072           8:191         4:072           8:191         4:072           8:191         2:194           1.575         2:194           1.575         2:194           1.575         2:194           2:157         5:194           2:157         5:194           2:157         5:194           2:157         5:194           2:158         2:194           2:157         5:194           2:158         2:194           2:158         5:194           3:158         5:194           3:148         2:194           3:158         5:194           3:158         5:194           3:108         5:194           3:11         5:194           3:11         5:194           3:11         5:194           3:11         5:194  | -   | 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 | Damth Kinnew<br>21/524<br>3.279<br>511<br>511/706<br>6,426<br>11/706<br>2550<br>2550<br>13.376<br>13.376   |                                   | 101A<br>7327<br>7327<br>7327<br>5359<br>5454<br>5454<br>5454<br>5454<br>5454<br>5454<br>5454  |
|--|---|--|---|---|--|---|--|--|-----------------------------------|---|
| SYSTERS AND EQUEPRENT<br>Central Heat - Au Units<br>Central Heat - Au Units<br>Central Heat - Au Units<br>Unit Nucl Heated<br>Steam or Heat Nucleic<br>Portable Unes<br>Central Furnace<br>Other<br>Heat Pamp<br>Portable Room Heaters<br>Rediant Panets<br>Rediant Panets<br>Rediant Panets<br>Steam or Hut Water Raddadors<br>Central Farnace<br>Beenboard or Wat Units<br>Rediant Panets<br>Steam or Hut Water Raddadors<br>Central Farnace<br>Beenboard or Wat Units<br>Central Farnace<br>Beenboard or Wat Units<br>Central Farnace<br>Free Standing Poble Store<br>Free Standing Poble Store<br>Free Standing Poble Store<br>Free Standing Poble Store<br>Central Farnace<br>Free Standing Poble Store<br>Central Farnace<br>Free Standing Poble Store<br>Central Farnace<br>Free Standing Poble Store<br>Central Farnace<br>Free Standing Poble Store<br>Central Farnace  | 1456<br>14,444<br>1,505<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,506<br>1,507<br>1,506<br>1,507<br>1,506<br>1,507<br>1,506<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507<br>1,507 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| Contral Hund: - Mu Units<br>Contral Hund: - Sourceal Units<br>Unit Mult Hunded<br>Sheam of Hot Watter Raddindors<br>Wall, Floor, of Contrag Units<br>Portable Units<br>Contral Furnace<br>Other<br>Portable Room Hunders<br>Radiant Panets<br>Radiant Panets<br>Shear of Hot Water Raddindors<br>Contral Farnace<br>Baseboard of Walt Units<br>Contral Farnace<br>Baseboard of Walt Units<br>Contral Farnace<br>Baseboard of Walt Units<br>Contral Farnace<br>Free Standing Podet Store<br>Free Standing Podet Store<br>Contral Farnace<br>Free Standing Podet Store<br>Contral Farnace  | 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| 21,224<br>3,279<br>5,508<br>1,708<br>6,508<br>1,708<br>1,708<br>1,708<br>1,509<br>1,509<br>1,509<br>1,509<br>1,509<br>1,509<br>1,509<br>1,509<br>1,509<br>1,509<br>1,509<br>1,500<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,504<br>1,500 | 2 0 0 0 0 <u>5</u> 0 0 0 <u>6</u> | 727/46<br>729/27<br>729/27<br>729/27<br>729/27<br>721/27<br>721/27<br>721/27<br>721/27<br>721/27<br>721/27<br>721/27<br>721/27<br>721/27  |
| Contral Heat - Several Units<br>Unit Nut Heated<br>Several Floor, or Celling Units<br>Portable Units<br>Portable Units<br>Contral Farracce<br>Other<br>Partable Room Heaters<br>Redent Panels<br>Redent Panels<br>Stern or Hot Water Raddators<br>Contral Farracce<br>Bestboard or Wat Units<br>Central Farracce<br>Bestboard or Wat Units<br>Central Farracce<br>Free Standing Peter Store<br>Free Standing Peter Store<br>Central Farracce<br>Free Standing Peter Store<br>Central Farracce<br>Free Standing Peter Store<br>Contral Farracce<br>Free Standing Peter Store<br>Central Farracce<br>Free Standing Peter Store<br>Central Farracce<br>Free Standing Peter Store<br>Central Farracce<br>Free Standing Peter Store   | 1,028<br>35,150<br>35,150<br>35,150<br>1,2,86<br>1,2,86<br>1,2,86<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2,96<br>1,2 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| Ma<br>Ma<br>Ma<br>Ma<br>Ma<br>Ma<br>Ma<br>Ma<br>Ma<br>Ma  | 453<br>816<br>5.146<br>6.014<br>6.014<br>1.281<br>1.281<br>2.084<br>2.084<br>8.591<br>3.544   | 1,000<br>1,000<br>1,000<br>1,000<br>2,000<br>2,14<br>2,14<br>2,14<br>2,14<br>2,14<br>2,14<br>2,14<br>2,14  | 0<br>2,254<br>2,557<br>2,557<br>2,557<br>2,12<br>2,12<br>2,12<br>2,12<br>2,12<br>2,12<br>2,12<br>2,1  | 88<br>2.601<br>2.601<br>2.601<br>2.60<br>2.60<br>2.60<br>2.60<br>2.60<br>2.60<br>2.60<br>2.60  | 3.278<br>511<br>512<br>513<br>513<br>513<br>513<br>513<br>513<br>513<br>513<br>513<br>513  | 0000 <u>5</u> 000 <u>6</u>        | 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| Unit Not Headed<br>Steam or Hot Water Radiators<br>Wall, Floor, or Ceting Units<br>Portable Units<br>Contral Funct<br>Other<br>Particle Termace<br>Particle Room Headers<br>Radiant Partic<br>Radiant Partic<br>Steam or Hot Water Radiators<br>Radiant Partic<br>Steam or Hot Water Radiators<br>Radiant Partic<br>Steam or Hot Water Radiators<br>Central Farnace<br>Bestaboard or Wate Units<br>Other<br>Free Standing Store<br>Free Standing Robel Store  | 20,574<br>20,574<br>35,100<br>1,566<br>12,366<br>18,216<br>18,216<br>24,018<br>24,018<br>23,102   | 54<br>8,206<br>10,007<br>162,717<br>162,717<br>15,711<br>1,520<br>1,520<br>1,520<br>1,520<br>1,520<br>1,520  | o<br>8228<br>822.2<br>822.2<br>822.2<br>822.2<br>82.2<br>82.2   | 818<br>5,146<br>6,014<br>6,014<br>6,014<br>1,201<br>1,201<br>1,201<br>2,004<br>64,501<br>64,501   | 23<br>21<br>21<br>21<br>21<br>21<br>21<br>21<br>21<br>21<br>21<br>21<br>21<br>21   | 0<br>2,854<br>2,554<br>2,554<br>2,554<br>2,12<br>2,12<br>2,12<br>2,12<br>2,12<br>2,12<br>2,12<br>2,1  | 2,201<br>2,001<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,000<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,007<br>2,000<br>2,000<br>2,000<br>2,000<br>2,000<br>2,000<br>2,000<br>2,000<br>2,000<br>2,0000 | 511<br>6,428<br>6,428<br>11,708<br>481<br>2,527<br>13,276<br>13,276<br>13,276  | 000 <u>5</u> 700 <u>6</u>         | A C C C C C C C C C C C C C C C C C C C   |
| Sheen or Hot Weater Poottectors<br>Walt. Floor. or Cosing Undes<br>Portable Unnes<br>Contral Furnacce<br>Other<br>Portable Room Headers<br>Portable Room Headers<br>Rediret Panets<br>Sheen or Hot Weater Raddators<br>Contral Farnacce<br>Baseboard or Weate Undes<br>Contral Farnacce<br>Baseboard or Weate Undes<br>Other<br>Free Standing Poliet Store<br>Free Standing Poliet Store<br>Contral Farnacce<br>Free Standing Poliet Store<br>Contral Farnacce<br>Free Min Insert<br>Free Standing Poliet Store<br>Contral Farnacce<br>Free Standing Poliet Store<br>Contral Farnacce<br>Free Min Insert<br>Free Standing Poliet Store<br>Contral Farnacce<br>Free Standing Poliet Store<br>Contral Farnacce<br>Free Min Insert<br>Free Standing Poliet Store<br>Contral Farnacce  | 20.574<br>35.100<br>1.564<br>1.564<br>12.886<br>18.216<br>18.216<br>24.018<br>24.018<br>23.102  | 8,336<br>10,687<br>806<br>162,717<br>15,711<br>15,716<br>16,758<br>16,758<br>11,530  | 8.234<br>9.93<br>9.85<br>1.21<br>1.21<br>1.21<br>1.21<br>1.21<br>1.21<br>1.21<br>1.2  | 5,146<br>6,014<br>6,014<br>1,575<br>1,575<br>1,575<br>1,575<br>2,004<br>64,501<br>64,501<br>64,501  | 1,982<br>2,194<br>2,194<br>3,03<br>214<br>214<br>214<br>214<br>214<br>214<br>214<br>214<br>214<br>214  | 2,254<br>2,554<br>34,551<br>2,12<br>2,12<br>2,12<br>2,13<br>2,13<br>2,13<br>2,13<br>2,1   | 2,001<br>9,705<br>7,705<br>2,04<br>2,04<br>2,05<br>2,04<br>2,05<br>2,05<br>2,05<br>2,05<br>2,05<br>1,05<br>1,05<br>1,05<br>1,05<br>1,05<br>1,05<br>1,05<br>1   | 6,428<br>17,708<br>17,708<br>17,708<br>12,507<br>13,507<br>13,507<br>13,507<br>13,507<br>13,507<br>13,507  | 0005000                           | ALLE CLEAR  |
| Well, Floor, or Celling Units<br>Portuble Units<br>Contral Farmace<br>Other<br>Haut Plantip<br>Portuble Room Heaters<br>Reduet Panets<br>Stem or Hut Water Raddators<br>Central Farmace<br>Baseboard or Wate Units<br>Central Farmace<br>Baseboard or Wate Units<br>Other<br>Free Standing Platet Store<br>Central Farmace<br>Free Standing Platet Store<br>Central Farmace<br>Free Standing Platet Store<br>Central Farmace<br>Free Mont an Insert<br>Freephere with an Insert<br>Freephere with an Insert<br>Freephere with an Insert<br>Freephere with an Insert  | 35,100<br>1,564<br>12,866<br>12,886<br>18,216<br>7,787<br>7,787<br>1,527<br>24,018<br>33,102  | 10,007<br>826<br>162,717<br>3,053<br>15,711<br>15,711<br>1,530<br>16,756<br>16,756<br>1,530  | 95<br>8<br>8<br>8<br>7<br>7<br>7<br>8<br>8<br>8<br>7<br>8<br>7<br>8<br>8<br>7<br>8<br>7<br>8<br>7   | 6.014<br>1.575<br>1.281<br>1.281<br>2.086<br>64.501<br>64.501<br>3.544  | 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| Pontuble Unes<br>Contra Furnace<br>Other<br>Hund Permy<br>Purtuble Room Heatens<br>Radiant Panets<br>Steam of Hut Water Raddaters<br>Contra Farnace<br>Beenboard of Walt Unes<br>Contra Farnace<br>Beenboard of Walt Unes<br>Contra Farnace<br>Free Standing Poliet Store<br>Free Standing Poliet Store<br>Centra France<br>Free Standing Poliet Store<br>Centra France<br>Free Standing Poliet Store<br>Centra France<br>Free Standing Poliet Store<br>Centra France<br>Free Mout an Insert<br>Free Standing Poliet Store<br>Centra France<br>Free Mout an Insert<br>Store  | 1,564<br>302,530<br>12,886<br>13,286<br>7,791<br>7,791<br>24,018<br>1,527<br>1,527<br>33,102  | 828<br>162,717<br>3,055<br>16,758<br>16,758<br>1,539<br>1,539<br>1,539<br>1,539<br>1,539   | 866<br>151,526<br>73,62<br>12,980<br>1,273<br>1,273<br>85,56<br>85,66<br>85,66<br>85,66<br>85,66  | 1,575<br>148,277<br>10,419<br>10,419<br>64,504<br>64,504<br>64,504<br>64,504<br>64,504  | 23 23 25 24 25 25 25 25 25 25 25 25 25 25 25 25 25   | a<br>272<br>272<br>272<br>272<br>288<br>288<br>288<br>288<br>282<br>282   | 800<br>61.1 00<br>1982<br>1983<br>1983<br>1983<br>1983<br>1983<br>1  | 41<br>2537<br>2,537<br>13,396<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,31<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25,317<br>25  | 0 5 0 0 0                         | NR. 21<br>NR. 21<br>NR  |
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  | 148,217<br>1,281<br>30,419<br>2,084<br>64,501<br>3,544  | 57,684<br>214<br>22,923<br>28,263<br>28,263<br>24,169<br>1,168   | 34,027<br>212<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,041<br>16,0410000000000000000000000000000000000 | 81.02<br>882<br>855<br>855<br>855<br>855<br>855<br>855<br>855<br>855<br>85   | 85,855<br>2,557<br>13,376<br>13,376<br>25,257  |                                   | TAC NOT IN   |
| Other<br>Heat Parray<br>Portable Room Heaters<br>Redeart Parrets<br>Steam of Hot Water Rede<br>Central Farrace<br>Beardoard of Wate Units<br>Other<br>Free Standing Pedet Store<br>Free Standing Pedet Store<br>Free Standing Pedet Store<br>Gentral Farrace<br>Frequece with an Insert<br>Frequece with an Insert<br>Frequece with an Insert<br>Other<br>Solar  | 12,006<br>18,216<br>7,797<br>24,018<br>1,527<br>1,527<br>33,102   | 3.053<br>15.711<br>15.738<br>16.758<br>16.758<br>77<br>20.05   | 74<br>1282.1<br>1282.1<br>1282.8<br>138.8<br>138.8<br>138.8<br>138.8  | 1,281<br>20,419<br>2,004<br>64,501<br>3,544   | 214<br>228<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28   | 22<br>25<br>26<br>26<br>26<br>26<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27  | NR2<br>22,52<br>100,1  | 2,537<br>19,966<br>13,376<br>14,267  | 3666                              | HY KY   |
| Heat Pump<br>Partable Room Heaters<br>Radiant Panets<br>Shem: or Hot Water Radia<br>Shem: or Hot Water Radia<br>Central Furnace<br>Free Standing Store<br>Free Standing Pedet Store<br>Free Standing Pedet Store<br>Free with an Insert<br>Frequece with an Insert<br>Frequece with an Insert<br>Solar<br>Other  | 18,216<br>7,797<br>24,018<br>1,527<br>33,102  | 15,711<br>2,338<br>16,758<br>1,538   | 12,983<br>1,213<br>25,389<br>46,25  | 30,419<br>2,004<br>64,501<br>3,544  | 20,203<br>543<br>28,382<br>1,168   | 20.<br>20.<br>20.<br>20.<br>20.<br>20.<br>20.<br>20.<br>20.<br>20.  | 25.55<br>1.031   | 10,067<br>13,376<br>15,261   | 004                               |   |
| Portuble Room Headers<br>Rediant Parets<br>Steam of Hot Water Radia<br>Central Farmoce<br>Basedoard of Wat Units<br>Other<br>Free Standing Store<br>Free Standing Pedet Store<br>Free Standing Pedet Store<br>Freeptice without an Insert<br>Freeptice without an Insert<br>Freeptice without an Insert<br>Other<br>Other  | 187, 1<br>24,018<br>192, 1<br>201, 55   | 2,208<br>16,708<br>71 - 538  | 512.1<br>18.22<br>18.42<br>18.43<br>18.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43<br>19.43 | 2,004<br>64,501<br>3,544  | 2005<br>2007<br>2007<br>2007<br>2007   |   | 100,1  | 13,376<br>16,261   | 0                                 |   |
| Rediant Panets<br>Steam of Hut Water Radia<br>Central Farmace<br>Baseboard or Well Units<br>Other<br>Free Standing Store<br>Free Standing Petlet Store<br>Free Standing Petlet Store<br>Freeplace without an Insert<br>Freeplace without an Insert<br>Solar<br>Solar<br>Other  | 24.018<br>1.521<br>33.102   | 16,7 <b>3</b> 8<br>- 1,5 <b>3</b> 8  |   | 105 M   |  | 71<br>1966 (71<br>1967 (81)   |  | 6.261  | 613                               | 221, AN   |
| Shem of Hot Water Radia<br>Central Fumace<br>Besehoerd of Wat Units<br>Other<br>Free Standing Store<br>Free Standing Peter Store<br>Central Fumace<br>Frephice with an Insert<br>Frephice with an Insert<br>Frephice without an Insert<br>Solar<br>Other   | 1,527<br>33,102   | 1,530  | 46.)<br>134<br>136  | 356   | 1.168  | <b>1</b> 27   | 8,250  |  |                                   | ATA   |
|  | 33,102  | 2011   | 46,356  |   |  |   | 2,051  | 3,901  | 0                                 |   |
|  |   |  |   | 105-201   | 115,006  | 361,16  | 12,336   | 20,040   |                                   |   |
|  | 115,979   | 51,853   | 77,440  | 102,961   | 63,740   | 22.714  | 38,115   | 165,065  | 15                                | 14759   |
|  | 825   | 136  | 440   |   | 2  | 3   | 585  | 8  | 6                                 | A651  |
|  | 34,965  | 24,837   | 107.01  | 955'16  | 73,796   | 17,119  | 14,379   | 10.3   | 151                               |   |
| Central Fu<br>Frephice<br>Solur<br>Geotherm  | 8,777   | 2,487  | 4,051   | 10,447  | 7,965  | 1,000   | 3,824  | 2,985  | 0                                 | A.526   |
| Contraction of the second seco | 7,165   | 3,121  | 118/1   | 1,982   | 2,654  | <b>814</b>  | 2  | 2  | 0                                 | 11.05   |
| Finglace<br>Solar<br>Ceothern  | 19,968  | 616'6  | 16,227  | 21.125  | 7,187  | <b>5</b> 6  | 285  | 8,060  | 0                                 | W SW  |
|  | 1,365   | Ř  | 1,864   | 3,054   | 1,602  | 418   | 3  | 5,741  | õ                                 | 15,511  |
| Geotherme  | 0   | 19   | 0   | Q/  | 3  | 1961  | <b>9</b> 2   | 5  | 6                                 | 1.56  |
| Other  | 25  | 0  | 0   | £   | £  | ğ   | 0  | ie<br>R  | 6                                 | SO I  |
|  | 1,807   | 265  | 1,306   | 2,363   | 105  | 5<br>L  | 1,319  | <b>1</b>   | 0                                 | ENER  |
| No Heat  | <b>2</b>  | ø  | 0   | 0   | 0  | 0   | 0  | 8  | 6                                 | 8   |
| Don't Know   | 7,066   | 1.68   | 2,737   | 4,192   | 2,875  | 1,885   | 3,063  | 13,335   | 6                                 | X 500   |
| Returned   | <b>1</b>  | R  | 0   | 0   | 0  | 0   | 0  | 0  | o                                 | 1.00  |
| TOTAL  | <b>N3.EN</b>  | 34,565   | <b>MIX</b>  |   | 416 640  | 12.00   | 70.675   | (190 GP-)  | 1 316                             |   |

Reach Park Andread Park States I Park Indust Report Venne F - Tate 21







Beenertike Prener Administration Pertike Huntement Region Connection Volume F - Chert 21

Space-Heating Fuels: Systems and Equipment

 Table F-22: Primary Space-Heating Fuel Type by Dwelling Size in Square Feet

 046 by 024

Raw Data

|                        |              |        |         | -       | DMELLING SI | DMELLING SIZE IN SQUARE FEET | EFEET      |               |            |                      |             | L dipatriate |
|------------------------|--------------|--------|---------|---------|-------------|------------------------------|------------|---------------|------------|----------------------|-------------|--------------|
| PRIMARY SPACE-HEATING  |              | 750 to | 1000 to | 1250 to | 1500 to     | 1750 to                      | 2000 to    | 01 0 R.S.     |            |                      |             |              |
| FUEL TYPE              | 051 ×        | < 1000 | < 1250  | < 1500  | <1750       | 0007 ×                       | 9957 v     | <b>900:</b> × | 3000 or >  | 3000 or > Darit Know | Refused     | TOTAL        |
| Bechroty               | \$           | 1,067  | 1.370   | 1,107   | <b>8</b> 8  | 8                            | 286        | <b>26</b>     | କ୍ଷ        | 2,813                | 01          | 10,621       |
| Natural Cas            | 3            | 200    | 158     | 308     | 302         | 261                          | 196        | 168           | 217        | E                    | 80          | 3,053        |
| Fuel Oil               | 13           | 8      | 138     | 134     | 117         | 124                          | 155<br>155 | 8             | <b>1</b> 0 | 91                   | <b>q</b> ia | 1.68         |
| Wood or Presto Logs    | 116          | 328    | 283     | 804     | 151         | 331                          | <b>8</b> 8 | 164           | 219        | 1,047                | 4           | A 053        |
| Propane or Bottled Gas | Я            | 51     | 4       | 82      | 82          | ħ                            | સ          | 11            | 82         | 109                  | 0           | S.S.         |
| Kerosene               | 2            | 2      | 0       | 4       | e           | 2                            | •          | 0             | 0          | *                    | 0           | 19           |
| Coal                   | 0            | •      | 4       | 4       | 4           | •**                          | £          | 2             | 0          | 16                   | 0           | 8            |
| Solar                  | •            | 0      | 0       | **      | ŝ           | m                            | Ċ          | 0             | -          | 2                    | 0           | 2            |
| Geothermal             | <b>€</b> ste | 0      | 4       | ***     | 0           | O                            | 0          | 0             | 0          | 2                    | 0           | -            |
| Other                  | به:          | ~      | 80      | ŝ       | m           | Ģ                            | S          | 2             | 9          | 7                    | 0           | 8            |
| No Heat                | *-           | 0      | 0       | 0       | -           | 0                            | •          | 0             | 0          | -                    | 0           | 4            |
| Not Asked              | 9            | 70     | 9       | 5       | 7           | 12                           | 11         | 7             | 12         | 218                  | 0           | 2            |
| Don't Know             | 0            | •      | 0       | 0       | -           | -                            | •**        | •••           | ••         | 11                   | 0           | 11           |
| Refused                | o            | -      | 0       | 0       | 0           | 0                            | 0          | C             | 0          | 0                    | 0           | *            |
| TOTAL                  | 141          | 1,818  | 2,584   | 2,045   | 1,910       | 1,588                        | 1,965      | 36            | 1,123      | 5,456                | 8           | 20,170       |
|                        |              |        |         |         |             |                              |            |               |            |                      |             |              |

Secondia Power Administration Profile Northware I Pacific Northware Region Crossible Volume F - Table 22 Table F-22: Primary Space-Heating Fuel Type by Dwelling Size in Square Feet Q46 by Q24

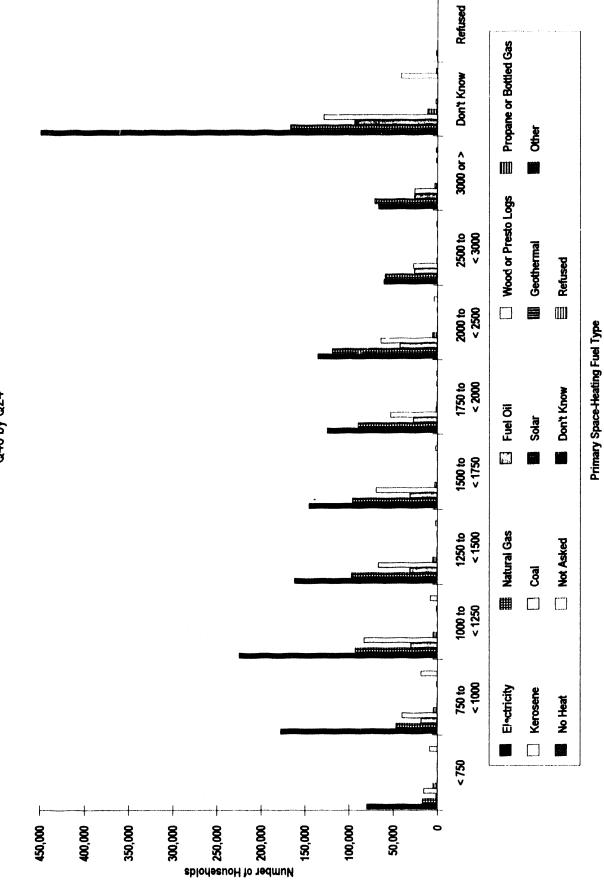
Weighted Data

|                        |         |         |         |             | DWELLING S | DWELLING SIZE IN SQUARE FEET | RE FEET |             |           |            |         |           |
|------------------------|---------|---------|---------|-------------|------------|------------------------------|---------|-------------|-----------|------------|---------|-----------|
| PRIMARY SPACE-HEATING  |         | 750 to  | 1000 to | 1250 to     | 1500 to    | 1750 to                      | 2000 to | 2500 to     |           |            |         |           |
| FUEL TYPE              | < 750   | < 1000  | < 1250  | < 1500      | < 1750     | < 2000                       | < 2500  | < 3000      | 3000 or > | Don't Know | Refused | TOTAL     |
| Electricity            | 79,997  | 177,879 | 225,057 | 162,190     | 145,588    | 125,218                      | 135,870 | 60,640      | 66,852    | 449,703    | 751     | 1.629.745 |
| Natural Gas            | 17,081  | 47,043  | 92,629  | 97,161      | 96,012     | 89,667                       | 119,235 | 59,150      | 71,051    | 167,267    | 1.838   | 858,134   |
| Fuel Oil               | 1,810   | 18,415  | 29,703  | 30,801      | 30,746     | 26,793                       | 42,719  | 25,642      | 25,589    | 93,837     | 142     | 326,196   |
| Wood or Presto Logs    | 15,440  | 40,054  | 82,814  | 66,810      | 69,315     | 52,875                       | 63,959  | 27,013      | 25,202    | 129,135    | 248     | 572,866   |
| Propane or Bottled Gas | 5,298   | 4,755   | 5,102   | 5,781       | 3,265      | 1,963                        | 5,930   | 1,321       | 3,563     | 11,339     | 0       | 48,317    |
| Kerosene               | 145     | 871     | 0       | 717         | 405        | 1,174                        | g       | 0           | 0         | 1,247      | 0       | 4,892     |
| Coal                   | 0       | 142     | 344     | 754         | 492        | 333                          | 440     | 98<br>88    | 0         | 2,388      | 0       | 5.277     |
| Solar                  | 415     | 0       | 0       | 98          | 477        | 362                          | 100     | 0           | 92        | 124        | 0       | 1.584     |
| Geothermal             | 181     | 0       | 392     | 142         | 0          | 0                            | 0       | 0           | 0         | 361        | 0       | 1.075     |
| Other                  | 15      | 1,257   | 1,501   | <b>68</b> 6 | <u>\$</u>  | 1,131                        | 159     | <b>4</b> 03 | 1,634     | 481        | 0       | 8,363     |
| No Heat                | 70      | 0       | 0       | 0           | 415        | 0                            | 02      | 0           | 0         | 8          | 0       | 585       |
| Not Asked              | 8,845   | 18,379  | 7,944   | 2,391       | 2,336      | 1,129                        | 4,011   | 1,310       | 1,774     | 41,220     | 0       | 80, 338   |
| Don't Know             | 0       | 25      | 0       | 0           | g          | ଞ                            | 108     | સ           | ଞ         | 1,822      | 0       | 2,407     |
| Refused                | 0       | ନ୍ଥ     | 0       | 0           | 0          | 0                            | 0       | 0           | 0         | 0          | 0       | 8         |
| TOTAL                  | 129,296 | 308,880 | 445,484 | 367,773     | 349,577    | 300,673                      | 373,534 | 175,894     | 195,764   | 898,954    | 2,979   | 3,548,809 |

Bonneville Power Administration PNWRES\$2-Phase I Pacific Northwest Region Crosstabs Volume F - Table 22



Weighted Data



Bonneville Power Administration PNWRES92-Phase I Pacific Northwest Region Crosstabs Volume F - Chart 22 Table F-23: Primary Water-Heating Fuel Type by Dwelling Size in Square Feet Q102 by Q24

Raw Data

|                        |       |            |         |          | DWELLING SI | DWELLING SIZE IN SOUARE FEET | EFET    |         |                  |                     |          | ſ              |
|------------------------|-------|------------|---------|----------|-------------|------------------------------|---------|---------|------------------|---------------------|----------|----------------|
| PRIMARY WATER-HEATING  |       | 750 to     | 1000 to | 1250 to  | 1500 to     | 1750 to                      | 2000 to | 2500 to |                  |                     |          |                |
| FUEL TYPE              | < 750 | < 1000     | < 1250  | < 1500   | < 1750      | < 2000                       | < 2500  | < 3000  | 3000 or >        | 300 or > Don't Know | Refirent | TOTAL          |
| Electricity            | 529   | 1,528      | 2,201   | 1,750    | 1,619       | 1,344                        | 1,610   | 752     | 88               | 4.461               | 17       | 16 735         |
| Natural Gas            | 37    | 135        | 265     | 239      | 234         | 206                          | 290     | 131     | 174              | 471                 | 9        | 2 188          |
| Fuel Oil               | 0     | -          | с       | -        | 3           | 4                            | ę       | 0       | e<br>C           | 12                  | 0        | 8 8            |
| Mood                   | 6     | 80         | 80      | 5        | 4           | 2                            | 9       | 2       | 10               | 8                   | 0        | 2              |
| Propare or Bottled Gas | ଝ     | 4          | 47      | <b>%</b> | 28          | 2                            | R       | 80      | 58               | 8                   | 0        | 346            |
| Solar                  | 2     | •          | 9       | 4        | e           | S                            | 4       | ę       | 4                | LC.                 |          | 12             |
| Other                  | 0     | -          | 0       | 0        | 2           | -                            | -       | 0       | -                | 4                   | 0        | ; <del>ç</del> |
| No Hot Water in Home   | -     | 0          | 0       | 0        | 0           | 0                            | 0       | 0       | 0                | Ś                   |          |                |
| Not Asked              | 88    | <b>6</b> 6 | 49      | 18       | 15          | 11                           | 12      | 9       | - <del>1</del> 5 | 344                 |          |                |
| Don't Know             | 5     | 5          | 5       | 2        | 2           | 4                            | 4       | 2       | 9                | 8                   |          | 2              |
| Refused                | 0     | 0          | 0       | 0        | 0           | 0                            | 0       | 0       | 0                | 0                   | 0        | 0              |
| TOTAL                  | 711   | 1,818      | 2,584   | 2,045    | 1,910       | 1,599                        | 1,955   | 346     | 1.123            | 5.456               | 8        | 20 170         |
|                        |       |            |         |          |             |                              |         |         |                  |                     |          |                |

#### Weighted Data

.

|                        |         |         |            |         | DWELLING | DWELLING SIZE IN SQUARE FEET | RE FEET |         |                |            |         |           |
|------------------------|---------|---------|------------|---------|----------|------------------------------|---------|---------|----------------|------------|---------|-----------|
| PRIMARY WATER-HEATING  |         | 750 to  | 1000 to    | 1250 to | 1500 to  | 1750 to                      | 2000 to | 2500 to |                |            |         |           |
| FUEL TYPE              | < 750   | < 1000  | < 1250     | < 1500  | < 1750   | < 2000                       | < 2500  | < 3000  | 3000 or >      | Don't Know | Refired | TOTAL     |
| Electricity            | 97,560  | 249,607 | 362,778    | 280,082 | ľ.,      | 221.314                      | 269.931 | 127.377 | 130.939        |            | 2 0AG   | ſ         |
| Natural Gas            | 7,554   | 27,614  | 65,904     | 77,551  |          | 71.409                       | 92.514  | 42.901  | 56,300         | 100 593    | 1       | 4         |
| Fuel Oil               | 0       | 964     | 242        | 181     |          | 837                          | 817     | 0       | 1 087          | 2.535      | 3 6     | e ka      |
| Wood                   | 611     | 510     | <b>304</b> | 299     |          | 440                          | 480     | 178     | 88             | 2 044      |         | 6 718     |
| Propare or Bottled Gas | 4,771   | 4,662   | 4,309      | 4,615   | 4,855    | 3.110                        | 3.559   | 1.480   | 3223           | 8.476      |         | 050 23    |
| Solar                  | 470     | 98      | 699        | 244     |          | 536                          | 657     | 086     | 350            | 062        |         | A RES     |
| Other                  | 0       | 415     | 0          | 0       |          | Я                            | 333     | 0       | 8              | 94C        |         | 1 205     |
| No Hot Water in Home   | 96      | 0       | 0          | 0       |          | 0                            | 0       |         | 3 -            | 607<br>67  |         | 212       |
| Not Asked              | 17,398  | 23,783  | 9,115      | 4,309   | 3.152    | 2.188                        | 3.943   | 1173    | 2.155<br>2.155 | 65 281     | 0 0     | 127 686   |
| Don't Know             | 896     | 1,289   | 1,565      | 403     | 8        | 804                          | 1301    | 1 805   | 269            | 10,721     | 5       | 10 541    |
| Refused                | 0       | 0       | 0          | 0       | 0        | 0                            | 0       | 0       | 0              | 0          | 0       | 0         |
| TOTAL                  | 129,296 | 306,880 | 445,484    | 361,173 | 349,577  | 300,673                      | 373,534 | 175,894 | 195,764        | 898,954    | 2.979   | 3,548,809 |

Bonneville Power Administration PNWRES92-Phase I Pacific Northwest Region Crosstabs Volume F - Table 23

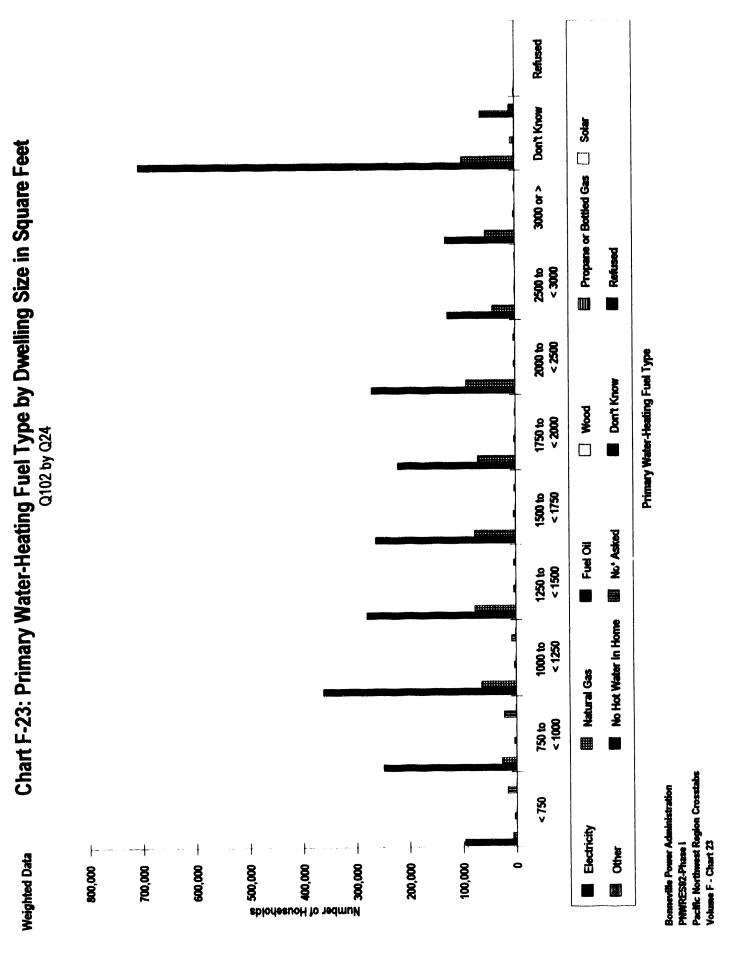


 Table F-24: Household Income by Dwelling Size in Square Feet

 Q186, Q188, Q189 by Q24

Raw Data

|                         |       |            |          |            | DWELLING SI | DWELLING SIZE IN SQUARE FEET | E FEET          |         |           |            |             |        |
|-------------------------|-------|------------|----------|------------|-------------|------------------------------|-----------------|---------|-----------|------------|-------------|--------|
|                         |       | 750 to     | 1000 to  | 1250 to    | 1500 to     | 1750 to                      | 2000 to         | 2500 to |           |            |             |        |
| HOUSEHOLD INCOME        | < 750 | < 1000     | < 1250   | < 1500     | < 1750      | < 2000                       | < 2500          | 000C >  | 3000 or > | Don't Know | Refused     | TOTAL  |
| Below \$5,000           | ጽ     | <b>3</b> 5 | я        | 8          | 6           | 11                           | 12              | 9       | 9         | 273        | 0           | 161    |
| \$5,000 to < \$10,000   | 106   | 171        | 109      | 11         | 42          | 8                            | 83              | 19      | 14        | 576        | <b>*</b> ** | 1,164  |
| \$10,000 to < \$15,000  | \$    | 224        | 212      | 118        | ଛ           | 51                           | 51              | 8       | 31        | 625        | 5           | 1,517  |
| \$15,000 to < \$20,000  | 75    | 185        | 208      | 140        | 104         | 8                            | 76              | ଝ       | 8         | <b>226</b> | 2           | 1,491  |
| \$20,000 to < \$25,000  | 86    | 207        | 293      | 203        | 181         | 88                           | 113             | 51      | 4         | 510        | 2           | 1,796  |
| \$25,000 to < \$30,000  | 73    | 260        | 364<br>3 | 227        | 219         | 166                          | 171             | 89      | ß         | 543        | 2           | 2,173  |
| \$30,000 to < \$40,000  | 80    | 261        | 483      | 374        | 344         | 307                          | <del>3</del> 08 | 148     | 134       | 450        | 0           | 2,870  |
| \$40,000 to < \$50,000  | 26    | 111        | 250      | 240        | 276         | 232                          | <b>58</b> 2     | 114     | 136       | 183        | ***         | 1,857  |
| \$50,000 to < \$60,000  | 9     | 83         | 117      | 129        | 132         | 140                          | 213             | 119     | 105<br>1  | 92         | <b>*</b>    | 1,107  |
| \$60,000 to < \$80,000  | 7     | 20         | 73       | 72         | 119         | 113                          | 178             | 114     | 117       | <b>8</b> 4 | 0           | 861    |
| \$80,000 to < \$100,000 | 2     | æ          | 8        | X          | 8           | 8                            | 52              | 41      | 63        | 8          | *           | 347    |
| \$100,000 or More       | 9     | 2          | 17       | 10         | 21          | Я                            | 81              | 61      | 113       | 12         | 0           | 348    |
| Don't Know              | 46    | 91         | 134      | 117        | 104         | 22                           | 3               | æ       | 88        | 857        | *-          | 1,619  |
| Refused                 | 62    | 169        | 266      | <b>764</b> | 243         | 8                            | 267             | 124     | 196       | 60/        | 2           | 2,529  |
| TOTAL                   | 711   | 1,818      | 2,584    | 2,045      | 1,910       | 1,599                        | 1,955           | 8       | 1,123     | 5,456      | 8           | 20,170 |

Bonneville Power Administration PNWRES\$2-Phase | Pacific Northwest Region Crosstabs Volume F - Table 24 

 Table F-24: Household Income by Dwelling Size in Square Feet

 Q186, Q188, Q189 by Q24

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Weighted Data

|                         |         |         |         |         | DWELLING S | DWELLING SIZE IN SQUARE FEET | REFEET  |          |           |                  |          | Γ         |
|-------------------------|---------|---------|---------|---------|------------|------------------------------|---------|----------|-----------|------------------|----------|-----------|
|                         |         | 750 to  | 1000 to | 1250 to | 1500 to    | 1750 to                      | 2000 to | 2500 to  |           |                  | T        |           |
| HOUSEHOLD INCOME        | < 750   | < 1000  | < 1250  | < 1500  | < 1750     | < 2000                       | < 2500  | 900<br>V | 3000 or > | Don't Know       | Referent | TOTAL     |
| Below \$5,000           | 11,705  | 9,475   | 4,313   | 4,151   | 1,287      | 1,060                        | 1.958   | 604      | 5         | 199 66           |          | 75.25     |
| \$5,000 to < \$10,000   | 15,733  | 26,344  | 18,229  | 9,048   | 5,444      | 4.965                        | 2.953   | 2773     | 1550      | R7 600           | , a      | 174.2.40  |
| \$10,000 to < \$15,000  | 15,059  | 36,329  | 28,515  | 17,325  | 14,759     | 6.629                        | 6.217   | 2 167    | 4 581     | 56 20<br>7 83 20 | 2 1 2 1  | 376 375   |
| \$15,000 to < \$20,000  | 12,407  | 28,010  | 37,873  | 27,837  | 16,741     | 15,340                       | 11.986  | 3311     | 5 216     | 93.M5            |          |           |
| \$20,000 to < \$25,000  | 19,554  | 34,080  | 55,861  | 28,012  | 30,880     | 12,865                       | 15.884  | 10.654   | 4 990     | 77.518           | 286      |           |
| \$25,000 to < \$30,000  | 13,065  | 46,609  | 49,034  | 43,277  | 34,174     | 33,157                       | 29,278  | 7.674    | 8.744     | 869 66           | 178      |           |
| \$30,000 to < \$40,000  | 17,194  | 50,837  | 85,221  | 61,621  | 65,452     | 51,806                       | 54,168  | 24,039   | 22.254    | 68 000           |          |           |
| \$40,000 to < \$50,000  | 4,876   | 16,870  | 46,746  | 47,298  | 51,963     | 46,521                       | 59,563  | 23.050   | 24.529    | 31571            | 2        | 21.240    |
| \$50,000 to < \$60,000  | 1,450   | 11,953  | 23,060  | 33,601  | 28,958     | 25,770                       | 42.282  | 19,575   | 16.637    | 18.999           | 3        | 222.000   |
| \$60,000 to < \$80,000  | 197     | 3,742   | 17,345  | 16,898  | 23,434     | 24,312                       | 37,822  | 25,989   | 20 234    | 8,060            | C        | 178.054   |
| \$80,000 to < \$100,000 | \$      | 1,247   | 4,162   | 6,076   | 5,255      | 11,916                       | 13,343  | 10,581   | 11 235    | 5,263            | . 85     | 69 FS     |
| \$100,000 or More       | 1,185   | 23      | 2,736   | 2,032   | 5,495      | 4,416                        | 15,830  | 12,980   | 25,002    | 1443             | C        | 71 160    |
| Don't Know              | 7,955   | 15,580  | 21,361  | 18,938  | 19,125     | 13,161                       | 20,169  | 9.441    | 10.885    | 511571           | , K      | 279 875   |
| Refused                 | 8,870   | 21,752  | 51,028  | 51,659  | 46,610     | 48,704                       | 62,080  | 23,562   | 38,959    | 128,949          | 471      | 488,644   |
| TOTAL                   | 129,296 | 306,880 | 445,484 | 361,113 | 349,577    | 300,673                      | 373,534 | 175,894  | 195,764   | <b>966</b> ,954  | 2.979    | 3 548 809 |
|                         |         |         |         |         |            |                              |         |          |           |                  |          |           |

Bonneville Power Administration PNNRESS2-Phase | Pacific Northwest Region Crosstabs Volume F - Table 24



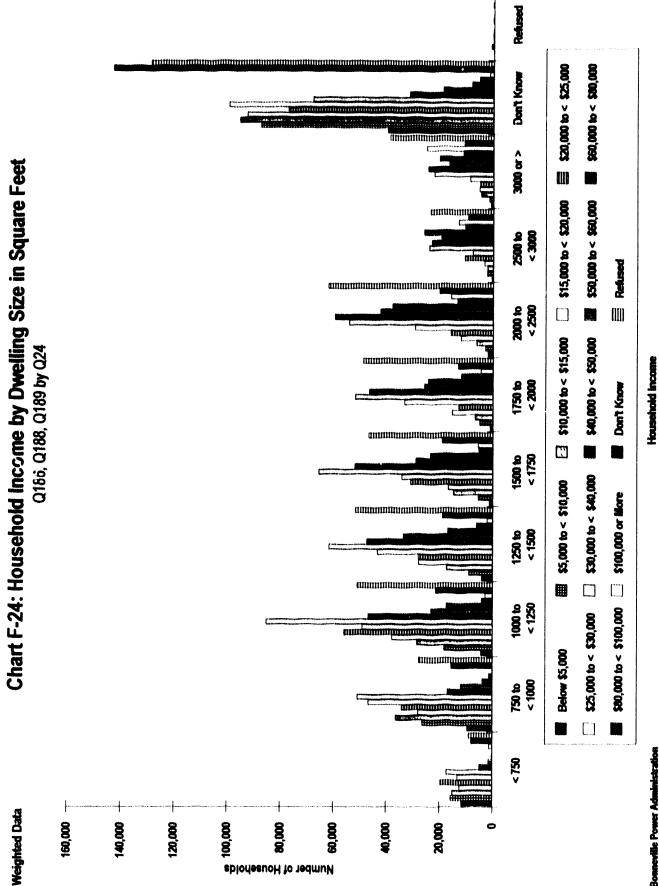


Table F-25: Utility Type by Dwelling Size in Square Feet TYPE by 024

#### Raw Data

|                       |       |            |         |         | DWELLING SI | <b>ZE IN SQUAR</b> | EFEET   |               |           |           |   | ſ     |
|-----------------------|-------|------------|---------|---------|-------------|--------------------|---------|---------------|-----------|-----------|---|-------|
|                       |       | 750 to     | 1000 to | 1250 to | 1500 to     | 1750 to            | 2000 to | 200 10        |           |           |   |       |
|                       | < 750 | < 1000     | < 1250  | < 1500  | < 1750      | 9992 ×             | < 2500  | <b>1997</b> ~ | 3000 or > | Den't Kan |   | •     |
| Public Generating     | 219   | 234        | 714     | 809     | æ           | <b>8</b>           | 83      | 25            | M.        |           |   |       |
| Public Non-Generating | ž     | <b>3</b> 5 | 1,321   | 1,023   | 266         | 982                | 1.007   |               | 613       | 2 926     |   |       |
| Investor Owned        | 128   | X          | 55      | 414     | 396         | 306 330 412 197    | 412     | 191           | 15        | 217 1,060 | - |       |
|                       |       |            |         |         |             |                    |         |               |           | ı         |   |       |
| 101                   | Ē     | 1,618      | 2,584   | 2,045   | 1,910       | <b>985</b> -       | 1,955   | <b>9</b>      | 1,123     | 5.666     | 8 | 20102 |
|                       |       |            |         |         |             |                    |         |               |           |           |   |       |

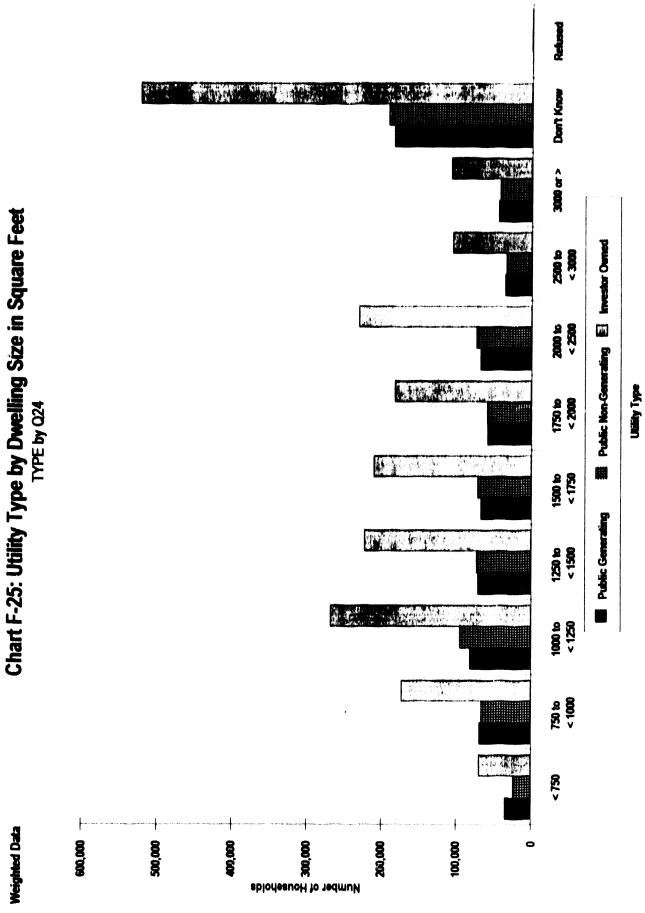
#### Weighted Data

|                       |         |         |         |         | DNELLING S      | ZEN SOUND | EFET       |         |             |                 |       | ſ         |
|-----------------------|---------|---------|---------|---------|-----------------|-----------|------------|---------|-------------|-----------------|-------|-----------|
|                       |         | 750 to  | 1000 to |         | 1500 to         | 1750 to   | 200 10     | 20010   |             |                 |       |           |
|                       | < 750   | < 1000  | < 1250  |         | < 1750          | < 2000    | < 250      |         |             | Death Kase      | Press |           |
| Public Generating     | 35,017  | 68,978  | 82,226  |         | 67.404          | 58.666    | <b>144</b> | 36.072  | <b>6</b> 15 | 101 755         |       |           |
| Public Non-Generating | 24,481  | 66,508  | 605'16  | 73,212  | 72,012          | 000.65    | 74,081     | 関係      | 216.07      | 191 204         |       |           |
| Investor Owned        | 69.798  | 173,394 | 268,319 |         | 210,162 182,647 | 182,647   | 1 231,000  | 105,441 | 107,697     | 511,122         | E     | 2,095,485 |
| TOTAL                 | 129,296 | 306,880 | 145,484 | 361,173 | 349,577         | 300,673   | 373,534    | 175,894 | 196,764     | <b>196</b> ,954 | 2,979 | 3,548,809 |

Boareeffie Power Administration PMMCESR2-Phase | Pacific Northwest Region Crosstabs Volume F - Tathe 25



Bonneville Power Administral



Weighted Data

Table F-26: Space-Heating Fuels: Systems and Equipment by Dwelfing Size in Square Feet

HEAT\_EOP by 024

#### Raw Data

|               |                               |       |        |            |             | DIRELLING SI |             |               |                 |            |            |              |          |
|---------------|-------------------------------|-------|--------|------------|-------------|--------------|-------------|---------------|-----------------|------------|------------|--------------|----------|
| SPACE HEATING | <u> </u>                      |       | 750 to | 1000 to    | 1250 to     | 1500 to      | 1758 to     | 2000 %        | c) <b>805</b> 7 |            |            |              |          |
| FUELS:        | FUELS: SYSTEMS AND EQUIPMENT  | 05L > | < 1000 | <1250<br>< | < 1500      | < 1750       | < 200       | <b>9857</b> > | < 3000 ×        | 300 or >   | Don't Know | Reference    | TOTAL    |
| Multi-Unit    | Central Heat - Al Units       | 8     | 3      | 8          | 7           | 5            | 11          | 13            | -               | <b>Q</b>   | 121        | 0            | <b>A</b> |
|               | Central Heat - Several Units  | 4     | G      | 9          | 0           | **           | ~           | m             | •               | -          | <b>9</b> 2 | 6            | 3        |
| ,             | Unit Not Heated               | •••   | 0      | 0          | 0           | 0            | 0           | -             | 2               | •-         | 9          | 0            | Ħ        |
| Fossil:       | Steam or Hot Water Radiators  | 3     | 13     | 24         | 15          | 18           | R           | 34            | 8               | Ø          | 67         |              | 2        |
|               | Wall, Floor, or Ceiling Units | 16    | 8      | 8          | ଷ           | 24           | 12          | 82            | 5               | 15         | 129        | -            | Ø        |
|               | Portable Units                | 9     | 4      | 9          | S           | ũ            | 2           | 2             | 0               | 177        | 11         | 0            | 4        |
|               | Central Furnace               | 2     | 717    | 194        | 416         | 986          | 328         | 195           | 536             | 22         | 1,067      | ~            | 4,105    |
|               | Other                         | 2     | 10     | 12         | 13          | 11           | Ŷ           | g             | 2               | 9          | \$         | 0            | 12       |
| Electricity   | Heat Pump                     | *     | 4      | 18         | 106         | 124          | 1 <u>2</u>  | 218           | 12              | <b>æ</b>   | 151        | <b>4</b>     | 1,160    |
|               | Portable Room Heaters         | 8     | ន      | 2          | 10          | 7            | 1           | 9             | e               | 2          | 8          | 0            | 210      |
|               | Radiant Panels                | 67    | 180    | 99<br>20   | 202         | 183<br>I     | 116         | 133           | 88              | 8          | 8          | <b>*</b>     | 81       |
|               | Steam or Hot Water Radiators  | 2     | 2      | -          | 60          | e            | 9           | 1             | 2               | đ          | 92         | 0            | 8        |
|               | Central Fumace                | 116   | 82     | 414        | 286         |              | <b>3</b> 27 | <b>%</b>      | <b>193</b>      | tă         | 83         | e            | 3,505    |
|               | Baseboard or Wall Units       | 211   | 475    | 561        | 388<br>7    | 362          | 210         | 95            | <b>9</b> 0      | 111        | 6271       | vn           | 3,65     |
|               | Other                         | -     | ŝ      | E          | 4           | e            | ę           | e             | 0               | S          | 5          | 0            | 3        |
| Nood          |                               | 106   | 212    | 447        | 321         | Ø            | ž           | <b>78</b> 2   | 107             | 128        | 817        | 2            | 3,048    |
|               |                               | 0     | 13     | 8          | 12          | 8            | 92          | お             | 15              | <b>1</b> 9 | 8          | 6            | Ā        |
|               | Central Furnace               |       | 80     | 18         | 11          | 12           | 16          | સ             | Z               | 24         | 4          | -            | 187      |
|               | Freplace with an Insert       | 5     | 31     | 2          | 51          | R            | \$          | 8             | ឧ               | 3          | 100        | <b>₽</b> en. | 154      |
|               | Fireplace without an Insert   | 4     | 4      | 10         | đ           | -            | 9           | S             | ŝ               | 4          | 8          | 0            | 2        |
| Other         |                               | -     | 0      | 0          | ł           | 2            | 9           | B             | 0               | ••         | 2          | 6            | 94       |
|               |                               | -     | 0      | 4          | <b>4</b> 23 | 0            | 0           | 0             | 0               | O          | 2          | 6            | 80       |
|               | Other                         | -     | 7      | e0         | ŝ           | Ś            | 9           | ŝ             | 2               | G          | 7          | 0            | 8        |
|               | No Heat                       | -     | 0      | o          | 0           | -            | 0           | <b>\$</b>     | 0               | 0          | •          | 0            |          |
|               | Dan't Know                    | 9     | 11     | 12         | 2           | 80           | 3           | 9             | 2               | 6          | 115        | 0            | 111      |
|               | Refused                       | 0     | -      | 0          | 0           | 0            | <b>4</b>    | 0             | 0               | <b>4</b>   | 0          | 8            |          |
|               |                               | 744   | 1 646  | 1621       | 300         | 1 010        | 1 (26       | 1 065         | J               | 117        | 5466       | K            | 20170    |

Bonneville Power Administration PMMRESS2-Phase I Pacific Northwest Region Crosstabs Volume F - Tathé 26 Table F-26: Space-Heating Fuels: Systems and Equipment by Dwelling Size in Square Feet HEAT\_EQP by 024

Weinhed Data

| SPACEHEATING |                               |               | 2010           | 1000 to     | 1250 to        | 1500 b   | 173610  | 2005                   |           |        |            |  |       |
|--------------|-------------------------------|---------------|----------------|-------------|----------------|----------|---------|------------------------|-----------|--------|------------|--|-------|
| FUELS:       | FUELS: SYSTEMS AND EQUIPMENT  | < 750         | < 1000         | < 1250      | < 1500         |          | < 2000  |                        |           |        | Don't Know | Performance of the second seco | TOTA  |
| Muthi-Unit:  | Central Heat - Al Units       | 170,1         | 14,614         | 6,124       | 2,059          | 2,157    | 1,074   | 3,461                  | \$        | 1.111  | 33,965     | 0  | 72    |
|              | Central Heat - Several Units  | 1,102         | 1,545          | 510         | 0              | 将        | 3       | 515                    | 8         | 8      |            | 0  | 7.92  |
|              | Unit Not Heated               | SS            | 0              | 0           | 0              | 0        | o       | 35                     | 8         | 8      | 39         | 6  | 9     |
| Fossil:      | Steam or Hot Water Radiators  | 211           | 2,806          | 4,674       | 2.221          | 4.176    | 6,201   | 5,648                  | 5,229     | 8,548  |            | ä  | L     |
|              | Wall, Floor, or Ceiling Units | 4,748         | 11,060         | 10,506      | 8,478          | 4,663    | 4,852   | 125'6                  | 6,179     | 5,03   | 11 R       | 8  |       |
|              | Portable Units                | 5             | 371            | 悬           | 1.629          | Ř        | 8       | 367                    | 0         | 211    | 1,585      | 0  |       |
|              | Central Furnace               | 16,999        | 53,467         | 109,435     | 119,749        | 119.639  | 106,482 | 151,200                | 2622      | 2002   | 217,248    | 8  | -     |
|              | Other                         | <b>99</b> 5   | 3,467          | 2.201       | 3,037          |          | 2,031   | 1,005                  | 4         | 374    | 5,075      | 0  |       |
| Electricity. | Heat Pump                     |               | 1447           | 15,962      | 18,862         | 18.643   | 25,785  | 33,860                 | 14,937    | 23,62  |            | 8  | L     |
|              | Portable Room Heaters         | 3,486         | 2,312          | 3,060       | Ę              | 8        | 1,030   | Ne                     | Ø         | 8      | 16,955     | 0  |       |
|              | Radiant Panets                | <b>904</b> '5 | 25,518         | 32, BM      | 22,173         | 20,667   | 12,265  | 010,01                 | 6,810     | 877.8  |            | 8  |       |
|              | Steam or Hot Water Radiators  | 160           | 124            | 10<br>10    | 1,723          | 1,244    | 2,060   |                        | 4         | 1.02   | 7,043      | 0  | ELM.  |
|              | Central Furnace               | 211.02        | 51,162         | 61,728      | 50,488         | 55,167   | 51,506  | 111.04                 | 25,224    | 18,162 | •          | 215  | SECTO |
|              | Baseboard or Wall Units       | 45,391        | <b>89</b> ,685 | 111,332     | 64,006         | 220,02   | 31,470  | 19 E                   | 12,021    | 12,000 | •••        |  |       |
|              |                               | 8             | 766            | R           | 310            | 114      | 8//     | 8                      | 0         | 100    | 1,500      | 0  | Ş     |
| Wood         | -                             | 13,301        | 30,211         | 60,230      | <b>19</b> ,514 | 48,060   | 36,903  | <b>6</b> 70,6 <b>4</b> | 11,231    | 198.Y  | 96,588     | 8  |       |
|              | Free-Standing Pellet Stove    | 0             | 1,896          | 5,461       |                | 7,000    | 1,983   | 229                    | 3,226     |        | 1,562      | 0  |       |
|              | Central Fumace                | Ø             | 1,263          | <b>90</b> 5 | 1,583          | 1.740    | 1,148   | 3,003                  | 2,385     | 2,256  | 3,663      | 5  |       |
|              | Freplace with an Insert       | 1,181         | 4,714          | 13,539      | 8,714          | 11,604   | 11,024  | 10,603                 | 3,004     | 5,222  | 16,629     | *  |       |
|              | Fireplace without an Insert   | 8             | 1,968          | 2,340       | 2,209          | 100      | 1,807   | 000                    | 5         | 6      | 4.00       | 0  | HS.ST |
| Lando        |                               | 415           | 0              | 0           | æ              | Uð       | 36      | 8                      | 0         | R      | 124        | ð  |       |
|              | Geothermal                    | 181           | 0              | 200         | ã              | 0        | 0       | •                      | 0         | 0      | 福          | 0  | 1,075 |
|              | Other                         | ЗŻ            | 1221           | 195,1       | 8              | <b>N</b> | 1,131   | <b>8</b> 2             | 8         | 1.63.1 | ¥          | 6  |       |
|              | No Heat                       | R             | 0              | 0           | 0              | 415      | 0       | R                      | 0         | 0      | 8          | 0  |       |
|              | Don't Know                    | 1,561         | 3,200          | 5721        | 8              | 1,305    | 292     | 1,534                  | 53<br>138 | 2,786  | 23,210     | 6  |       |
|              | Refused                       | 0             | 8              | 0           | 0              | 0        | 8       | 0                      | 0         | 2      | 0          | o  | ŝ     |
|              | TATAI                         |               |                |             |                |          |         |                        |           |        |            |  |       |

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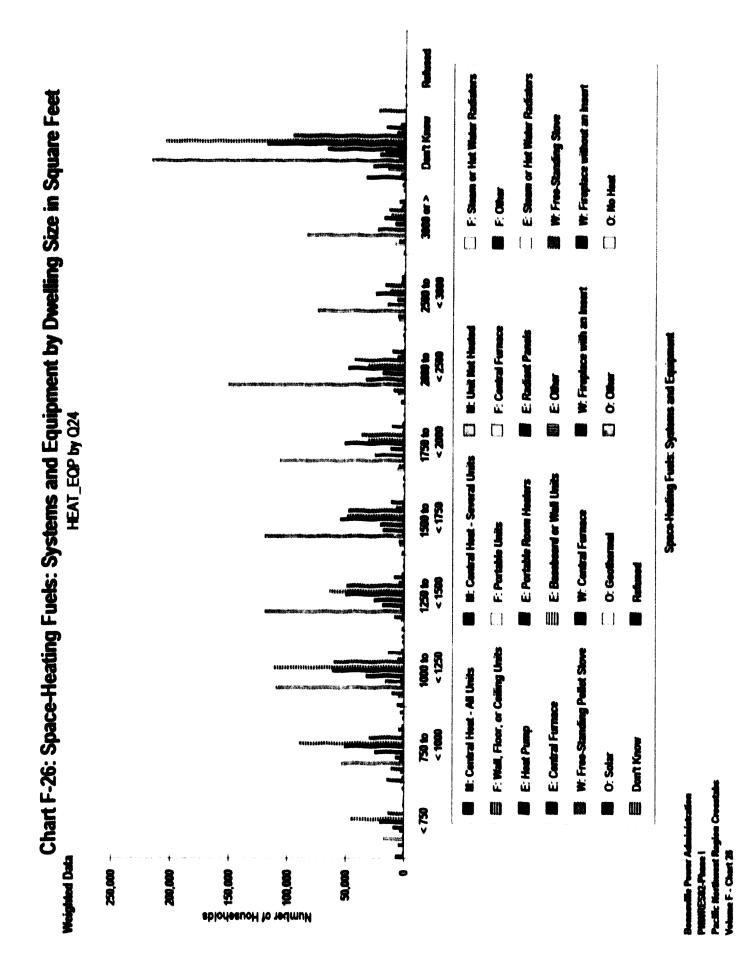


Table F-27: Primary Water-Heating Fuel Type by Primary Space-Heating Fuel Type 0102 by 046

| T |
|---|
|   |
|   |
| œ |

|                        |                 |          |                 |       |             | PRIMARY SPACE HEATING FUEL TYPE | EATING      | FUEL N | J.       |   |       |              |     | Γ    |        |
|------------------------|-----------------|----------|-----------------|-------|-------------|---------------------------------|-------------|--------|----------|---|-------|--------------|-----|------|--------|
| PRIMARY WATER HEATING  |                 | Kind     | 8               | 8     | Properts or |                                 |             |        |          |   |       | ¥            | Ĩ   | T    |        |
| FUEL TYPE              | Bedricity       | Gass     | Fuel Oil Presto |       | Bottled Cas | Kereene                         | 3           | 3      | Continue |   | N Har | Į            | Ŋ   | Find | TOTAL  |
| Bechicity              | 10.062          | 1,112    | 1,368           | 3.724 | 96<br>1     | 16                              | 8           | 2      | •        | 4 | m     | 8            | 9   | -    | 16.731 |
| Natural Gas            | <del>1</del> 35 | 1,800    | 13              | 121   | *0          | 0                               | -           | 0      | <b>*</b> | e | •     | 5            | 6   | 6    | 2.100  |
| Fuel Oil               | 0               | 0        | 92              | 2     | 0           | 0                               | 0           | 0      | 0        | 0 | 0     | 2            | 0   | 0    | 2      |
| Wood                   | -               | 0        | <b>y</b> n      | 8     | •••         | 0                               | 0           | 0      | 0        | 0 | 0     | 0            | 0   | 6    | 2      |
| Propane or Bottled Gas | 8               | 2        | *               | 2     | 164         | -                               | 0           |        | 0        | • | 0     | <b>g</b> ina | 0   | Ö    | *      |
| Solar                  | 13              | 0        | •               | ü     | 0           | 0                               | 0           | S      | 2        | 0 | 0     | Ø            | 0   | 6    | Æ      |
| Other                  | m               | 0        | 0               | •     | -           | 0                               | <b>4</b> 22 | 0      | 0        | 2 | 0     |              | *** | 0    | 2      |
| No Hot Water in Home   | 0               | •        | 0               | m     | 0           | 0                               | 0           | 0      | 0        | 0 | 0     | 0            | 0   | 0    | 4      |
| Not Asked              | 8               | <b>%</b> | •               | 5     | 5           | ÷                               | 0           | 0      | -        | 0 | 0     | 2            | e   | 0    | 8      |
| Don't Know             | 8               | ឧ        | 16              | n     | •••         | 0                               | 0           | 0      | 0        | 0 | 0     | 4            | e   | 0    | -      |
| Refused                | 0               | 0        | 0               | 0     | Ċ           | 0                               | 0           | 0      | Ö        | 0 | O     | 0            | 0   | 8    | 8      |
| TOTA                   | 10.621          | 365      | 1,436           | 4 063 | 60          | ţ                               | R           | ¥      |          | 5 |       | 1            | ¢   | •    | 20 C   |
|                        |                 |          |                 |       |             | 2                               |             | 2      |          |   |       |              |     | F    |        |

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#### cidented Data

|                        |             |                   |                 |             | Press       | PRIMARY SPACE HEATING RUEL TYPE | HEATING | REN   | 76               |       |        |        |       |          |           |
|------------------------|-------------|-------------------|-----------------|-------------|-------------|---------------------------------|---------|-------|------------------|-------|--------|--------|-------|----------|-----------|
| PRIMARY WATER-HEATING  |             | Natural           |                 | Wood or     | Properts or |                                 |         |       |                  |       |        | Ž      | Ĩ     |          |           |
| RUEL TYPE              | Electricity | Gas               | Fuel Oil Presto | Presto Logs | Butted Gas  | Kernene                         | 3       | Seter | Solar Geothermal |       | Ne Hat | Į      | ļ     | February | TOTA      |
| Electricity            | 1,522,726   | 286,941           | 308,265         | 524,090     | 22.354      | 4.014                           | 4,614   | ğ     | 8                | 172   | \$8    | 29.62  | 1     | 8        | 2712779   |
| Natural Gas            | 32,001      | 557,182           | 3,625           | 291.62      | 375         | 0                               | Ø       | 0     | 181              | 174   | 8      | 3,365  |       | 0        | 50 BS     |
| Fuel Oil               | 0           | 0                 | 6,190           | 8/1         | 0           | 0                               | 0       | 0     | 0                | 0     | 0      | 6      | 0     | 6        | 6.803     |
| Wood                   | 8           | 0                 | 5               | 5,941       | Ø           | 0                               | 0       | 0     | 0                | 0     | 0      | 0      | 0     | C        | 6718      |
| Propane or Bottled Gas | 3,137       | 992<br>992        | 8               | 14,710      | 24,066      | 8                               | 0       | Ş     | 0                | 8     | 0      | 3      | 0     | 0        | 3000      |
| Solar                  | 88          | 0                 | R               | 2,444       | 0           | 0                               | 0       | E     | 1921<br>1921     | 0     | Ö      | 0      | 6     | Ö        |           |
| Other                  | 51          | 0                 | 0               | 108         | 8           | 0                               | æ       | 0     | 0                | ġ     | 0      | 3      | R     | 0        | 1.256     |
| No Hot Water in Home   | 0           | 108               | 0               | 510         | 0           | 0                               | 0       | 0     | 0                | 0     | 0      | 0      | 0     | Ö        | 618       |
| Not Asked              | 63,121      | 907'6             | 8               | 1,367       | 1.138       | iyo                             | 0       | 0     | 191              | 0     | 0      | 54,728 | 1326  | 0        | 132 686   |
| Don't Know             | 1,081       | 4,080             | 6,749           | 88          | đ           | 0                               | 0       | 0     | 0                | 0     | 0      | 1,033  | 12    | 6        | 19.541    |
| Refused                | •           | 0                 | 0               | 0           | 0           | 0                               | 0       | 0     | 0                | 0     | Ø      | 0      | 0     | 0        | 0         |
| TOTAL                  | 1,629,745   | 1,629,745 858,134 | 326,196         | 572,866     | THE M       | 4,862                           | 112'S   | 1,54  | 1,005            | 8,363 | *      | 80.7 M | 2,407 | 8        | 3.548,800 |

PHINESSEPhane | Pacific Northwest Region Creatistic Volume F - Table 27 **Bonneutte Power Administrat** 

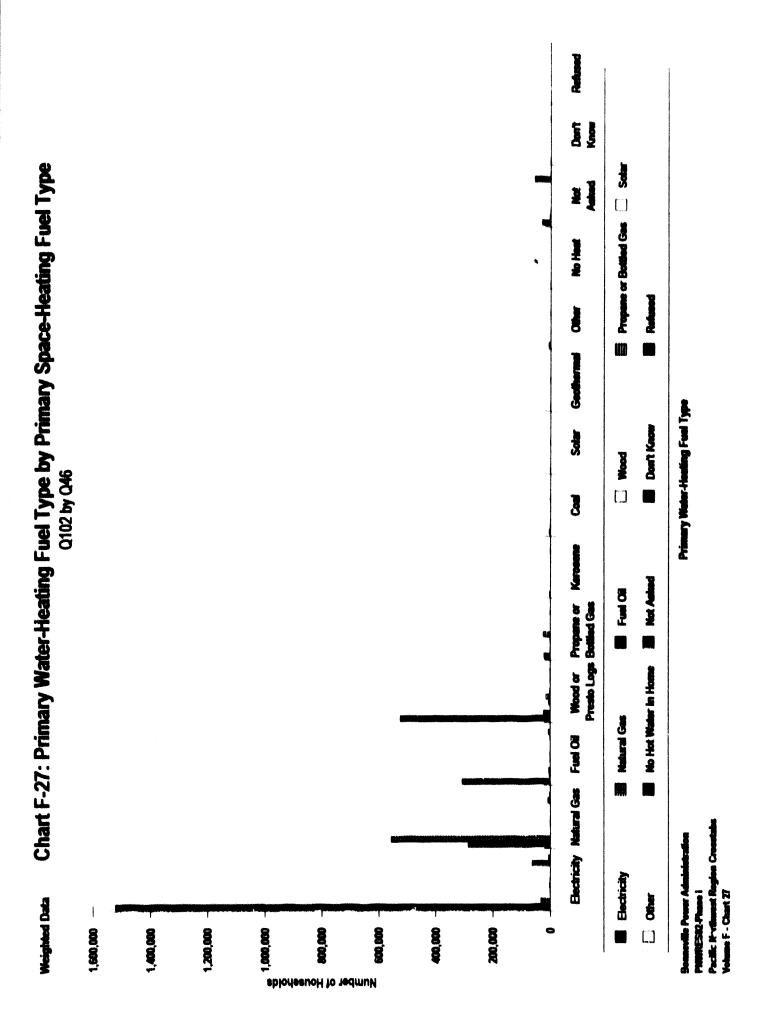


Table F-28: Household Income by Primary Space-Heating Fuel Type Q186, Q188, Q189 by Q46

#### Raw Data

|                                   |             |         |                   |            | PRIM        | PRIMARY SPACE-HEATING FUEL TYPE | <b><i><b>TEATING</b></i></b> | FUEL TY | PE         |          |         |          |       |         |        |
|-----------------------------------|-------------|---------|-------------------|------------|-------------|---------------------------------|------------------------------|---------|------------|----------|---------|----------|-------|---------|--------|
|                                   |             | Natural |                   | Wood or    | Propane or  |                                 |                              |         |            |          |         | Not      | Don't |         |        |
| HOUSEHOLD INCOME                  | Electricity | Gas     | Fuel Oil Presto I | sto Logs   | Bottled Gas | Kerosene                        | Coal                         | Solar   | Geothermal | Other    | No Heat | Asked    | Know  | Refused | TOTAL  |
| Below \$5.000                     | 268         | 65      | 26                | 8          | æ           | 0                               | 2                            | -       | -          | 0        | 0       | 8        | 0     | 0       | হ      |
| \$5,000  to < \$10,000            | 645         | 140     | 2                 | 221        | 28          | 2                               | 5                            | 2       | 0          | S        | 0       | 51       | -     | 0       | 1,164  |
| \$10,000 to < \$15,000            | 773         | 200     | 116               | 320        | 46          | -                               | e                            | 0       | -          | -        | 2       | 23       | 2     | 0       | 1,517  |
| \$15,000 to < \$23,000            | 775         | 180     | <b>8</b> 6        | 344        | 40          | 4                               | 2                            | 2       | 0          | 2        | 0       | 4        | 0     | 0       | 1,491  |
| \$20,00% < \$25,000               | 913         | 220     | 125               | 446        | 49          | -                               | e                            | -       | -          | 4        | 0       | ଛ        | e     | o       | 1,796  |
| \$25,000 to < \$30,000            | 1,081       | 325     | 121               | 541        | 43          | S                               | -                            | 7       | -          | 9        | 2       | 47       | 0     | 0       | 2,173  |
| \$30,000 to < \$40,000            | 1.461       | 453     | 217               | 81         | 49          | 5                               | ŝ                            | 2       | 0          | 7        | 0       | ଞ        | -     | 0       | 2,870  |
| \$40,000 to < \$50,000            | 88          | g       | 131               | 356        | 20          | 0                               | 0                            | -       | ũ          | <b>5</b> | 0       | 21       | 0     | 0       | 1,857  |
| \$50,000 to < \$60,000            | 630         | 195     | 73                | 182        | 12          | 0                               | 2                            | -       | 0          | 0        | 0       | 9        | 2     | 0       | 1,107  |
| <b>\$60.000 to &lt; \$80.000</b>  | 493         | 168     | <u> 2</u> 9       | 123        | 9           | 0                               | 2                            | -       | 0          | 2        | 0       | 6        |       | 0       | 861    |
| <b>\$80,000 to &lt; \$100,000</b> | 192         | 61      | 28                | \$         | 9           | 0                               | 0                            | 0       | 0          | -        | 0       | 7        | 0     | 0       | 347    |
| \$100.000 or More                 | 201         | 22      | g                 | R          | 4           | 0                               | 0                            | 0       | -          | 2        | 0       | e        | 0     | o       | 348    |
| Don't Know                        | 857         | 208     | 129               | 33         | 28          | 0                               | 6                            | 0       | 0          | 2        | 0       | 33       | ę     | 0       | 1,619  |
| Refused                           | 1,349       | 417     | 209               | <u>4</u> 8 | 4           | 2                               | -                            | ς       | 0          | თ        | 0       | <b>4</b> | 4     | -       | 2,529  |
| TOTAL                             | 10.621      | 3 053   | 1 426             | 4 093      | 379         | 18                              | R                            | 16      | ∞          | 8        | 4       | 677      | 17    | F       | 20,170 |
|                                   | 130,01      |         |                   |            |             |                                 |                              |         |            |          |         |          |       |         |        |

Bonneville Power Administration PNWRES92-Phase | Pacific Northwest Region Crosstabs Volume F - Table 28 

 Table F-28: Household Income by Primary Space-Heating Fuel Type

 Q186, Q188, Q189 by Q46

Weighted Data

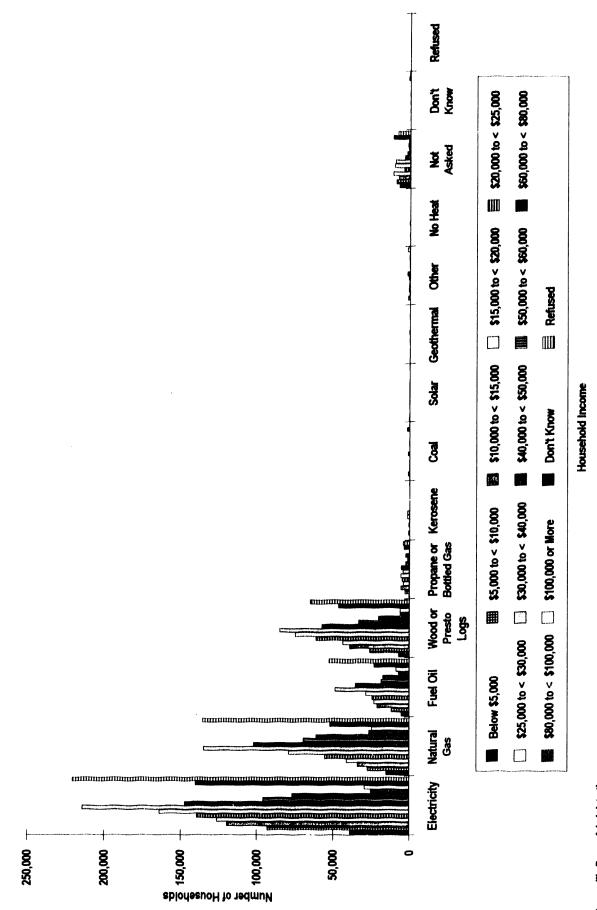
|                                 |             |         |                 |              | PRIM         | PRIMARY SPACE-HEATING FUEL TYPE | HEATING     | FUEL TY     | PE         |               |          |        |           | $\left  \right $ | ſ        |
|---------------------------------|-------------|---------|-----------------|--------------|--------------|---------------------------------|-------------|-------------|------------|---------------|----------|--------|-----------|------------------|----------|
|                                 |             | Natural |                 | Wood or      | Propane or   |                                 |             |             |            |               |          |        |           | T                |          |
| HOUSEHOLD INCOME                | Electricity | Gas     | Fuel Oil Prestn | Presto I ons | Rottlard Gae | Karaana                         | 1.2.2       |             | :          |               |          | N<br>N | Don't     |                  |          |
| Below \$5,000                   | 39 247      | 15 202  | 5 270           | 250-2        |              | Valuadile                       | 3           | - 1         | Geothermal | Other         | No Heat  | Asked  | Know Refu | Refused          | TOTA     |
| \$5 MM to < \$10 MM             | 01010       |         | 217'0           | 517'1        | 365          | 0                               | 8           | 415         | 181        | 0             | 0        | 7 232  | 6         | G                | 75.257   |
|                                 | 37,318      | 210,12  | 12,033          | 26,059       | 2.988        | 878                             | 1 103       | 17 <b>R</b> | c          | 1 340         |          |        | , 5       | 5                | 12.12    |
| 510,000  to  < 515,000          | 119,649     | 34,069  | 20.911          | 30 456       | 5 THE        | ç                               |             | 2           | ָּר נ      | <b>₩</b> 7'1  | >        | 202,2  | 8         | 0                | 174,349  |
| 515,000  to  < 520,000          | 126 238     | 41 183  | 23 043          |              | 001.0        | 8                               | 2           | -           | 15         | 142           | <u>8</u> | 7,734  | 212       | 0                | 228.275  |
| $$20\ 000\ to < $25\ 000$       | 130 351     | EE AEA  | 24,040          | 40,023       | 4,100        | 8                               | 109         | 157         | 0          | <b>8</b> 8    | 0        | 11,566 | 0         | 0                | 251 900  |
|                                 |             |         | 24,318          | 61,400       | 4,921        | 108                             | 1<br>3<br>3 | 2           | 15         | 642           | C        | 4 050  | 114       |                  |          |
|                                 | 103,014     | /8,829  | 28,561          | 74,761       | 5.814        | 1 507                           | æ           | 181         | 101        | 1             |          | 2000'1 | <u>t</u>  | 5                | 20,000   |
| <b>530,000 to &lt; \$40,000</b> | 214.099     | 134 701 | AR FAA          | BC 015       | 02.6.7       |                                 | 3           | 2           | 0          | 2             | Ş        | 10,38/ | 0         | 0                | 364,887  |
| \$40,000 to < \$50,000          | 147 121     | 101 870 | 26 460          |              | 4,210        | <b>1</b> ,000                   | 1,119       | 236         | 0          | 8 <u>9</u> 8  | 0        | 9,689  | g         | 0                | 500.622  |
|                                 | 06 007      | 010,101 | 204'00          | 907'10       | 5,621        | 0                               | 0           | 3           | 503        | 1.793         | 0        | 3646   | c         | C                | 262 240  |
|                                 | 170'05      | 200,60  | 18,490          | 33,438       | 2,646        | 0                               | 91          | 02          | C          | c             | · c      | 100    | , r       | > 0              |          |
| <b>560,000 to &lt; \$80,000</b> | 76,575      | 61.081  | 17.337          | 20 096       | 1 260        | . c                             | 100         | 2 4         |            | <b>&gt;</b> ; | >        | 7,100  | đ         | 5                | 666 777  |
| \$80,000 to < \$100,7           | 25,182      | 26.490  | CN2 7           | 6 377        | 007          | 2                               | ŝ,          | 8           | Ð          | 60            | 0        | 1233   | ଛ         | 0                | 178,054  |
| \$100 000 or More               | 20.477      | 74 676  | 9.070           | 2170         | 2,4/0        | 0                               | 0           | 0           | 0          | 2             | 0        | 1,629  | 0         | 0                | 69 456   |
|                                 | 174'07      | CCC'+7  | 0,0/9           | 0,2/0        | 281          | 0                               | 0           | 0           | 181        | 387           | c        | Nuc 1  | c         |                  |          |
| MOULT NIDOU                     | 140,243     | 52,059  | 23,107          | 46.622       | 3546         | c                               | 1 687       | ~           |            | 5 8           |          | 5      | 5         | 5                | 80.5     |
| Refused                         | 220.193     | 135 406 | 57 700          | AC 105       |              | , i                             | 8, 8        |             | >          | 2             | 0        | 11,451 | 1,064     | 0                | 279,825  |
|                                 |             |         | 061,30          | 8.3          | 4,230        | 76                              | žž          | 130         | 0          | 1,613         | C        | 8,088  | 580       | 8                | 488,644  |
| TOTAL                           | 1 629 745   | 858 124 | 376 105         | 57 966       |              |                                 |             |             |            |               |          |        |           | -                |          |
|                                 |             | 5       | 201 120         | 000 710      | 48,31/       | 4,892                           | 5,277       | 1,584       | 1.075      | 8.363         | 585      | 80 228 | 201 0     | 1                | 3 640 0M |
|                                 |             |         |                 |              |              |                                 |             |             |            |               |          |        |           |                  | 500.000  |

Bonneville Power Administration PNWRES92-Phase I Pacific Northwest Region Crosstabs Volume F - Table 28



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Q186, Q188, Q189 by Q46



Bonneville Power Administration PNWRES92-Phase I Pacific Northwest Region Crosstabs Volume F - Chart 28 Table F-29: Utility Type by Primary Space-Heating Fuel Type TYPE by Q46

#### Raw Data

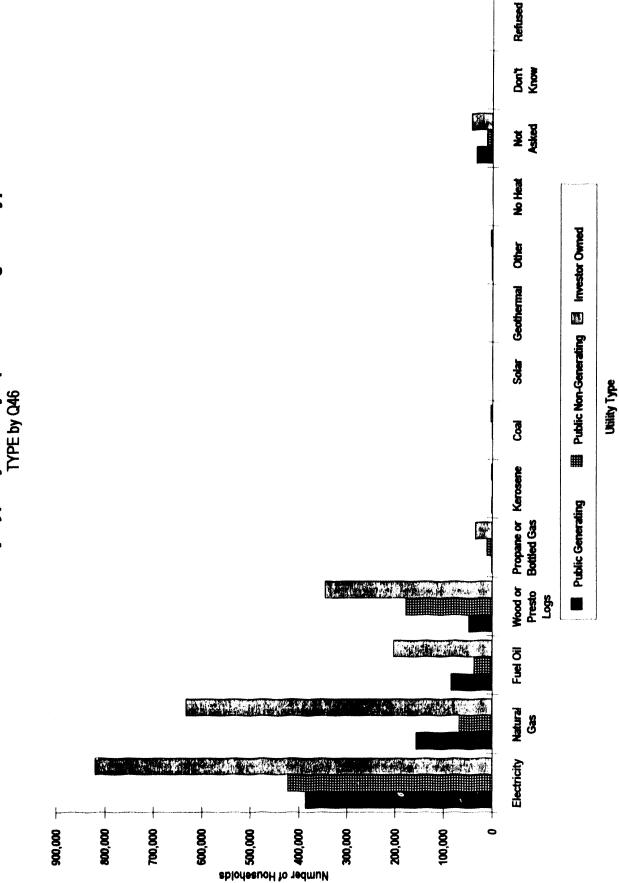
|                       |             |                |          |                        | PR                  | PRIMARY SPACE-HEATING FLIFL TYPF | EATING     |         | Ľ                                    |   |   |       |             |         | ſ      |
|-----------------------|-------------|----------------|----------|------------------------|---------------------|----------------------------------|------------|---------|--------------------------------------|---|---|-------|-------------|---------|--------|
|                       |             | <b>Istical</b> |          | - Land                 |                     |                                  |            |         |                                      |   |   |       |             |         |        |
|                       |             |                |          |                        | LINUA UN PUPPIDE OF |                                  |            |         |                                      |   |   | 3     | Your C      |         |        |
|                       | Electricity | Gas            | Fuel Oil | Fuel Oil Presto Logs E | lottled Ga          | s Kernsene                       | <b>Jea</b> | Solar C | Coal Solar Cardharmal Office No Unit | Į |   |       |             |         |        |
| Public Generation     | 3 956       | 730            | 376      |                        |                     |                                  | 8          | 3       |                                      | B |   | DONSY | Now Ketused | (enused | A IOI  |
|                       | 3           | 8              | 010      | カーす                    | 71                  | -                                | 0          | ~       | C                                    | ÷ | - | 107   | G           | Ī       | 202    |
| Public Non-Generating | 5335        | 1117           | 551      | 030 0                  |                     | ć                                | 8          | ۱.      |                                      |   | - | 101   | D           | -       | So'r   |
|                       | 2           |                | 3        | 2,003                  | 107                 | æ                                | R          | -       | r                                    | 8 | ~ | 170   | 7           |         | 10 Enc |
| Investor Owned        | 140         | 1,198          | 380      | Son<br>Son             | æ                   | "                                | ţ          | ¢       |                                      |   |   |       | -           | >       |        |
|                       |             |                |          | }                      |                     | r                                | 2          | r       | n                                    | 2 | • | 8     | •           | 0       | 4,035  |
| 7.7211                |             |                |          |                        | ĺ                   |                                  |            |         |                                      |   |   |       |             |         |        |
| 101AL                 | 10,621      | 3,053          | 1.426    | 4.093                  | 379                 | ¢.                               | 35         | 46      | •                                    | 5 | • |       | !           | ľ       |        |
|                       |             |                |          |                        |                     | 2                                | 3          | 2       | •                                    | R | • | 7     | 11          |         |        |

#### Weighted Data

|                       |             |                   |          |                                | PRIM               | PRIMARY SPACE-HEATING FIEL TYPE | <b>EATING F</b> |         | u                             |           |             |            |              | ſ           | ſ          |
|-----------------------|-------------|-------------------|----------|--------------------------------|--------------------|---------------------------------|-----------------|---------|-------------------------------|-----------|-------------|------------|--------------|-------------|------------|
|                       |             | Natural           |          | Wood or                        | food or Proname or |                                 |                 |         |                               |           |             |            |              | Ι           |            |
| UTILITY TYPE          | Electricity | Gas               | Fuel Oil | Fuel Oil Presto Logs Bottled G | Bottled Gas        | Kerosene                        | Crai            | Solar G | Solar Genthermal Other Matter | ł         |             |            | Lion         |             |            |
| Public Generating     | 386.520     | 386 520 156 825   | R5 141   | A9 970                         | 1110               |                                 |                 |         |                               | E S       |             | DONEY      | MONY         | NOW KERISED |            |
|                       |             |                   | 1        | 6/0'0H                         | 7,111              | 970'7                           | 0               | 8       | 0                             | 2,146     | ଞ           | 33 450     | 875          | 8           | 718 158    |
| Public Non-Generating | 422,552     | 68,175            | 37,414   | 178,296                        | 11 330             | 341                             | 1 266           | 782     | Ę                             | 1001      |             |            |              | 3 '         | 2          |
| Impeter Duned         | 000 673     | 101 003           |          | 0 1 L 0                        |                    | 5                               | 200             | 3       | 711                           | t 55      | <b>1</b>    | 12,003     | 2000         | 0           | 735,166    |
|                       | C 10'070    | 5.00              | 203,041  | 180,050                        | 34,810             | 2,524                           | 3,911           | 741     | 88<br>88                      | 4,253     | 415         | 43,826     | <b>7</b> 96  | 0           | 2,095,485  |
| TOTAL                 |             |                   |          |                                |                    |                                 |                 |         |                               |           |             |            |              |             |            |
| IUL                   | 1,629,145   | 1,629,745 858,134 | 326,196  | 572,866                        | 48,317             | 4,892                           | 5.277           | 1.584   | 1 075                         | 075 8 2K1 | <b>SA</b> S | 585 80 778 | <b>111</b> C |             | 2 5 40 000 |
|                       |             |                   |          |                                |                    |                                 | L               |         |                               |           | 3           | 33         | 1            | 8           |            |
|                       |             |                   |          |                                |                    |                                 |                 |         |                               |           |             |            |              |             |            |

Bonneville Power Administration PMWRES92-Phase i Pacific Northwest Region Crosstabs Volume F - Table 29

Bonneville Power Administration PNWRES92-Phase I Pacific Northwest Region Crosstabs Volume F - Chart 20



Weighted Data

Chart F-29: Utility Type by Primary Space-Heating Fuel Type TYPE by Q46 Table F-30: Space-Heating Fuels: Systems and Equipment by Primary Space-Heating Fuel Type HEAT\_EQP by Q46

å

|               |                               |             |            |              |                | PRIM               | PRIMARY SPACE-HEATING FUEL TYPE | HEATING | FIEL T | Ē          |         |         |       |      |         |       |
|---------------|-------------------------------|-------------|------------|--------------|----------------|--------------------|---------------------------------|---------|--------|------------|---------|---------|-------|------|---------|-------|
| SPACE-HEATING |                               |             | Natural    |              | Wood or        | Propane or         |                                 |         |        |            |         |         | Ž     | Dont | Τ       |       |
| FUELS         |                               | Electricity | Gas        | Fuel Oil Pre | sto Logs       | <b>Bottled Gas</b> | Kerosene                        | 8       | Solar  | Geothermal | Other N | No Heat | Asked |      | Refused | TOTA  |
| Multi-Unit:   |                               | 0           | 0          | 0            | 0              | 0                  | 0                               | 0       | 0      | 0          | 0       | 0       | 38    | 0    | 10      | Ř     |
|               | Central Heat - Several Units  | 0           | 0          | 0            | 0              | 0                  | 0                               | 0       | 0      | 0          | 0       | 0       | 3     | 0    | 0       | 3     |
|               | Unit Not Heated               | 0           | 0          | 0            | 0              | 0                  | 0                               | 0       | 0      | 0          | 0       | 0       | 11    | . 0  | Ö       | -     |
| Fossil:       | Steam or Hot Water Radiators  | 0           | <b>8</b> 2 | ß            | 0              | ន                  | -                               | 0       | 0      | 0          | 0       | 0       | 0     | 6    | ta      | 28    |
|               | Wall, Floor, or Certing Units | 0           | 249        | 8            | 0              | 15<br>1            | 2                               | -       | 0      |            | 0       |         |       |      | C       | 9     |
|               | Portable I Yas                | 0           | 10         | 7            | 0              | 17                 | 7                               | -       | 0      | 0          | 0       |         | - c   |      | ē       | -     |
|               | Central Furnace               | 0           | 2,564      | 1,215        | 0              | <b>36</b>          | 2                               | 8       | 0      |            |         | 0       | 0     |      | 6       |       |
|               | Other                         | 0           | 98         | <b>5</b> 4   | 0              | 21                 | 9                               | 9       | 0      | 0          | 0       | 0       | 0     | 0    | 6       | 112   |
| Electricity:  | Heat Pump                     | 1,160       | 0          | 0            | 0              | 0                  | 0                               | 0       | 0      | 0          | 0       | 0       | 0     | 0    | 6       | 1 160 |
|               | Portable Room Heaters         | 210         | 0          | 0            | 0              | 0                  | 0                               | 0       | 0      | 0          | 0       | 0       | 0     | 0    | 0       | 210   |
|               | Radiant Panels                | 1.722       | 0          | 0            | 0              | 0                  | 0                               | 0       | 0      | 0          | 0       | 0       | 0     | 0    | 0       | 12    |
|               | Steam or Hot Water Radiators  | 99          | 0          | 0            | 0              | 0                  | 0                               | 0       | 0      | 0          | 0       | 0       | 0     | 0    | 0       | 1 38  |
|               | Central Furnace               | 3,505       | 0          | 0            | 0              | 0                  | 0                               | 0       | 0      | 0          | 0       | 0       | 0     | 0    | 0       | 3.505 |
|               | Baseboard or Wall Units       | 3,853       | 0          | ¢            | 0              | 0                  | 0                               | 0       | 0      | 0          | 0       | 0       | 0     | 0    | ō       | 3.853 |
|               | Other                         | 37          | 0          | 0            | 0              | 0                  | 0                               | 0       | 0      | 0          | 0       | 0       | 0     | 0    | 0       | E     |
| :pood:        | Free-Standing Stove           | 0           | 0          | 0            | 1.048<br>1.048 | 0                  | 0                               | 0       | 0      | 0          | 0       | 0       | 0     | 0    | 6       | 3.048 |
|               | Free-Standing Pellet Stove    | 0           | 0          | 0            | 792            | 0                  | 0                               | 0       | 0      | 0          | 0       | 0       | 0     | 0    | 0       | R     |
|               | Central Furnace               | 0           | 0          | 0            | 187            | 0                  | 0                               | 0       | c      | 0          | 0       | 0       | 0     | 0    | 0       | 187   |
|               | Fireplace with an Insert      | 0           | 0          | 0            | 497            | 0                  | 0                               | 0       | 0      | 0          | 0       | 0       | 0     | 0    | G       | 191   |
|               | Fireplace without an Insert   | 0           | 0          | 0            | 35             | 0                  | 0                               | 0       | 0      | 0          | 0       | 0       | 0     | 0    | 0       | 3     |
| Other:        | Solar                         | 0           | 0          | 0            | 0              | 0                  | 0                               | 0       | 16     | 0          | 0       | 0       | 0     | 0    | 6       | 16    |
|               | Geothermal                    | 0           | 0          | 0            | 0              | 0                  | 0                               | 0       | 0      | 80         | 0       | 0       | 0     | 0    | 0       |       |
|               | Other                         | 0           | 0          | 0            | 0              | 0                  | 0                               | 0       | 0      | 0          | 8       | 0       | 0     | 0    | ō       | 8     |
|               | No Heat                       | 0           | 0          | 0            | 0              | 0                  | 0                               | c       | 0      | 0          | 0       | 4       | 0     | 0    | 0       | -     |
|               | Don't Know                    | 67          | 52         | 18           | 13             | 9                  | 0                               | -       | 0      | 0          | 0       | 0       | ສ     | 11   | 5       | 111   |
|               | Refused                       |             | *-         | 0            | 0              | 0                  | 0                               | 0       | 0      | 0          | 0       | 0       | 0     | 0    | *-      | •••   |
|               |                               |             |            |              |                |                    |                                 |         |        |            |         |         |       |      |         |       |

Bonneville Power Administration PNNRESR2-Phase I Pacfic Morthwest Region Crosstalus Volume F - Table 30

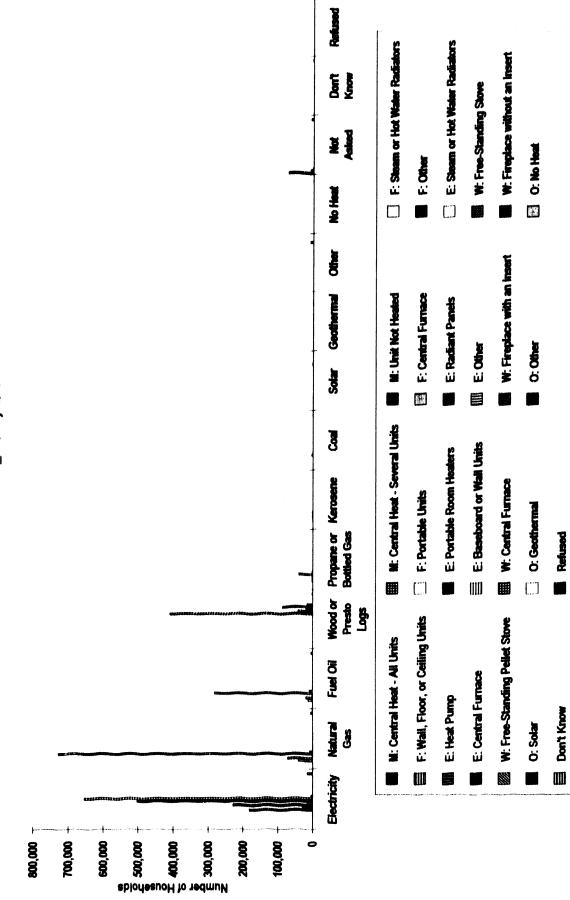
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Table F-30: Space-Heating Fuels: Systems and Equipment by Primary Space-Heating Fuel Type HEAT\_EQP by Q46

Weighted Data

|               |                               |                    |            |              |             |                    |              |       |       | ĥ          |         |             |        |         | -      |           |
|---------------|-------------------------------|--------------------|------------|--------------|-------------|--------------------|--------------|-------|-------|------------|---------|-------------|--------|---------|--------|-----------|
| SPACE-HEATING |                               |                    | Naturai    |              | Wood or     | Propane or         |              |       |       |            |         |             | ¥      | Don     | Γ      |           |
| FUELS:        | FUELS: SYSTEMS AND EQUIPMENT  | Electricity        | Gas        | Fuel Oil Pre | Presto Logs | <b>Bottled Gas</b> | Kerosene     | 3     | Solar | Geothermal | Other N | No Heat     | Asked  | Know Re | positi | TOTA      |
| Mutti-Unit:   | Central Heat - All Units      | 0                  | 0          | 0            | 0           | 0                  | 0            | 0     | 0     | 0          | 0       | 0           | 72,746 | 0       | 6      | 7274      |
|               | Central Heat - Several Units  | •                  | 0          | 0            | 0           | 0                  | 0            | 0     | 0     | 0          | 0       | 0           | 155'1  | 0       | 0      | 1.931     |
|               | Unit Not Heated               | 0                  | 0          | 0            | 0           | 0                  | 0            | 0     | 0     | 0          | 0       | 0           | 1,856  | 0       | 0      | 1,856     |
| Fossil:       |                               | 0                  | 41,213     | 12,022       | 0           | 2,287              | 8            | 0     | 0     | 0          | 0       | 0           | 0      | 0       | 6      | 55,55     |
|               | Wall, Floor, or Ceiling Units | 0                  | 72,842     | 18,197       | 0           | 2,148              | <b>19</b> 00 | 3     | 0     | 0          | 0       | 0           | 0      | 0       | 0      | 92.611    |
|               | Partable Units                | 0                  | 1,282      | 912          | 0           | 2,034              | 1,506        | Q.    | 0     | 0          | 0       | 0           | 0      | 0       | 0      | 5.876     |
|               | Central Furnace               | 0                  | 727,870    | 281,344      | 0           | 40,186             | 878          | 3,990 | 0     | 0          | 0       | 0           | 0      | 0       | 0      | 1.054.267 |
|               | Other                         | 0                  | 8,007      | 8,873        | 0           | 1,468              | 2,103        | 760   | 0     | 0          | 0       | 0           | 0      | 0       | 0      | 21.211    |
| Electricity.  | Heat Pump                     | 181,506            | 0          | 0            | 0           | 0                  | 0            | 0     | 0     | 0          | 0       | 0           | 0      | 0       | 6      | 181,506   |
|               | Portable Room Heaters         | 29,273             | 0          | 0            | 0           | 0                  | 0            | 0     | 0     | 0          | 0       | 0           | 0      | 0       | 0      | ET EZ     |
|               | Radiant Panels                | 228,568            | 0          | 0            | 0           | 0                  | 0            | 0     | 0     | 0          | 0       | 0           | 0      | 0       | 0      | 228,568   |
|               | Steam or Hot Water Radiators  | 14.732             | 0          | 0            | 0           | 0                  | 0            | 0     | 0     | 0          | 0       | 0           | 0      | 0       | 0      | 14720     |
|               | Central Furnace               | 503,028            | 0          | 0            | 0           | 0                  | 0            | 0     | 0     | 0          | 0       | 0           | 0      | 0       | ö      | 503,021   |
|               | Baseboard or Wall Units       | 653,271            | 0          | 0            | 0           | 0                  | 0            | 0     | 0     | 0          | 0       | 0           | 0      | 0       | 0      | 653,271   |
|               | Other                         | 4,641              | 0          | 0            | 0           | 0                  | 0            | 0     | 0     | 0          | 0       | 0           | 0      | 0       | 0      | AGH       |
| Wood:         | Free-Standing Stove           | 0                  | 0          | 0            | 409,395     | 0                  | 0            | 0     | 0     | 0          | 0       | 0           | 0      | 0       | 6      | 965, 804  |
|               | Free-Standing Pellet Stove    | 0                  | 0          | 0            | 41,626      | 0                  | 0            | 0     | 0     | 0          | 0       | 0           | 0      | 0       | 0      | H,626     |
|               | Central Furnace               | 0                  | 0          | 0            | 18,426      | 0                  | 0            | 0     | 0     | 0          | 0       | 0           | 0      | 0       | 0      | 18,428    |
|               | Fireplace with an insert      | •                  | 0          | 0            | 86,541      | 0                  | 0            | 0     | 0     | 0          | 0       | 0           | 0      | 0       | 0      | 86,541    |
|               | Fireplace without an Insert   | 0                  | 0          | 0            | 15,511      | 0                  | 0            | 0     | 0     | 0          | 0       | 0           | 0      | 0       | 0      | 15,511    |
| Other:        | Solar                         | 0                  | 0          | 0            | 0           | 0                  | 0            | 0     | 1,584 | 0          | 0       | 0           | 0      | 0       | 0      | 1.5       |
|               | Geothermal                    | 0                  | 0          | 0            | 0           | 0                  | 0            | 0     | 0     | 1,075      | 0       | 0           | 0      | 0       | 0      | 1,075     |
|               | Other                         | 0                  | 0          | 0            | 0           | 0                  | 0            | 0     | 0     | 0          | 8,363   | 0           | 0      | 0       | 0      | 8,363     |
|               | No Heat                       | 0                  | 0          | 0            | 0           | 0                  | 0            | 0     | 0     | 0          | 0       | <b>9</b> 85 | 0      | 0       | 0      | 33        |
|               | Don't Know                    | 14,696             | 5,956      | 4,848        | 1,367       | 191                | 0            | æ     | 0     | 0          | 0       | 0           | 6,799  | 2,407   | 0      | 36,56     |
|               | Refused                       | 8                  | <b>3</b> 6 | 0            | 0           | 0                  | 0            | 0     | 0     | 0          | 0       | 0           | 0      | Ð       | 8      | 1.8       |
|               |                               | 1 CT 836 347 0C3 1 | 010 101    |              |             |                    |              |       |       |            |         |             |        |         | 1      |           |

Bonneville Power Administration PNNRCSQ2 Phase | Pacific Northwest Region Crosstabs Volume F - Table 30 Chart F-30: Space-Heating Fuels: Systems and Equipment by Primary Space-Heating Fuel Type HEAT\_EOP by 046 Weighted Data



Pacific Northwest Region Crosstabs Volume F - Chart 30 **Bonneville Power Administration** PNINCES02-Phase |

Space-Heating Fuels: Systems and Equipment

 Table F-31: Household income by Primary Water-Heating Fuel Type

 Q186, Q188, Q189 by Q102

Raw Data

|                         |             |             |          | 8    | PRIMARY WATER HEATING FUEL TYPE | EATING FUE | L TYPE   |              |            |      |         |       |
|-------------------------|-------------|-------------|----------|------|---------------------------------|------------|----------|--------------|------------|------|---------|-------|
|                         |             |             |          |      | Propane or                      |            | 2        | No Hot Water | ¥          | Dong |         |       |
| HOUSEHOLD INCOME        | Electricity | Natural Gas | Fuel Oil | DooW | <b>Bottled Gas</b>              | Solar      | Other    | In Home      | Asked      | Know | Refused | TOTAL |
| Below \$5,000           | 378         | 77          | -        | 9    | Q                               | 7          | 0        | -            | ន          | 2    | 0       | 161   |
| \$5,000 to < \$10,000   | 93 <b>4</b> | 25          | 2        | 9    | 24                              | -          | 0        | 0            | <b>8</b> 5 | 11   | 0       | 1,164 |
| \$10,000 to < \$15,000  | 1,243       | 131         | 5        | 80   | 8                               | 4          | -        | 0            | 8          | 6    | 0       | 1,517 |
| \$15,000 to < \$20,000  | 1,260       | 12          | •••      | 2    | 92                              | -          | e        | -            | 2          | S    | Ð       | 1.481 |
| \$20,000 to < \$25,000  | 1,553       | 139         | 0        | ŝ    | 46                              | •          | •        | 0            | <b>\$</b>  | 80   | 0       | 1,796 |
| \$25,000 to < \$30,000  | 1,831       | 217         | en       | 9    | 31                              | 2          | 0        | •            | 11         | ŝ    | 0       | 2172  |
| \$30,000 to < \$40,000  | 2,404       | 363         | e        | 9    | 9                               | 4          | 2        | 0            | 23         | 7    | 0       | 2,870 |
| \$40,000 to < \$50,000  | 1,532       | 261         | 2        | 5    | 83                              | 7          | ***      | 0            | 8          | 4    | 0       | 1.857 |
| \$50,000 to < \$60,000  | 911         | 151         | ę        | e    | 15                              | 4          | 0        | 0            | <b>16</b>  | 4    | 0       | 1,107 |
| \$60,000 to < \$00,000  | 687         | 143         | 2        | 2    | 7                               | 9          | 0        | 0            | 11         | m    | 0       | 961   |
| \$80,000 to < \$100,000 | 212         | ន           | -        | •••  | 4                               | 0          | 0        | 0            | 5          | •••  | 0       | 58    |
| \$100,000 ar Mare       | 206         | 8           | 0        | 0    | 9                               | <b>9</b>   | 0        | 0            | 4          | 2    | 0       | 348   |
| Don't Know              | 1,346       | 142         | 0        | 7    | 8                               | -          | 0        | 0            | 5          | 16   | 0       | 1.619 |
| Refused                 | 2,118       | <b>58</b> 1 | 1        | 13   | ន                               | n          | 2        | -            | 8          | 13   | 0       | 2,529 |
| TOTAL                   | 16 725      | 2 188       | æ        | 77   | 32                              | 12         | <b>P</b> |              | 53         | 2    | e       | 20170 |
|                         | 312         | 8.4         | 8        | 2    | 8                               | ;          | 2        |              | 8          | 8    | 5       |       |

Boomeettle Power Administration PHNNGESR2-Phase | Pacific Northemest Region Crosstabs Volume F - Table 31 Table F-31: Household Income by Primary Water-Heating Fuel Type Q186, Q188, Q189 by Q102

Weighted Data

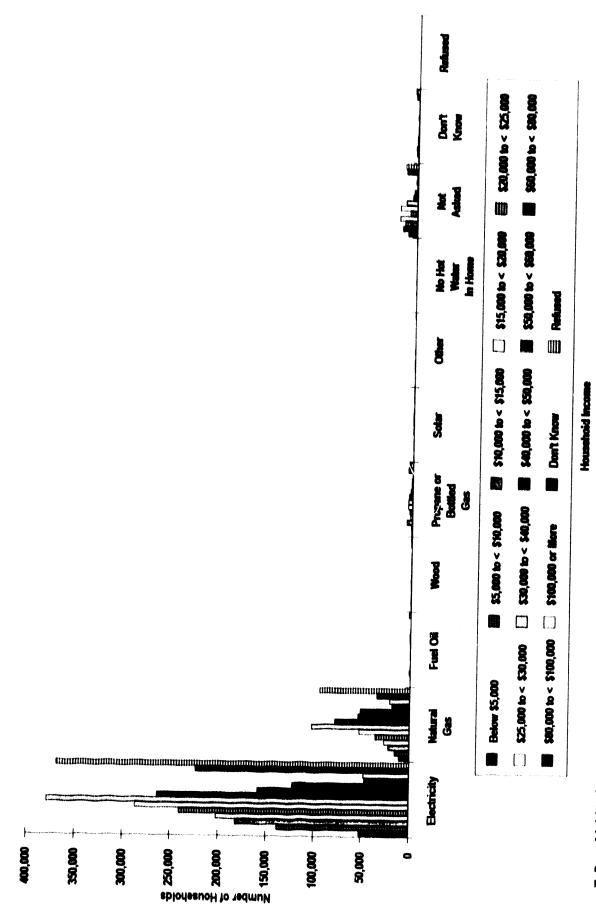
|                         |             |             |  | PR           | PRIMARY WATER-H    | ATER-HEATING FUEL TYPE | LTYPE       |              |         |            |         |           |
|-------------------------|-------------|-------------|--|--------------|--------------------|------------------------|-------------|--------------|---------|------------|---------|-----------|
|                         |             |             |  |              | Propane or         |                        | ž           | No Hot Water | Not     | Dont       |         |           |
| HOUSEHOLD INCOME        | Electricity | Natural Cas | Fuel Oil   | Nood         | <b>Bottled Gas</b> | Solar                  | Other       | In Home      | Ashed   | Know       | Refused | TOTA      |
| Below \$5,000           | 51,833      | 11,119      | 3  | 238          | 1,107              | 524                    | 0           | 8            | 9,588   | 198        | 0       | 75,357    |
| \$5,000 to < \$10,000   | 138,457     | 15,721      | <b>B</b><br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B | 548          | 1,502              | ភ                      | 0           | 0            | 15,339  | 2,056      | 0       | enc. MI   |
| \$10,000 to < \$15,000  | 182,033     | 22,313      | 1,363  | 35           | 6,216              | 461                    | 2           | 0            | 12,980  | 2,280      | 0       | 212,822   |
| \$15,000 to < \$20,000  | 201,955     | 26,750      | g  | 151          | 2,286              | ğ                      | <b>1</b> 98 | æ            | 18,351  | 1,405      | 0       | 251,900   |
| \$20,000 to < \$25,000  | 240,952     | 36,405      | 0  | ğ            | 3,320              | 8                      | 415         | •            | 1534    | 1,608      | 0       | 200,002   |
| \$25,000 to < \$30,000  | 286,514     | 52,643      | 168  | <b>8</b> 2   | 4,901              | 878                    | 0           | <b>5</b>     | 18,153  | ž          | 0       | 364,867   |
| \$30,000 to < \$40,000  | 379,044     | 102,449     | 376  | 83           | 4,711              | 50                     | 88<br>88    | 0            | 11,954  | <b>1</b> 8 | 0       | 500,622   |
| \$40,000 to < \$50,000  | 263,793     | 78,324      | 212  | ĝ            | 4,162              | 680                    | 15          | 0            | 5,346   | \$         | 0       | 353,319   |
| \$50,000 to < \$60,000  | 158,824     | 53,992      | 846  | 824          | 2,487              | 618                    | 0           | 0            | 3,962   | 1,191      | 0       | 222.330   |
| \$60,000 to < \$80,000  | 122,364     | 51,355      | 1,000  | 9 <u>5</u> 2 | 1,023              | 162                    | 0           | 0            | g       | 8          | 0       | 170.054   |
| \$80,000 to < \$100,000 | 46,585      | 18,545      | 142  | g            | 1,365              | 0                      | 0           | 0            | 2,154   | æ          | 0       | 69,456    |
| \$100,000 or More       | 41,677      | 21,159      | 0  | 0            | 20 <b>4</b><br>704 | 181                    | 0           | 0            | 1,537   | 210        | 0       | 7,169     |
| Dan't Know              | 223,676     | 34,906      | 0  | 814          | 5,074              | 181                    | 0           | 0            | 11,936  | 3,159      | 0       | 229,612   |
| Refused                 | 110,000     | 94,728      | 1,980  | 1,157        | 4,101              | 510                    | 138         | ¥            | 12,941  | 3,877      | 0       | 488,644   |
| TOTAL                   | 2712,173    | 620,496     | 6,843  | 6,718        | 43,059             | 4,863                  | 1,206       | 613          | 132,686 | 19,541     | 6       | 3,548,809 |

Bouweithe Power Administration PHINTCSR2-Phase 1 Pactic Northwest Rogion Crosstabs Volume F - Table 31

l

Weighted Data

### Chart F-31: Household Income by Primary Water-Heating Fuel Type Q186, Q188, Q189 by Q102



Bonneille Pour Administration PMMCSR2-Please | Pacific Northwest Rayton Croastab Volume F - Chart 31 Table F-32: Utility Type by Primary Water-Heating Fuel Type TYPE by Q102

#### Raw Data

|                       |            |                       |            |      | PREMARY WATER-HEATING FLEL TYPE | EATING RUE                               | HTTE |             |     |            |    |   |
|-----------------------|------------|-----------------------|------------|------|---------------------------------|--|------|-------------|-----|------------|----|---|
|                       |            |                       |            |      | Properte or                     |  |      | No Hot When | ¥   | <b>Ted</b> | I  |   |
|                       | Bechricity | Bechicity Natural Gas | Fuel Oil   | Nood | Buffled Ges                     | la l |      | in Henne    | Į   | Ĭ          | ]  |   |
| Public Generating     | 4,717      | 83                    | <b>o</b>   | •    | 21                              |  | -    |             | 205 | K          | la |   |
| Profic Non-Generating | 050'6      | Ē                     | <b>t</b> 5 | 8    | 268                             | <b>t</b>                                 | -    |             |     | 8          |    |   |
| Investor Owned        | 2,928      | <b>992</b>            | 9          | 60   | μ                               | 11                                       | 2    |             | 12  | 8          | 00 | 8 |
|                       |            |                       |            |      |                                 |  |      |             |     |            |    |   |
| IOIA                  | 16/20      | 2188                  | R          | 2    | 38                              | Л  | 2    | -           | 3   | 8          | ð  |   |
|                       |            |                       |            |      |                                 |  |      |             |     |            |    |   |

#### Weighhed Data

|                       |               |         |       | E     | LARY WATER H | EATING FUEL TYPE | Here and the second sec |               |         |             |   | Γ        |
|-----------------------|---------------|---------|-------|-------|--------------|------------------|--|---------------|---------|-------------|---|----------|
|                       |               |         |       |       | Properte or  |                  |  | to Hat Winter | 3       | trad        | T |          |
|                       | Bectricity    | į       |       | Mond  | Buttled Cas  | Seter            |  | in Home       | Į       |             |   | TURM     |
| Public Generaling     | 543,108       | 112,718 | 2,006 | 1.028 | 2,750        | 308              | 8  | 0             | 20 02   | 6 <b>16</b> | e |          |
| Public Non-Generaling | 650,216       | 47,511  | 1,061 | 3,367 | 12,029       | 1,478            | 8  | 7862          | 16 197  | 200         | e |          |
| Investor Owned        | 1,519,455     | 460,266 | 3,006 | 1,003 | 28,280       | 3,104            | 141  | 8             | 80,38   | 11,297      | 6 | 2005.005 |
|                       |               |         |       |       |              |                  |  |               |         |             |   |          |
|                       | <i>SV2</i> V2 |         |       | 6718  | 13,059       |                  | 1,206  | <b>2</b> 5    | 122,005 | 19.541      | ð | 354,000  |
|                       |               |         |       |       |              |                  |  |               |         |             |   |          |

Bonnettle Power Administration Pritterstit: Power I Pacific Hardword Rugion Constitute Volume F - Table 22

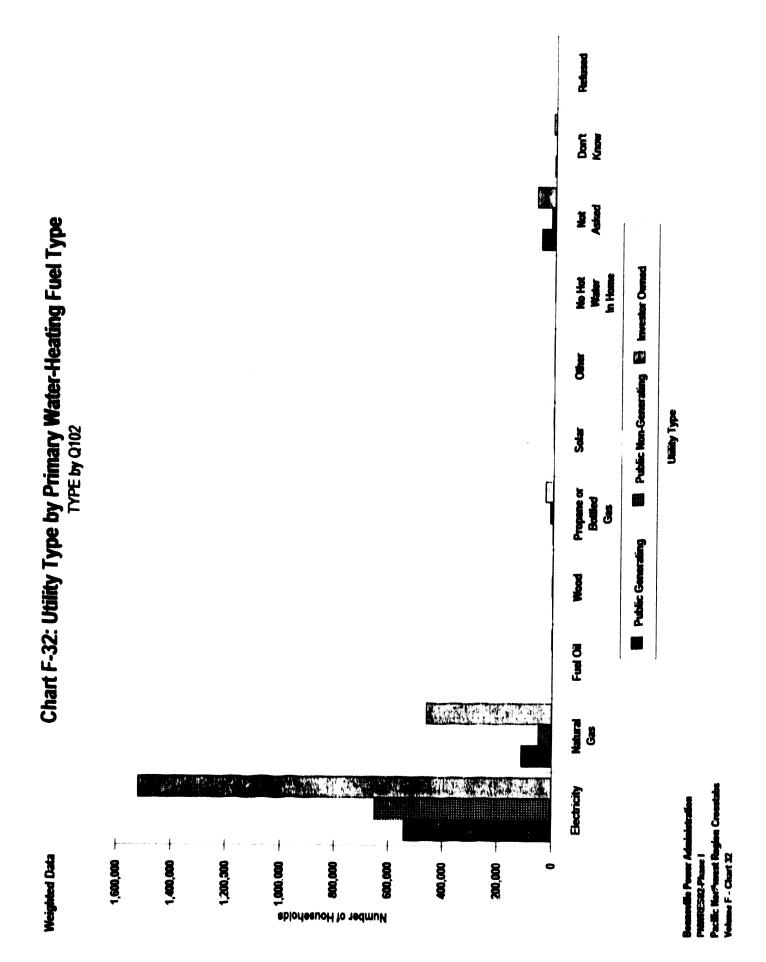


Table F-33: Space-Heating Fuels: Systems and Equipment by Primary Water-Heating Fuel Type HEAT\_EQP by 0102

Raw Data

| SPACE-HEATTWG<br>SPACE-HEATTWG<br>FIELS: SYSTERIS: AND ECURPANENT<br>India Unit.<br>Central Heat - Al Units<br>Central Heat - Al Units<br>Portable Locs, or Celling Units<br>Portable Locs, or Celling Units<br>Portable Locs, or Celling Units<br>Portable Locs, or Celling Units<br>Portable Room Headers<br>Readiant Parets<br>Readiant Parets<br>R |               |             |          |     |             |               |       |              |              |      |          |        |
|--|---------------|-------------|----------|-----|-------------|---------------|-------|--------------|--------------|------|----------|--------|
| (A)  |               |             |          |     | Propane or  |               | ž     | to Hot Water | ter<br>K     | Cont |          | ****   |
|  | DIT Bechicity | Natural Cas | Fuel Oil | Nod | Buttled Gas | Name of State | Other | In Home      | Į            | Kaow | Referred | TOTAL  |
|  | 111           | 11          | 2        | 0   | -           | 0             | -     | 0            | 219          | m    | 0        | 20     |
|  | 22            | -           | 0        | 0   | 0           | 0             | 0     | 0            | 12           | 0    | ō        | 3      |
|  | 80            | 0           | 0        | 0   | Ð           | 0             | 0     | 0            | m            | 0    | 0        | Ŧ      |
|  | tors 115      | 108<br>1    | 1        | 0   | 12          | -             | 0     | 0            | 4            | 2    | 0        |        |
|  | 500<br>500    | 121         | m        | 0   | 7           | 0             | 0     | 0            | 2            | ŝ    | ð        | 2      |
|  | 8             | 4           | 0        | o   | ŝ           | 0             | 0     | 0            | ***          | 0    | ö        | Q      |
|  | 2,262         | 1,635       | t5       | 0   | 136         | e             | 2     | •            | <b>R</b> 3   | 2    | 0        | A 105  |
|  | 8             | 5           | 0        | 2   | 60          | 0             | 0     | 0            | m            | фи.  | 0        | 121    |
|  | 1,114         | ਲ           | 0        | 2   |             | 4             | 2     | 0            | G            | 0    | ō        | 1, 166 |
|  | 11            | 9           | 0        | *   | 12          | 2             | 0     | 0            | o            | m    | 0        | 22     |
|  | 1.622         | 11          | 0        | *** | 4           | 4             | 0     | 0            | 8            | σ    | 0        | 172    |
|  | ators 60      | 2           | C        | 0   | 0           | 0             | 0     | 0            | 2            | 2    | 0        | 8      |
|  | 3,419         | 4           | 0        | 2   | 1           | 2             | 0     | 0            | 12           | 2    | 6        | 3365   |
|  | 3,574         | 8           | 0        | -   | •0          | <b>Q</b> ine  | 1     | 0            | 217          | 5    | 0        | 3,853  |
|  | 8             | •           | 0        | 0   | o           | 0             | 0     | 0            | 0            | 0    | 0        | A      |
|  | 2,758         | ន           | 0        | 8   | 52<br>25    |               | 0     | 2            | ð            | •    | 6        | 3.048  |
|  | 520<br>220    | 7           | -        | 2   | <b>*</b>    | -             | Ö     | 0            | <b>e</b> ine | •    | O        | Å      |
|  | Ē             | 4           | 0        | 1   | e           | ***           | 0     | 0            | 0            | O    | 6        | 167    |
|  | <b>3</b>      | 8           | -        | e   | 9           | m             | ••••  | 0            | 4            | •~~  | 0        | 19     |
|  | t 78          | 2           | O        | 0   | m           | 0             | 0     | 0            | ***          | Ð    | o        | 2      |
| Geothermal<br>Other<br>No Heart<br>Den't Know<br>Refused   | 10            | 0           | 0        | 0   | -           | 5             | 0     | 0            | 0            | 0    | 6        | 16     |
| Other<br>No Heat<br>Dan't Know<br>Refused  | 4             | •           | •        | 0   | 0           | 2             | 0     | 0            | *-           | 8    | 0        | •      |
| No Heat<br>Don't Know<br>Refused   | 4             | •           | 0        | 0   | •••         | 0             | 64    | 0            | 0            | 0    | 0        | 8      |
| Dan't Know<br>Refused  | 3             | 1           | 0        | 0   | 0           | 0             | 0     | 0            | 0            | 0    | 6        | •      |
| Refused  | 115           | 11          |          | •   | \$          | 0             | -     |              | R            | 16   | 0        | th     |
|  | 2             | <b>4</b> ~~ | 0        | 0   | 0           | 0             | 0     | 0            | 0            | 8    | 0        | M      |
| TOTA   | 16,735        | 2,188       | R        | Z   | 36          | 37            | 9     | -            | 33           | 8    | 6        | 20,170 |

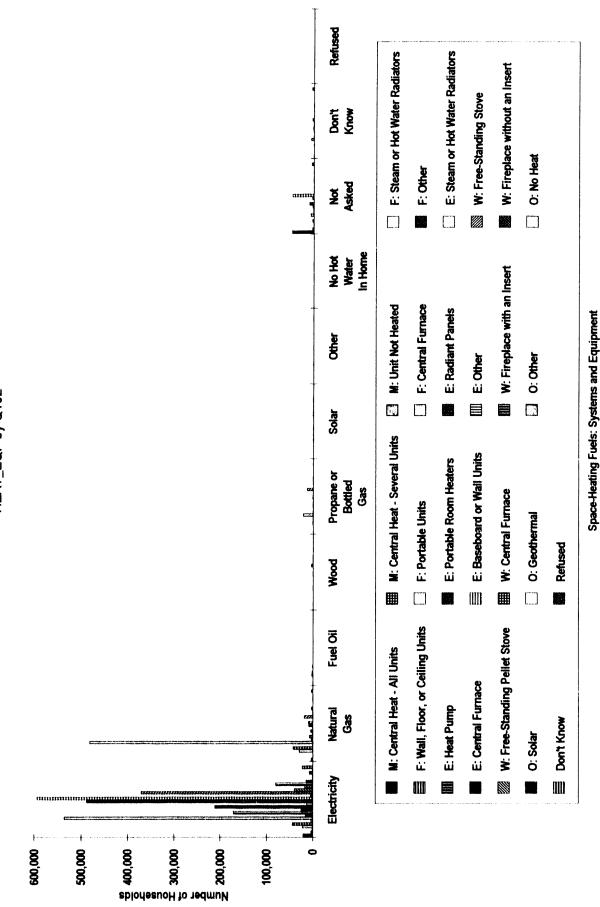
Boundia Prove Administration Professional Prove Administration Professional Prove Administration Professional Prove Administration Table F-33: Space-Heating Fuels: Systems and Equipment by Primary Water-Heating Fuel Type HEAT\_EQP by Q102

Weighted Data

| SPACE-HEATING |                               |             |             |          |       | Propane or     |       | Ž     | No Hot Water | <b>V</b> | Don't |          |           |
|---------------|-------------------------------|-------------|-------------|----------|-------|----------------|-------|-------|--------------|----------|-------|----------|-----------|
| FUELS         | FUELS: SYSTEMS AND EQUIPMENT  | Electricity | Natural Gas | Fuel Oil | Nood  | Bottled Gas    | Solar | Other | in Home      | Asked    | Know  | Patriced | TOTAL     |
| Mutti-Unit:   |                               | 21,212      | 3,241       | 475      | 0     | 2              | 0     | 3     | 0            | 47.010   | 701   | Demiau   | 72 746    |
| _             | Central Heat - Several Units  | 4,471       | 15          | 0        | 0     | 0              | 0     | 0     | 0            | 3.450    | 0     | 0        | 759 7     |
|               | _                             | 1,175       | 0           | 0        | 0     | 0              | 0     | 0     | 0            | 881      | 0     | 0        | 1.856     |
| Fossil:       |                               | 21,993      | 28,984      | 2,399    | 0     | 1,126          | 108   | 0     | 0            | 810      | 138   | 0        | 55 558    |
|               | Wall, Floor, or Ceiling Units | 44,033      | 42,318      | 2,260    | 0     | 842            | 0     | 0     | 0            | 3,242    | 916   | 0        | 93.611    |
|               | Portable Units                | 3,857       | 1,002       | 0        | 0     | 962            | 0     | 0     | 0            | 2        | 0     | 0        | 5 876     |
|               | Central Furnace               | 536,267     | 481,325     | 1,478    | 0     | 21,575         | 193   | 368   | 108          | 6,669    | 6.284 | 0        | 1.054.267 |
|               |                               | 15,726      | 3,371       | 0        | 347   | 420            | 0     | 0     | 0            | 1,167    | 181   | 0        | 21.21     |
| Electricity:  |                               | 171,867     | 7,645       | 0        | 106   | 108            | 362   | 145   | 0            | 1.274    | 0     | 0        | 181,506   |
| _             | Portable Room Heaters         | 24,805      | 347         | 0        | 2     | 823            | 99    | 0     | 0            | 2,673    | 503   | 0        | 212.62    |
|               | Radiant Panels                | 211,287     | 4,612       | 0        | 25    | 534            | 421   | 0     | 0            | 9.719    | 1.941 | 0        | 228.568   |
| ~             | Steam or Hot Water Radiators  | 13,430      | 6/6         | 0        | 0     | 0              | 0     | 0     | 0            | 124      | 199   | 0        | 14 732    |
|               | Central Furnace               | 488,629     | 8,793       | 0        | 178   | 1,197          | 106   | 0     | 0            | 3,189    | 936   | 0        | 503 028   |
|               | Baseboard or Wall Units       | 593,960     | 9,616       | 0        | 8     | 474            | ନ     | ଞ     | 0            | 46,022   | 3,103 | 0        | 653.271   |
|               |                               | 4,611       | 8           | 0        | 0     | 0              | 0     | 0     | 0            | 0        | 0     | 0        | 4.641     |
| :pooM         |                               | 370,879     | 18,554      | 0        | 4,354 | 13,287         | 1,024 | 0     | 368          | 784      | 145   | 0        | 409.395   |
|               | Free-Standing Pellet Stove    | 39,591      | 585         | 98       | 473   | 25             | 841   | 0     | 0            | 5        | ଞ     | 0        | 41.626    |
|               | Central Furnace               | 17,523      | 245         | 0        | 516   | 106            | 98    | 0     | 0            | 0        | 0     | 0        | 18.426    |
|               | Fireplace with an insert      | 80,441      | 3,653       | 142      | 490   | 728            | 542   | 108   | 0            | 256      | 181   | 0        | 86.541    |
|               |                               | 14,838      | 91          | 0        | 0     | 250            | 0     | 0     | 0            | 332      | 0     | 0        | 15.511    |
| Other:        | -                             | 704         | 0           | 0        | 0     | 108            | 772   | 0     | 0            | 0        | 0     | 6        | 1.584     |
|               | Geothermal                    | 353         | 181         | 0        | 0     | 0              | 361   | 0     | 0            | 181      | 0     | 0        | 1.075     |
|               | Other                         | 7,722       | 174         | 0        | 0     | <del>3</del> 8 | 0     | 431   | 0            | 0        | 0     | 0        | 8.363     |
|               | No Heat                       | 555         | 90          | 0        | 0     | 0              | 0     | 0     | 0            | 0        | 0     | 0        | 585       |
|               | Don't Know                    | 22,791      | 3,744       | 25       | 108   | 372            | 0     | 02    | 142          | 5,034    | 4,284 | 6        | 36,598    |
|               | Retused                       | 60          | <b>8</b>    | 0        | 0     | 0              | 0     | 0     | 0            | 0        | 0     | 0        | 1,024     |
|               | TOTAL                         | 2 712 779   | 301.063     | 610 2    | 0120  |                |       |       |              |          |       | _        |           |

Bonneville Power Administration PNWRES92-Phase I Pactific Northwest Region Crosstabs Volume F - Table 33

Chart F-33: Space-Heating Fuels: Systems and Equipment by Primary Water-Heating Fuel Type HEAT\_EQP by Q102 Weighted Data



Bonneville Power Administration PNWRES92-Phase | Pacific Northwest Region Crosstabs Volume F - Chart 33 

 Table F-34: Utility Type by Household Income

 TYPE by Q186, Q188, Q189

#### Raw Data

|                       |            |  |                      |          |          | Ť        | HOUSEHOLD INCOME | D INCOME        |          |        |            |           |           | ſ         |        |
|-----------------------|------------|--|----------------------|----------|----------|----------|------------------|-----------------|----------|--------|------------|-----------|-----------|-----------|--------|
|                       | Below      | \$5K to \$10K  | \$10K to             | \$15K to | \$20K to | \$25K to | \$30K to         | <b>sto</b> K to |          | SGK to | SBOK to    | STORK     | ture<br>L | T         |        |
|                       | ž          | <155 < 155 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < | < \$15<br>¥15<br>¥15 | < \$20K  | < \$25K  | × XOEX ~ | ×                | < \$50K         | ×998 ×   | × \$88 | < \$100K   | or More   | K N       | Definered | TOTAL  |
| Public Generating     | 142        | 82<br>2  | gg                   | gg       |          | 578      | 827              | 535             | 23       | 275    | 13         | 100       | E C       | 76.0      | 20     |
| Public Non-Generating | <b>5</b> 2 | 658  | 845                  | 801      |          | 1,168    | 1 483            | 5               | 19<br>19 | 410    | <u>3</u> 4 | 901<br>94 | 3 3       | ß         | 570'C  |
| Investor Owned        | 33         | 213  | 279                  | 332      | 381      | 427      | 280              | 976             | ĘĘ       | 167    | 5 8        | 90<br>92  | 88        | 1.7.1     | 906,01 |
|                       |            |  |                      |          |          | i        | 8                | 2               | 3        | 6      | B          | 0         | 32        | 700       | 4,035  |
| TOTAL                 | 491        | 1,164  | 1,517                | 1.491    | 1.796    | 2173     | 2.870            | 1857            | 1 107    | B£1    | 111        | 340       | 1 640     |           |        |
|                       |            |  |                      |          |          |          |                  | 2               | 1211     | ŝ      | Ż          | 3         | P10.1     | RC7       |        |

#### Weighted Data

|                       |             |                        |                  |                 |          |         | 10110110         |                           |          |         |        |        |                 |         |            |
|-----------------------|-------------|------------------------|------------------|-----------------|----------|---------|------------------|---------------------------|----------|---------|--------|--------|-----------------|---------|------------|
|                       |             |                        |                  |                 |          | E       | HOUSEHOLD INCOME | <b>D INCOME</b>           |          |         |        |        |                 |         |            |
|                       | Below       | <b>55</b> to<br>55 to  | Sex to Stok to   | <b>515</b> X to | \$20K to | ¥525    | S30K to          | SARK to                   | serve to | CENK to | CON LA | 4100V  |                 | T       |            |
| UTILITY TYPE          | <b>\$</b> 2 | <b>\$5K &lt; \$10K</b> | < \$15K          | XOC\$ ~         | ×525 ×   | 2       |                  | < SSAK                    |          |         |        |        |                 |         |            |
| Puthic Generation     | 1A DAG      | 24 407                 |                  | 15 011          | 11 700   |         |                  |                           |          | ś       |        |        | MOUN            | Kerused |            |
|                       |             | 34.5                   |                  |                 | 8,78     | 8       | 105,614          | 75.067                    | 47,128   | 2       | 19 941 | 14 074 | 55 873          | 100 PC1 | 746 4E0    |
| Public Non-Generating | 15,799      | 44,060                 | 55,335           | 51.225          | 62 952   | 6       | 103 804          | 71 410                    | 30.957   | 8       | 10,000 |        |                 | 10,50   | 0001 001 / |
| Invector Durad        | C+2 44      | 100 00                 |                  |                 |          |         |                  |                           | 770'20   |         | 002'01 | 2000   | 20,003          | 1294.55 | 735,166    |
|                       | 717         | 20,000                 | 1 <b>32,4</b> 0/ | 124,840         | 181,891  | 215,829 | 291,114          | 206,833                   | 135,360  | 102,298 | 38,528 | 43,246 | 165,289         | 284,334 | 2,095,485  |
| TOT II                | -           |                        |                  |                 |          |         |                  |                           |          |         |        |        |                 |         |            |
| IUA                   | 15,357      | 15,357 174,349 228,275 | 228,275          | 251,909         | 290,603  | 364,887 | 500,622          | 500.622 353.319 777 339 1 | 277 339  | 17R 054 | 20 155 | 74 460 | 770 075         | 100 611 | 2 5 40 000 |
|                       |             |                        |                  |                 |          |         |                  |                           |          | 1       | 24.55  | 20111  | 112,023 400,044 | 400,004 | 0,040,003  |

Bonneville Power Administration PNNRES92-Phase I Pacific Northwest Region Crosstates Volume F - Table 34

Pacific Northwest Region Crosstabs Volume F - Chart 34 **Bonneville Power Administration** PNNRES92-Phase |

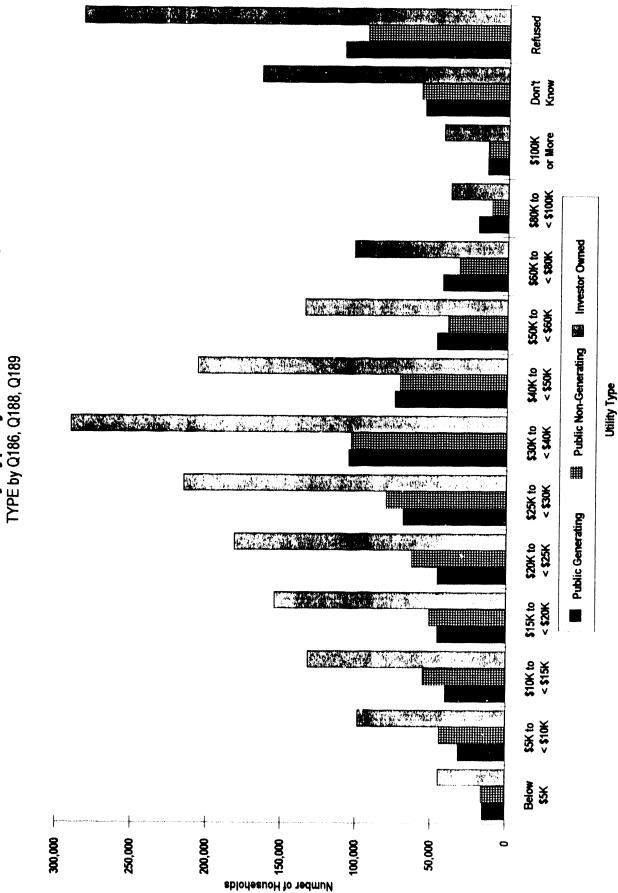


Chart F-34: Utility Type by Household Income TYPE by Q186, Q188, Q189

Weighted Data

Table F-35: Space-Heating Fuels: Systems and Equipment by Household Income HEAT\_EQP by Q186, Q188, Q189

Raw Data

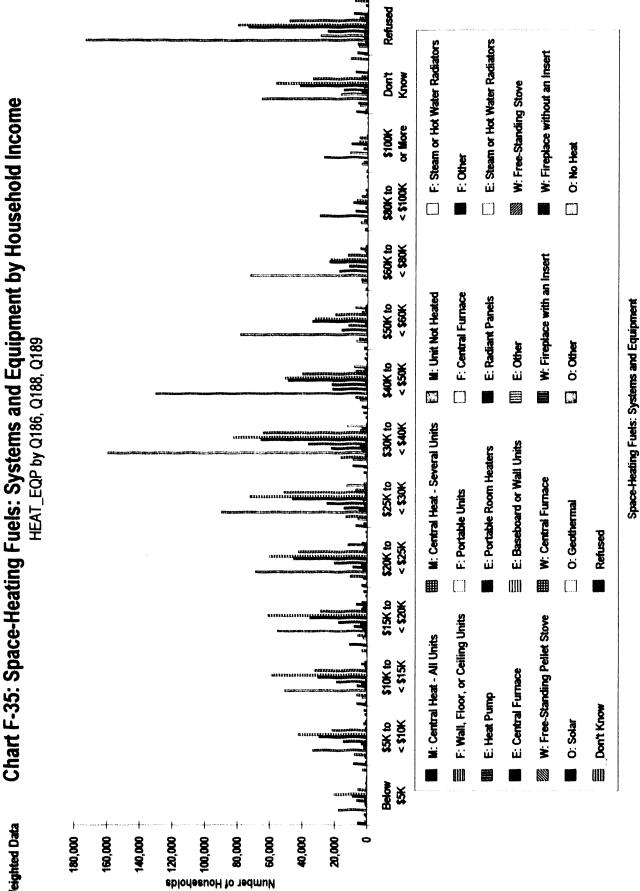
| SPACE-HEATING<br>FUELS: S<br>Multi-Unit:<br>Fossil: | EATING<br>FUELS: SYSTEMS AND EQUIPMENT<br>thi-Unit: Central Heat - Al Units | Below       | \$5K to        | S10K to  | \$15K to | \$20K to    | \$25K to     | \$30K to   | CANK to     | CENT IN | tent to     | CRNK to   | CINNK   | ****       | T       |             |
|---|---|-------------|----------------|----------|----------|-------------|--------------|------------|-------------|---------|-------------|-----------|---------|------------|---------|-------------|
| FUELS: S<br>Mutti-Unit:<br>Fossit:                  | SYSTEMS AND EQUIPMENT<br>Central Heat - All Units                           | eev.        |                |          |          |             |              |            | 2 5         | 352     | 3           | 2152      |         | Ī          |         |             |
|   | Central Heat - All Units  | ž           | < \$10K        | < \$15K  | < \$20K  | < \$25K     | ×<br>Soct ×  | ×<br>¥     | < \$50K     | ¥09\$ > | × \$80K     | < \$100K  | or More | Know       | Refused | TOTAL       |
| Fossil:   |   | R           | 8              | 42       | 37       | 21          | ঙ্গ          | ઝ          | 11          | 6       | 80          | -         | -       | 8          | 8       | 354         |
| Fossii:   | Central Heat - Several Units  | S           | 10             | 5        | 4        | 9           | 5            | -          | e           | 0       | -           | 0         |         | 9          | e       | 3           |
| Fossil:   | Unit Not Heated   | 0           | 0              | 2        | 2        | 0           | -            | -          | 0           | 0       | 0           | 0         | 0       | e          | 2       | 11          |
|   | Steam or Hot Water Radiators  | 9           | 13             | 11       | 18       | 11          | 24           | ଞ          | 21          | 19      | 15          | 13        | σ       | 24         | 56      | 249         |
|   | Wall, Floor, or Ceiling Units   | 7           | æ              | 4        | 23       | ଞ           | <del>4</del> | 47         | 52          | 10      | 10          | 9         | 9       | <b>5</b> 8 | æ       | 352         |
|   | Portable Units  | 0           | 9              | e        | 5        | 7           | 4            | σ          | 0           | 0       | •           | •         | 0       | 2          | 4       | 4           |
|   | Central Furnace   | 61          | 171            | 296      | 264      | 325         | \$           | 620        | 432         | 249     | <b>5</b> 02 | 32        | 8       | 302        | 576     | 4,105       |
|   | Other   | 4           | 80             | 13       | =        | 14          | 15           | <b>*</b>   | S           | 4       | -           | 0         | •       | 9          | 19      | 112         |
| Electricity:  | Heat Pump   | œ           | 16             | 58       | 2        | 57          | 91           | 146        | 151         | 115     | 101         | ଞ         | 74      | 8          | 187     | 1,160       |
|   | Portable Room Heaters   | 12          | ଞ              | 21       | 27       | 23          | 16           | 24         | 6           | 5       | e           | *         | m       | 23         | 16      | 210         |
|   | Radiant Panels  | 69          | <del>3</del> 2 | 127      | 124      | 138         | 195          | <b>5</b> 2 | 172         | 102     | 62          | <b>58</b> | ន       | 127        | 197     | 1,722       |
|   | Steam or Hot Water Radiators  | 4           | 5              | 4        | 0        | 2           | 9            | 9          | 9           | 4       | 4           | 4         | 2       | 11         | 80      | 98          |
|   | Central Furnace   | 57          | 189            | 82<br>22 | 228      | 762         | 342          | 524        | 341         | 232     | 179         | 88        | 69      | 275        | 484     | 3,505       |
|   | Baseboard or Wall Units   | 123         | 303            | 75<br>75 | 337      | 990<br>990  | 422          | 498        | <b>5</b> 36 | 169     | 12          | 4         | ଞ       | 323        | 437     | 3,853       |
|   | Other   | -           | 2              | •        | 3        | Э           | œ            | 2          | 4           | 2       | 5           | 0         | 0       | 0          | 9       | 37          |
| Wood:   | Free-Standing Stove   | 62          | 189            | 257      | 250      | 351         | <b>3</b> 90  | 474        | 249         | 119     | 76          | 18        | ß       | 244        | 346     | 3,048       |
|   | Free-Standing Pellet Stove  | 4           | 9              | 10       | ឌ        | 21          | ଞ            | 8          | 37          | 15      | 12          | 4         | 4       | 28         | 26      | 79 <b>7</b> |
|   | Central Furnace   | 5           | თ              | 8        | 16       | 16          | 8            | 8          | 18          | 13      | 1           | S         | m       | 80         | 18      | 187         |
|   | Fireplace with an Insert  | 80          | 12             | 24       | 49       | 4           | 74           | 88         | 46          | 28      | 8           | 9         | ę       | 4          | 3       | 261         |
|   | Fireplace without an Insert   | -           | 4              | 7        | 9        | 12          | 14           | თ          | Q           | 9       | 4           | •         | •       | 9          | 7       | 84          |
| Other:  | Solar   | -           | 2              | 0        | 2        | <b>4</b> 11 | 2            | 2          | -           | -       | -           | 0         | 0       | 0          | Э       | 16          |
|   | Geothermai  | •           | 0              | *        | 0        | <b>4</b>    | •            | 0          | ო           | 0       | 0           | 0         | *       | 0          | 0       | <b>60</b>   |
|   | Other   | C           | S              |          | 2        | 4           | g            | 7          | 6           | 0       | 2           |           | 2       | 2          | σ       | 33          |
|   | No Heat   | 0           | 0              | 2        | 0        | 0           | 2            | 0          | 0           | 0       | 0           | 0         | 0       | 0          | 0       | 4           |
|   | Don't Know  | 10          | 16             | 18       | 1        | 14          | 80           | 11         | 9           | œ       | 2           | 2         | 2       | 41         | R       | 11          |
|   | Refused   | 0           | 0              | 0        | 0        | 0           | 0            | -          | 0           | 0       | 0           | 0         | 0       | 0          | 2       | ę           |
|   | TOTAL   | <b>F</b> 94 | 1,164          | 1.517    | 1.491    | 1.796       | 2173         | 2870       | 1.857       | 1.107   | 861         | LTFE      | 348     | 1 619      | 2529    | 20.170      |

Bormewike Power Administration PMNRESS2-Phase | Pacific Northwest Region Crosstabs Volume F - Table 25 Table F-35: Space-Heating Fuels: Systems and Equipment by Household Income HEAT\_EQP by Q186, Q188, Q189

Weighted Data

|               |                               |           |                |          |            |          | Ĭ              | HOUSEHOLD INCOME | D INCOME                                       |         |             |          |              |          |            |            |
|---------------|-------------------------------|-----------|----------------|----------|------------|----------|----------------|------------------|--|---------|-------------|----------|--------------|----------|------------|------------|
| SPACE-HEATING | A                             | Below     | SK to          | \$10K to | \$15K to   | \$20K to | \$25K to       | S20K to          | <b>SADK</b> to                                 | SSOK to | Solit to    | Sect to  | SIMK         | tree l   |            |            |
| FUELS:        | SYSTEMS AND EQUIPMENT         | ž         | < \$10K        | < \$15K  | < \$20K    | ~ \$25K  | ×<br>Sect<br>× | ×<br>Ž           | <ul><li>\$50</li><li>\$50</li><li>\$</li></ul> | × \$60¥ | ¥082 >      | < \$100K | or More      | Know     | Refised    | TOTAL      |
| Multi-Unit:   | Central Heat - All Units      | 5,527     | 8,127          | 6,207    | 10,822     | 3,349    | 7,020          | 8,834            | 3,452  | 2,038   | 1,178       | 1.629    | 2            | 7.178    | 6.543      | 72746      |
|               | Central Heat - Several Units  | 1,219     | 740            | 761      | 263        | 571      | 2,122          | æ                | 140  | 0       | 2           | 0        | 8            | 1,524    | 476        | 7.937      |
|               |                               | 0         | 0              | 70       | 441        | 0        | 70             | 415              | 0  | 0       | 0           | 0        | 0            | 473      | 387        | 1,856      |
| Fossil:       |                               | 965<br>26 | 1,155          | 2,691    | 2,387      | 2,164    | 5,590          | 8,562            | 4,283  | 6,531   | 3,412       | 4,137    | 3,683        | 4,832    | 5,534      | 55,558     |
|               | Wall, Floor, or Ceiling Units | 1,567     | 7,540          | 6,057    | 5,730      | 10,319   | 13,157         | 16,232           | 7,103  | 5,045   | 3,850       | 2,143    | 2,638        | 5,923    | 6,308      | 93,611     |
|               | Portable Units                | 0         | 33             | 168      | 1,157      | 368      | 230            | 1,455            | 0  | 0       | 142         | 181      | 0            | 91       | 1,752      | 5,876      |
|               | Central Furnace               | 17,419    | 33,247         | 50,727   | 55,383     | 69,132   | 90,062         | 160,050          | 130,838  | 78,675  | 72,416      | 29,509   | 27,139       | 65,665   | 174,004    | 1,054,267  |
|               |                               | 233       | 1,858          | 1,131    | 2,640      | 2,606    | 4,903          | 3,280            | 386  | 528     | 142         | 0        | 181          | 760      | 2,565      | 21,211     |
| Electricity:  | -                             | 1,041     | 1,978          | 5,919    | 7,850      | 8,780    | 14,426         | 22,488           | 21,612   | 15,931  | 17,575      | 7,382    | 10,723       | 16,456   | 29,345     | 181,506    |
|               | Portable Room Heaters         | 1,113     | 3,379          | 3,187    | 3,900      | 3,351    | 1,571          | 4,467            | ŝ  | 475     | <b>66</b> 2 | 2        | 177          | 3,788    | 2,513      | 29,273     |
|               | Radiant Panels                | 6,157     | 14,542         | 18,866   | 17,682     | 20,469   | 25,084         | 36,473           | 22,109   | 11,577  | 11,331      | 1,628    | 2,701        | 14,947   | 25,000     | 228,568    |
|               | Steam or Hot Water Radiators  | 1,138     | 408            | 711      | 0          | 441      | 2,448          | 931              | 1,235  | 1,380   | <b>3</b> 8  | 423      | 2 <u>9</u> 0 | 2,466    | 2,224      | 14,732     |
|               | Central Furnace               | 8,773     | 29,359         | 30,152   | 35,231     | 45,565   | 46,390         | 66,909           | 49,238   | 33,752  | 23,728      | 8,757    | 10,025       | 42,151   | 73,999     | 503,028    |
|               | Baseboard or Wall Units       | 20,197    | 42,428         | 58,784   | 61,337     | 60,293   | 72,507         | 82,810           | 50,922   | 32,000  | 22,888      | 6,590    | 5,191        | 56,651   | 80,673     | 653,271    |
|               |                               | 2         | 250            | শ্ব      | 10         | 280      | 1,079          | 100              | 612  | 441     | 286         | 0        | 0            | 0        | 1,384      | 4,641      |
| Wood:         |                               | 5,448     | 21,671         | 32,105   | 28,577     | 42,530   | 51,450         | 64,552           | 40,196   | 19,953  | 11,819      | 3,644    | 4,973        | 33,834   | 48,644     | 409,395    |
|               | Free-Standing Pellet Stove    | 499       | 1,031          | 1,032    | 3,334      | 2,470    | 7,029          | 4,192            | 6,879  | 3,387   | 927         | 911      | 235          | 4,011    | 5,189      | 41,626     |
|               | Central Furnace               | 211       | 267            | 1,409    | 2,296      | 1,517    | 1,727          | 3,275            | 1,535  | 1,349   | 1,739       | 371      | 178          | 477      | 2,076      | 18,426     |
|               | Freplace with an insert       | 722       | 2,001          | 3,452    | 6,526      | 11,612   | 12,482         | 12,157           | 8,019  | 7,421   | 4,389       | 1,310    | 248          | 7,506    | 8,696      | 86,541     |
|               |                               | R         | 947            | 1,301    | 3,075      | 3,109    | 1,931          | 9 <b>8</b>       | 630  | 1,184   | 1,104       | 36       | 142          | 441      | 437        | 15,511     |
| Other:        |                               | 415       | 178            | 0        | 151        | Z        | 181            | 292              | 3  | 0/      | 1 <u>8</u>  | 0        | 0            | 0        | 130        | 1,584      |
|               | Geothermal                    | 181       | 0              | 15       | 0          | 15       | 181            | 0                | <del>2</del> 03                                | 0       | 0           | 0        | 181          | 0        | 0          | 1,075      |
|               | Other                         | 0         | 1,240          | 142      | 968<br>968 | 642      | 531            | 8 <u>6</u> 8     | 1,793  | 0       | 8           | 2        | 387          | 23       | 1,613      | 8,363      |
|               | No Heat                       | 0         | 0              | 100<br>1 | 0          | 0        | 485            | 0                | 0  | 0       | 0           | 0        | 0            | 0        | 0          | 585        |
|               | Don't Know                    | 2,512     | 1,669          | 3,234    | 2,126      | 965      | 2,232          | 2,360            | 947  | 603     | 138         | 999      | 387          | 10,600   | 8,160      | 36,598     |
|               | Refused                       | 0         | 0              | 0        | 0          | 0        | 0              | ଚ                | 0  | 0       | 0           | 0        | 0            | 0        | <b>3</b> 8 | 1,024      |
|               | TOTAL                         | 75.357    | 75.357 174.349 | 228 275  | 251 909    | 290 603  | 784 887        | 500 622          | 353 240  | BET ((( | 178.054     | 60 155   | 74 460       | 770 875  | 199 644    | 2 5.48 B/D |
|               |                               |           |                |          |            |          |                |                  | 222  |         | 5355        | 245      | <b>m</b> 1   | 770'2 17 |            |            |

Bonneville Power Administration PNNNCES92-Phase | Pactific Northwest Region Crosstabs Volume F - Table 35



Weighted Data

Pacific Northwest Region Crosstabs Bonneville Power Administration Volume F - Chart 35 PNMRES92-Phase |

# Table F-36: Space-Heating Fuels: Systems and Equipment by Utility Type HEAT\_EQP by TYPE

| Raw Data      |                               |             |                |             |       |
|---------------|-------------------------------|-------------|----------------|-------------|-------|
|               |                               |             |                |             |       |
| SPACE-HEATING |                               | Public      | Public         | Investor    |       |
| FUELS:        | FUELS: SYSTEMS AND EQUIPMENT  | Generating  | Non-Generating | Owned       | TOTAL |
| Mutti-Unit:   | Central Heat - Al Units       | 159         | 125            | 02          | 3     |
|               | Central Heat - Several Units  | 8           | 27             | 7           | 2     |
|               | Unit Not Heated               | e           | 7              | +           | 1     |
| Fossil:       | Steam or Hot Water Radiators  | 88          | 109            | 75          | 260   |
|               | Wall, Floor, or Ceiling Units | 8           | 140            | 12          | 35    |
|               | Portable Units                | æ           | 8              | 0           | ą     |
|               | Central Furnace               | 951         | 1,729          | 1,425       | 4,105 |
|               | Other                         | 9           | 8              | 4           | 112   |
| Electricity.  | Heat Pump                     | 993<br>1995 | 623            | 175         | 1,160 |
|               | Portable Room Heaters         | 74          | 109            | 27          | 210   |
|               | Radiant Panels                | <b>155</b>  | 756            | 211         | 1,722 |
|               | Steam or Hot Water Radiators  | 8           | 77             | 11          | 8     |
|               | Central Furnace               | 1,185       | 1,854          | 466         | 3,505 |
|               | Baseboard or Wall Units       | 1,415       | 1,914          | 524         | 3,853 |
|               | Other                         | 14          | 18             | 5           | 37    |
| .pood:        | Free-Standing Stove           | 98.<br>X    | 2,193          | 288         | 3,046 |
|               | Free-Standing Pellet Stove    | ଞ           | 173            | 61          | 20    |
|               | Central Furnace               | 16          | 145            | 92          | 187   |
|               | Freplace with an insert       | 91          | <b>2</b> 88    | 108         | 164   |
|               | Fireplace without an Insert   | 16          | 48             | 8           | 2     |
| Other:        | Solar                         | 2           | 11             | e           | 16    |
|               | Geothermai                    | 0           | £              | 2           | 80    |
|               | Other                         | 1           | ଷ              | 10          | 3     |
|               | No Heat                       | t           | 2              | <b>A</b> nn | 4     |
|               | Don't Know                    | 75          | 8              | æ           | 111   |
|               | Refused                       | 2           | 0              | ~           | m     |
|               | TOTAL                         | 5.629       | 10.506         | 4035        | 20170 |
|               |                               |             |                |             |       |

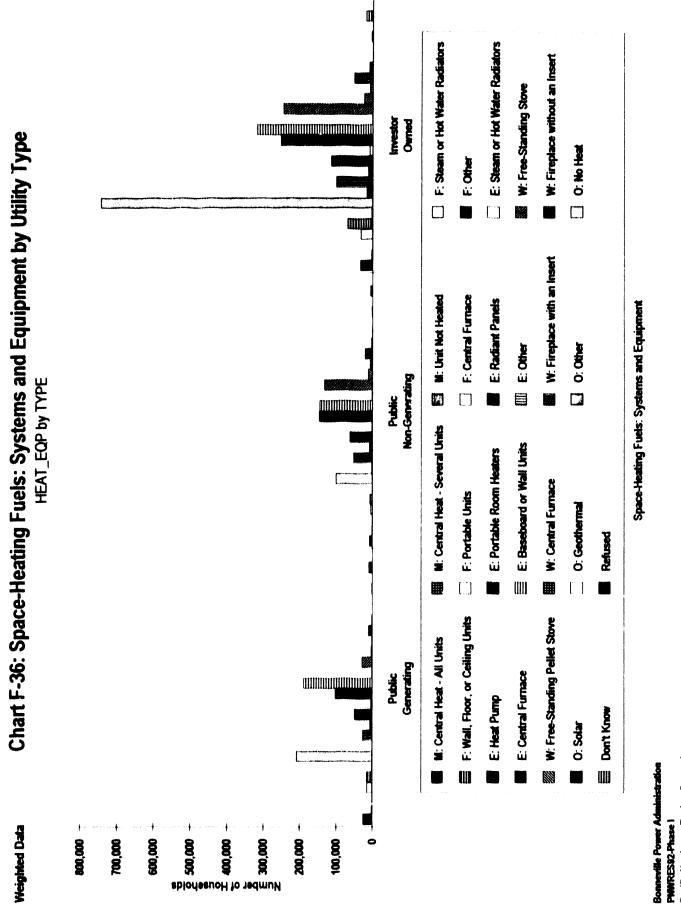
PNNNCSS2-Phase i Pacific Morthwest Region Crosstabs Volume F - Table 36 Bonneville Power Administrat

# Table F-36: Space-Heating Fuels: Systems and Equipment by Utility Type HEAT\_EQP by TYPE

| 1 | 1 |
|---|---|
| C | 2 |
| 7 | 1 |
| 1 |   |
|   | • |
| 5 | ł |
| 2 |   |

| SPACE-HEATING |                                | Public     | Public         | Investor   |                 |
|---------------|--------------------------------|------------|----------------|------------|-----------------|
| FUELS         | FUELS: SYSTEMS AND EQUIPMENT   | Generating | Non-Generating | Owned      | TOTAL           |
| Mutti-Unit-   | Central Heat - All Units       | 21,467     | 8.8 <b>5</b> 6 | 36,423     | 72.746          |
|               | Central Heat - Several Units   | 2,416      | 1,718          | 3,803      | 106'1           |
|               | Unit Not Heated                | <b>866</b> | 244            | 415        | 1,856           |
| Fossil:       | : Steam or Hot Water Radiators | 15,572     | 5,533          | 31,453     | 55,55           |
|               | Wall, Floor, or Ceiling Units  | 16,621     | 1,526          | 194.89     | 93,611          |
|               | Portable Units                 | 1,450      | 1,285          | 3,141      | 5,876           |
|               | Central Furnace                | 208,021    | 100,368        | 745,878    | 1,054,267       |
|               | Other                          | 785        | 2,819          | 17,607     | 21,211          |
| Electricity:  | Heat Pump                      | 28,128     | 52,812         | 100,566    | 161,506         |
|               | Portable Room Heaters          | 1'364      | 8,620          | 13,289     | 212,02          |
|               | Radiant Panels                 | 50,392     | 62,818         | 115,357    | 228,568         |
|               | Steam or Hot Water Radiators   | 4,294      | 1,958          | 8,480      | 14/72           |
|               | Central Furnace                | 102,176    | 147,249        | 253,603    | 500,028         |
|               | Baseboard or Wall Units        | 189,579    | 145,521        | 318,172    | 11/259          |
|               | Other                          | 1,327      | 1,640          | 1,674      | 4,641           |
| Wood          | Free-Standing Stove            | 30,375     | 132,474        | 246,546    | <b>585,80</b> 4 |
|               | Free-Standing Pellet Stove     | 3,622      | 12,020         | 28,38      | 41,628          |
|               | Central Furnace                | 1,994      | 1,220          | 9,211      | 18,426          |
|               | Fireplace with an insert       | 11,137     | 22,024         | 53,320     | <b>36,541</b>   |
|               | Fireplace without an Insert    | 1,691      | 3,336          | 10,484     | 15,511          |
| Other.        | Sotar                          | 8          | 783            | 741        |                 |
|               | Geothermal                     | 0          | 172            | 88         | 1,075           |
|               | Other                          | 2,146      | 1,964          | 4,253      | 535,8           |
|               | No Heat                        | 8          | 0 <del>1</del> | 415        | 285<br>2        |
|               | Dan't Know                     | 10,393     | 5,867          | 20,338     | 36,596          |
|               | Refused                        | 8          | 0              | <b>3</b> 8 | 1,024           |
|               | TOTAL                          | 718.158    | 735,166        | 2 095.485  | 3 548 809       |

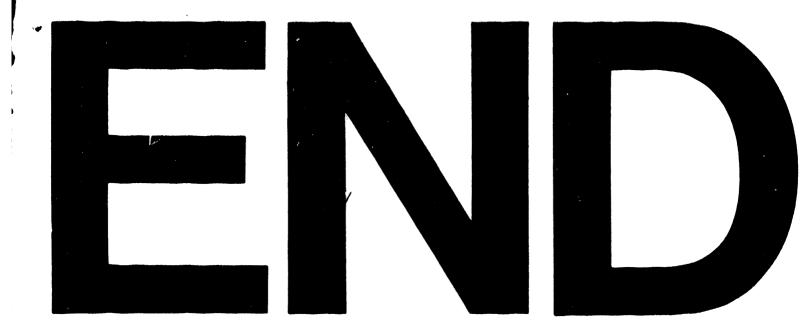
Bonneville Power Administration PMMCESt2-Phase I Pacific Northunest Region Crosstabs Volume F - Table 36



Pacific Northwest Region Crosstabs Volume F - Chart 36

#### **PNWRES92-I Primary Documentation Series**

- **Book** 1: Volumes A and B. The Executive Summary, the Concordance, and the Glossary (A) and the Report on Methodology and the Technical Appendix (B).
- Book 2: Volume C. Item-by-item crosstabulations for the Pacific Northwest Region.
- **Book 3: Volume D.** Item-by-item crosstabulations for the four Bonneville Area Offices (Puget Sound, Lower Columbia, Upper Columbia, and Snake River).
- **Book 4: Volume E.** Item-by-item crosstabulations for the four Pacific Northwest states served by Bonneville (Western Montana, Idaho, Washington, and Oregon).
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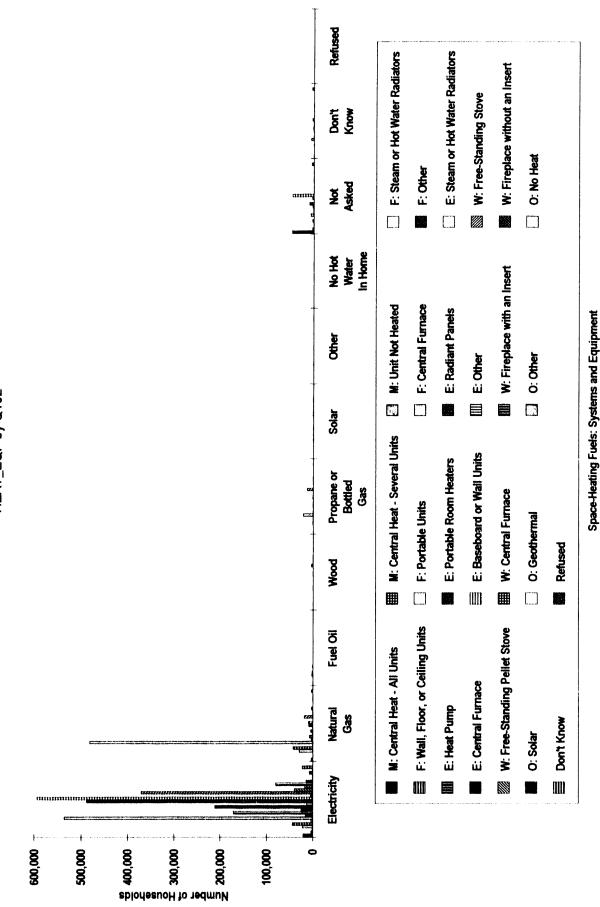
Table F-33: Space-Heating Fuels: Systems and Equipment by Primary Water-Heating Fuel Type HEAT\_EQP by Q102

Weighted Data

| SPACE-HEATING |                               |             |             |          |       | Propane or     |       | Ž     | No Hot Water | <b>V</b>   | Don't |          |           |
|---------------|-------------------------------|-------------|-------------|----------|-------|----------------|-------|-------|--------------|------------|-------|----------|-----------|
| FUELS         | FUELS: SYSTEMS AND EQUIPMENT  | Electricity | Natural Gas | Fuel Oil | Nood  | Bottled Gas    | Solar | Other | in Home      | Asked      | Know  | Patriced | TOTAL     |
| Mutti-Unit:   |                               | 21,212      | 3,241       | 475      | 0     | 2              | 0     | 3     | 0            | 47.010     | 701   | Demiau   | 72 746    |
| _             | Central Heat - Several Units  | 4,471       | 15          | 0        | 0     | 0              | 0     | 0     | 0            | 3.450      | 0     | 0        | 759 7     |
|               | _                             | 1,175       | 0           | 0        | 0     | 0              | 0     | 0     | 0            | <b>681</b> | 0     | 0        | 1.856     |
| Fossil:       |                               | 21,993      | 28,984      | 2,399    | 0     | 1,126          | 108   | 0     | 0            | 810        | 138   | 0        | 55 558    |
|               | Wall, Floor, or Ceiling Units | 44,033      | 42,318      | 2,260    | 0     | 842            | 0     | 0     | 0            | 3,242      | 916   | 0        | 93.611    |
|               | Portable Units                | 3,857       | 1,002       | 0        | 0     | 962            | 0     | 0     | 0            | 2          | 0     | 0        | 5 876     |
|               | Central Furnace               | 536,267     | 481,325     | 1,478    | 0     | 21,575         | 193   | 368   | 108          | 6,669      | 6.284 | 0        | 1.054.267 |
|               |                               | 15,726      | 3,371       | 0        | 347   | 420            | 0     | 0     | 0            | 1,167      | 181   | 0        | 21.21     |
| Electricity:  |                               | 171,867     | 7,645       | 0        | 106   | 108            | 362   | 145   | 0            | 1.274      | 0     | 0        | 181,506   |
| _             | Portable Room Heaters         | 24,805      | 347         | 0        | 2     | 823            | 99    | 0     | 0            | 2,673      | 503   | 0        | 212.62    |
|               | Radiant Panels                | 211,287     | 4,612       | 0        | 25    | 534            | 421   | 0     | 0            | 9.719      | 1.941 | 0        | 228.568   |
| ~             | Steam or Hot Water Radiators  | 13,430      | 6/6         | 0        | 0     | 0              | 0     | 0     | 0            | 124        | 199   | 0        | 14 732    |
|               | Central Furnace               | 488,629     | 8,793       | 0        | 178   | 1,197          | 106   | 0     | 0            | 3,189      | 936   | 0        | 503 028   |
|               | Baseboard or Wall Units       | 593,960     | 9,616       | 0        | 8     | 474            | ନ     | ଞ     | 0            | 46,022     | 3,103 | 0        | 653.271   |
|               |                               | 4,611       | 8           | 0        | 0     | 0              | 0     | 0     | 0            | 0          | 0     | 0        | 4.641     |
| :pooM         |                               | 370,879     | 18,554      | 0        | 4,354 | 13,287         | 1,024 | 0     | 368          | 784        | 145   | 6        | 409.395   |
|               | Free-Standing Pellet Stove    | 39,591      | 585         | ଞ        | 473   | 25             | 841   | 0     | 0            | 15         | ଛ     | 0        | 41.626    |
|               | Central Furnace               | 17,523      | 245         | 0        | 516   | 106            | 98    | 0     | 0            | 0          | 0     | 0        | 18.426    |
|               | Fireplace with an Insert      | 80,441      | 3,653       | 142      | 490   | 728            | 542   | 108   | 0            | 256        | 181   | 0        | 86.541    |
|               |                               | 14,838      | 91          | 0        | 0     | 250            | 0     | 0     | 0            | 322        | 0     | 0        | 15.511    |
| Other:        | -                             | 704         | 0           | 0        | 0     | 108            | 772   | 0     | 0            | 0          | 0     | 6        | 1.584     |
|               | Geothermal                    | 353         | 181         | 0        | 0     | 0              | 361   | 0     | 0            | 181        | 0     | 0        | 1.075     |
|               | Other                         | 7,722       | 174         | 0        | 0     | <del>3</del> 8 | 0     | 431   | 0            | 0          | 0     | 0        | 8.363     |
|               | No Heat                       | 555         | 90          | 0        | 0     | 0              | 0     | 0     | 0            | 0          | 0     | 0        | 585       |
|               | Don't Know                    | 22,791      | 3,744       | 2        | 108   | 372            | 0     | 02    | 142          | 5,034      | 4,284 | 6        | 36,598    |
|               | Retused                       | 60          | <b>8</b>    | 0        | 0     | 0              | 0     | 0     | 0            | 0          | 0     | 0        | 1,024     |
|               | TOTAL                         | 2 712 779   | 301.063     | 6103     | 0120  |                |       |       |              |            |       | _        |           |

Bonneville Power Administration PNWRES92-Phase I Pactific Northwest Region Crosstabs Volume F - Table 33

Chart F-33: Space-Heating Fuels: Systems and Equipment by Primary Water-Heating Fuel Type HEAT\_EQP by Q102 Weighted Data



Bonneville Power Administration PNWRES92-Phase | Pacific Northwest Region Crosstabs Volume F - Chart 33 

 Table F-34: Utility Type by Household Income

 TYPE by Q186, Q188, Q189

### Raw Data

|                       |            |  |                    |          |            | £        | HOUSEHOLD INCOME | D INCOME |         |          |            |            |        |         | ſ      |
|-----------------------|------------|--|--------------------|----------|------------|----------|------------------|----------|---------|----------|------------|------------|--------|---------|--------|
|                       | Below      | \$5K to \$10K  | \$10K to           | \$15K to | \$20K to   | \$25K to | \$30K to \$      | Stok to  |         | \$60K to | SBOK to    | STOOK      | teres. | T       |        |
|                       | ž          | <155 < 155 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < 555 < | <pre>&lt; 55</pre> | < \$20K  | < \$25K    | ×<br>X   | ×<br>¥           | < \$50K  | × \$60£ | × \$88   | < \$100K   | or More    | Know   | Defined | TOTAL  |
| Public Generating     | 142        | R  | g                  | ĸ        |            | 578      | 827              | 535      | 330     | 775      | 5          | ţ          | E S    | 75.0    |        |
| Public Non-Generating | <b>5</b> 2 | 658  | 845                | 801      | <b>5</b> 5 | 1,168    | 1 483            | 5        | 244     | 410      | <u>3</u> 4 | 201<br>201 | 8      | 8       | 20'0   |
| Investor Owned        | 33         | 213  | 279                | 322      |            | 427      | 095              | 370      | f č     | 167      | 2 3        | 8 8        | 8      | 1/7/1   | 906,01 |
|                       |            |  |                    |          |            | į        | 3                |          | 3       | 101      | 8          | 2          | 321    | 2096    | 4,035  |
| TOTAL                 | 491        | 1,164  | 1,517              | 1.69.1   | 1.796      | 2173     | 2 870            | 1 857    | 1 107   | 964      | 111        | 976        | 0707   |         |        |
|                       |            |  |                    |          |            |          |                  | 22       | 1,121   | 3        | Ŧ          | Ĵ          | 1,019  | RZC7    | 01 R   |

## Weighted Data

|                       |             |                           |                |                |          |         | HOUSEHOLD INCOME | D INCOME                  |         |         |        |                    |                 |         |            |
|-----------------------|-------------|---------------------------|----------------|----------------|----------|---------|------------------|---------------------------|---------|---------|--------|--------------------|-----------------|---------|------------|
|                       | Below       | <b>5</b> , <del>5</del> 5 | SEK to STOK to | <b>515K to</b> | \$20K to | ¥573    | S30K to          | SARK to                   | SSOK to | CENK to | CON LA | \$1000V            | 1               | T       |            |
| UTILITY TYPE          | <b>\$</b> 2 | <b>\$5K &lt; \$10K</b>    | < \$15K        | XOCS ~         | ×525 ×   | 2       |                  | < SSOK                    |         |         |        |                    |                 |         |            |
| Puthic Generation     | 1A DAG      | 24 407                    |                | 15 011         | 11 750   |         |                  |                           |         | ś       |        |                    | NON             | Kerused |            |
|                       |             | 34.5                      |                | 10°.07         | 40,/3A   | 8       | 105,614          | 75.067                    | 47,128  | 2       | 19 941 | 14 074             | 55 873          | 100 PC1 | 746 4E0    |
| Public Non-Generating | 15,799      | 44,060                    | 55,335         | 51,225         | 62 952   | 6       | 103 894          | 71 410                    | 30.957  | 8       | 10,000 |                    |                 | 10,50   | 0001 001 / |
| Invector Durad        | C+2 44      | 100 00                    |                |                |          |         |                  |                           | 770'20  |         | 002'01 | 200.01             | 20,003          | 1294.55 | 735,166    |
|                       | 717         | 20,000                    | 1 <b>32,4U</b> | 154,840        | 181,891  | 215,829 | 291,114          | 206,833                   | 135,360 | 102,298 | 38,528 | 43,246             | 165,289         | 284,334 | 2,095,485  |
| TOT II                | -           |                           |                |                |          |         |                  |                           |         |         |        |                    |                 |         |            |
| IUA                   | 15,357      | 15,357 174,349 228,275    | 228,275        | 251,909        | 290,603  | 364,887 | 500,622          | 500.622 353.319 777 339 1 | 277 339 | 17R 054 | 20 155 | 74 460             | 770 075         | 100 611 | 2 5 40 000 |
|                       |             |                           |                |                |          |         |                  |                           |         | 1       | 24.55  | 601 <sup>1</sup> 1 | 400'00t C70'217 | 400,004 | 0,040,003  |

Bonneville Power Administration PNNRES92-Phase I Pacific Northwest Region Crosstates Volume F - Table 34

Pacific Northwest Region Crosstabs Volume F - Chart 34 **Bonneville Power Administration** PNNRES92-Phase |

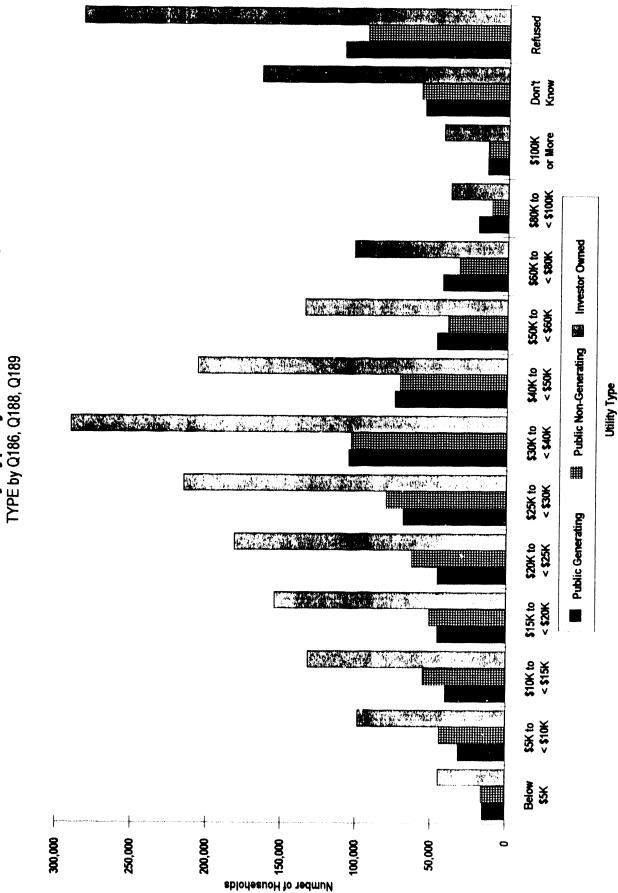


Chart F-34: Utility Type by Household Income TYPE by Q186, Q188, Q189

Weighted Data

Table F-35: Space-Heating Fuels: Systems and Equipment by Household Income HEAT\_EQP by Q186, Q188, Q189

Raw Data

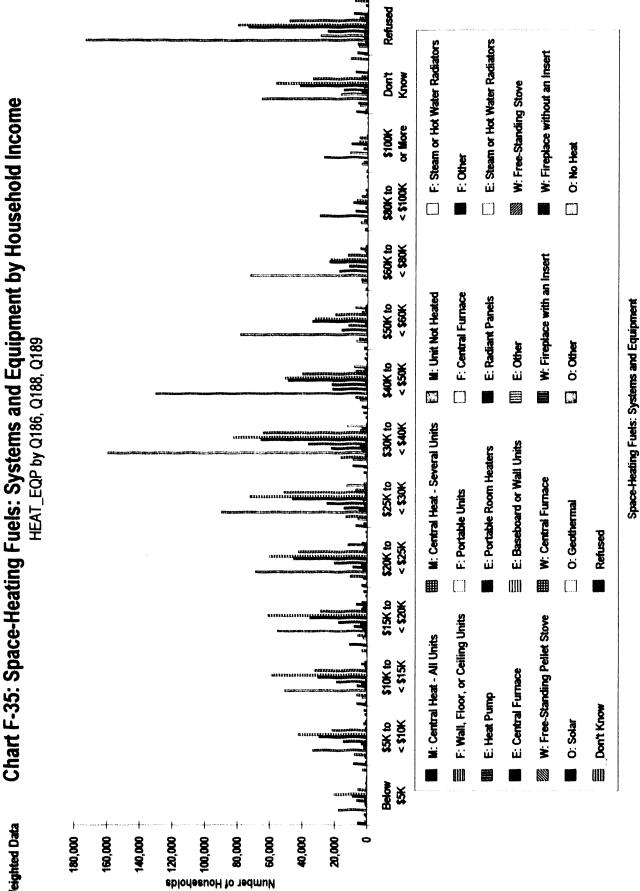
| SPACE-HEATING<br>FUELS: S<br>Multi-Unit:<br>Fossil: |                               | Below | \$5K to        | CINK to    | ELEV IN  | S20K to     | \$25K to     | 2011   | E 4012 1-   | CENT IN | CON LO      |           |         |            |         |        |
|---|-------------------------------|-------|----------------|------------|----------|-------------|--------------|--------|-------------|---------|-------------|-----------|---------|------------|---------|--------|
| FUELS: S<br>Mutti-Unit:<br>Fossit:                  | CVCTCMC AND EX WOMPAR         |       |                | 35.        | 3101     |             |              |        | 351         | 352     |             |           | XINK    | Dont       |         |        |
|   | LUCLO. DI DI CHI ANU CUUMENI  | žš    | < \$10K        | < \$15K    | < \$20K  | < \$25K     | ×<br>Soct ×  | × see  | < \$50K     | ¥09\$ > | × \$80K     | < \$100K  | or More | Know       | Refused | TOTAL  |
| Fossil:   | Central Heat - All Units      | æ     | 8              | 42         | 37       | 21          | ঙ্গ          | ઝ      | 11          | 6       | 80          | -         | -       | 8          | 8       | 354    |
| Fossii:   | Central Heat - Several Units  | 5     | 10             | 5          | 4        | 9           | 5            | -      | e           | 0       | -           | 0         |         | 9          | e       | 25     |
| Fossil:   | Unit Not Heated               | 0     | 0              | 2          | 2        | 0           | -            | -      | 0           | 0       | 0           | 0         | 0       | e          | 2       | 11     |
|   | Steam or Hot Water Radiators  | g     | 13             | 11         | 18       | 11          | 24           | ଞ      | 21          | 19      | 15          | 13        | σ       | 24         | 56      | 249    |
|   | Wall, Floor, or Ceiling Units | 7     | æ              | 4          | 23       | ଞ           | <del>4</del> | 47     | 52          | 10      | 10          | 9         | 9       | <b>5</b> 9 | æ       | 352    |
|   | Portable Units                | 0     | 9              | с          | ŝ        | 7           | 4            | ŋ      | 0           | 0       | •           | •         | 0       | 2          | 4       | 4      |
|   | Central Furnace               | 61    | 171            | 296        | 264<br>2 | 325         | \$           | 620    | 432         | 249     | <b>5</b> 62 | 32        | 8       | 302        | 576     | 4,105  |
|   | Other                         | 4     | 80             | 13         | :        | 14          | 15           | E      | S           | 4       | -           | 0         | •       | 9          | 19      | 112    |
| Electricity:  | Heat Pump                     | œ     | 16             | 58         | 25       | 57          | 91           | 146    | 151         | 115     | 101         | ଞ         | 74      | 8          | 187     | 1,160  |
|   | Portable Room Heaters         | 12    | ଞ              | 21         | 27       | 23          | 16           | 24     | 6           | 5       | e           | *         | m       | 23         | 16      | 210    |
|   | Radiant Panels                | 8     | <del>3</del> 2 | 127        | 124      | 138         | 195          | х<br>Х | 172         | 102     | 62          | <b>58</b> | ន       | 127        | 197     | 1,722  |
|   | Steam or Hot Water Radiators  | 4     | 5              | 4          | 0        | 2           | 9            | 9      | 9           | 4       | 4           | 4         | 2       | 11         | 80      | 99     |
|   | Central Furnace               | 57    | 189            | 02Z        | 228      | 762         | 342          | 524    | 341         | 232     | 179         | 88        | 69      | 275        | 484     | 3,505  |
|   | Baseboard or Wall Units       | 123   | 303            | 3 <u>5</u> | 337      | 990<br>990  | 422          | 498    | <b>5</b> 36 | 169     | 12          | 4         | ଞ       | 323        | 437     | 3,853  |
|   | Other                         | -     | 2              | -          | 3        | Э           | œ            | 2      | 4           | 2       | 5           | 0         | 0       | 0          | 9       | 37     |
| Wood:   | Free-Standing Stove           | 62    | 189            | 257        | 250      | 351         | <b>3</b> 90  | 474    | 249         | 119     | 76          | 18        | ß       | 244        | 346     | 3,048  |
|   | Free-Standing Pellet Stove    | 4     | 9              | 10         | ឌ        | 21          | ଞ            | ଞ      | 37          | 15      | 12          | 4         | 4       | 28         | 26      | 264    |
|   | Central Furnace               | 5     | თ              | 8          | 16       | 16          | 8            | 8      | 18          | 13      | 1           | S         | m       | 80         | 18      | 187    |
|   | Fireplace with an insert      | 80    | 12             | 24         | 49       | 4           | 74           | 88     | 46          | 28      | 8           | 9         | ę       | 4          | 3       | 261    |
|   | Fireplace without an Insert   | -     | 4              | 7          | 9        | 12          | 14           | თ      | Q           | 9       | 4           | •         | •       | 9          | 7       | 84     |
| Other:  | Solar                         | •     | 2              | 0          | 2        | <b>4</b> 11 | 2            | 2      | -           | -       | -           | 0         | 0       | 0          | Э       | 16     |
|   | Geothermai                    |       | 0              | *          | 0        | <b>4</b>    | •            | 0      | ო           | 0       | 0           | 0         | *       | 0          | 0       | 80     |
|   | Other                         | o     | S              |            | 2        | 4           | g            | 7      | 6           | 0       | 2           |           | 2       | 2          | σ       | 33     |
|   | No Heat                       | 0     | 0              | 2          | 0        | 0           | 2            | 0      | 0           | 0       | 0           | 0         | 0       | 0          | 0       | 4      |
|   | Don't Know                    | 10    | 16             | 18         | 7        | 14          | 80           | Ħ      | 9           | œ       | 2           | 2         | 2       | 41         | R       | 177    |
|   | Refused                       | 0     | 0              | 0          | 0        | 0           | 0            | -      | 0           | 0       | 0           | 0         | 0       | 0          | 2       | e      |
|   | TOTAL                         | 491   | 1,164          | 1.517      | 1.491    | 1.796       | 2173         | 2870   | 1.857       | 1.107   | 861         | 17E       | 348     | 1 619      | 2529    | 20.170 |

Bormewike Power Administration PMNRESS2-Phase | Pacific Northwest Region Crosstabs Volume F - Table 25 Table F-35: Space-Heating Fuels: Systems and Equipment by Household Income HEAT\_EQP by Q186, Q188, Q189

Weighted Data

|               |                               |           |                |          |            |          | Ĭ              | HOUSEHOLD INCOME | D INCOME                                       |         |             |          |              |          |            |            |
|---------------|-------------------------------|-----------|----------------|----------|------------|----------|----------------|------------------|--|---------|-------------|----------|--------------|----------|------------|------------|
| SPACE-HEATING | A                             | Below     | SK to          | \$10K to | \$15K to   | \$20K to | \$25K to       | S20K to          | <b>SADK</b> to                                 | SSOK to | Solit to    | Sect to  | SIMK         | tree l   |            |            |
| FUELS:        | SYSTEMS AND EQUIPMENT         | ž         | < \$10K        | < \$15K  | < \$20K    | ~ \$25K  | ×<br>Sect<br>× | ×<br>Ž           | <ul><li>\$50</li><li>\$50</li><li>\$</li></ul> | × \$60¥ | ¥082 >      | < \$100K | or More      | Know     | Refised    | TOTAL      |
| Multi-Unit:   | Central Heat - All Units      | 5,527     | 8,127          | 6,207    | 10,822     | 3,349    | 7,020          | 8,834            | 3,452  | 2,038   | 1,178       | 1,629    | 8            | 7.178    | 6.543      | 72746      |
|               | Central Heat - Several Units  | 1,219     | 740            | 761      | 263        | 571      | 2,122          | æ                | 140  | 0       | 2           | 0        | 8            | 1,524    | 476        | 7.937      |
|               |                               | 0         | 0              | 70       | 441        | 0        | 70             | 415              | 0  | 0       | 0           | 0        | 0            | 473      | 387        | 1,856      |
| Fossil:       |                               | 965<br>26 | 1,155          | 2,691    | 2,387      | 2,164    | 5,590          | 8,562            | 4,283  | 6,531   | 3,412       | 4,137    | 3,683        | 4,832    | 5,534      | 55,558     |
|               | Wall, Floor, or Ceiling Units | 1,567     | 7,540          | 6,057    | 5,730      | 10,319   | 13,157         | 16,232           | 7,103  | 5,045   | 3,850       | 2,143    | 2,638        | 5,923    | 6,308      | 93,611     |
|               | Portable Units                | 0         | 33             | 168      | 1,157      | 368      | 230            | 1,455            | 0  | 0       | 142         | 181      | 0            | 91       | 1,752      | 5,876      |
|               | Central Furnace               | 17,419    | 33,247         | 50,727   | 55,383     | 69,132   | 90,062         | 160,050          | 130,838  | 78,675  | 72,416      | 29,509   | 27,139       | 65,665   | 174,004    | 1,054,267  |
|               |                               | 233       | 1,858          | 1,131    | 2,640      | 2,606    | 4,903          | 3,280            | 386  | 528     | 142         | 0        | 181          | 760      | 2,565      | 21,211     |
| Electricity:  | -                             | 1,041     | 1,978          | 5,919    | 7,850      | 8,780    | 14,426         | 22,488           | 21,612   | 15,931  | 17,575      | 7,382    | 10,723       | 16,456   | 29,345     | 181,506    |
|               | Portable Room Heaters         | 1,113     | 3,379          | 3,187    | 3,900      | 3,351    | 1,571          | 4,467            | ŝ  | 475     | <b>66</b> 2 | 2        | 177          | 3,788    | 2,513      | 29,273     |
|               | Radiant Panels                | 6,157     | 14,542         | 18,866   | 17,682     | 20,469   | 25,084         | 36,473           | 22,109   | 11,577  | 11,331      | 1,628    | 2,701        | 14,947   | 25,000     | 228,568    |
|               | Steam or Hot Water Radiators  | 1,138     | 408            | 711      | 0          | 441      | 2,448          | 931              | 1,235  | 1,380   | <b>3</b> 8  | 423      | 2 <u>9</u> 0 | 2,466    | 2,224      | 14,732     |
|               | Central Furnace               | 8,773     | 29,359         | 30,152   | 35,231     | 45,565   | 46,390         | 66,909           | 49,238   | 33,752  | 23,728      | 8,757    | 10,025       | 42,151   | 73,999     | 503,028    |
|               | Baseboard or Wall Units       | 20,197    | 42,428         | 58,784   | 61,337     | 60,293   | 72,507         | 82,810           | 50,922   | 32,000  | 22,888      | 6,590    | 5,191        | 56,651   | 80,673     | 653,271    |
|               |                               | 2         | 250            | শ্ব      | 10<br>10   | 280      | 1,079          | 100              | 612  | 441     | 286         | 0        | 0            | 0        | 1,384      | 4,641      |
| Wood:         |                               | 5,448     | 21,671         | 32,105   | 28,577     | 42,530   | 51,450         | 64,552           | 40,196   | 19,953  | 11,819      | 3,644    | 4,973        | 33,834   | 48,644     | 409,395    |
|               | Free-Standing Pellet Stove    | 499       | 1,031          | 1,032    | 3,334      | 2,470    | 7,029          | 4,192            | 6,879  | 3,387   | 927         | 911      | 235          | 4,011    | 5,189      | 41,626     |
|               | Central Furnace               | 211       | 267            | 1,409    | 2,296      | 1,517    | 1,727          | 3,275            | 1,535  | 1,349   | 1,739       | 371      | 178          | 477      | 2,076      | 18,426     |
|               | Freplace with an insert       | 722       | 2,001          | 3,452    | 6,526      | 11,612   | 12,482         | 12,157           | 8,019  | 7,421   | 4,389       | 1,310    | 248          | 7,506    | 8,696      | 86,541     |
|               |                               | R         | 947            | 1,301    | 3,075      | 3,109    | 1,931          | 9 <b>8</b>       | 630  | 1,184   | 1,104       | 36       | 142          | 441      | 437        | 15,511     |
| Other:        |                               | 415       | 178            | 0        | 151        | Z        | 181            | 292              | 3  | 0/      | 1 <u>8</u>  | 0        | 0            | 0        | 130        | 1,584      |
|               | Geothermal                    | 181       | 0              | 15       | 0          | 15       | 181            | 0                | <del>2</del> 03                                | 0       | 0           | 0        | 181          | 0        | 0          | 1,075      |
|               | Other                         | 0         | 1,240          | 142      | 988<br>988 | 642      | 531            | 8 <u>6</u> 8     | 1,793  | 0       | 8           | 2        | 387          | 23       | 1,613      | 8,363      |
|               | No Heat                       | 0         | 0              | 100<br>1 | 0          | 0        | 485            | 0                | 0  | 0       | 0           | 0        | 0            | 0        | 0          | 585        |
|               | Don't Know                    | 2,512     | 1,669          | 3,234    | 2,126      | 965      | 2,232          | 2,360            | 947  | 603     | 138         | 999      | 387          | 10,600   | 8,160      | 36,598     |
|               | Refused                       | 0         | 0              | 0        | 0          | 0        | 0              | ଚ                | 0  | 0       | 0           | 0        | 0            | 0        | <b>3</b> 8 | 1,024      |
|               | TOTAL                         | 75.357    | 75.357 174.349 | 228 275  | 251 909    | 290 603  | 784 887        | 500 622          | 353 240  | BET ((( | 178.054     | 60 155   | 74 460       | 770 875  | 199 644    | 2 5.48 B/D |
|               |                               |           |                |          |            |          |                |                  | 222  |         | 5355        | 245      | <b>m</b> 1   | 770'2 17 |            |            |

Bonneville Power Administration PNNNCES92-Phase | Pactific Northwest Region Crosstabs Volume F - Table 35



Weighted Data

Pacific Northwest Region Crosstabs Bonneville Power Administration Volume F - Chart 35 PNMRES92-Phase |

# Table F-36: Space-Heating Fuels: Systems and Equipment by Utility Type HEAT\_EQP by TYPE

| Raw Data      |                               |             |                |             |       |
|---------------|-------------------------------|-------------|----------------|-------------|-------|
|               |                               |             |                |             |       |
| SPACE-HEATING |                               | Public      | Public         | Investor    |       |
| FUELS:        | FUELS: SYSTEMS AND EQUIPMENT  | Generating  | Non-Generating | Owned       | TOTAL |
| Mutti-Unit:   | Central Heat - Al Units       | 159         | 125            | 02          | 3     |
|               | Central Heat - Several Units  | 8           | 27             | 7           | 2     |
|               | Unit Not Heated               | e           | 7              | +           | 1     |
| Fossil:       | Steam or Hot Water Radiators  | 88          | 109            | 75          | 249   |
|               | Wall, Floor, or Ceiling Units | 8           | 140            | 12          | 35    |
|               | Portable Units                | æ           | 8              | 0           | ą     |
|               | Central Furnace               | 951         | 1,729          | 1,425       | 4,105 |
|               | Other                         | 9           | 8              | 4           | 112   |
| Electricity.  | Heat Pump                     | 993<br>1995 | 623            | 175         | 1,160 |
|               | Portable Room Heaters         | 74          | 109            | 27          | 210   |
|               | Radiant Panels                | <b>155</b>  | 756            | 211         | 1,722 |
|               | Steam or Hot Water Radiators  | 8           | 77             | 11          | 8     |
|               | Central Furnace               | 1,185       | 1,854          | 466         | 3,505 |
|               | Baseboard or Wall Units       | 1,415       | 1,914          | 524         | 3,853 |
|               | Other                         | 14          | 18             | 5           | 37    |
| .pood:        | Free-Standing Stove           | 987.<br>7   | 2,193          | 288         | 3,046 |
|               | Free-Standing Pellet Stove    | ଞ           | 173            | 61          | 20    |
|               | Central Furnace               | 16          | 145            | 92          | 187   |
|               | Freplace with an insert       | 91          | <b>2</b> 88    | 108         | 164   |
|               | Fireplace without an Insert   | 16          | 48             | 8           | 2     |
| Other:        | Solar                         | 2           | 11             | e           | 16    |
|               | Geothermai                    | 0           | £              | 2           | 80    |
|               | Other                         | 1           | ଷ              | 10          | 3     |
|               | No Heat                       | t.          | 2              | <b>A</b> nn | 4     |
|               | Don't Know                    | 75          | 8              | R           | II.   |
|               | Refused                       | 2           | 0              | ~           | m     |
|               | TOTAL                         | 5.629       | 10.506         | 4035        | 20170 |
|               |                               |             |                |             |       |

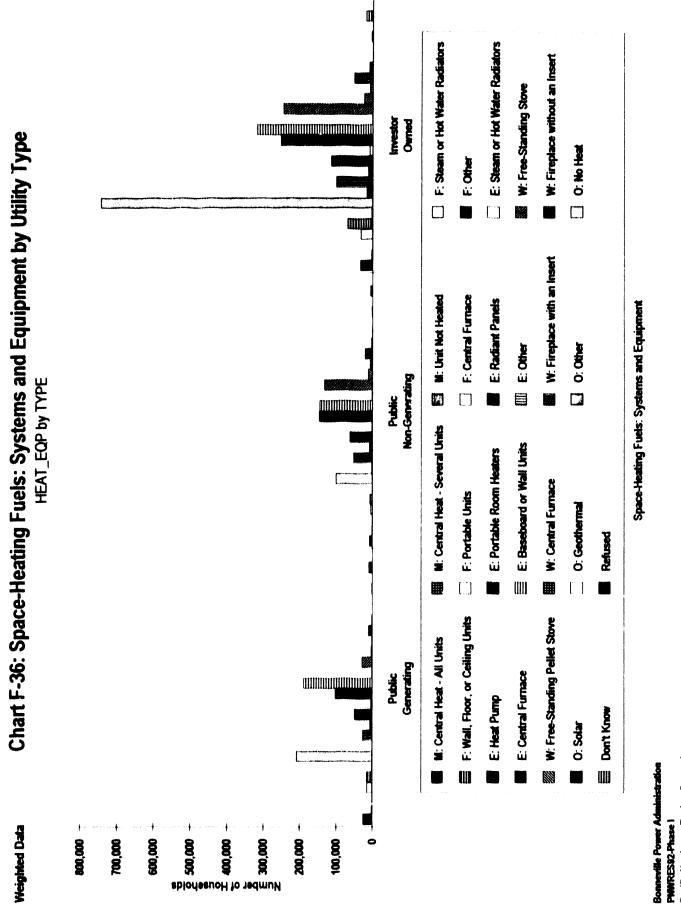
PNNNCSS2-Phase i Pacific Morthwest Region Crosstabs Volume F - Table 36 Bonneville Power Administrat

# Table F-36: Space-Heating Fuels: Systems and Equipment by Utility Type HEAT\_EQP by TYPE

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| SPACE-HEATING |                               | Public     | Public           | Investor  |                |
|---------------|-------------------------------|------------|------------------|-----------|----------------|
| FUELS         | FUELS: SYSTEMS AND EQUIPMENT  | Generating | Non-Generating   | Owned     | TOTAL          |
| Mutti-Unit-   | Central Heat - All Units      | 21,467     | 8.8 <b>5</b> 6   | 36,423    | 72.746         |
|               | Central Heat - Several Units  | 2,416      | 1,718            | 3,803     | 105'1          |
|               | Unit Not Heated               | <b>866</b> | 244              | 415       | 1,856          |
| Fossil:       | Steam or Hot Water Radiators  | 15,572     | 5,533            | 31,453    | 55,55          |
|               | Wall, Floor, or Ceiling Units | 16,621     | 1,526            | 69,464    | 23,611         |
|               | Portable Units                | 1,450      | 1,285            | 3,141     | 5,876          |
|               | Central Furnace               | 208,021    | 100,368          | 745,878   | 1,054,267      |
|               | Other                         | 785        | 2,819            | 17,607    | 21,211         |
| Electricity.  | Heat Pump                     | 28,128     | 52,812           | 100,566   | 161,506        |
|               | Portable Room Heaters         | 1'36'      | 8,620            | 13,280    | 20.27          |
|               | Radiant Panels                | 50,302     | 62,818           | 115,357   | 228,568        |
|               | Steam or Hot Water Radiators  | 4,294      | 1,958            | 8,480     | 14/72          |
|               | Central Furnace               | 102,176    | 147,249          | 253,603   | 500,028        |
|               | Baseboard or Wall Units       | 189,579    | 145,521          | 318,172   | 11/259         |
|               | Other                         | 1,327      | 1,640            | 1,674     | 4,641          |
| Woodt         | Free-Standing Stove           | 30,375     | 132,474          | 246,546   | <b>585,804</b> |
|               | Free-Standing Pellet Stove    | 3,622      | 12,020           | 26,984    | 41,628         |
|               | Central Furnace               | 1,994      | 1,220            | 9,211     | 18,426         |
|               | Fireplace with an insert      | 11,137     | 22,024           | 53,320    | <b>36,541</b>  |
|               | Fireplace without an Insert   | 1,691      | 3,336            | 10,484    | 15,511         |
| Other.        | Solar                         | 8          | 783              | 741       |                |
|               | Geothermal                    | 0          | 172              | 88        | 1,075          |
|               | Other                         | 2,146      | 1,964            | 4233      | 535,8          |
|               | No Heat                       | ଛ          | 1 <del>4</del> 0 | 415       | 285<br>285     |
|               | Dan't Know                    | 10,393     | 5,867            | 20,338    | 36,596         |
|               | Refused                       | 8          | 0                | 96        | 1,024          |
|               | TOTAL                         | 718,158    | 735.166          | 2 095.485 | 3 548 809      |

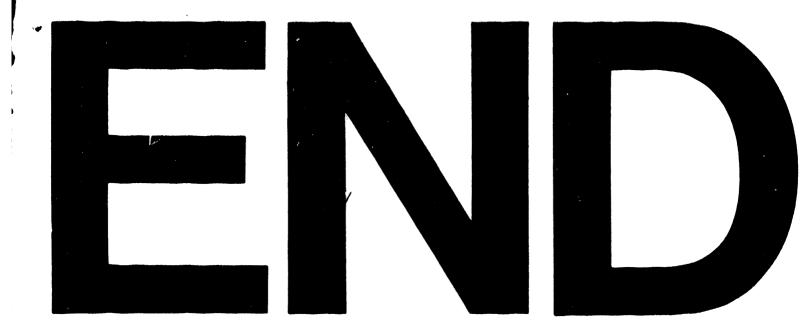
Bonneville Power Administration PMMCESt2-Phase I Pacific Northunest Region Crosstabs Volume F - Table 36



Pacific Northwest Region Crosstabs Volume F - Chart 36

### **PNWRES92-I Primary Documentation Series**

- **Book** 1: Volumes A and B. The Executive Summary, the Concordance, and the Glossary (A) and the Report on Methodology and the Technical Appendix (B).
- Book 2: Volume C. Item-by-item crosstabulations for the Pacific Northwest Region.
- **Book 3: Volume D.** Item-by-item crosstabulations for the four Bonneville Area Offices (Puget Sound, Lower Columbia, Upper Columbia, and Snake River).
- **Book 4: Volume E.** Item-by-item crosstabulations for the four Pacific Northwest states served by Bonneville (Western Montana, Idaho, Washington, and Oregon).
- Book 5: Volume F. Selected crosstabulations for the Pacific Northwest Region.
- Book 6: Volumes G, H, and I. Selected crosstabluations for the three publicly-owned *generating* utility domains: Eastern Washington (G), Western Washington (H), and Western Oregon (I).
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- **Book 12: Volume AG.** A report of a post-survey of PNWRES92-I non-respondents (conducted in late Spring 1993) and their reason(s) for not completing the original survey.



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