

SAS/PADS

The ELCAP data at BPA

Residential Characteristics Data Categories

Summary Documents

INSTRUCTIONS

DATASETS

SPACE-HEATING

WATER-HEATING

STRUCTURE

[APPLIANCES]

[HOUSEHOLD]

[MISCELLANEOUS]

[...] = IN PREPARATION

Residential Characteristics Data Categories

Summary Documents

Instructions to the Reader

This **Summary Documents** booklet should be used to identify ELCAP characteristics variables residing on IBM SAS files for analytical topics appearing below. If the reader wishes, more detailed information can be obtained about these variables from the **Variable Inventories** booklet.

By turning to the appropriate section, the reader will be directed to his/her specific topic of interest. The **DATASETS** section provides an overview of the IBM SAS files containing the ELCAP Characteristics data referenced in this document. Included in this section are:

- SAS file name
- number of observations
- size of SAS file
- SAS file description
(associated survey or data processing activity)

Following **DATASETS** are sections which identify an analytic topic of interest. Currently there are six sections identified. These are:

- **SPACE-HEATING**
- **WATER-HEATING**
- **STRUCTURE**
- **APPLIANCES**
- **HOUSEHOLD**
- **MISCELLANEOUS**

In each of these sections, the variables related the analytic topic are listed in logically distinct categories. An index is provided at the beginning of each section to assist in locating specific areas of interest.

For each variable listed, the following is provided:

- variable description
- description of the associated IBM SAS file
(description same as in **DATASETS** section)
- SAS variable name and survey question number
(appearing in parenthesis)

In some cases, no question number is provided. This is because the variable was not taken directly from the survey. In these cases the variable is said to be 'derived'. Every effort has been made to assign question numbers to derived variables which are directly related to specific survey questions.

SAS/PADS DATASETS

Characteristics Data

DSN=RPEE.RUR00.WHM.USRD.SASLIB *

<u>name</u>	<u>obs</u>	<u>tracks</u>	<u>SAS file description</u>
PNWRES83	331	49	1983 Pacific Northwest Residential Energy Survey
ROSM85	347	9	1985 Residential Occupant Survey (Mail)
ROST85	395	12	1985 Residential Occupant Survey (Tele)
ELCAP86	361	4	1986 ELCAP Residential Survey
ELCAP87	406	14	1987 ELCAP Residential Survey
ELCAP88	374	11	1988 ELCAP Residential Survey
SCODES	1241	2	1985 Study Codes Relation
SFLAGS	1193	2	1985 Study Flags Relation
RI-			1985 Residential Inspection
001	415	2	Building General Info
005	4026	12	Windows
006	1090	4	Doors
007	3873	11	Walls
008	712	2	Ceiling/Roof
009	393	1	Attic Ventilation
011	563	2	Conditioned Zones
013	416	3	Conditioning of Rooms
015	396	2	Mechanical Ventilation
016	795	3	Floor
017	2325	6	Space-Heating Equipment
022	242	1	Ducting
023	438	2	Water-Heating Equipment
024	823	3	Refrigerators
025	342	1	Dishwashers
026	416	4	Appliances
027	754	2	Foundation
RIMOD	416	9	Modifications and Additions
RITRANS	417	23	Derivations from RI data sets
UADATA	350	3	Calculated Structure UAs
WINROOF	416	3	Window and Roof Insulation Summaries
WALLINF	416	2	Wall Insulation Summaries

* Residential Data Only

Note that other files appear in this data set but are considered either ancillary or redundant to files appearing in this listing.

SAS/PADS DATASETS

Characteristics Data (cont'd)

DSN=RPEE.RLCAP.ELCAP.CHAR.SASDB

<u>name</u>	<u>obs</u>	<u>tracks</u>	<u>SAS file description</u>
RESCHAR	525	5	1985 K Ritland Residential Characteristics
COMCHAR	146	2	1985 K Ritland Commercial Characteristics
METSITE	661	1	Site to Metsite Cross-reference
FRC	459	3	1985 Fundamental Residential Characteristics
SCODES	1241	2	1985 K Ritland Study Codes Relation
SFLAGS	1193	2	1985 K Ritland Study Flags Relation

FORMAT LIBRARIES

DSN=RPEE.RLCAP.ELCAP.CHAR.FORMATS

DSN=RPEE.RLCAP.ELCAP.FORMATS

DSN=RPEE.RUROO.WHM.USRD.FMTLIB *

* Residential Data Only

Space Heating Data

Category Index *

Fuels Used:

- Main/Backup Fuels Present (1)
- Wood Use (2-3)
- Miscellaneous (4)
- Changes (5)

Equipment/General:

- Systems Present (6-7)
- Changes (8)
- Miscellaneous (9)

Electric Equipment:

- Systems Present (10)
- Changes (11)

Wood Equipment:

- Systems Present (12-13)
- Changes (14)
- Miscellaneous (14)

Consumer Behavior:

- Internal Temperature (15-16)
- Conservation Actions - General (17)
- Conservation Actions - Automatic Setback (17)
- Conservation Actions - Reduce Temperature (18)
- Miscellaneous (19)

* Page number in parantheses

Space Heating Data
Characteristics
Summary

FUELS USED

Main/Backup Fuels Present

Description: Fuel used most for space heating.
Survey: 1983 PNW Residential Survey (PNW157 Q-48)
1985 Residential Occupant Survey (ZRM007)
1985 Residential Occupant Survey (ZRT006)
1987 ELCAP Residential Survey (EL7071 Q-16)
1988 ELCAP Residential Survey (EL8069 Q-17)

Description: Gas/Oil Space Heat Most of Time?
Survey: 1983 PNW Residential Survey (ZPNW016)

Description: Other fuels used to heat home?
Survey: 1983 PNW Residential Survey (PNW171 Q-60)

Description: Additional heating fuel coal.
Survey: 1983 PNW Residential Survey (PNW178 Q-61)

Description: Additional heating fuel electricity.
Survey: 1983 PNW Residential Survey (PNW173 Q-61)

Description: Additional heating fuel gas.
Survey: 1983 PNW Residential Survey (PNW174 Q-61)

Description: Additional heating fuel geothermal.
Survey: 1983 PNW Residential Survey (PNW180 Q-61)

Description: Additional heating fuel kerosene.
Survey: 1983 PNW Residential Survey (PNW177 Q-61)

Description: Additional heating fuel oil.
Survey: 1983 PNW Residential Survey (PNW175 Q-61)

Description: Additional heating fuel other.
Survey: 1983 PNW Residential Survey (PNW181 Q-61)

Description: Additional heating fuel propane.
Survey: 1983 PNW Residential Survey (PNW176 Q-61)

Description: Additional heating fuel solar.
Survey: 1983 PNW Residential Survey (PNW179 Q-61)

Space Heating Data
Characteristics
Summary

FUELS USED

Wood Use

Description: Wood used for space heating?
Survey: 1983 PNW Residential Survey (PNW187 Q-66)
1983 PNW Residential Survey (ZPNW020)
1985 Residential Occupant Survey (RM079 Q-33)
1985 Residential Occupant Survey (ZRM008)
1985 Residential Occupant Survey (RT057 Q-60)
1985 Residential Occupant Survey (ZRT007)
1985 Fundamental Residential Characteristics (FRC008)
1985 K Ritland ELCAP Res Chcts (FRC008)
1987 ELCAP Residential Survey (EL7064 Q-14)
1988 ELCAP Residential Survey (EL8062 Q-15)

Description: Additional heating fuel wood?
Survey: 1983 PNW Residential Survey (PNW172 Q-61)

Description: Amount of wood used for space heating last winter.
Survey: 1985 Residential Occupant Survey (RT058 Q-61)

Description: Number of cords burned in past year?
Survey: 1983 PNW Residential Survey (PNW189 Q-68)

Description: Number of logs burned in past year?
Survey: 1983 PNW Residential Survey (PNW188 Q-67)

Description: Percent of wood burned purchased?
Survey: 1983 PNW Residential Survey (PNW190 Q-69)

Description: Percent of wood on hand purchased last year.
Survey: 1985 Residential Occupant Survey (RT133 Q-62)

Space Heating Data
Characteristics
Summary

FUELS USED

Wood Use (cont'd)

Description: Importance of availability of conventional fuel in choosing to heat with wood.
Survey: 1985 Residential Occupant Survey (RM086 Q-34D)

Description: Importance of comfort when choosing to heat with wood.
Survey: 1985 Residential Occupant Survey (RM091 Q-34I)

Description: Importance of cost of conventional fuels on choosing to heat with wood.
Survey: 1985 Residential Occupant Survey (RM084 Q-34B)

Description: Importance of cost of delivered wood on choosing to heat with wood.
Survey: 1985 Residential Occupant Survey (RM083 Q-34A)

Description: Importance of distance to gather wood on choosing to heat with wood.
Survey: 1985 Residential Occupant Survey (RM085 Q-34C)

Description: Importance of equipment costs when choosing to heat with wood.
Survey: 1985 Residential Occupant Survey (RM092 Q-34J)

Description: Importance of inconvenience when gathering wood on choosing to heat with wood.
Survey: 1985 Residential Occupant Survey (RM087 Q-34E)

Description: Importance of maintaining wood stove when choosing to heat with wood.
Survey: 1985 Residential Occupant Survey (RM089 Q-34G)

Description: Importance of need to heat whole house when choosing to heat with wood.
Survey: 1985 Residential Occupant Survey (RM088 Q-34F)

Description: Importance of wood stove convenience when choosing to heat with wood.
Survey: 1985 Residential Occupant Survey (RM090 Q-34H)

Space Heating Data
Characteristics
Summary

FUELS USED

Miscellaneous

Description: Electricity used for home heating?
Survey: 1983 PNW Residential Survey (PNW367 Q-135)

Description: Fuel oil used for home heating?
Survey: 1983 PNW Residential Survey (PNW397 Q-135)

Description: Fuel used in HVAC system. (Mult obs)
Survey: 1985 RI Space-Heating Equipment (RI017C Q-17C)

Description: Fuel used in fuel/system group 1.
Survey: 1985 RI Derivations from RI data sets (ZRI17C1)

Description: Fuel used in fuel/system group 2.
Survey: 1985 RI Derivations from RI data sets (ZRI17C2)

Description: Fuel used in fuel/system group 3.
Survey: 1985 RI Derivations from RI data sets (ZRI17C3)

Description: Fuel used in fuel/system group 4.
Survey: 1985 RI Derivations from RI data sets (ZRI17C4)

Description: Fuel used in fuel/system group 5.
Survey: 1985 RI Derivations from RI data sets (ZRI17C5)

Description: Natural gas used for home heating?
Survey: 1983 PNW Residential Survey (PNW377 Q-135)

Description: Payment for electricity for home heating.
Survey: 1983 PNW Residential Survey (PNW368 Q-136)

Description: Payment for fuel oil for home heating.
Survey: 1983 PNW Residential Survey (PNW398 Q-136)

Description: Payment for natural gas for home heating.
Survey: 1983 PNW Residential Survey (PNW378 Q-136)

Description: Payment for tank gas for home heating.
Survey: 1983 PNW Residential Survey (PNW388 Q-136)

Description: Tank gas used for home heating.
Survey: 1983 PNW Residential Survey (PNW387 Q-135)

Space Heating Data
Characteristics
Summary

FUELS USED

Changes

Description: Changed fuel used most for heating in the past year?
Survey: 1983 PNW Residential Survey (PNW164 Q-54)

Description: Type of fuel used most for heating before change.
Survey: 1983 PNW Residential Survey (PNW167 Q-56)

Description: Month fuel used most for heating changed.
Survey: 1983 PNW Residential Survey (PNW165 Q-55)

Description: Year fuel used most for heating changed.
Survey: 1983 PNW Residential Survey (PNW166 Q-55)

Space Heating Data
Characteristics
Summary

EQUIPMENT/GENERAL

Systems Present

Description: Space heating system used most.
Survey: 1985 Residential Occupant Survey (RT052 Q-5)
1985 Fundamental Residential Characteristics (FRC006)
1985 K Ritland ELCAP Res Chcts (FRC006)
1985 Residential Occupant Survey (RM036 Q-8)

Description: Equipment used if additional fuel is gas or kerosene.
Survey: 1983 PNW Residential Survey (PNW182 Q-62)

Description: Equipment used most for space heating if fueled by gas.
Survey: 1983 PNW Residential Survey (PNW158)

Description: Heatpump for space heating at site?
Survey: 1983 PNW Residential Survey (ZPNW054)

Description: Fossil fuel space heating system available.
Survey: 1985 Fundamental Residential Characteristics (FRC016)
1985 K Ritland ELCAP Res Chcts (FRC016)

Description: Equipment used in HVAC system. (Mult obs)
Survey: 1985 RI Space-Heating Equipment (RI017D Q-17D)

Description: Number of fuel and heating system combinations at site.
Survey: 1985 RI Derivations from RI data sets (ZRI17A Q-17)

Description: Number of heating units at site.
Survey: 1985 RI Derivations from RI data sets (ZRI17B Q-17)

Description: Number of heating units in fuel/system group 1.
Survey: 1985 RI Derivations from RI data sets (ZRI17B1 Q-17)

Description: Number of heating units in fuel/system group 2.
Survey: 1985 RI Derivations from RI data sets (ZRI17B2 Q-17)

Description: Number of heating units in fuel/system group 3.
Survey: 1985 RI Derivations from RI data sets (ZRI17B3 Q-17)

Description: Number of heating units in fuel/system group 4.
Survey: 1985 RI Derivations from RI data sets (ZRI17B4 Q-17)

Description: Number of heating units in fuel/system group 5.
Survey: 1985 RI Derivations from RI data sets (ZRI17B5 Q-17)

Space Heating Data
Characteristics
Summary

EQUIPMENT/GENERAL

Systems Present (cont'd)

Description:	Other space heating system used.
Survey:	1985 Residential Occupant Survey (RT054 Q-57)
	1985 Residential Occupant Survey (RM037 Q-9)
Description:	System used in fuel/system group 1.
Survey:	1985 RI Derivations from RI data sets (ZRI17D1)
Description:	System used in fuel/system group 2.
Survey:	1985 RI Derivations from RI data sets (ZRI17D2)
Description:	System used in fuel/system group 3.
Survey:	1985 RI Derivations from RI data sets (ZRI17D3)
Description:	System used in fuel/system group 4.
Survey:	1985 RI Derivations from RI data sets (ZRI17D4)
Description:	System used in fuel/system group 5.
Survey:	1985 RI Derivations from RI data sets (ZRI17D5)

Space Heating Data
Characteristics
Summary

EQUIPMENT/GENERAL

Changes

- Description: Replaced heating system in past year?
Survey: 1988 ELCAP Residential Survey (EL8094 Q-21E)
- Description: Replaced heating system since home built?
Survey: 1988 ELCAP Residential Survey (EL8095 Q-21F)
- Description: Changed space heating system used most in past two years?
Survey: 1985 Residential Occupant Survey (RT053 Q-56)
- Description: Heating equipment installed when moved in?
Survey: 1983 PNW Residential Survey (PNW168 Q-57)
- Description: Year heating equipment used most of the time installed.
Survey: 1983 PNW Residential Survey (PNW169 Q-58)
- Description: Estimated period heating equipment used most of the time installed.
Survey: 1983 PNW Residential Survey (PNW170 Q-59)

Space Heating Data
Characteristics
Summary

EQUIPMENT/GENERAL

Miscellaneous

Description: Model number on HVAC equipment nameplate. (Mult obs)
Survey: 1985 RI Space-Heating Equipment (RI017F Q-17F)

Description: Name of HVAC equipment manufacturer. (Mult obs)
Survey: 1985 RI Space-Heating Equipment (RI017E Q-17E)

Description: Input capacity of HVAC equipment. (Mult obs)
Survey: 1985 RI Space-Heating Equipment (RI017G Q-17G)

Description: Output capacity of HVAC equipment. (Mult obs)
Survey: 1985 RI Space-Heating Equipment (RI017H Q-17H)

Description: HVAC equipment controlled by clock thermostat?
Survey: 1985 Residential Occupant Survey (RM011 Q-4A)
1985 RI Space-Heating Equipment (RI017K Q-17K)

Description: Device used to control temperature in home?
Survey: 1983 PNW Residential Survey (PNW191 Q-70)

Description: Type of thermostat on heating system.
Survey: 1983 PNW Residential Survey (PNW192 Q-71)

Description: Fan serving central furnace at site?
Survey: 1985 RI Mechanical Ventilation (RI015C Q-15C)

Description: HVAC equipment has mechanism to draw outside air into building? (Mult obs)
Survey: 1985 RI Space-Heating Equipment (RI017J Q-17J)

Description: Main heating equipment serves residence or others.
Survey: 1983 PNW Residential Survey (PNW163 Q-53)

Description: Condition zone served by HVAC equipment. (Mult obs)
Survey: 1985 RI Space Heating Equipment (RI017I Q-17I)

Description: Zones served by HVAC equipment. (Mult obs)
Survey: 1985 RI Space Heating Equipment (RI017L Q-17L)

Description: Heating (h), cooling (c) identifier code for HVAC system.
(Mult obs)
Survey: 1985 RI Space Heating Equipment (RI017A Q-17A)
1985 RI Space Heating Equipment (RI017B Q-17B)

Space Heating Data
Characteristics
Summary

ELECTRIC EQUIPMENT

Systems Present

Description: Permanently installed electric heating equipment present?
Survey: 1985 RI Derivations from RI data sets (ZRI17H)

Description: Electric baseboard heating available?
Survey: 1985 K Ritland ELCAP Res Chcts (FRC007B)

Description: Electric central forced air heating available?
Survey: 1985 K Ritland ELCAP Res Chcts (FRC007A)

Description: Electric individual room force air heating available?
Survey: 1985 K Ritland ELCAP Res Chcts (FRC007E)

Description: Electric radiant heating available?
Survey: 1985 K Ritland ELCAP Res Chcts (FRC007C)

Description: Electric space heating system available?
Survey: 1985 Fundamental Residential Characteristics (FRC007)
1985 K Ritland ELCAP Res Chcts (FRC007)

Description: Electric heatpump heating available?
Survey: 1985 K Ritland ELCAP Res Chcts (FRC007D)

Description: Heat pump used for space heating at site?
Survey: 1985 Residential Occupant Survey (ZRM014)
1985 Residential Occupant Survey (ZRT009)
1985 RI Derivations from RI data sets (ZRI017E)

Description: Equipment used most for space heating if fueled by electricity.
Survey: 1983 PNW Residential Survey (PNW159 Q-50)

Description: Equipment used if additional fuel is electricity.
Survey: 1983 PNW Residential Survey (PNW183 Q-63)

Space Heating Data
Characteristics
Summary

WOOD EQUIPMENT

Systems Present

Description: Wood space heating system available?
Survey: 1985 Residential Occupant Survey (RT055 Q-58)
1985 Fundamental Residential Characteristics (FRC009)
1985 K Ritland ELCAP Res Chcts (FRC009)

Description: Equipment used if additional fuel is wood.
Survey: 1983 PNW Residential Survey (PNW184 Q-64)

Description: Equipment used most for space heating if fueled by wood
Survey: 1983 PNW Residential Survey (PNW160 Q-51)

Description: Number of free-standing wood stoves used.
Survey: 1987 ELCAP Residential Survey (EL7065 Q-15A)
1988 ELCAP Residential Survey (EL8063 Q-16A)

Description: Number of wood furnaces in the dwelling.
Survey: 1985 RI Derivations from RI data sets (ZRI15B)

Description: Number of other wood burning equipment items used.
Survey: 1987 ELCAP Residential Survey (EL7070 Q-15F)
1988 ELCAP Residential Survey (EL8068 Q-16F)

Description: Number of wood furnaces used.
Survey: 1987 ELCAP Residential Survey (EL7067 Q-15C)
1988 ELCAP Residential Survey (EL8065 Q-16C)

Space Heating Data
Characteristics
Summary

WOOD EQUIPMENT

Systems Present (cont'd)

Description: Number of fireplaces used with heatolator.
Survey: 1987 ELCAP Residential Survey (EL7068 Q-15D)
1988 ELCAP Residential Survey (EL8066 Q-16D)

Description: Number of fireplaces with insert used.
Survey: 1987 ELCAP Residential Survey (EL7066 Q-15B)
1988 ELCAP Residential Survey (EL8064 Q-16B)

Description: Number of fireplaces used without heatolator.
Survey: 1987 ELCAP Residential Survey (EL7069 Q-15E)
1988 ELCAP Residential Survey (EL8067 Q-16E)

Description: Equipment used in fireplace #1 if fireplaces use most often
for heat.
Survey: 1983 PNW Residential Survey (PNW161 Q-52)

Description: Equipment used in fireplace #2 if fireplaces used most often
for heat.
Survey: 1983 PNW Residential Survey (PNW162 Q-52)

Description: Equipment in fireplace #1 if additional fuel is wood.
Survey: 1983 PNW Residential Survey (PNW185 Q-65)

Description: Equipment in fireplace #2 if additional fuel is wood.
Survey: 1983 PNW Residential Survey (PNW186 Q-65)

Space Heating Data
Characteristics
Summary

WOOD EQUIPMENT

Changes

Description: Considered installing wood stove or fireplace insert?
Survey: 1985 Residential Occupant Survey (RM081 Q-33B)

Description: Major factors in choosing to install wood stove or insert.
Survey: 1985 Residential Occupant Survey (RM082 Q-33C)

Description: Installed wood stove/fireplace insert in last year.
Survey: 1985 RI Modifications and Additions (RIMOD22 Q-2T)
1987 ELCAP Residential Survey (EL7126 Q-20F)

Description: Added wood stove in last year.
1988 ELCAP Residential Survey (EL8110 Q-21U)

Description: Added wood stove since home built?
Survey: 1988 ELCAP Residential Survey (EL8111 Q-21V)

Description: Estimated time period wood equipment was installed.
Survey: 1985 Residential Occupant Survey (RM080 Q-33A)

Description: Month wood stove installed.
Survey: 1985 RI Modifications and Additions (RIMOD74 Q-8C)

Description: Year wood stove installed.
Survey: 1985 RI Modifications and Additions (RIMOD75 Q-8D)

Description: When was wood burning equipment installed?
Survey: 1985 Residential Occupant Survey (RT056 Q-59)

Description: When was second unit of wood burning equipment installed?
Survey: 1985 Residential Occupant Survey (RT126 Q-59A)

Description: When was third unit of wood burning equipment installed?
Survey: 1985 Residential Occupant Survey (RT127 Q-59B)

Description: Wood stove in home when it was purchased?
Survey: 1985 Modifications and Additions (RIMOD73 Q-8B)

Miscellaneous

Description: Area heated by the wood stove.
Survey: 1985 RI Modifications and Additions (RIMOD72 Q-8A)

Description: General opinion of heating with wood.
Survey: 1985 Residential Occupant Survey (RT059 Q-63)

Space Heating Data
Characteristics
Summary

CONSUMER BEHAVIOR

Internal Temperature

Description: Temperature in house while awake.
Survey: 1983 PNW Residential Survey (PNW193 Q-72A)
1983 PNW Residential Survey (ZPNW049)
1985 Residential Occupant Survey (RM008 Q-3A)
1985 Residential Occupant Survey (RT111 Q-115)
1986 ELCAP Residential Survey (EL6002 Q-2)
1987 ELCAP Residential Survey (EL7024 Q-6A)
1987 ELCAP Residential Survey (EL7201)
1988 ELCAP Residential Survey (EL8005 Q-6)

Description: Temperature in house while asleep.
Survey: 1983 PNW Residential Survey (PNW199 Q-72C)
1983 PNW Residential Survey (ZPNW050)
1985 Residential Occupant Survey (RM009 Q-3B)
1985 Residential Occupant Survey (RT112 Q-116)
1987 ELCAP Residential Survey (EL7027 Q-7A)
1987 ELCAP Residential Survey (EL7202)
1988 ELCAP Residential Survey (EL8006 Q-7)

Description: Temperature in house while nobody home.
Survey: 1983 PNW Residential Survey (PNW196 Q-72B)
1983 PNW Residential Survey (ZPNW051)
1985 Residential Occupant Survey (RM010 Q-3C)
1985 Residential Occupant Survey (RT113 Q-117)

Description: Maximum temperature in house while awake.
Survey: 1983 PNW Residential Survey (PNW195 Q-72)
1987 ELCAP Residential Survey (EL7026 Q-6C)

Description: Maximum temperature in house while asleep.
Survey: 1983 PNW Residential Survey (PNW201 Q-72)
1987 ELCAP Residential Survey (EL7029 Q-7C)

Description: Maximum temperature in house while nobody home.
Survey: 1983 PNW Residential Survey (PNW198 Q-72)

Space Heating Data
Characteristics
Summary

CONSUMER BEHAVIOR

Internal Temperature (cont'd)

Description: Minimum temperature in house while asleep.
Survey: 1983 PNW Residential Survey (PNW200 Q-72)
1987 ELCAP Residential Survey (EL7028 Q-7B)

Description: Minimum temperature in house while awake.
Survey: 1983 PNW Residential Survey (PNW194 Q-72)
1987 ELCAP Residential Survey (EL7025 Q-6B)

Description: Minimum temperature in house while nobody home.
Survey: 1983 PNW Residential Survey (PNW197 Q-72)

Description: Turning down inner temperature is worthwhile.
Survey: 1983 PNW Residential Survey (PNW069 Q-22)

Description: Discomfort when inner temp is below 68?
Survey: 1983 PNW Residential Survey (PNW066 Q-22)
1986 ELCAP Residential Survey (EL6016 Q-6A)

Space Heating Data
Characteristics
Summary

CONSUMER BEHAVIOR

Conservation Actions - General

Description: First conservation step taken due to energy inspection.
Survey: 1985 Residential Occupant Survey (RT094 Q-98)

Description: Second conservation step taken due to energy inspection.
Survey: 1985 Residential Occupant Survey (RT123 Q-98)

Description: Third conservation step taken due to energy inspection.
Survey: 1985 Residential Occupant Survey (RT124 Q-98)

Description: Were conservation steps taken due to own initiative.
Survey: 1985 Residential Occupant Survey (RT095 Q-99)

Description: First conservation step taken due to own initiative.
Survey: 1985 Residential Occupant Survey (RT096 Q-101)

Description: Second conservation step taken due to own initiative.
Survey: 1985 Residential Occupant Survey (RT097 Q-101)

Conservation Actions - Automatic Setback

Description: Automatic setback thermostat recommended by audit.
Survey: 1983 PNW Residential Survey (PNW125 Q-30A)

Description: Automatic setback thermostat added after audit.
Survey: 1983 PNW Residential Survey (PNW126 Q-30B)

Description: Automatic setback thermostat added since May 1980.
Survey: 1983 PNW Residential Survey (PNW127 Q-31AB)

Space Heating Data
Characteristics
Summary

CONSUMER BEHAVIOR

Conservation Actions - Reduce Temperature

Description: Reduced home heating temperature in last year.
Survey: 1987 ELCAP Residential Survey (EL7130 Q-20J)
1988 ELCAP Residential Survey (EL8118 Q-21CC)

Description: Reduced home heating temperature recommended by audit.
Survey: 1983 PNW Residential Survey (PNW122 Q-30A)

Description: Reduced home heating temperature after audit.
Survey: 1983 PNW Residential Survey (PNW123 Q-30B)

Description: Reduced home heating temperature since May 1980.
Survey: 1983 PNW Residential Survey (PNW124 Q-31AB)

Description: Reduced home heating temperature since home built.
Survey: 1988 ELCAP Residential Survey (EL8119 Q-21DD)

Space Heating Data
Characteristics
Summary

CONSUMER BEHAVIOR

Miscellaneous

Description: Number of times a day pets let out.
Survey: 1986 ELCAP Residential Survey (EL6015 Q-5)

Description: Someone home 9 am to 5 pm?
Survey: 1987 ELCAP Residential Survey (EL7072 Q-17)
1988 ELCAP Residential Survey (EL8057 Q-11)
1983 PNW Residential Survey (PNW202 Q-73)

Description: Someone home weekdays 1/2 time 11pm to 5am?
Survey: 1985 Residential Occupant Survey (RT116 Q-120)
1985 Residential Occupant Survey (RT115 Q-119)

Description: Someone home weekdays 1/2 time 8am to 5pm?
Survey: 1985 Residential Occupant Survey (RT114 Q-118)

Description: Someone home weekend 1/2 time 11pm to 8am?
Survey: 1985 Residential Occupant Survey (RT119 Q-123)

Description: Someone home weekend 1/2 time 5pm to 11pm?
Survey: 1985 Residential Occupant Survey (RT118 Q-122)

Description: Someone home weekend 1/2 time 8am to 5pm?
Survey: 1985 Residential Occupant Survey (RT117 Q-121)

Water Heating Data

Category Index *

Fuels Used:

- Main Fuels (1)
- Backup/Other Fuels (1)
- Payment for Water Heating Fuel (2)

Water Heating Equipment:

- Number of Water Heaters (3)
- Storage Capacity (3)
- Date Installed (3)
- Auxiliary Equipment (4)
- Location (5)
- Additions (5)

Hot Water Distribution: Source of Hot Water (6)

Consumer Behavior and Attitudes:

- Tap Temperature (7)
- Conservation Actions - General (8)
- Conservation Actions - Tank Insulation (9)
- Conservation Actions - Pipe Insulation (10)
- Conservation Actions - Reduce Temperature (11)
- Conservation Actions - Reduce Water Flow (11)
- Opinions about Using Hot Water (12)

Additional Factors Effecting Hot Water Use:

- Clothes Washers (13)
- Showers/Baths (14)
- Dishwashers (15)

* Page number in parantheses

Water Heating Data
Characteristics
Summary

FUELS USED

Main Fuels

Description: Water heating fuel used most.
Survey: 1983 PNW Residential Survey (PNW228 Q-76)
1985 Residential Occupant Survey (RT084 Q-88)
1985 Residential Occupant Survey (RM038 Q-10)

Description: Water heater fuel for primary water heater.
Survey: 1985 RI Derivations from RI data sets (ZRI23A Q-23)

Description: Fuel used by each water heater (multiple entries).
Survey: 1985 RI Water-Heating Equipment (RI023A Q-23)

Backup/Other Fuels

Description: Are other fuels used for water heating?
Survey: 1983 PNW Residential Survey (PNW236 Q-84)

Description: Other fuels used for water heating.
Survey: 1983 PNW Residential Survey (PNW237 Q-85)

Description: Use of electricity for water heating?
Survey: 1983 PNW Residential Survey (PNW365 Q-135A)
1985 RI Derivations from RI data sets (ZRI23AA Q-23)

Description: Use of natural gas for water heating?
Survey: 1983 PNW Residential Survey (PNW375 Q-135F)

Description: Use of bottled or tank gas for water heating?
Survey: 1983 PNW Residential Survey (PNW385 Q-135K)

Description: Use of fuel oil or kerosene for water heating?
Survey: 1983 PNW Residential Survey (PNW395 Q-135P)

Description: Is the water heater solar-assisted?
Survey: 1985 RI Water-Heating Equipment (RI023C Q-23)

Description: Is the primary water heater solar-assisted?
Survey: 1985 RI Derivations from RI data sets (ZRI23C Q-23)

Description: Electric water heater with solar assistance in residence?
(derived from FRC024)
Survey: 1985 K Ritland ELCAP RES Chcts (FRC024E Q-24)

Water Heating Data
Characteristics
Summary

FUELS USED

Payment for water heating fuel

Description: Payment for electricity for water heating?
Survey: 1983 PNW Residential Survey (PNW366 Q-136A)

Description: Payment for natural gas for water heating?
Survey: 1983 PNW Residential Survey (PNW376 Q-136F)

Description: Payment for bottled or tank gas for water heating?
Survey: 1983 PNW Residential Survey (PNW386 Q-136K)

Description: Payment for fuel oil or kerosene for water heating?
Survey: 1983 PNW Residential Survey (PNW396 Q-136P)

Water Heating Data
Characteristics
Summary

WATER HEATING EQUIPMENT

Number of Water Heaters

Description: Number of electric water heaters in residence (derived from RI data).
Survey: 1985 K Ritland ELCAP RES Chcts (FRC024A Q-24)

Description: Number of primary water heaters (derived from RI data).
Survey: 1985 RI Derivations from RI data sets (ZRI23N Q-23)

Description: Number of special water heaters at residence.
Survey: 1985 Fundamental Res Characteristics (FRC025 Q-25)
1985 K Ritland ELCAP RES Chcts (FRC025 Q-25)

Storage Capacity

Description: Capacity of each water heater (multiple entries).
Survey: 1985 RI Water-Heating Equipment (RI023D Q-23)

Description: Volume of the electric water heaters in the residence.
Survey: 1985 Fundamental Res Characteristics (FRC017 Q-17)
1985 K Ritland ELCAP RES Chcts (FRC017 Q-17)

Description: Primary water heater capacity.
Survey: 1985 RI Derivations from RI data sets (ZRI23D Q-23)

Description: Electric water heater capacity.
Survey: 1985 RI Derivations from RI data sets (ZRI23R Q-23)

Description: Non-electric water heater capacity.
Survey: 1985 RI Derivations from RI data sets (ZRI23U Q-23)

Date Installed

Description: Water heater installed when household moved in?
Survey: 1983 PNW Residential Survey (PNW230 Q-78)

Description: Year water heater installed in home.
Survey: 1983 PNW Residential Survey (PNW231 Q-79)

Description: Estimated year water heater installed in home.
Survey: 1983 PNW Residential Survey (PNW232 Q-80)

Water Heating Data
Characteristics
Summary

WATER HEATING EQUIPMENT

Auxiliary Equipment

Description: Bottom board present in water heater? (multiple entries)
Survey: 1985 RI Water-Heating Equipment (RI023F Q-23)

Description: Thermal traps present on water heater? (multiple entries)
Survey: 1985 RI Water-Heating Equipment (RI023G Q-23)

Description: Timer located on the water heater? (multiple entries)
Survey: 1985 RI Water-Heating Equipment (RI023H Q-23)

Description: Is a bottom board present in the primary water heater?
Survey: 1985 RI Derivations from RI data sets (ZRI23F Q-23)

Description: Are thermal traps present on the primary water heater?
Survey: 1985 RI Derivations from RI data sets (ZRI23G Q-23)

Description: Is a timer located on the primary water heater?
Survey: 1985 RI Derivations from RI data sets (ZRI23H Q-23)

Description: Auxiliary features of the water heater(s).
Survey: 1985 Fundamental Res Characteristics (FRC024 Q-24)
1985 K Ritland ELCAP RES Chcts (FRC024 Q-24)

Water Heating Data
Characteristics
Summary

WATER HEATING EQUIPMENT

Water Heater Location

Description: Water heater in heated area?
Survey: 1983 PNW Residential Survey (PNW233 Q-81)
1985 Residential Occupant Survey (RT082 Q-86)

Description: Location of water heater by inspector defined heating zone.
(multiple entries)
Survey: 1985 RI Water-Heating Equipment (RI023B Q-23)

Description: Location of primary water heater by inspector defined
heating zone.
Survey: 1985 RI Derivations from RI data sets (ZRI23B Q-23B)

Description: Location of secondary water heater by inspector defined
heating zone.
Survey: 1985 RI Derivations from RI data sets (ZRI23P Q-23B)

Description: Secondary water heater in unconditioned zone?
Survey: 1985 RI Derivations from RI data sets (ZRI23PP Q-23B)

Description: Location of hot water pipes by defined heating zones.
Survey: 1985 RI Derivations from RI data sets (RI023J Q-23)

Description: Location of electric water heaters in residence.
Survey: 1985 K Ritland ELCAP RES Chcts (FRC024B Q-24)

Addition of Equipment

Description: Replaced water heater since 1983?
Survey: 1985 Residential Occupant Survey (RT081 Q-85)
1985 RI Modifications and Additions (RIMOD57 Q-6F)

Water Heating Data
Characteristics
Summary

HOT WATER DISTRIBUTION

Source of Hot Water

Description: Source of hot water.

Survey: 1983 PNW Residential Survey (PNW229 Q-77)

Water Heating Data
Characteristics
Summary

CONSUMER BEHAVIOR AND ATTITUDES

Tap Temperature

Description:	Temperature of hot water at residence.
Survey:	1983 PNW Residential Survey (PNW402 Q0-1)
Description:	Hot water used in the last hour?
Survey:	1983 PNW Residential Survey (PNW403 Q0-2)
Description:	Hot water used for clothes washer in the last hour?
Survey:	1983 PNW Residential Survey (PNW404 Q0-3)
Description:	Hot water used for dishwasher in the last hour?
Survey:	1983 PNW Residential Survey (PNW405 Q0-3)
Description:	Hot water used for bath in the last hour?
Survey:	1983 PNW Residential Survey (PNW406 Q0-3)
Description:	Hot water used for other purpose in the last hour?
Survey:	1983 PNW Residential Survey (PNW407 Q0-3)
Description:	Temperature (F) of hot water near heater.
Survey:	1985 RI Water-Heating Equipment (RI023I Q-23)
Description:	Temperature (F) of hot water near primary heater at residence.
Survey:	1985 RI Derivations from RI data sets (ZRI23I Q-23)
Description:	Temperature (F) of hot water near electric water heater at residence.
Survey:	1985 RI Derivations from RI data sets (ZRI23T Q-23)
Description:	Temperature (F) of hot water near non-electric water heater at residence.
Survey:	1985 RI Derivations from RI data sets (ZRI23Z Q-23)
Description:	Average tap temperature (F) for electric water heaters in the residence.
Survey:	1985 Fundamental Res Characteristics (FRC018 Q-18) 1985 K Ritland ELCAP RES Chcts (FRC018 Q-18)

Water Heating Data
Characteristics
Summary

CONSUMER BEHAVIOR AND ATTITUDES

Conservation Actions - General

Description: Number of water heater retro-fits recommended by audit.
Survey: 1983 PNW Residential Survey (ZPNW038)

Description: Number of water heater retro-fits taken after audit.
Survey: 1983 PNW Residential Survey (ZPNW033)

Description: Ratio of water heater retro-fits taken/# recommended by
audit.
Survey: 1983 PNW Residential Survey (ZPNW043)

Description: Energy conservation steps taken due to audit.
Survey: 1985 Residential Occupant Survey (RT094 Q-98)
1985 Residential Occupant Survey (RT123 Q-98)
1985 Residential Occupant Survey (RT124 Q-98)

Description: Conservation steps taken on own.
Survey: 1985 Residential Occupant Survey (RT096 Q-100)
1985 Residential Occupant Survey (RT097 Q-101)

Water Heating Data
Characteristics
Summary

CONSUMER BEHAVIOR AND ATTITUDES

Conservation Actions - Water heater insulation

Description: Audit recommends wrap water heater?
Survey: 1983 PNW Residential Survey (PNW107 Q-30A)

Description: Wrap water heater since audit?
Survey: 1983 PNW Residential Survey (PNW108 Q-30B)

Description: Wrap water heater since May 1980?
Survey: 1983 PNW Residential Survey (PNW109 Q31-AB)

Description: Wrap provided by fuel supplier?
Survey: 1983 PNW Residential Survey (PNW235 Q-83)

Description: Water heater wrapped?
Survey: 1983 PNW Residential Survey (PNW234 Q-82)
1985 Residential Occupant Survey (RT083 Q-87)
1985 Residential Occupant Survey (RM013 Q-4C)

Description: Electric water heater with tank wrap at residence (derived from FRC024)?
Survey: 1985 K Ritland ELCAP RES Chcts (FRC024C Q-24)

Description: Type of water heater insulation.
Survey: 1985 RI Water-Heating Equipment (RI023E Q-23)

Description: Type of insulation in primary water heater.
Survey: 1985 RI Derivations from RI data sets (ZRI23E Q-23)

Description: Type of insulation in electric water heater.
Survey: 1985 RI Derivations from RI data sets (ZRI23SQ-23)

Description: Type of insulation in non-electric water heater.
Survey: 1985 RI Derivations from RI data sets (ZRI23WQ-23)

Description: Water heater wrapped in last year?
Survey: 1987 ELCAP Residential Survey (EL7127 Q-20)
1988 ELCAP Residential Survey (EL8112 Q-21W)

Description: Water heater wrapped since the home was built.
Survey: 1988 ELCAP Residential Survey (EL8113 Q-21X)

Water Heating Data
Characteristics
Summary

CONSUMER BEHAVIOR AND ATTITUDES

Conservation Actions - Water pipe insulation

Description:	Water pipe insulation included in energy professional's recommendation in the energy inspection?
Survey:	1983 PNW Residential Survey (PNW110 Q-30A)
Description:	Insulated water pipe since energy inspection?
Survey:	1983 PNW Residential Survey (PNW111 Q-30B)
Description:	Insulated water pipe in last three years (since May 1980) if no energy inspection conducted at site in 1983?
Survey:	1983 PNW Residential Survey (PNW112 Q-30C)
Description:	Hot water pipes insulated?
Survey:	1985 RI Water-Heating Equipment (RI023K Q-23)
Description:	Electric water heater with pipe wrap at residence (derived from FRC024).
Survey:	1985 K Ritland ELCAP RES Chcts (FRC024D Q-24)
Description:	Insulation R-value of hot water pipes.
Survey:	1985 RI Water-Heating Equipment (RI023L Q-23)
Description:	Insulation R-value of water pipes or duct work.
Survey:	1985 RI Modifications and Additions (RIMOD42 Q-40)
Description:	Insulation R-value of hot water pipes near primary water heater.
Survey:	1985 RI Derivations from RI data sets (ZRI23L Q-23)
Description:	Water pipes insulated in last year.
Survey:	1988 ELCAP Residential Survey (EL8114 Q-21Y) 1987 ELCAP Residential Survey (EL7128 Q-20H)
Description:	Water pipes insulated since home was built.
Survey:	1988 ELCAP Residential Survey (EL8115 Q-21Z)

Water Heating Data
Characteristics
Summary

CONSUMER BEHAVIOR AND ATTITUDES

Conservation Actions - Reduce hot water temperature

Description: Reduce water heater temp included in energy inspector's recommendation in the energy inspection?
Survey: 1983 PNW Residential Survey (PNW119 Q-30A)

Description: Reduce water heater temperature since audit?
Survey: 1983 PNW Residential Survey (PNW120 Q-30B)

Description: Reduce temperature since May 1980?
Survey: 1983 PNW Residential Survey (PNW121 Q-31B)

Description: Reduced water heating temperature in last year?
Survey: 1987 ELCAP Residential Survey (EL7129 Q-20)
1988 ELCAP Residential Survey (EL8116 Q-21AA)

Description: Reduce water temperature since home was built.
Survey: 1988 ELCAP Residential Survey (EL8117 Q-21BB)

Conservation Actions - Reduce hot water flow

Description: Number low-flow shower heads at residence.
Survey: 1983 PNW Residential Survey (PNW239 Q-87)

Description: Number of low-flow shower inserts at residence.
Survey: 1983 PNW Residential Survey (PNW240 Q-87)

Description: Number of low-flow devices in sinks at residence.
Survey: 1983 PNW Residential Survey (PNW241 Q-88)

Description: Permanently removed low-flow devices?
Survey: 1983 PNW Residential Survey (PNW242 Q-89)

Description: Reason for removing low-flow devices.
Survey: 1983 PNW Residential Survey (PNW243 Q90)

Description: Low flow shower heads at residence?
Survey: 1985 Residential Occupant Survey (RM012 Q-4B)

Description: Low flow shower heads installed in bathroom since the home was built?
Survey: 1988 ELCAP Residential Survey (EL8082 Q-19E)

Water Heating Data
Characteristics
Summary

CONSUMER BEHAVIOR AND ATTITUDES

Consumer Attitudes about Using Hot Water

Description: Reducing water temperature is economically attractive.
Survey: 1983 PNW Residential Survey (PNW067 Q-22)
1986 ELCAP Residential Survey (EL6017 Q-6b)

Description: First act household would take to reduce electric bill.
Survey: 1985 Residential Occupant Survey (RT088 Q-92)

Description: Most important feature in selecting a water heater.
Survey: 1985 RI Modifications and Additions (RIMOD68 Q-7k)

Description: Second important feature in selecting a water heater.
Survey: 1985 RI Modifications and Additions (RIMOD69 Q-7l)

Water Heating Data
Characteristics
Summary

ADDITIONAL FACTORS EFFECTING HOT WATER USE

Clothes Washers

Description: Clothes washer present or used at site?
Survey: 1983 PNW Residential Survey (PNW012 Q-6)
1985 RI Derivations from RI data sets (ZRI26H Q-26H)
1985 Residential Occupant Survey (ZRM013)
1987 PNW Residential Survey (ZEL7011)
1988 ELCAP Residential Survey (ZEL8011)

Description: Clothes washer used on own electric or gas metered lines?
Survey: 1983 PNW Residential Survey (PNW289 Q-119)

Description: Replaced clothes washer since 1983?
Survey: 1985 Residential Occupant Survey (RT073 Q-77)

Description: Number of clothes washers at residence.
Survey: 1985 PNW Residential Occupant Survey (RM042 Q-12C)
1985 RI Appliances (RI026H Q-26H)
1987 ELCAP Residential Survey (EL7097 Q-18)
1988 ELCAP Residential Survey (EL8076 Q-18H)

Description: Were clothes washers purchased in last year?
Survey: 1987 ELCAP Residential Survey (EL7117 Q-19)

Description: Kept and using original clothes washer after purchase in last year?
Survey: 1987 ELCAP Residential Survey (EL7118 Q-19)

Water Heating Data
Characteristics
Summary

ADDITIONAL FACTORS EFFECTING HOT WATER USE

Showers/baths

Description:	Number of showers at site.
Survey:	1983 PNW Residential Survey (PNW238 Q-86) 1985 Residential Occupant Survey (RM039 Q-11)
Description:	Number of bathrooms at residence
Survey:	1985 Residential Occupant Survey (RT031 Q-33) 1987 ELCAP Residential Survey (EL7011 Q-4) 1988 ELCAP Residential Survey (EL8042 Q-4H)
Description:	Number of bathrooms in main living area.
Survey:	1987 ELCAP Residential Survey (EL7021 Q-5) 1988 ELCAP Residential Survey (EL8043 Q-5H)
Description:	Number of bathrooms at higher temperature than main living area.
Survey:	1987 ELCAP Residential Survey (EL7037 Q-8) 1988 ELCAP Residential Survey (EL8044 Q-8H)
Description:	Number of bathrooms at lower temperature than main living area.
Survey:	1987 ELCAP Residential Survey (EL7047 Q-9) 1988 ELCAP Residential Survey (EL8045 Q-9H)
Description:	Number of bathrooms closed off.
Survey:	1987 ELCAP Residential Survey (EL7057 Q-10) 1988 ELCAP Residential Survey (EL8046 Q-10h)
Description:	No. of bathroom/showers in conditioned space at residence.
Survey:	1985 RI Conditioning of Rooms (RI013K Q-13)
Description:	No. of bathroom/showers in unconditioned space at residence.
Survey:	1985 RI Conditioning of Rooms (RI013L Q-13)

Water Heating Data
Characteristics
Summary

ADDITIONAL FACTORS EFFECTING HOT WATER USE

Dishwashers

Description:	Dishwashers at residence?
Survey:	1983 PNW Residential Survey (PNW014 Q-6F)
Description:	Number of electric dishwashers at residence.
Survey:	1987 ELCAP Residential Survey (EL7093 Q-18)
Description:	Number of non-electric dishwashers at residence.
	1987 ELCAP Residential Survey (EL7096 Q-19)
Description:	Number of dishwashers at residence.
	1988 ELCAP Residential Survey (EL8075 Q-18F)
Description:	Dishwasher used on own electric or gas metered lines.
Survey:	1983 PNW Residential Survey (PNW292 Q-119)
Description:	Dishwasher has water heating element?
Survey:	1983 PNW Residential Survey (PNW293 Q-120) 1985 RI Dishwashers (RI025D Q-25D)
Description:	Dishwasher has energy saver switch?
Survey:	1983 PNW Residential Survey (PNW294 Q-120) 1985 RI Dishwashers (RI025C Q-25C)
Description:	Is the dishwasher energy saver switch used regularly?
Survey:	1983 PNW Residential Survey (PNW295 Q-121)
Description:	Replaced dishwasher since 1983?
Survey:	1985 Residential Occupant Survey (RT079 Q-83)
Description:	Energy saver switch on primary dishwasher?
Survey:	1985 RI Derivations from RI data sets (ZRI25C Q-25)
Description:	Water heating element on primary dishwasher?
Survey:	1985 RI Derivations from RI data sets (ZRI25B Q-25)
Description:	Were dishwashers purchased in last year?
Survey:	1987 ELCAP Residential Survey (EL7115 Q-19)
Description:	Kept and using dishwasher after purchase last year?
Survey:	1987 ELCAP Residential Survey (EL7116 Q-19)

Building Structure Data

Category Index *

Building Summary:

- Vintage (1)
- Size (2)
- Thermal Properties (2)
- Miscellaneous (2)
- Room Breakdowns
 - All Rooms (3)
 - Bathrooms (4)
 - Bedrooms (5)
 - Dens (6)
 - Dining Rooms (7)
 - Family Rooms (8)
 - Kitchen/Dining Rooms (9)
 - Kitchens (10)
 - Living Rooms (11)
 - Other Large Rooms (12)
 - Other Small Rooms (13)
- Structural Changes
 - additions (14)
 - renovations (15)

Floors:

- Size
 - all floors (16)
 - by space heating (16)
 - by construction type (17)
 - first floor (18)
 - second floor (19)
 - third floor (20)
- Insulation (21)
- Thermal Properties (21)
- Changes (22)
- Miscellaneous (23)

* Page number in parenthesis

Building Structure Data

Category Index *

Walls:

- Size
 - include windows and doors (24)
 - exclude windows and doors (25)
 - windows and doors (26)
- Insulation (27)
- Thermal Properties (27)
- Changes (28)
- Miscellaneous (29)

Windows:

- Size
 - all windows including sash (30)
 - all windows excluding sash (31)
 - all windows/new caulking including sash (32)
 - all windows/old caulking including sash (33)
 - all windows/weatherstripping including sash (34)
- Insulation (35-36)
- Thermal Properties (36)
- Changes
 - additions/replacements (37)
 - renovation/weatherization (38)
- Miscellaneous (39)

Ceiling/Roof:

- Size (40)
- Insulation (41)
- Thermal Properties (41)
- Changes (42)
- Miscellaneous (42)

Foundation/Basement:

- Size (43-44)
- Insulation (45)
- Thermal Properties (45)
- Changes (45)
- Miscellaneous (46)

* Page number in parenthesis

Building Structure Data

Category Index *

Doors:

Size

- all door types (47)
- with new caulking (48)
- with old caulking (49)
- with weatherstripping (50)
- glass area (51)

Insulation (52)

Thermal Properties (52)

Changes

- additions/replacements (53)
- renovation/weatherization (54)

Miscellaneous (55)

Ducting:

Size (56)

Insulation (56)

Thermal Properties (56)

Changes (56)

Miscellaneous (57)

* Page number in parenthesis

Building Structure Data
Characteristics
Categories

BUILDING SUMMARY

Vintage

Description: Year dwelling was built.
Survey: 1983 PNW Residential Survey (PNW023 Q-14)
1985 RI Building General Info (RI001D Q-1D)
1985 Residential Occupant Survey (RM061 Q-21)
1985 Residential Occupant Survey (RT004 Q-4)
1988 ELCAP Residential Survey (EL8001 Q-1)

Description: Estimated period dwelling was built.
Survey: 1983 PNW Residential Survey (PNW024 Q-15)
1983 PNW Residential Survey (ZPNW019)
1985 RI Building General Info (RI001E Q-1E)
1985 K Ritland ELCAP Res Chcts (FRC003)
1985 Fundamental Residential Characteristics (FRC003)
1985 Residential Occupant Survey (ZRM005)

Description: Decade when dwelling built.
Survey: 1985 K Ritland ELCAP Res Chcts (FRC003A)

Building Structure Data
Characteristics
Categories

BUILDING SUMMARY

Size

Description: Volume heated by a specific heating system. (mult obs)
Survey: 1985 RI Conditioned Zones (RI011E Q-11E)
1985 RI Conditioned Zones (RI011F Q-11F)

Description: Volume of conditioned zone/total.
Survey: 1985 RI Conditioned Zones (ZRI11C)

Description: Volume of unconditioned zone/total.
Survey: 1985 RI Conditioned Zones (ZRI11D)

Description: Volume of unheated zone in dwelling. (Mult obs)
Survey: 1985 RI Conditioned Zones (RI011I Q-11I)

Description: Number of conditioned levels in dwelling.
Survey: 1985 RI Building General Info (RI001F Q-1F)

Description: Number of conditioned zones.
Survey: 1985 RI Conditioned Zones (ZRI11E)

Description: Number of unconditioned zones.
Survey: 1985 RI Conditioned Zones (ZRI11F)

Description: Surface area of building envelope.
Survey: 1985 ELCAP Calculated Residential UA (UA001)
1985 ELCAP Calculated Residential UA (UA003)

Thermal Properties

Description: Total r-value of building.
Survey: 1985 ELCAP Calculated Residential UA (UA004)

Description: Total ua of building.
Survey: 1985 ELCAP Calculated Residential UA (UA002)

Miscellaneous

Description: Detached or attached if 2-4 units
Survey: 1983 PNW Residential Survey (PNW007 Q-4)

Description: Number of housing units in building
Survey: 1983 PNW Residential Survey (PNW006 Q-3)

Description: Type of dwelling
Survey: 1983 PNW Residential Survey (PNW005 Q-2)

Building Structure Data
Characteristics
Categories

BUILDING SUMMARY

Room Breakdowns/All Rooms

Description: Number of rooms.
Survey: 1983 PNW Residential Survey (PNW046 Q-17)
1985 RI Conditioning of Rooms (ZRI13A)
1985 Residential Occupant Survey (ZRM002)
1985 Residential Occupant Survey (ZRT002)
1987 ELCAP Residential Survey (EL7204)
1988 ELCAP Residential Survey (ZEL8001)

Description: Number of rooms at higher temperature.
Survey: 1987 ELCAP Residential Survey (ZEL7003)
1988 ELCAP Residential Survey (ZEL8003)

Description: Number of rooms at lower temperature.
Survey: 1987 ELCAP Residential Survey (ZEL7004)
1988 ELCAP Residential Survey (ZEL8004)

Description: Number of rooms not heated.
Survey: 1983 PNW Residential Survey (PNW047 Q-18)
1985 Residential Occupant Survey (ZRM001)
1985 Residential Occupant Survey (ZRT001)
1986 ELCAP Residential Survey (EL6003 Q-3A)
1986 ELCAP Residential Survey (ZEL6001)
1987 ELCAP Residential Survey (ZEL7005)
1988 ELCAP Residential Survey (ZEL8005)

Description: Number of rooms in the main living area.
Survey: 1987 ELCAP Residential Survey (ZEL7001)
1988 ELCAP Residential Survey (ZEL8002)

Description: Number of rooms in other living area.
Survey: 1987 ELCAP Residential Survey (ZEL7002)

Description: Are any rooms not heated?
Survey: 1983 PNW Residential Survey (PNW048 Q-18A)

Building Structure Data
Characteristics
Categories

BUILDING SUMMARY

Room Breakdowns-Bathrooms

Description: Number of bathrooms.
Survey: 1985 Residential Occupant Survey (RT031 Q-33)
1985 Residential Occupant Survey (RM024 Q-5F)
1987 ELCAP Residential Survey (EL7011 Q-4H)
1988 ELCAP Residential Survey (EL8042 Q-4H)

Description: Number of bathrooms at higher temperature.
Survey: 1987 ELCAP Residential Survey (EL7037 Q-8H)
1988 ELCAP Residential Survey (EL8044 Q-8H)

Description: Number of bathrooms at lower temperature.
Survey: 1987 ELCAP Residential Survey (EL7047 Q-9H)
1988 ELCAP Residential Survey (EL8045 Q-9H)

Description: Number of bathrooms not heated.
Survey: 1985 Residential Occupant Survey (RM025 Q-6F)
1985 Residential Occupant Survey (RT032 Q-34)
1987 ELCAP Residential Survey (EL7057 Q-10H)
1988 ELCAP Residential Survey (EL8046 Q-10H)
1986 ELCAP Residential Survey (EL6005 Q-3C)

Description: Number of bathrooms in living area?
Survey: 1988 ELCAP Residential Survey (EL8043 Q-5H)
1987 ELCAP Residential Survey (EL7021 Q-5H)

Description: Number of toilets in conditioned zone.
Survey: 1985 RI Conditioning of Rooms (RI013M Q-13M)

Description: Number of toilets in unconditioned zone.
Survey: 1985 RI Conditioning of Rooms (RI013N Q-13N)

Description: Number of bathroom/showers in conditioned zone?
Survey: 1985 RI Conditioning of Rooms (RI013K Q-13K)

Description: Number of bathroom/showers in unconditioned zone?
Survey: 1985 RI Conditioning of Rooms (RI013L Q-13L)

Building Structure Data
Characteristics
Categories

BUILDING SUMMARY

Room Breakdowns-Bedrooms

Description: Number of bedrooms.
Survey: 1983 PNW Residential Survey (PNW034 Q-17E)
1985 Residential Occupant Survey (RM014 Q-5A)
1985 Residential Occupant Survey (RT021 Q-23)
1987 ELCAP Residential Survey (EL7010 Q4-G)
1988 ELCAP Residential Survey (EL8037 Q-4G)

Description: Number of bedrooms at higher temperature.
Survey: 1987 ELCAP Residential Survey (EL7036 Q-8G)
1988 ELCAP Residential Survey (EL8039 Q-8G)

Description: Number of bedrooms at lower temperature.
Survey: 1987 ELCAP Residential Survey (EL7046 Q-9G)
1988 ELCAP Residential Survey (EL8040 Q-9G)

Description: Number of bedrooms not heated.
Survey: 1983 PNW Residential Survey (PNW035 Q-18)
1985 Residential Occupant Survey (RM015 Q-6A)
1985 Residential Occupant Survey (RT022 Q-24)
1986 ELCAP Residential Survey (EL6004 Q-3B)
1987 ELCAP Residential Survey (EL7056 Q-10G)
1988 ELCAP Residential Survey (EL8041 Q-10G)

Description: Number of bedrooms in living area.
Survey: 1988 ELCAP Residential Survey (EL8038 Q-5G)
1987 ELCAP Residential Survey (EL7020 Q-5G)

Description: Number of bedrooms in conditioned zone.
Survey: 1985 RI Conditioning of Rooms (RI013I Q-13I)

Description: Number of bedrooms in unconditioned zone.
Survey: 1985 RI Conditioning of Rooms (RI013J Q-13J)

Building Structure Data
Characteristics
Categories

BUILDING SUMMARY

Room Breakdowns-Dens

Description: Number of dens.

Survey: 1983 PNW Residential Survey (PNW036 Q-17)
1985 Residential Occupant Survey (RT033 Q-35)
1985 Residential Occupant Survey (RM026 Q-5G)
1987 ELCAP Residential Survey (EL7009 Q-4F)
1988 ELCAP Residential Survey (EL8032 Q-4F)

Description: Number of dens at higher temperature.

Survey: 1987 ELCAP Residential Survey (EL7035 Q-8F)
1988 ELCAP Residential Survey (EL8034 Q-8F)

Description: Number of dens at lower temperature.

Survey: 1987 ELCAP Residential Survey (EL7045 Q-9F)
1988 ELCAP Residential Survey (EL8035 Q-9F)

Description: Number of dens not heated.

Survey: 1983 PNW Residential Survey (PNW037 Q-18)
1985 Residential Occupant Survey (RT034 Q-36)
1985 Residential Occupant Survey (RM027 Q-6G)
1986 ELCAP Residential Survey (EL6006 Q-3D)
1987 ELCAP Residential Survey (EL7055 Q-10F)
1988 ELCAP Residential Survey (EL8036 Q-10F)

Description: Number of dens in living area.

Survey: 1988 ELCAP Residential Survey (EL8033 Q-5F)
1987 ELCAP Residential Survey (EL7019 Q-5F)

Description: Number of den/sewing rooms in conditioned zone.

Survey: 1985 RI Conditioning of Rooms (RI0130 Q-130)

Description: Number of den/sewing rooms in unconditioned zone.

Survey: 1985 RI Conditioning of Rooms (RI013P Q-13P)

Building Structure Data
Characteristics
Categories

BUILDING SUMMARY

Room Breakdowns-Dining Rooms

Description: Number of dining rooms.
Survey: 1983 PNW Residential Survey (PNW028 Q-17)
1985 Residential Occupant Survey (RM018 Q-5C)
1985 Residential Occupant Survey (RT025 Q-27)
1987 ELCAP Residential Survey (EL7006 Q-4C)
1988 ELCAP Residential Survey (EL8017 Q-4C)

Description: Number of dining rooms at higher temperature.
Survey: 1987 ELCAP Residential Survey (EL7032 Q-8C)
1988 ELCAP Residential Survey (EL8019 Q-8C)

Description: Number of dining rooms at lower temperature.
Survey: 1987 ELCAP Residential Survey (EL7042 Q-9C)
1988 ELCAP Residential Survey (EL8020 Q-9C)

Description: Number of dining rooms not heated.
Survey: 1983 PNW Residential Survey (PNW029 Q-18)
1985 Residential Occupant Survey (RM019 Q-6C)
1985 Residential Occupant Survey (RT026 Q-28)
1986 ELCAP Residential Survey (EL6007 Q-3E)
1987 ELCAP Residential Survey (EL7052 Q-10C)
1988 ELCAP Residential Survey (EL8021 Q-10C)

Description: Number of dining rooms in living area.
Survey: 1988 ELCAP Residential Survey (EL8018 Q-5C)
1987 ELCAP Residential Survey (EL7016 Q-5C)

Description: Number of dining rooms in conditioned zone.
Survey: 1985 RI Conditioning of Rooms (RI013C Q-13C)

Description: Number of dining rooms in unconditioned zone.
Survey: 1985 RI Conditioning of Rooms (RI013D Q-13D)

Building Structure Data
Characteristics
Categories

BUILDING SUMMARY

Room Breakdowns-Family Rooms

Description: Number of family rooms.

Survey: 1983 PNW Residential Survey (PNW038 Q-17)
1985 Residential Occupant Survey (RM028 Q-5H)
1985 Residential Occupant Survey (RT035 Q-37)
1987 ELCAP Residential Survey (EL7008 Q-4E)
1988 ELCAP Residential Survey (EL8027 Q-4E)

Description: Number of family rooms at higher temperature.

Survey: 1987 ELCAP Residential Survey (EL7034 Q-8E)
1988 ELCAP Residential Survey (EL8029 Q-8E)

Description: Number of family rooms at lower temperature.

Survey: 1987 ELCAP Residential Survey (EL7044 Q-9E)
1988 ELCAP Residential Survey (EL8030 Q-9E)

Description: Number of family rooms not heated.

Survey: 1983 PNW Residential Survey (PNW039 Q-18)
1985 Residential Occupant Survey (RM029 Q-6H)
1985 Residential Occupant Survey (RT036 Q-38)
1986 ELCAP Residential Survey (EL6008 Q-3F)
1987 ELCAP Residential Survey (EL7054 Q-10E)
1988 ELCAP Residential Survey (EL8031 Q-10E)

Description: Number of family rooms in living area.

Survey: 1988 ELCAP Residential Survey (EL8028 Q-5E)
1987 ELCAP Residential Survey (EL7018 Q-5E)

Description: Number of family rooms in conditioned zone.

Survey: 1985 RI Conditioning of Rooms (RI013Q Q-13Q)

Description: Number of family rooms in unconditioned zone.

Survey: 1985 RI Conditioning of Rooms (RI013R Q-13R)

Building Structure Data
Characteristics
Categories

BUILDING SUMMARY

Room Breakdowns-Kitchen/Dining Rooms

Description: Number of kitchen/dining rooms.
Survey: 1983 PNW Residential Survey (PNW030 Q-17)
1985 Residential Occupant Survey (RT027 Q-29)
1985 Residential Occupant Survey (RM020 Q-5D)
1987 ELCAP Residential Survey (EL7004 Q-4A)
1988 ELCAP Residential Survey (EL8007 Q-4A)

Description: Number of kitchen/dining rooms at higher temperature.
Survey: 1987 ELCAP Residential Survey (EL7030 Q-8A)
1988 ELCAP Residential Survey (EL8009 Q-8A)

Description: Number of kitchen/dining rooms at lower temperature.
Survey: 1987 ELCAP Residential Survey (EL7040 Q-9A)
1988 ELCAP Residential Survey (EL8010 Q-9A)

Description: Number of kitchen/dining rooms not heated.
Survey: 1983 PNW Residential Survey (PNW031 Q-18)
1985 Residential Occupant Survey (RM021 Q-6D)
1985 Residential Occupant Survey (RT028 Q-30)
1986 ELCAP Residential Survey (EL6009 Q-3G)
1987 ELCAP Residential Survey (EL7050 Q-10A)
1988 ELCAP Residential Survey (EL8011 Q-10A)

Description: Number of kitchen/dining rooms in living area.
Survey: 1988 ELCAP Residential Survey (EL8008 Q-5A)
1987 ELCAP Residential Survey (EL7014 Q-5A)

Description: Number of kitchen/dining rooms in conditioned zone.
Survey: 1985 RI Conditioning of Rooms (RI013E Q-13E)

Description: Number of kitchen/dining rooms in unconditioned zone.
Survey: 1985 RI Conditioning of Rooms (RI013F Q-13F)

Building Structure Data
Characteristics
Categories

BUILDING SUMMARY

Room Breakdowns-Kitchens

Description: Number of kitchens.
Survey: 1983 PNW Residential Survey (PNW032 Q-17)
1985 Residential Occupant Survey (RM022 Q-5E)
1985 Residential Occupant Survey (RT029 Q-31)
1987 ELCAP Residential Survey (EL7005 Q-4B)
1988 ELCAP Residential Survey (EL8012 Q-4B)

Description: Number of kitchens at higher temperature.
Survey: 1987 ELCAP Residential Survey (EL7031 Q-8B)
1988 ELCAP Residential Survey (EL8014 Q-8B)

Description: Number of kitchens at lower temperature.
Survey: 1987 ELCAP Residential Survey (EL7041 Q-9B)
1988 ELCAP Residential Survey (EL8015 Q-9B)

Description: Number of kitchens not heated.
Survey: 1983 PNW Residential Survey (PNW033 Q-18)
1985 Residential Occupant Survey (RM023 Q-6E)
1985 Residential Occupant Survey (RT030 Q-32)
1986 ELCAP Residential Survey (EL6010 Q-3H)
1987 ELCAP Residential Survey (EL7051 Q-10B)
1988 ELCAP Residential Survey (EL8016 Q-10B)

Description: Number of kitchens in living area.
Survey: 1988 ELCAP Residential Survey (EL8013 Q-5B)
1987 ELCAP Residential Survey (EL7015 Q-5B)

Description: Number of kitchens in conditioned zone.
Survey: 1985 RI Conditioning of Rooms (RI013G Q-13G)

Description: Number of kitchens in unconditioned zone.
Survey: 1985 RI Conditioning of Rooms (RI013H Q-13H)

Building Structure Data
Characteristics
Categories

BUILDING SUMMARY

Room Breakdowns-Living Rooms

Description: Number of living rooms.
Survey: 1983 PNW Residential Survey (PNW026 Q-17)
1985 Residential Occupant Survey (RM016 Q-5B)
1985 Residential Occupant Survey (RT023 Q-25)
1987 ELCAP Residential Survey (EL7011)
1988 ELCAP Residential Survey (EL8022 Q-4D)

Description: Number of living rooms at higher temperature.
Survey: 1987 ELCAP Residential Survey (EL7033 Q-8D)
1988 ELCAP Residential Survey (EL8024 Q-8D)

Description: Number of living rooms at lower temperature.
Survey: 1987 ELCAP Residential Survey (EL7043 Q-9D)
1988 ELCAP Residential Survey (EL8025 Q-9D)

Description: Number of living rooms not heated.
Survey: 1983 PNW Residential Survey (PNW027 Q-18)
1985 Residential Occupant Survey (RM017 Q-6B)
1985 Residential Occupant Survey (RT024 Q-26)
1986 ELCAP Residential Survey (EL6011 Q-3I)
1987 ELCAP Residential Survey (EL7053 Q-10D)
1988 ELCAP Residential Survey (EL8026 Q-10D)

Description: Number of living rooms in living area.
Survey: 1988 ELCAP Residential Survey (EL8023 Q-5D)
1987 ELCAP Residential Survey (EL7017 Q-5D)

Description: Number of living rooms in conditioned zone.
Survey: 1985 RI Conditioning of Rooms (RI013A Q-13A)

Description: Number of living rooms in unconditioned zone.
Survey: 1985 RI Conditioning of Rooms (RI013B Q-13B)

Building Structure Data
Characteristics
Categories

BUILDING SUMMARY

Room Breakdowns-Other Large Rooms

Description: Number of other large rooms.
Survey: 1983 PNW Residential Survey (PNW044 Q-17)
1985 Residential Occupant Survey (RM032 Q-5J)
1985 Residential Occupant Survey (RT039 Q-41)
1987 ELCAP Residential Survey (EL7013 Q-4J)
1988 ELCAP Residential Survey (EL8052 Q-4J)

Description: Number of other large rooms at higher temperature.
Survey: 1987 ELCAP Residential Survey (EL7039 Q-8J)
1988 ELCAP Residential Survey (EL8054 Q-8J)

Description: Number of other large rooms at lower temperature.
Survey: 1987 ELCAP Residential Survey (EL7049 Q-9J)
1988 ELCAP Residential Survey (EL8055 Q-9J)

Description: Number of other large rooms not heated.
Survey: 1983 PNW Residential Survey (PNW045 Q-18)
1985 Residential Occupant Survey (RM033 Q-6J)
1985 Residential Occupant Survey (RT040 Q-42)
1986 ELCAP Residential Survey (EL6013 Q-3K)
1987 ELCAP Residential Survey (EL7059 Q-10J)
1988 ELCAP Residential Survey (EL8056 Q-10J)

Description: Number of other large rooms in living area.
Survey: 1988 ELCAP Residential Survey (EL8053 Q-5J)
1987 ELCAP Residential Survey (EL7023 Q-5J)

Description: Number of other large rooms in conditioned zone.
Survey: 1985 RI Conditioning of Rooms (RI013W Q-13W)

Description: Number of other large rooms in unconditioned zone.
Survey: 1985 RI Conditioning of Rooms (RI013X Q-13X)

Building Structure Data
Characteristics
Categories

BUILDING SUMMARY

Room Breakdowns-Other Small Rooms

Description: Number of other small rooms.

Survey: 1983 PNW Residential Survey (PNW042 Q-17)
1985 Residential Occupant Survey (RT037 Q-39)
1985 Residential Occupant Survey (RM030 Q-5I)
1987 ELCAP Residential Survey (EL7012 Q-4I)
1988 ELCAP Residential Survey (EL8047 Q-4I)

Description: Number of other small rooms at higher temperature.

Survey: 1987 ELCAP Residential Survey (EL7038 Q-8I)
1988 ELCAP Residential Survey (EL8049 Q-8I)

Description: Number of other small rooms at lower temperature.

Survey: 1987 ELCAP Residential Survey (EL7048 Q-9I)
1988 ELCAP Residential Survey (EL8050 Q-9I)

Description: Number of other small rooms not heated.

Survey: 1983 PNW Residential Survey (PNW043 Q-18)
1985 Residential Occupant Survey (RT038 Q-40)
1985 Residential Occupant Survey (RM031 Q-6I)
1986 ELCAP Residential Survey (EL6012 Q-3J)
1987 ELCAP Residential Survey (EL7058 Q-10I)
1988 ELCAP Residential Survey (EL8051 Q-10I)

Description: Number of other small rooms in living area.

Survey: 1988 ELCAP Residential Survey (EL8048 Q-5I)
1987 ELCAP Residential Survey (EL7022 Q-5I)

Description: Number of other small rooms in conditioned zone.

Survey: 1985 RI Conditioning of Rooms (RI013U Q-13U)

Description: Number of other small rooms in unconditioned zone.

Survey: 1985 RI Conditioning of Rooms (RI013V Q-13V)

Description: Number of utility rooms.

Survey: 1983 PNW Residential Survey (PNW040 Q-17)

Description: Number of utility rooms not heated.

Survey: 1983 PNW Residential Survey (PNW041 Q-18)

Description: Number of utility rooms in conditioned zone.

Survey: 1985 RI Conditioning of Rooms (RI013S Q-13S)

Description: Number of utility rooms in unconditioned zone.

Survey: 1985 RI Conditioning of Rooms (RI013T Q-13T)

Building Structure Data
Characteristics
Categories

BUILDING SUMMARY

Structural Changes - additions

Description: Any additions to living space in last two years?
Survey: 1985 Residential Occupant Survey (RT009 Q-9)

Description: Who did construction of added living space in past two years?
Survey: 1985 Residential Occupant Survey (RT010 Q-10)

Description: Are rooms added to living space in past two years heated?
Survey: 1985 Residential Occupant Survey (RT012 Q-12)

Description: Have structural additions been made in last year?
Survey: 1987 ELCAP Residential Survey (EL7060 Q-11)
1988 ELCAP Residential Survey (EL8058 Q-12)

Description: Types of rooms added to living space in past year?
Survey: 1985 Residential Occupant Survey (RT011 Q-11)

Description: Bathroom added in past year?
Survey: 1985 RI Modifications and Additions (RIMOD5 Q-2C)

Description: Bedroom added in past year?
Survey: 1985 RI Modifications and Additions (RIMOD4 Q-2B)

Description: Dining room added in past year?
Survey: 1985 RI Modifications and Additions (RIMOD8 Q-2G)

Description: Family room added in past year?
Survey: 1985 RI Modifications and Additions (RIMOD3 Q-2A)

Description: Garage added in past year?
Survey: 1985 RI Modifications and Additions (RIMOD6 Q-2E)

Description: Kitchen added in past year?
Survey: 1985 RI Modifications and Additions (RIMOD7 Q-2F)

Description: Other rooms added in past year.
Survey: 1985 RI Modifications and Additions (RIMOD9 Q-2H)

Description: Description of other rooms added in past year.
Survey: 1985 RI Modifications and Additions (RIMOD10 Q-2H)

Building Structure Data
Characteristics
Categories

BUILDING SUMMARY

Structural Changes - renovations

Description:	Dwelling substantially renovated since occupied.
Survey:	1983 PNW Residential Survey (PNW025 Q-16)
Description:	Other structural changes since home was built.
Survey:	1988 ELCAP Residential Survey (EL8089 Q-20E)
Description:	Has any renovation work been done in past two years?
Survey:	1985 Residential Occupant Survey (RT014 Q-14)
Description:	What type of renovation work was done in the past two years?
Survey:	1985 Residential Occupant Survey (RT016 Q-16)
Description:	Who did the renovation work in the past two years?
Survey:	1985 Residential Occupant Survey (RT015 Q-15)
Description:	Renovations in past year.
Survey:	1985 RI Modifications and Additions (RIMOD23 Q-3)
Description:	First motive for renovating.
Survey:	1985 RI Modifications and Additions (RIMOD43 Q-4U)
Description:	Second motive for renovating.
Survey:	1985 RI Modifications and Additions (RIMOD44 Q-4U)
Description:	Third motive for renovating.
Survey:	1985 RI Modifications and Additions (RIMOD45 Q-4U)

Building Structure Data
Characteristics
Categories

FLOORS

Size - all floors

Description: Floor area of building.
Survey: 1985 Fundamental Residential Characteristics (FRC004)
1985 K Ritland ELCAP Res Chcts (FRC004)
1985 RI Floors (ZRI16A)
ELCAP Calculated Residential UA (UA012)

Description: Area of all floors including basement.
Survey: 1983 PNW Residential Survey (PNW473 Q-OT)

Description: Total Floor perimeter.
Survey: 1985 RI Floors (ZRI16B)

Description: Area or perimeter of floor section. (Mult obs)
Survey: 1985 RI Floors (RI016J Q-16J)

Description: Perimeter of floor section. (Mult obs)
Survey: 1985 RI Floors (RI016D Q-16D)

Size - by space heating

Description: Floor area in conditioned zone of building.
Survey: 1985 Fundamental Residential Characteristics (FRC005)
1985 K Ritland ELCAP Res Chcts (FRC005)
1985 RI Conditioned Zones (ZRI11A)

Description: Area of floor in conditioned zone. (Mult obs)
Survey: 1985 RI Conditioned Zones (RI011A Q-11A)

Description: Area of floor in conditioned sub-zone. (Mult obs)
Survey: 1985 RI Conditioned Zones (RI011B Q-11B)

Description: Area of of floor heated by a specific heating system.
(Mult obs)
Survey: 1985 RI Conditioned Zones (RI011C Q-11C)
1985 RI Conditioned Zones (RI011D Q-11D)

Description: Area of floor in unconditioned zone/total.
Survey: 1985 Derivations from RI data sets (ZRI11B)

Description: Area of floor in unconditioned zone. (Mult obs)
Survey: 1985 RI Conditioned Zones (RI011G Q-11G)
1985 RI Conditioned Zones (RI011H Q-11H)

Building Structure Data
Characteristics
Categories

FLOORS

Size - by construction type

Description:	Floor area with concrete support.
Survey:	1985 RI Derivations from RI data sets (ZRI16A2)
Description:	Floor area with other support.
Survey:	1985 RI Derivations from RI data sets (ZRI16A3)
Description:	Floor area with post & beam support.
Survey:	1985 RI Derivations from RI data sets (ZRI16A4)
Description:	Floor area with wood joist support.
Survey:	1985 RI Derivations from RI data sets (ZRI16A1)
Description:	Floor perimeter with concrete support.
Survey:	1985 RI Derivations from RI data sets (ZRI16B2)
Description:	Floor perimeter with other support.
Survey:	1985 RI Derivations from RI data sets (ZRI16B3)
Description:	Floor perimeter with post & beam support.
Survey:	1985 RI Derivations from RI data sets (ZRI16B4)
Description:	Floor perimeter with wood joist support.
Survey:	1985 RI Derivations from RI data sets (ZRI16B1)

Building Structure Data
Characteristics
Categories

FLOORS

Size - first floor

Description:	How floor measurements were obtained.
Survey:	1983 PNW Residential Survey (PNW474 Q-R1)
Description:	Area of first floor.
Survey:	1983 PNW Residential Survey (PNW469 Q-OT)
Description:	First floor full or half.
Survey:	1983 PNW Residential Survey (PNW433 Q-OB)
Description:	Area of first floor unit X.
Survey:	1983 PNW Residential Survey (PNW442 Q-OB)
Description:	Length of first floor unit A.
Survey:	1983 PNW Residential Survey (PNW434 Q-OB)
Description:	Length of first floor unit B.
Survey:	1983 PNW Residential Survey (PNW436 Q-OB)
Description:	Length of first floor unit C.
Survey:	1983 PNW Residential Survey (PNW438 Q-OB)
Description:	Length of first floor unit D.
Survey:	1983 PNW Residential Survey (PNW440 Q-OB)
Description:	Width of first floor unit A.
Survey:	1983 PNW Residential Survey (PNW435 Q-OB)
Description:	Width of first floor unit B.
Survey:	1983 PNW Residential Survey (PNW437 Q-OB)
Description:	Width of first floor unit C.
Survey:	1983 PNW Residential Survey (PNW439 Q-OB)
Description:	Width of first floor unit D.
Survey:	1983 PNW Residential Survey (PNW441 Q-OB)

Building Structure Data
Characteristics
Categories

FLOORS

Size - second floor

Description:	Area of second floor.	
Survey:	1983 PNW Residential Survey	(PNW470 Q-OT)
Description:	Area of second floor unit X.	
Survey:	1983 PNW Residential Survey	(PNW454 Q-OB)
Description:	Second floor attic.	
Survey:	1983 PNW Residential Survey	(PNW445 Q-OB)
Description:	Second floor full or half.	
Survey:	1983 PNW Residential Survey	(PNW444 Q-OB)
Description:	Length of second floor unit A.	
Survey:	1983 PNW Residential Survey	(PNW446 Q-OB)
Description:	Length of second floor unit B.	
Survey:	1983 PNW Residential Survey	(PNW448 Q-OB)
Description:	Length of second floor unit C.	
Survey:	1983 PNW Residential Survey	(PNW450 Q-OB)
Description:	Length of second floor unit D.	
Survey:	1983 PNW Residential Survey	(PNW452 Q-OB)
Description:	Width of second floor unit A.	
Survey:	1983 PNW Residential Survey	(PNW447 Q-OB)
Description:	Width of second floor unit B.	
Survey:	1983 PNW Residential Survey	(PNW449 Q-OB)
Description:	Width of second floor unit C.	
Survey:	1983 PNW Residential Survey	(PNW451 Q-OB)
Description:	Width of second floor unit D.	
Survey:	1983 PNW Residential Survey	(PNW453 Q-OB)

Building Structure Data
Characteristics
Categories

FLOORS

Size - third floor

Description:	Area of third floor.	
Survey:	1983 PNW Residential Survey	(PNW471 Q-OT)
Description:	Area of third floor unit X.	
Survey:	1983 PNW Residential Survey	(PNW466 Q-OB)
Description:	Third floor attic.	
Survey:	1983 PNW Residential Survey	(PNW457 Q-OB)
Description:	Third floor full or half.	
Survey:	1983 PNW Residential Survey	(PNW456 Q-OB)
Description:	Length of third floor unit A.	
Survey:	1983 PNW Residential Survey	(PNW458 Q-OB)
Description:	Length of third floor unit B.	
Survey:	1983 PNW Residential Survey	(PNW460 Q-OB)
Description:	Length of third floor unit C.	
Survey:	1983 PNW Residential Survey	(PNW462 Q-OB)
Description:	Length of third floor unit D.	
Survey:	1983 PNW Residential Survey	(PNW464 Q-OB)
Description:	Width of third floor unit A.	
Survey:	1983 PNW Residential Survey	(PNW459 Q-OB)
Description:	Width of third floor unit B.	
Survey:	1983 PNW Residential Survey	(PNW461 Q-OB)
Description:	Width of third floor unit C.	
Survey:	1983 PNW Residential Survey	(PNW463 Q-OB)
Description:	Width of third floor unit D.	
Survey:	1983 PNW Residential Survey	(PNW465 Q-OB)
Description:	Area of other floors.	
Survey:	1983 PNW Residential Survey	(PNW472 Q-OT)

Building Structure Data
Characteristics
Categories

FLOORS

Insulation

Description: Is a vapor barrier present in the floor section. (Mult obs)
Survey: 1985 RI Floors (RI016E Q-16E)

Description: Material used for insulation in floor section. (Mult obs)
Survey: 1985 Floors (RI016G Q-16G)

Description: Thickness of insulation in floor section. (Mult obs)
Survey: 1985 Floors (RI016H Q-16H)

Description: Type of insulation in floor section. (Mult obs)
Survey: 1985 Floors (RI016F Q-16F)

Description: What percent of floor above unheated basement is insulated.
Survey: 1985 Residential Occupant Survey (RT043 Q-45)

Description: Percent of area above basement insulated.
Survey: 1983 PNW Residential Survey (PNW141 Q-38)

Thermal Properties

Description: Total ua of floors in building.
Survey: 1985 ELCAP Calculated Residential UA (UA011)

Description: Total r-value of floors in building.
Survey: 1985 ELCAP Calculated Residential UA (UA013)

Description: R-value of floor insulation above unheated basement.
Survey: 1985 Residential Occupant Survey (RT132 Q-47)

Description: R-value of insulation in floor section. (Mult obs)
Survey: 1985 RI Floors (RI016I Q-16I)

Building Structure Data
Characteristics
Categories

FLOORS

Changes

Description: Month structural addition completed.
Survey: 1987 ELCAP Residential Survey (EL7062 Q-13A)
1988 ELCAP Residential Survey (EL8060 Q-14A)

Description: Year structural addition completed.
Survey: 1987 ELCAP Residential Survey (EL7063 Q-13B)
1988 ELCAP Residential Survey (EL8061 Q-Y14B)

Description: Addition to floor space since home built.
Survey: 1988 ELCAP Residential Survey (EL8086 Q-20B)

Description: Square feet of added living space in past two years.
Survey: 1985 Residential Occupant Survey (RT013 Q-13)

Description: Insulation added above unheated basement in past two years?
Survey: 1985 Residential Occupant Survey (RT044 Q-46)

Description: Addition of floor space in past year?
Survey: 1985 RI Modifications and Additions (RIMOD2 Q-1)

Description: Square feet added in past year.
Survey: 1985 RI Modifications and Additions (RIMOD11 Q-2I)
1987 ELCAP Residential Survey (EL7061 Q-12)
1988 ELCAP Residential Survey (EL8059 Q-13)

Description: Added floor insulation in last year.
Survey: 1985 RI Modifications and Additions (RIMOD20 Q-2R)
1987 ELCAP Residential Survey (EL7123 Q-20C)
1988 ELCAP Residential Survey (EL8108 Q-21S)

Description: R-value of floor insulation added in past year.
Survey: 1985 RI Modifications and Additions (RIMOD21 Q-2S)

Description: Added floor insulation since home built.
Survey: 1988 ELCAP Residential Survey (EL8109 Q-21T)

Description: Floor insulation recommended by audit.
Survey: 1983 PNW Residential Survey (PNW092 Q-30A)

Description: Floor insulation added after audit.
Survey: 1983 PNW Residential Survey (PNW093 Q-30B)

Description: Floor insulation added since May 1980.
Survey: 1983 PNW Residential Survey (PNW094 Q-31AB)

Building Structure Data
Characteristics
Categories

FLOORS

Miscellaneous

Description: Number of floors in living area.
Survey: 1983 PNW Residential Survey (PNW408 Q-0-5)

Description: Number of floors in living area completely below ground.
Survey: 1983 PNW Residential Survey (PNW409 Q-0-6)

Description: Number of floors in living area partly below ground.
Survey: 1983 PNW Residential Survey (PNW410 Q-0-7)

Description: If building with more than 2 units, floor the unit is on.
Survey: 1983 PNW Residential Survey (PNW411 Q-0-8)

Description: Number of units on second floor.
Survey: 1983 PNW Residential Survey (PNW455 Q-0B)

Description: Number of units on the first floor.
Survey: 1983 PNW Residential Survey (PNW443 Q-0B)

Description: Number of units on third floor.
Survey: 1983 PNW Residential Survey (PNW467 Q-0B)

Building Structure Data
Characteristics
Categories

WALLS

Size - including windows and doors

Description:	Wall area in building.
Survey:	1985 ELCAP Calculated Residential UA (UA006)
Description:	Total number of walls.
Survey:	1985 RI Derivations from RI data sets (ZRI07E)
Description:	Gross area of wall(s). (Mult obs)
Survey:	1985 RI Walls (RI007J Q-7J)
Description:	Gross area of all walls.
Survey:	1985 RI Derivations from RI data sets (ZRI07A)
Description:	Gross area of walls facing east.
Survey:	1985 RI Derivations from RI data sets (ZRI07A3)
Description:	Gross area of walls facing north.
Survey:	1985 RI Derivations from RI data sets (ZRI07A1)
Description:	Gross area of walls facing northeast.
Survey:	1985 RI Derivations from RI data sets (ZRI07A2)
Description:	Gross area of walls facing northwest.
Survey:	1985 RI Derivations from RI data sets (ZRI07A8)
Description:	Gross area of walls facing south.
Survey:	1985 RI Derivations from RI data sets (ZRI07A5)
Description:	Gross area of walls facing southeast.
Survey:	1985 RI Derivations from RI data sets (ZRI07A4)
Description:	Gross area of walls facing southwest.
Survey:	1985 RI Derivations from RI data sets (ZRI07A6)
Description:	Gross area of walls facing west.
Survey:	1985 RI Derivations from RI data sets (ZRI07A7)

Building Structure Data
Characteristics
Categories

WALLS

Size - excluding windows and doors

Description: Net area of wall(s). (Mult obs)
Survey: 1985 RI Walls (RI007L Q-7L)

Description: Net area of all walls.
Survey: 1985 RI Derivations from RI data sets (ZRI07C)
1985 W Monroe Wall Summaries (WALLAREA)

Description: Number of similar outside wall components at site.
Survey: 1985 W Monroe Wall Summaries (WALLNUM)

Description: Net area of walls facing east.
Survey: 1985 RI Derivations from RI data sets (ZRI07C3)

Description: Net area of walls facing north.
Survey: 1985 RI Derivations from RI data sets (ZRI07C1)

Description: Net area of walls facing northeast.
Survey: 1985 RI Derivations from RI data sets (ZRI07C2)

Description: Net area of walls facing northwest.
Survey: 1985 RI Derivations from RI data sets (ZRI07C8)

Description: Net area of walls facing south.
Survey: 1985 RI Derivations from RI data sets (ZRI07C5)

Description: Net area of walls facing southeast.
Survey: 1985 RI Derivations from RI data sets (ZRI07C4)

Description: Net area of walls facing southwest.
Survey: 1985 RI Derivations from RI data sets (ZRI07C6)

Description: Net area of walls facing west.
Survey: 1985 RI Derivations from RI data sets (ZRI07C7)

Description: Wall area with south exposure.
Survey: 1985 Fundamental Residential Characteristics (FRC026)
1985 K Ritland ELCAP Res Chcts (FRC026)

Description: Wall area with southeast exposure.
Survey: 1985 Fundamental Residential Characteristics (FRC030)
1985 K Ritland ELCAP Res Chcts (FRC030)

Description: Wall area with southwest exposure.
Survey: 1985 Fundamental Residential Characteristics (FRC028)
1985 K Ritland ELCAP Res Chcts (FRC028)

Building Structure Data
Characteristics
Categories

WALLS

Size - windows and doors

Description: Window and door area of wall(s). (Mult obs)
Survey: 1985 RI Walls (RI007K Q-7K)

Description: Window-door area of all walls.
Survey: 1985 RI Walls (ZRI07B)

Description: Window-door area of walls facing east.
Survey: 1985 RI Derivations from RI data sets (ZRI07B3)

Description: Window-door area of walls facing north.
Survey: 1985 RI Derivations from RI data sets (ZRI07B1)

Description: Window-door area of walls facing northeast.
Survey: 1985 RI Derivations from RI data sets (ZRI07B2)

Description: Window-door area of walls facing northwest.
Survey: 1985 RI Derivations from RI data sets (ZRI07B8)

Description: Window-door area of walls facing south.
Survey: 1985 RI Derivations from RI data sets (ZRI07B5)

Description: Window-door area of walls facing southeast.
Survey: 1985 RI Derivations from RI data sets (ZRI07B4)

Description: Window-door area of walls facing southwest.
Survey: 1985 RI Derivations from RI data sets (ZRI07B6)

Description: Window-door area of walls facing west.
Survey: 1985 RI Derivations from RI data sets (ZRI07B7)

Building Structure Data
Characteristics
Categories

WALLS

Insulation

Description: Insulation material in wall(s). (Mult obs)
Survey: 1985 RI Walls (RI007G Q-7G)

Description: Insulation thickness in wall(s). (Mult obs)
Survey: 1985 RI Walls (RI007H Q-7H)

Description: Type of insulation in wall(s). (Mult obs)
Survey: 1985 RI Walls (RI007F Q-7F)

Description: Percent insulation in outside walls.
Survey: 1983 PNW Residential Survey (PNW131 Q-32)
1985 RI Wall Insulation Summaries (NPCTINS)
1985 RI Wall Insulation Summaries (PCTINS)
1985 Residential Occupant Survey (RT017 Q-17)

Description: Area of outside walls with insulation.
Survey: 1985 RI Wall Insulation Summaries (AREAINS)

Description: Number of outside wall components with insulation.
Survey: 1985 RI Wall Insulation Summaries (NUMINS)

Description: Percent of walls insulated in heated basement.
Survey: 1983 PNW Residential Survey (PNW143 Q-40)

Thermal Properties

Description: Insulation R-value in wall(s). (Mult obs)
Survey: 1985 RI Walls (RI007I Q-7I)

Description: R-value of outside wall insulation.
Survey: 1985 Residential Occupant Survey (RT130 Q-19)

Description: Total r-value of walls in building.
Survey: 1985 ELCAP Calculated Residential UA (UA007)

Description: Wall ua in building.
Survey: 1985 ELCAP Calculated Residential UA (UA005)

Building Structure Data
Characteristics
Categories

WALLS

Changes

Description: Addition of new interior walls since home built.
Survey: 1988 ELCAP Residential Survey (EL8087 Q-20C)

Description: Removal of existing walls since home built.
Survey: 1988 ELCAP Residential Survey (EL8088 Q-20D)

Description: Number of wall renovations in past year.
Survey: 1985 RI Modifications and Additions (RIMOD38 Q-4P)

Description: R-value of wall renovations in past year.
Survey: 1985 RI Modifications and Additions (RIMOD39 Q-4Q)

Description: Added wall insulation since home built.
Survey: 1988 ELCAP Residential Survey (EL8107 Q-21R)

Description: Insulation added to outside walls in past two years?
Survey: 1985 Residential Occupant Survey (RT018 Q-18)

Description: Added wall insulation in past year.
Survey: 1983 PNW Residential Survey (PNW132 Q-33)
1985 RI Modifications and Additions (RIMOD18 Q-2P)
1987 ELCAP Residential Survey (EL7122 Q-20B)
1988 ELCAP Residential Survey (EL8106 Q-21Q)

Description: R-value of wall insulation added in past year.
Survey: 1985 RI Modifications and Additions (RIMOD19 Q-2Q)

Description: Added insulation to walls in heated basement in past year.
Survey: 1983 PNW Residential Survey (PNW144 Q-41)

Description: Outside wall insulation recommended by audit.
Survey: 1983 PNW Residential Survey (PNW086 Q-30A)

Description: Outside wall insulation added after audit.
Survey: 1983 PNW Residential Survey (PNW087 Q-30B)

Description: Outside wall insulation added since May 1980.
Survey: 1983 PNW Residential Survey (PNW088 Q-31AB)

Building Structure Data
Characteristics
Categories

WALLS

Miscellaneous

Description:	Direction faced by wall(s). (Mult obs)
Survey:	1985 RI Walls (RI007E Q-7E)
Description:	Outside finish of walls. (Mult obs)
Survey:	1985 RI Walls (RI007B Q-7B)
Description:	Outside wall primarily aluminum siding.
Survey:	1983 PNW Residential Survey (PNW417 Q-0-9)
Description:	Outside wall primarily brick.
Survey:	1983 PNW Residential Survey (PNW413 Q-0-9)
Description:	Outside wall primarily composition siding.
Survey:	1983 PNW Residential Survey (PNW419 Q-0-9)
Description:	Outside wall primarily concrete.
Survey:	1983 PNW Residential Survey (PNW415 Q-0-9)
Description:	Outside wall primarily glass.
Survey:	1983 PNW Residential Survey (PNW420 Q-0-9)
Description:	Outside wall primarily other.
Survey:	1983 PNW Residential Survey (PNW421 Q-0-9)
Description:	Outside wall primarily steel siding.
Survey:	1983 PNW Residential Survey (PNW418 Q-0-9)
Description:	Outside wall primarily stone.
Survey:	1983 PNW Residential Survey (PNW414 Q-0-9)
Description:	Outside wall primarily stucco.
Survey:	1983 PNW Residential Survey (PNW416 Q-0-9)
Description:	Outside wall primarily wood.
Survey:	1983 PNW Residential Survey (PNW412 Q-0-9)

Building Structure Data
Characteristics
Categories

WINDOWS

Size - all windows including sash

Description:	Number of all windows in building.
Survey:	1985 RI Derivations from RI data sets (ZRI05A) 1985 RI Window-Roof Insulation Summaries (TOTNUMB)
Description:	Window area in building.
Survey:	1985 ELCAP Calculated Residential UA (UA018) 1985 RI Window-Roof Insulation Summaries (TOTAREA)
Description:	Area of all windows.
Survey:	1985 RI Derivations from RI data sets (ZRI05B)
Description:	Area of window section. (Mult obs)
Survey:	1985 RI Windows (RI005J Q-5J)
Description:	Area of windows facing east.
Survey:	1985 RI Derivations from RI data sets (ZRI05B3)
Description:	Area of windows facing horizontal.
Survey:	1985 RI Derivations from RI data sets (ZRI05B9)
Description:	Area of windows facing north.
Survey:	1985 RI Derivations from RI data sets (ZRI05B1)
Description:	Area of windows facing northeast.
Survey:	1985 RI Derivations from RI data sets (ZRI05B2)
Description:	Area of windows facing northwest.
Survey:	1985 RI Derivations from RI data sets (ZRI05B8)
Description:	Area of windows facing south.
Survey:	1985 RI Derivations from RI data sets (ZRI05B5)
Description:	Area of windows facing southeast.
Survey:	1985 RI Derivations from RI data sets (ZRI05B4)
Description:	Area of windows facing southwest.
Survey:	1985 RI Derivations from RI data sets (ZRI05B6)
Description:	Area of windows facing west.
Survey:	1985 RI Derivations from RI data sets (ZRI05B7)

Building Structure Data
Characteristics
Categories

WINDOWS

Size - all windows excluding sash

Description:	Net area of windows all windows.	
Survey:	1985 RI Derivations from RI data sets	(ZRI05C)
Description:	Net area of windows facing east.	
Survey:	1985 RI Derivations from RI data sets	(ZRI05C3)
Description:	Net area of windows facing horizontal.	
Survey:	1985 RI Derivations from RI data sets	(ZRI05C9)
Description:	Net area of windows facing north.	
Survey:	1985 RI Derivations from RI data sets	(ZRI05C1)
Description:	Net area of windows facing northeast.	
Survey:	1985 RI Derivations from RI data sets	(ZRI05C2)
Description:	Net area of windows facing northwest.	
Survey:	1985 RI Derivations from RI data sets	(ZRI05C8)
Description:	Net area of windows facing south.	
Survey:	1985 RI Derivations from RI data sets	(ZRI05C5)
	1985 Fundamental Residential Characteristics	(FRC027)
	1985 K Ritland ELCAP Res Chcts	(FRC027)
Description:	Net area of windows facing southeast.	
Survey:	1985 RI Derivations from RI data sets	(ZRI05C4)
	1985 Fundamental Residential Characteristics	(FRC031)
	1985 K Ritland ELCAP Res Chcts	(FRC031)
Description:	Net area of windows facing southwest.	
Survey:	1985 RI Derivations from RI data sets	(ZRI05C6)
	1985 Fundamental Residential Characteristics	(FRC029)
	1985 K Ritland ELCAP Res Chcts	(FRC029)
Description:	Net area of windows facing west.	
Survey:	1985 RI Derivations from RI data sets	(ZRI05C7)

Building Structure Data
Characteristics
Categories

WINDOWS

Size - with new caulking including sash

Description:	Area new caulked for all windows.
Survey:	1985 RI Derivations from RI data sets (ZRI05D)
Description:	Area new caulked for windows facing east.
Survey:	1985 RI Derivations from RI data sets (ZRI05D3)
Description:	Area new caulked for windows facing horizontal.
Survey:	1985 RI Derivations from RI data sets (ZRI05D9)
Description:	Area new caulked for windows facing north.
Survey:	1985 RI Derivations from RI data sets (ZRI05D1)
Description:	Area new caulked for windows facing northeast.
Survey:	1985 RI Derivations from RI data sets (ZRI05D2)
Description:	Area new caulked for windows facing northwest.
Survey:	1985 RI Derivations from RI data sets (ZRI05D8)
Description:	Area new caulked for windows facing south.
Survey:	1985 RI Derivations from RI data sets (ZRI05D5)
Description:	Area new caulked for windows facing southeast.
Survey:	1985 RI Derivations from RI data sets (ZRI05D4)
Description:	Area new caulked for windows facing southwest.
Survey:	1985 RI Derivations from RI data sets (ZRI05D6)
Description:	Area new caulked for windows facing west.
Survey:	1985 RI Derivations from RI data sets (ZRI05D7)

Building Structure Data
Characteristics
Categories

WINDOWS

Size - with old caulking including sash

Description:	Area old caulked for all windows.
Survey:	1985 RI Derivations from RI data sets (ZRI05E)
Description:	Area old caulked for windows facing east.
Survey:	1985 RI Derivations from RI data sets (ZRI05E3)
Description:	Area old caulked for windows facing horizontal.
Survey:	1985 RI Derivations from RI data sets (ZRI05E9)
Description:	Area old caulked for windows facing north.
Survey:	1985 RI Derivations from RI data sets (ZRI05E1)
Description:	Area old caulked for windows facing northeast.
Survey:	1985 RI Derivations from RI data sets (ZRI05E2)
Description:	Area old caulked for windows facing northwest.
Survey:	1985 RI Derivations from RI data sets (ZRI05E8)
Description:	Area old caulked for windows facing south.
Survey:	1985 RI Derivations from RI data sets (ZRI05E5)
Description:	Area old caulked for windows facing southeast.
Survey:	1985 RI Derivations from RI data sets (ZRI05E4)
Description:	Area old caulked for windows facing southwest.
Survey:	1985 RI Derivations from RI data sets (ZRI05E6)
Description:	Area old caulked for windows facing west.
Survey:	1985 RI Derivations from RI data sets (ZRI05E7)

Building Structure Data
Characteristics
Categories

WINDOWS

Size - with weatherstripping including sash

Description:	Area weatherstripped for all windows.
Survey:	1985 RI Derivations from RI data sets (ZRI05F)
Description:	Area weatherstripped for windows facing east.
Survey:	1985 RI Derivations from RI data sets (ZRI05F3)
Description:	Area weatherstripped for windows facing horizontal.
Survey:	1985 RI Derivations from RI data sets (ZRI05F9)
Description:	Area weatherstripped for windows facing north.
Survey:	1985 RI Derivations from RI data sets (ZRI05F1)
Description:	Area weatherstripped for windows facing northeast.
Survey:	1985 RI Derivations from RI data sets (ZRI05F2)
Description:	Area weatherstripped for windows facing northwest.
Survey:	1985 RI Derivations from RI data sets (ZRI05F8)
Description:	Area weatherstripped for windows facing south.
Survey:	1985 RI Derivations from RI data sets (ZRI05F5)
Description:	Area weatherstripped for windows facing southeast.
Survey:	1985 RI Derivations from RI data sets (ZRI05F4)
Description:	Area weatherstripped for windows facing southwest.
Survey:	1985 RI Derivations from RI data sets (ZRI05F6)
Description:	Area weatherstripped for windows facing west.
Survey:	1985 RI Derivations from RI data sets (ZRI05F7)

Building Structure Data
Characteristics
Categories

WINDOWS

Insulation

Description: Are most windows covered with plastic?
Survey: 1983 PNW Residential Survey (PNW151 Q-46)

Description: Percent of windows covered with plastic.
Survey: 1983 PNW Residential Survey (PNW155 Q-47)

Description: Are most windows insulated or made of thermopane?
Survey: 1983 PNW Residential Survey (PNW149 Q-46)

Description: Number of windows insulated or made of thermopane?
1985 W Monroe Window-Roof Summaries (INSNUM)

Description: Area of windows insulated or made of thermopane?
1985 W Monroe Window-Roof Summaries (INSAREA)

Description: Percent of windows insulated or made of thermopane.
Survey: 1983 PNW Residential Survey (PNW153 Q-47)
1985 W Monroe Window-Roof Summaries (PCTIN1)
1985 W Monroe Window-Roof Summaries (PCTIN2)

Description: Are most windows storm windows?
Survey: 1983 PNW Residential Survey (PNW150 Q-46)

Description: Number of windows classified as 'storm'.
1985 W Monroe Window-Roof Summaries (STRMNUM)

Description: Area of windows classified as 'storm'.
1985 W Monroe Window-Roof Summaries (STRMAREA)

Description: Percent of windows classified as 'storm'.
Survey: 1983 PNW Residential Survey (PNW154 Q-47)
1985 W Monroe Window-Roof Summaries (PCTST1)
1985 W Monroe Window-Roof Summaries (PCTST2)

Description: Number of windows classified as 'storm' and insulated.
1985 W Monroe Window-Roof Summaries (STINNUMB)

Description: Area of windows classified as 'storm' and insulated.
1985 W Monroe Window-Roof Summaries (STINAREA)

Description: Percent of windows classified as 'storm' and insulated.
1985 W Monroe Window-Roof Summaries (PCTSTIN1)
1985 W Monroe Window-Roof Summaries (PCTSTIN2)

Building Structure Data
Characteristics
Categories

WINDOWS

Insulation (cont'd)

Description: Are most windows described by 'other' category?
Survey: 1983 PNW Residential Survey (PNW152 Q-46)

Description: Percent of windows described as 'other'.
Survey: 1983 PNW Residential Survey (PNW156 Q-47)

Description: Do windows have more than single pane glass?
Survey: 1985 Residential Occupant Survey (RT049 Q-52)

Description: Do you use plastic over windows in the winter?
Survey: 1985 Residential Occupant Survey (RT051 Q-54)

Description: Do you use storm windows in the winter?
Survey: 1985 Residential Occupant Survey (RT050 Q-53)

Description: Type of caulking in window section. (Mult obs)
Survey: 1985 RI Windows (RI005I Q-5I)

Description: Type of storm window(s) in window section. (Mult obs)
Survey: 1985 RI Windows (RI005E Q-5E)

Description: Type of weatherstripping in window section. (Mult obs)
Survey: 1985 RI Windows (RI005H Q-5H)

WINDOWS

Thermal Properties

Description: Total r-value of windows in building.
Survey: 1985 ELCAP Calculated Residential UA (UA019)

Description: Window ua in building.
Survey: 1985 ELCAP Calculated Residential UA (UA017)

Building Structure Data
Characteristics
Categories

WINDOWS

Changes - additions/replacements

Description: Replaced windows in the past year.
Survey: 1988 ELCAP Residential Survey (EL8090 Q-21A)

Description: Replaced windows since home built.
Survey: 1988 ELCAP Residential Survey (EL8091 Q-21B)

Description: Area of windows added in past year.
Survey: 1985 RI Modifications and Additions (RIMOD13 Q-2K)

Description: Number of windows added in past year.
Survey: 1985 RI Modifications and Additions (RIMOD12 Q-2J)

Description: Installed double/triple pane windows in last year.
Survey: 1987 ELCAP Residential Survey (EL7125 Q-20E)

Description: Added storm windows since home built.
Survey: 1988 ELCAP Residential Survey (EL8101 Q-21L)

Description: Added storm windows in past year.
Survey: 1988 ELCAP Residential Survey (EL8100 Q-21K)

Description: Installed storm windows in last year.
Survey: 1987 ELCAP Residential Survey (EL7124 Q-20D)

Description: Number of storm window renovations in past year.
Survey: 1985 RI Modifications and Additions (RIMOD27 Q-4D)

Description: Storm windows recommended by audit.
Survey: 1983 PNW Residential Survey (PNW101 Q-30A)

Description: Storm windows added after audit.
Survey: 1983 PNW Residential Survey (PNW102 Q-30B)

Description: Storm windows added since May 1980.
Survey: 1983 PNW Residential Survey (PNW103 Q-31AB)

Description: Plastic over windows recommended by audit.
Survey: 1983 PNW Residential Survey (PNW104 Q-30A)

Description: Plastic over windows added after audit.
Survey: 1983 PNW Residential Survey (PNW105 Q-30B)

Description: Plastic over windows added since May 1980.
Survey: 1983 PNW Residential Survey (PNW106 Q-31AB)

Building Structure Data
Characteristics
Categories

WINDOWS

Changes - renovating/weatherizing

Description: Caulking recommended by audit.
Survey: 1983 PNW Residential Survey (PNW116 Q-30A)

Description: Caulking added after audit.
Survey: 1983 PNW Residential Survey (PNW117 Q-30B)

Description: Caulking added since May 1980.
Survey: 1983 PNW Residential Survey (PNW118 Q-31AB)

Description: Weatherstripped windows in past year.
Survey: 1988 ELCAP Residential Survey (EL8096 Q-21G)

Description: Weatherstripped windows since home built.
Survey: 1988 ELCAP Residential Survey (EL8097 Q-21H)

Description: Weatherstripped windows added after audit.
Survey: 1983 PNW Residential Survey (PNW114 Q-30B)

Description: Weatherstripped windows since May 1980.
Survey: 1983 PNW Residential Survey (PNW115 Q-31AB)

Description: Weatherstripping windows recommended by audit.
Survey: 1983 PNW Residential Survey (PNW113 Q-30A)

Description: Number of window renovations in past year.
Survey: 1985 RI Modifications and Additions (RIMOD24 Q-4A)

Description: Number of aluminum sash window renovations in past year.
Survey: 1985 RI Modifications and Additions (RIMOD29 Q-4F)

Description: Number of double pane window renovations in past year.
Survey: 1985 RI Modifications and Additions (RIMOD26 Q-4C)

Description: Number of single pane window renovations in past year.
Survey: 1985 RI Modifications and Additions (RIMOD25 Q-4B)

Description: Number of wood sash window renovations in past year.
Survey: 1985 RI Modifications and Additions (RIMOD28 Q-4E)

Building Structure Data
Characteristics
Categories

WINDOWS

Miscellaneous

Description:	Air space width in window section. (Mult obs)
Survey:	1985 RI Windows (RI005C Q-5C)
Description:	Type of window shading. (Mult obs)
Survey:	1985 RI Windows (RI005G Q-5G)
Description:	Amount of sill decay in window section. (Mult obs)
Survey:	1985 RI Windows (RI005M Q-5M)
Description:	Conditioned zone location of the window section. (Mult obs)
Survey:	1985 RI Windows (RI005L Q-5L)
Description:	Direction window section is facing. (Mult obs)
Survey:	1985 RI Windows (RI005F Q-5F)
Description:	Number of panes in window section. (Mult obs)
Survey:	1985 RI Windows (RI005B Q-5B)
Description:	Type of sash in window section. (Mult obs)
Survey:	1985 RI Windows (RI005D Q-5D)
Description:	Percent of area that is sash in the window section. (Mult obs)
Survey:	1985 RI Windows (RI005K Q-5K)
Description:	Type of window section. (Mult obs)
Survey:	1985 RI Windows (RI005A Q-5A)

Building Structure Data
Characteristics
Categories

CEILING/ROOF

Size

Description: Ceiling area in building.
Survey: 1985 ELCAP Calculated Residential UA (UA009)
1985 RI Derivations from RI data sets (ZRI08A)
1985 W Monroe Window-Roof Summaries (RFTOTSQ)

Description: Number of similar roof components in building.
Survey: 1985 W Monroe Window-Roof Summaries (RFTOTNO)

Description: Area of ceiling with finished attic.
Survey: 1985 RI Derivations from RI data sets (ZRI08A1)

Description: Net ceiling area of exposed beam ceiling with no attic.
Survey: 1985 RI Derivations from RI data sets (ZRI08A4)

Description: Area of finished ceiling with no attic.
Survey: 1985 RI Derivations from RI data sets (ZRI08A2)

Description: Area of vaulted ceiling with no attic.
Survey: 1985 RI Derivations from RI data sets (ZRI08A3)

Description: Area of other ceiling types.
Survey: 1985 RI Derivations from RI data sets (ZRI08A5)

Description: Area of roof section. (Mult obs)
Survey: 1985 RI Derivations from RI data sets (RI008I Q-8I)

Building Structure Data
Characteristics
Categories

CEILING/ROOF

Insulation

Description: Percent of roof-ceiling-attic with insulation.
Survey: 1983 PNW Residential Survey (PNW133 Q-34)
1985 Residential Occupant Survey (RT019 Q-20)
1985 W Monroe Window-Roof Summaries (RPCTINS1)
1985 W Monroe Window-Roof Summaries (RPCTINS2)

Description: Area of roof-ceiling-attic with insulation.
1985 W Monroe Window-Roof Summaries (RFINSSQ)

Description: Number of similar of roof-ceiling-attic components with insulation.
1985 W Monroe Window-Roof Summaries (RFINSNO)

Description: Type of insulation if roof section. (Mult obs)
Survey: 1985 RI Ceiling/Roof (RI008E Q-8E)

Description: Type of insulation material in roof section. (Mult obs)
Survey: 1985 RI Ceiling/Roof (RI008F Q-8F)

Description: Insulation thickness in roof section. (Mult obs)
Survey: 1985 RI Ceiling/Roof (RI008G Q-8G)

Description: Type of vapor barrier in roof section. (Mult obs)
Survey: 1985 RI Ceiling/Roof (RI008D Q-8D)

Thermal Properties

Description: Ceiling ua in building.
Survey: 1985 ELCAP Calculated Residential UA (UA008)

Description: Total r-value of ceilings in building.
Survey: 1985 ELCAP Calculated Residential UA (UA010)

Description: Insulation R-value in roof section. (Mult obs)
Survey: 1985 RI Ceiling/Roof (RI008H Q-8H)

Description: R-value of roof-ceiling-attic insulation
Survey: 1985 Residential Occupant Survey (RT131 Q-22)

Building Structure Data
Characteristics
Categories

CEILING/ROOF

Changes

Description: Added attic insulation since home built.
Survey: 1988 ELCAP Residential Survey (EL8105 Q-21P)

Description: Insulation added to roof-ceiling-attic in past two years?
Survey: 1985 Residential Occupant Survey (RT020 Q-21)

Description: Added attic insulation in past year.
Survey: 1988 ELCAP Residential Survey (EL8104 Q-210)

Description: Added roof-ceiling insulation in past year.
Survey: 1987 ELCAP Residential Survey (EL7121 Q-20A)

Description: Added roof-ceiling-attic insulation in past year.
Survey: 1983 PNW Residential Survey (PNW134 Q-35)

Description: Ceiling insulation added in past year.
Survey: 1985 RI Modifications and Additions (RIMOD16 Q-2N)

Description: R-value of ceiling insulation added in past year.
Survey: 1985 RI Modifications and Additions (RIMOD17 Q-20)
1985 RI Modifications and Additions (RIMOD37 Q-40)

Description: Number of ceiling renovations in the past year.
Survey: 1985 RI Modifications and Additions (RIMOD36 Q-4N)

Description: Roof insulation recommended by audit.
Survey: 1983 PNW Residential Survey (PNW089 Q-30A)

Description: Roof insulation added after audit.
Survey: 1983 PNW Residential Survey (PNW090 Q-30B)

Description: Roof insulation added since May 1980.
Survey: 1983 PNW Residential Survey (PNW091 Q-31AB)

Miscellaneous

Description: Type of ceiling in roof section. (Mult obs)
Survey: 1985 RI Ceiling/Roof (RI008B Q-8B)

Description: Type of roofing material in roof section. (Mult obs)
Survey: 1985 RI Ceiling/Roof (RI008A Q-8A)

Building Structure Data
Characteristics
Categories

Foundation/Basement

Size

Description: Area of basement in building.
Survey: 1983 PNW Residential Survey (PNW468 Q-OT)
ELCAP Calculated Residential UA (UA021)

Description: Slab area in building.
Survey: 1985 ELCAP Calculated Residential UA (UA024)

Description: Area of basement unit X.
Survey: 1983 PNW Residential Survey (PNW431 Q-OB)

Description: Average depth below grade of the crawl space or basement floor. (Mult obs)
Survey: 1985 RI Foundation (RI027D Q-27D)

Description: Avg depth below grade of basement.
Survey: 1985 RI Derivations from RI data sets (ZRI027A1)

Description: Avg depth below grade of block foundation.
Survey: 1985 RI Derivations from RI data sets (ZRI027A3)

Description: Avg depth below grade of crawl space.
Survey: 1985 RI Derivations from RI data sets (ZRI027A2)

Description: Avg depth below grade of foundation.
Survey: 1985 RI Derivations from RI data sets (ZRI027A)

Description: Avg depth below grade of other type of foundation.
Survey: 1985 RI Derivations from RI data sets (ZRI027A4)

Description: Avg depth below grade of slab foundation.
Survey: 1985 RI Derivations from RI data sets (ZRI027A5)

Building Structure Data
Characteristics
Categories

Foundation/Basement

Size (cont'd)

Description:	Perimeter length of entire foundation.
Survey:	1985 RI Derivations from RI data sets (ZRI027B)
Description:	Perimeter of crawl space, slab, or basement. (Mult obs)
Survey:	1985 RI Foundation (RI027E Q-27E)
Description:	Perimeter length of basement.
Survey:	1985 RI Derivations from RI data sets (ZRI027B1)
Description:	Perimeter length of block foundation.
Survey:	1985 RI Derivations from RI data sets (ZRI027B3)
Description:	Perimeter length of crawl space.
Survey:	1985 RI Derivations from RI data sets (ZRI027B2)
Description:	Perimeter length of other type foundation.
Survey:	1985 RI Derivations from RI data sets (ZRI027B4)
Description:	Perimeter length of slab foundation.
Survey:	1985 RI Derivations from RI data sets (ZRI027B5)
Description:	Length of basement unit A.
Survey:	1983 PNW Residential Survey (PNW423 Q-OB)
Description:	Length of basement unit B.
Survey:	1983 PNW Residential Survey (PNW425)
Description:	Length of basement unit C.
Survey:	1983 PNW Residential Survey (PNW427 Q-OB)
Description:	Length of basement unit D.
Survey:	1983 PNW Residential Survey (PNW429 Q-OB)
Description:	Width of basement unit A.
Survey:	1983 PNW Residential Survey (PNW424 Q-OB)
Description:	Width of basement unit B.
Survey:	1983 PNW Residential Survey (PNW426 Q-OB)
Description:	Width of basement unit C.
Survey:	1983 PNW Residential Survey (PNW428 Q-OB)
Description:	Width of basement unit D.
Survey:	1983 PNW Residential Survey (PNW430 Q-OB)

Building Structure Data
Characteristics
Categories

Foundation/Basement

Insulation

Description: Insulation on perimeter of crawl space, basement or slab?
(Mult obs)

Survey: 1985 RI Foundation (RI027F Q-27F)

Description: Is there a vapor barrier between the conditioned space of
the house and the ground? (Mult obs)

Survey: 1985 RI Foundation (RI027H Q-27H)

Thermal Properties

Description: Basement ua in building.

Survey: 1985 ELCAP Calculated Residential UA (UA020)

Description: R-value of perimeter insulation in crawl space, basement or
slab. (Mult obs)

Survey: 1985 RI Foundation (RI027G Q-27G)

Description: Slab ua in building.

Survey: 1985 ELCAP Calculated Residential UA (UA023)

Description: Total r-value of basements in building.

Survey: 1985 ELCAP Calculated Residential UA (UA022)

Description: Total r-value of slab in building.

Survey: 1985 ELCAP Calculated Residential UA (UA025)

Changes

Description: Added insulation above unheated basement in past year?

Survey: 1983 PNW Residential Survey (PNW142 Q-39)

Description: Basement finished since home built?

Survey: 1988 ELCAP Residential Survey (EL8085 Q-20A)

Building Structure Data
Characteristics
Categories

Foundation/Basement

Miscellaneous

Description: Foundation includes a basement.
Survey: 1983 PNW Residential Survey (PNW135 Q-36)
1985 Residential Occupant Survey (RT041 Q-43)

Description: Percent of basement heated.
Survey: 1983 PNW Residential Survey (PNW140 Q-37)
1985 Residential Occupant Survey (RT042 Q-44)

Description: Number of units in the basement.
Survey: 1983 PNW Residential Survey (PNW432 Q-0B)

Description: Basement half or full.
Survey: 1983 PNW Residential Survey (PNW422 Q-0B)

Description: Foundation includes a concrete slab.
Survey: 1983 PNW Residential Survey (PNW138 Q-36)

Description: Foundation includes an enclosed crawlspace.
Survey: 1983 PNW Residential Survey (PNW136 Q-36)

Description: Foundation includes an open crawlspace.
Survey: 1983 PNW Residential Survey (PNW137 Q-36)

Description: Foundation includes other type foundation.
Survey: 1983 PNW Residential Survey (PNW139 Q-36)

Description: General type of building foundation. (Mult obs)
Survey: 1985 RI Foundation (RI027A Q-27A)

Description: Material comprising building foundation. (Mult obs)
Survey: 1985 RI Foundation (RI027B Q-27B)

Description: Vent area of the crawl space. (Mult obs)
Survey: 1985 RI Foundation (RI027I Q-27I)

Description: Earth or shrubs in contact with foundation? (Mult obs)
Survey: 1985 RI Foundation (RI027C Q-27C)

Building Structure Data
Characteristics
Categories

DOORS

Size - all door types

Description:	Total door area in building.
Survey:	1985 ELCAP Calculated Residential UA (UA015) 1985 RI Derivations from RI data sets (ZRI06A)
Description:	Area of door(s). (Mult obs)
Survey:	1985 RI Doors (RI006J Q-6J)
Description:	Area of doors facing east.
Survey:	1985 RI Derivations from RI data sets (ZRI06A3)
Description:	Area of doors facing north.
Survey:	1985 RI Derivations from RI data sets (ZRI06A1)
Description:	Area of doors facing northeast.
Survey:	1985 RI Derivations from RI data sets (ZRI06A2)
Description:	Area of doors facing northwest.
Survey:	1985 RI Derivations from RI data sets (ZRI06A8)
Description:	Area of doors facing south.
Survey:	1985 RI Derivations from RI data sets (ZRI06A5)
Description:	Area of doors facing southeast.
Survey:	1985 RI Derivations from RI data sets (ZRI06A4)
Description:	Area of doors facing southwest.
Survey:	1985 RI Derivations from RI data sets (ZRI06A6)
Description:	Area of doors facing west.
Survey:	1985 RI Derivations from RI data sets (ZRI06A7)

Building Structure Data
Characteristics
Categories

DOORS

Size - with new caulking

Description: Area new caulked of all Doors.
Survey: 1985 RI Derivations from RI data sets (ZRI06C)

Description: Area new caulked for doors facing east.
Survey: 1985 RI Derivations from RI data sets (ZRI06C3)

Description: Area new caulked for doors facing north.
Survey: 1985 RI Derivations from RI data sets (ZRI06C1)

Description: Area new caulked for doors facing northeast.
Survey: 1985 RI Derivations from RI data sets (ZRI06C2)

Description: Area new caulked for doors facing northwest.
Survey: 1985 RI Derivations from RI data sets (ZRI06C8)

Description: Area new caulked for doors facing south.
Survey: 1985 RI Derivations from RI data sets (ZRI06C5)

Description: Area new caulked for doors facing southeast.
Survey: 1985 RI Derivations from RI data sets (ZRI06C4)

Description: Area new caulked for doors facing southwest.
Survey: 1985 RI Derivations from RI data sets (ZRI06C6)

Description: Area new caulked for doors facing west.
Survey: 1985 RI Derivations from RI data sets (ZRI06C7)

Description: Area old caulked for all Doors.
Survey: 1985 RI Derivations from RI data sets (ZRI06D)

Building Structure Data
Characteristics
Categories

DOORS

Size - with old caulking

Description:	Area old caulked for doors facing east.
Survey:	1985 RI Derivations from RI data sets (ZRI06D3)
Description:	Area old caulked for doors facing north.
Survey:	1985 RI Derivations from RI data sets (ZRI06D1)
Description:	Area old caulked for doors facing northeast.
Survey:	1985 RI Derivations from RI data sets (ZRI06D2)
Description:	Area old caulked for doors facing northwest.
Survey:	1985 RI Derivations from RI data sets (ZRI06D8)
Description:	Area old caulked for doors facing south.
Survey:	1985 RI Derivations from RI data sets (ZRI06D5)
Description:	Area old caulked for doors facing southeast.
Survey:	1985 RI Derivations from RI data sets (ZRI06D4)
Description:	Area old caulked for doors facing southwest.
Survey:	1985 RI Derivations from RI data sets (ZRI06D6)
Description:	Area old caulked for doors facing west.
Survey:	1985 RI Derivations from RI data sets (ZRI06D7)

Building Structure Data
Characteristics
Categories

DOORS

Size - with weatherstripping

Description: Area weatherstripped for all doors.
Survey: 1985 RI Derivations from RI data sets (ZRI06B)

Description: Area weatherstripped for doors facing east.
Survey: 1985 RI Derivations from RI data sets (ZRI06B3)

Description: Area weatherstripped for doors facing north.
Survey: 1985 RI Derivations from RI data sets (ZRI06B1)

Description: Area weatherstripped for doors facing northeast.
Survey: 1985 RI Derivations from RI data sets (ZRI06B2)

Description: Area weatherstripped for doors facing northwest.
Survey: 1985 RI Derivations from RI data sets (ZRI06B8)

Description: Area weatherstripped for doors facing south.
Survey: 1985 RI Derivations from RI data sets (ZRI06B5)

Description: Area weatherstripped for doors facing southeast.
Survey: 1985 RI Derivations from RI data sets (ZRI06B4)

Description: Area weatherstripped for doors facing southwest.
Survey: 1985 RI Derivations from RI data sets (ZRI06B6)

Description: Area weatherstripped for doors facing west.
Survey: 1985 RI Derivations from RI data sets (ZRI06B7)

Building Structure Data
Characteristics
Categories

DOORS

Size - glass area

Description:	Glass area of all Doors.	
Survey:	1985 RI Derivations from RI data sets	(ZRI06E)
Description:	Glass area of doors facing east.	
Survey:	1985 RI Derivations from RI data sets	(ZRI06E3)
Description:	Glass area of doors facing north.	
Survey:	1985 RI Derivations from RI data sets	(ZRI06E1)
Description:	Glass area of doors facing northeast.	
Survey:	1985 RI Derivations from RI data sets	(ZRI06E2)
Description:	Glass area of doors facing northwest.	
Survey:	1985 RI Derivations from RI data sets	(ZRI06E8)
Description:	Glass area of doors facing south.	
Survey:	1985 RI Derivations from RI data sets	(ZRI06E5)
Description:	Glass area of doors facing southeast.	
Survey:	1985 RI Derivations from RI data sets	(ZRI06E4)
Description:	Glass area of doors facing southwest.	
Survey:	1985 RI Derivations from RI data sets	(ZRI06E6)
Description:	Glass area of doors facing west.	
Survey:	1985 RI Derivations from RI data sets	(ZRI06E7)
Description:	Glass area of door(s). (Mult obs)	
Survey:	1985 RI Doors (RI006K Q-6K)	

Building Structure Data
Characteristics
Categories

DOORS

Insulation

Description: Type of caulking in door(s). (Mult obs)
Survey: 1985 RI Doors (RI006H Q-6H)

Description: Type of storm door(s). (Mult obs)
Survey: 1985 RI Doors (RI006I Q-6I)

Description: Type of weatherstripping in door(s). (Mult obs)
Survey: 1985 RI Doors (RI006G Q-6G)

Thermal Properties

Description: Door ua in building.
Survey: 1985 ELCAP Calculated Residential UA (UA014)

Description: Total r-value of doors in building.
Survey: 1985 ELCAP Calculated Residential UA (UA016)

Description: Estimate r-value of door(s). (Mult obs)
Survey: 1985 RI Doors (RI006L Q-6L)

Building Structure Data
Characteristics
Categories

DOORS

Changes - additions/replacements

Description: Number of doors added in past year.
Survey: 1985 RI Modifications and Additions (RIMOD14 Q-2L)

Description: Area of doors added in past year.
Survey: 1985 RI Modifications and Additions (RIMOD15 Q-2M)

Description: Added storm doors since home built.
Survey: 1988 ELCAP Residential Survey (EL8103 Q-21N)

Description: Added storm doors in past year.
Survey: 1988 ELCAP Residential Survey (EL8102 Q-21M)

Description: Storm doors added after audit.
Survey: 1983 PNW Residential Survey (PNW099 Q-30B)

Description: Storm doors recommended by audit.
Survey: 1983 PNW Residential Survey (PNW098 Q-30A)

Description: Storm doors added since May 1980.
Survey: 1983 PNW Residential Survey (PNW100 Q-31AB)

Description: Replaced doors since home built.
Survey: 1988 ELCAP Residential Survey (EL8093 Q-21D)

Description: Replaced doors in past year.
Survey: 1988 ELCAP Residential Survey (EL8092 Q-21C)

Building Structure Data
Characteristics
Categories

DOORS

Changes - renovating/weatherizing

Description:	Number of door renovations in past year.
Survey:	1985 RI Modifications and Additions (RIMOD30 Q-4G)
Description:	Number of door renovations in past year.
Survey:	1985 RI Modifications and Additions (RIMOD40 Q-4R)
Description:	Number of sliding glass door renovations in past year.
Survey:	1985 RI Modifications and Additions (RIMOD31 Q-4H)
Description:	Number of storm door renovations in past year.
Survey:	1985 RI Modifications and Additions (RIMOD33 Q-4K)
Description:	Number of other door renovations in past year.
Survey:	1985 RI Modifications and Additions (RIMOD34 Q-4L)
Description:	Description of other door renovations in past year.
Survey:	1985 RI Modifications and Additions (RIMOD35 Q-4M)
Description:	Number of door insulations in past year.
Survey:	1985 RI Modifications and Additions (RIMOD32 Q-4I)
Description:	R-value of door insulation in past year.
Survey:	1985 RI Modifications and Additions (RIMOD41 Q-4S)
Description:	Weatherstripped doors in past year.
Survey:	1988 ELCAP Residential Survey (EL8098 Q-21I)
Description:	Weatherstripped doors since home built.
Survey:	1988 ELCAP Residential Survey (EL8099 Q-21J)

Building Structure Data
Characteristics
Categories

DOORS

Miscellaneous

Description: Number of doors connecting heated and unheated areas.
Survey: 1983 PNW Residential Survey (PNW145 Q-42)

Description: Number of outside doors excluding sliding glass.
Survey: 1985 Residential Occupant Survey (RT045 Q-48)

Description: Number of sliding glass doors connecting heated and unheated areas.
Survey: 1983 PNW Residential Survey (PNW147 Q-44)
1985 Residential Occupant Survey (RT047 Q-50)

Description: Number of sliding glass doors with more than single pane.
Survey: 1985 Residential Occupant Survey (RT048 Q-51)

Description: Number of sliding glass doors with insulated glass.
Survey: 1983 PNW Residential Survey (PNW148 Q-45)

Description: Number of outside doors with storms installed in winter.
Survey: 1985 Residential Occupant Survey (RT046 Q-49)

Description: Number of storm doors connecting heated and unheated areas.
Survey: 1983 PNW Residential Survey (PNW146 Q-43)

Description: Composition of core in door(s). (Mult obs)
Survey: 1985 RI Doors (RI006B Q-6B)

Description: Direction door is facing. (Mult obs)
Survey: 1985 RI Doors (RI006F Q-6F)

Description: Exterior finish of door(s). (Mult obs)
Survey: 1985 RI Doors (RI006A Q-6A)

Description: Type of framing in door(s). (Mult obs)
Survey: 1985 RI Doors (RI006C Q-6C)

Building Structure Data
Characteristics
Categories

DUCTING

Size-Insulation-Thermal Properties

Description: Type of duct/pipe insulation. (Mult obs)
Survey: 1985 RI Ducting (RI022D Q-22D)

Description: Length of insulated pipes/ducts in unconditioned areas.
(Mult obs)
Survey: 1985 RI Ducting (RI022G Q-22G)

Description: Length of pipes/ducts in unconditioned areas. (Mult obs)
Survey: 1985 RI Ducting (RI022F Q-22F)

Description: Length of heating ducts.
Survey: 1985 RI Ducting (ZRI221)

Description: Percent of heating ducts insulated.
Survey: 1985 RI Ducting (ZRI222)

Description: R-value of pipe/duct insulation. (Mult obs)
Survey: 1985 RI Ducting (RI022H Q-22H)

Changes

Description: Heating duct insulation added after audit.
Survey: 1983 PNW Residential Survey (PNW096 Q-30B)

Description: Heating duct insulation added since May 1980.
Survey: 1983 PNW Residential Survey (PNW097 Q-31AB)

Description: Heating duct insulation recommended by audit.
Survey: 1983 PNW Residential Survey (PNW095 Q-30A)

Building Structure Data
Characteristics
Categories

DUCTING

Miscellaneous

Description: Building zone(s) where pipes or ducts are located.
(Mult obs)
Survey: 1985 RI Ducting (RI022C Q-22C)

Description: Duct joints taped or sealed? (Mult obs)
Survey: 1985 RI Ducting (RI022E Q-22E)

Description: Heating or cooling identifier code for HVAC system
connected to ducts/pipes. (Mult obs)
Survey: 1985 RI Ducting (RI022B Q-22B)

Description: Percent of heating ducts sealed in conditioned zones.
Survey: 1985 RI Modifications and Additions (ZRI223)

Description: Percent of heating ducts sealed in unconditioned zones.
Survey: 1985 RI Modifications and Additions (ZRI224)

Description: Type of duct or pipe associated with HVAC equipment.
(Mult obs)
Survey: 1985 RI Ducting (RI022A Q-22A)