

2014 National Hospital Ambulatory Medical Care Survey (NHAMCS) Data for Dementia Research

Support

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Overview of the data files

This data dictionary is for the three NHAMCS_cog_2014_XXX files, which include STATA, SAS, and CSV file formats.

The NHAMCS_cog_2014 dataset includes data from the National Hospital Ambulatory Medical Care Survey (NHAMCS) Emergency Department (ED) file. Each row of data in the NHAMCS ED file represents a single patient-visit to an ED. ICD-9 codes from the DIAG1-DIAG5 variables were used to identify patient-visits where the patient was diagnosed with Alzheimer's disease and related dementias (ADRD). This dataset also includes demographic variables (e.g., age, sex, race), visit- and ED-level weights, strata, and PSU, as well as Reason for Visit codes. Some of these variables were recoded in the following ways:

1. Where applicable, variables from the original dataset were recoded, such that answers of "Not applicable" and "Blank" were set to be missing in this dataset
2. Binary variables were re-coded such that no=0 and yes=1 (e.g., `sex` [1=female, 2=male] was re-coded into the variable `female` [0=no/male, 1=yes/female])
3. Variables that were re-coded include the name of the original NHAMCS variable in the description to allow users to easily look up the original question text and categories in the NHAMCS documentation
4. For STATA users, all variable names have been converted to lowercase

For identifying cognitive impairment/ADRD, the variable `cog_dx` was created to flag patient-visits with an ADRD diagnosis where the diagnosis was NOT flagged as probable, questionable, or ruleout. The variables `cog_dx_code1` through `cog_dx_code5` were created to show users which ICD-9 code was identified as diagnosing ADRD. The variable `any_cog` was created to flag instances where either `alzhd` = 1 or `cog_dx` = 1. `alzhd` is a variable created by NHAMCS and indicates if a patient has Alzheimer's disease regardless of diagnosis for the visit.

Brief and detailed summaries of the variable names, types, descriptions, and mean, minimum, and maximum values are included below. Descriptions of each recoded variable in this dataset include the original NHAMCS variable name. Original variable names, question text, and categories can be found on the NHAMCS Website (https://www.cdc.gov/nchs/ahcd/datasets_documentation_related.htm).

Users of this resource should be familiar with complex survey design and appropriately apply the sample weights, strata, and primary sampling units for any analyses. `patwt` should be used for patient-visit-level analyses; `edwt` should be used for ED-level analyses.

Brief summary of all variables (unweighted)

| Variable | Obs | Unique | Mean | Min | Max | Label |
|----------|-------|--------|----------|-------|-------|--|
| year | 23844 | 1 | 2014 | 2014 | 2014 | Calendar year |
| id | 23844 | 406 | 190.2701 | 2 | 407 | Visit ID - concatenation of hospcode and patcode |
| hospcode | 23844 | 266 | 137.9907 | 1 | 266 | Hospital number |
| patcode | 23844 | 266 | 52.2794 | 1 | 266 | Patient code |
| region | 23844 | 4 | 2.585304 | 1 | 4 | Geographic region |
| age | 23844 | 94 | 37.2331 | 0 | 93 | Patient age in years |
| ager | 23844 | 6 | 3.075994 | 1 | 6 | Age recode |
| age65 | 23844 | 2 | .1576917 | 0 | 1 | Patient is age 65 or older. 1/0 |
| female | 23844 | 2 | .5479366 | 0 | 1 | Recode of sex: Patient is female. 1/0 |
| racereth | 23844 | 4 | 1.646158 | 1 | 4 | RACER and ETHNIC combination |
| paytyper | 21867 | 7 | 2.525724 | 1 | 7 | Recoded primary expected source of payment for this visit (based on hierarchy) |
| payer | 21867 | 4 | 1.873645 | 1 | 4 | recode of paytyper: source of payment |
| totchron | 23661 | 13 | .9748531 | 0 | 12 | Total number of chronic conditions |
| rfv1 | 23817 | 571 | 22694.4 | 10050 | 89980 | Patient's complaint, symptom, or other reason for visit #1 - detailed category |
| rfv2 | 14163 | 575 | 21216.33 | 10050 | 89980 | Patient's complaint, symptom, or other reason for visit #2 - detailed category |
| rfv3 | 7796 | 507 | 20814.11 | 10050 | 89980 | Patient's complaint, symptom, or other reason for visit #3 - detailed category |
| rfv4 | 3948 | 434 | 20952.07 | 10050 | 89980 | Patient's complaint, symptom, or other reason for visit #4 - detailed category |
| rfv5 | 1929 | 358 | 21726.35 | 10050 | 89980 | Patient's complaint, symptom, or other reason for visit #5 - detailed category |
| diag1 | 23844 | 1894 | . | . | . | Diagnosis #1 - detailed category |
| diag2 | 23844 | 1619 | . | . | . | Diagnosis #2 - detailed category |
| diag3 | 23844 | 1190 | . | . | . | Diagnosis #3 - detailed category |
| diag4 | 23844 | 859 | . | . | . | Diagnosis #4 - detailed category |
| diag5 | 23844 | 605 | . | . | . | Diagnosis #5 - detailed category |
| prdiag1 | 23702 | 2 | .0035862 | 0 | 1 | For diagnosis 1, is this probable, questionable, or ruleout? |
| prdiag2 | 12273 | 2 | .016133 | 0 | 1 | For diagnosis 2, is this probable, questionable, or ruleout? |
| prdiag3 | 6118 | 2 | .0143838 | 0 | 1 | For diagnosis 3, is this probable, questionable, or ruleout? |
| prdiag4 | 3175 | 2 | .0125984 | 0 | 1 | For diagnosis 4, is this probable, questionable, or ruleout? |
| prdiag5 | 1766 | 2 | .0147225 | 0 | 1 | For diagnosis 5, is this probable, questionable, or ruleout? |
| alzhd | 23844 | 2 | .0130851 | 0 | 1 | Does patient have: Alzheimer's disease/Dementia |
| cog_dx | 23844 | 2 | .0038584 | 0 | 1 | indicator: any cognition-related diagnosis. 1/0 |

| | | | | | | |
|--------------|-------|-----|----------|----------|----------|---|
| any_cog | 23844 | 2 | .0130851 | 0 | 1 | any cognition-related diagnosis (cog_dx=1) or patient indicated to have dementia regardless of diagnosis (alzhd=1). 1/0 |
| cog_dx_code1 | 19 | 3 | . | . | . | identified cognition-related ICD-9 / ICD-10 diagnosis code from diag1 |
| cog_dx_code2 | 31 | 7 | . | . | . | identified cognition-related ICD-9 / ICD-10 diagnosis code from diag2 |
| cog_dx_code3 | 15 | 3 | . | . | . | identified cognition-related ICD-9 / ICD-10 diagnosis code from diag3 |
| cog_dx_code4 | 24 | 7 | . | . | . | identified cognition-related ICD-9 / ICD-10 diagnosis code from diag4 |
| cog_dx_code5 | 11 | 4 | . | . | . | identified cognition-related ICD-9 / ICD-10 diagnosis code from diag5 |
| settype | 23844 | 1 | 3 | 3 | 3 | Setting type |
| cstratm | 23844 | 8 | 3.10e+07 | 2.01e+07 | 4.04e+07 | Clustered CSTRATM -- masked |
| cpsum | 23844 | 156 | 46348.33 | 1 | 100261 | Clustered CPSUM -- masked |
| patwt | 23844 | 356 | 5931.071 | 22 | 72062 | Patient visit weight |
| edwt | 0 | 0 | . | . | . | ED weight |

Detailed summary of all variables (unweighted)

| | |
|------|---------------|
| year | Calendar year |
|------|---------------|

type: numeric (int)

range: [2014,2014] units: 1

unique values: 1 missing .: 0/23,844

tabulation: Freq. Value

| | |
|--------|------|
| 23,844 | 2014 |
|--------|------|

| | |
|----|--|
| id | Visit ID - concatenation of hospcode and patcode |
|----|--|

type: numeric (int)

range: [2,407] units: 1

unique values: 406 missing .: 0/23,844

mean: 190.27

std. dev: 84.6922

percentiles:

| | | | | |
|-----|-----|-----|-----|-----|
| 10% | 25% | 50% | 75% | 90% |
| 75 | 123 | 192 | 257 | 302 |

| | |
|----------|-----------------|
| hospcode | Hospital number |
|----------|-----------------|

type: numeric (int)

range: [1,266] units: 1

unique values: 266 missing .: 0/23,844

mean: 137.991

std. dev: 76.7822

| | | | | | |
|--------------|-----|-----|-----|-----|-----|
| percentiles: | 10% | 25% | 50% | 75% | 90% |
| | 28 | 75 | 139 | 206 | 242 |

patcode

Patient code

type: numeric (int)

range: [1,266]

units: 1

unique values: 266

missing .: 0/23,844

mean: 52.2794

std. dev: 35.2998

| | | | | | |
|--------------|-----|-----|-----|-----|-----|
| percentiles: | 10% | 25% | 50% | 75% | 90% |
| | 10 | 24 | 48 | 76 | 98 |

region

Geographic region

type: numeric (byte)

label: REGIONF

range: [1,4]

units: 1

unique values: 4

missing .: 0/23,844

| | | | |
|-------------|-------|---------|-----------|
| tabulation: | Freq. | Numeric | Label |
| | 4,562 | 1 | Northeast |
| | 5,846 | 2 | Midwest |
| | 8,354 | 3 | South |
| | 5,082 | 4 | West |

age

Patient age in years

type: numeric (byte)

label: AGEF, but 92 nonmissing values are not labeled

range: [0,93] units: 1
unique values: 94 missing .: 0/23,844

examples: 14
28
43
60

ager Age recode

type: numeric (byte)
label: AGERF

range: [1,6] units: 1
unique values: 6 missing .: 0/23,844

| tabulation: | Freq. | Numeric | Label |
|-------------|-------|---------|-------------------|
| | 4,818 | 1 | Under 15 years |
| | 3,383 | 2 | 15-24 years |
| | 6,622 | 3 | 25-44 years |
| | 5,261 | 4 | 45-64 years |
| | 1,710 | 5 | 65-74 years |
| | 2,050 | 6 | 75 years and over |

age65 Patient is age 65 or older. 1/0

type: numeric (byte)
label: NOYESF

range: [0,1] units: 1
unique values: 2 missing .: 0/23,844

| tabulation: | Freq. | Numeric | Label |
|-------------|--------|---------|-------|
| | 20,084 | 0 | No |

3,760 1 Yes

female

Recode of sex: Patient is female. 1/0

type: numeric (byte)

label: NOYESF

range: [0,1]

units: 1

unique values: 2

missing .: 0/23,844

| tabulation: | Freq. | Numeric | Label |
|-------------|--------|---------|-------|
| | 10,779 | 0 | No |
| | 13,065 | 1 | Yes |

racereeth

RACER and ETHNIC combination

type: numeric (byte)

label: RACERETHF

range: [1,4]

units: 1

unique values: 4

missing .: 0/23,844

| tabulation: | Freq. | Numeric | Label |
|-------------|--------|---------|--------------------|
| | 13,795 | 1 | Non-Hispanic White |
| | 5,453 | 2 | Non-Hispanic Black |
| | 3,834 | 3 | Hispanic |
| | 762 | 4 | Non-Hispanic Other |

paytyper

Recoded primary expected source of payment for visit (based on hierarchy)

type: numeric (byte)

label: PAYTYPERF

range: [1,7]

units: 1

unique values: 7 missing .: 1,977/23,844

| tabulation: | Freq. | Numeric | Label |
|-------------|-------|---------|-----------------------|
| | 6,762 | 1 | Private insurance |
| | 4,312 | 2 | Medicare |
| | 7,574 | 3 | Medicaid or CHIP |
| | 160 | 4 | Worker's compensation |
| | 2,439 | 5 | Self-pay |
| | 53 | 6 | No charge/Charity |
| | 567 | 7 | Other |
| | 1,977 | . | |

payer recode of paytyper: source of payment

type: numeric (byte)

label: payerlbl

range: [1,4] units: 1

unique values: 4 missing .: 1,977/23,844

| tabulation: | Freq. | Numeric | Label |
|-------------|--------|---------|------------------------|
| | 6,762 | 1 | Private insurance |
| | 11,886 | 2 | Medicare/Medicaid/CHIP |
| | 2,439 | 3 | Self-pay |
| | 780 | 4 | Other |
| | 1,977 | . | |

totchron Total number of chronic conditions

type: numeric (byte)

label: TOTPROCF, but 13 nonmissing values are not labeled

range: [0,12] units: 1

unique values: 13 missing .: 183/23,844

examples: 0

| | |
|------|--|
| rfv1 | Patient's complaint, symptom, or other reason for visit #1 - detailed category |
|------|--|

```
examples: 12100 Headache, pain in head
          15001 Toothache
          18600 Skin rash
          28000 Carbuncle, furuncle, boil, cellulitis...
```

| rfv2 | Patient's complaint, symptom, or other reason for visit #2 - detailed category |
|------|--|
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 5 |
| 6 | 6 |
| 7 | 7 |
| 8 | 8 |
| 9 | 9 |
| 10 | 10 |
| 11 | 11 |
| 12 | 12 |
| 13 | 13 |
| 14 | 14 |
| 15 | 15 |
| 16 | 16 |
| 17 | 17 |
| 18 | 18 |
| 19 | 19 |
| 20 | 20 |
| 21 | 21 |
| 22 | 22 |
| 23 | 23 |
| 24 | 24 |
| 25 | 25 |
| 26 | 26 |
| 27 | 27 |
| 28 | 28 |
| 29 | 29 |
| 30 | 30 |
| 31 | 31 |
| 32 | 32 |
| 33 | 33 |
| 34 | 34 |
| 35 | 35 |
| 36 | 36 |
| 37 | 37 |
| 38 | 38 |
| 39 | 39 |
| 40 | 40 |
| 41 | 41 |
| 42 | 42 |
| 43 | 43 |
| 44 | 44 |
| 45 | 45 |
| 46 | 46 |
| 47 | 47 |
| 48 | 48 |
| 49 | 49 |
| 50 | 50 |
| 51 | 51 |
| 52 | 52 |
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| 63 | 63 |
| 64 | 64 |
| 65 | 65 |
| 66 | 66 |
| 67 | 67 |
| 68 | 68 |
| 69 | 69 |
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| 74 | 74 |
| 75 | 75 |
| 76 | 76 |
| 77 | 77 |
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| 79 | 79 |
| 80 | 80 |
| 81 | 81 |
| 82 | 82 |
| 83 | 83 |
| 84 | 84 |
| 85 | 85 |
| 86 | 86 |
| 87 | 87 |
| 88 | 88 |
| 89 | 89 |
| 90 | 90 |
| 91 | 91 |
| 92 | 92 |
| 93 | 93 |
| 94 | 94 |
| 95 | 95 |
| 96 | 96 |
| 97 | 97 |
| 98 | 98 |
| 99 | 99 |
| 100 | 100 |

```
examples: 14200 Labored or difficult breathing (dyspnea)
          19001 Neck pain, ache, soreness, discomfort
          .
          .
```

| rfv3 | Patient's complaint, symptom, or other reason for visit #3 - detailed category |
|------|--|
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 5 |
| 6 | 6 |
| 7 | 7 |
| 8 | 8 |
| 9 | 9 |
| 10 | 10 |
| 11 | 11 |
| 12 | 12 |
| 13 | 13 |
| 14 | 14 |
| 15 | 15 |
| 16 | 16 |
| 17 | 17 |
| 18 | 18 |
| 19 | 19 |
| 20 | 20 |
| 21 | 21 |
| 22 | 22 |
| 23 | 23 |
| 24 | 24 |
| 25 | 25 |
| 26 | 26 |
| 27 | 27 |
| 28 | 28 |
| 29 | 29 |
| 30 | 30 |
| 31 | 31 |
| 32 | 32 |
| 33 | 33 |
| 34 | 34 |
| 35 | 35 |
| 36 | 36 |
| 37 | 37 |
| 38 | 38 |
| 39 | 39 |
| 40 | 40 |
| 41 | 41 |
| 42 | 42 |
| 43 | 43 |
| 44 | 44 |
| 45 | 45 |
| 46 | 46 |
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| 86 | 86 |
| 87 | 87 |
| 88 | 88 |
| 89 | 89 |
| 90 | 90 |
| 91 | 91 |
| 92 | 92 |
| 93 | 93 |
| 94 | 94 |
| 95 | 95 |
| 96 | 96 |
| 97 | 97 |
| 98 | 98 |
| 99 | 99 |
| 100 | 100 |

11

range: [10050,89980] units: 1
unique values: 507 missing .: 16,048/23,844

examples: 16401 Blood in urine (hematuria)

.
.
.

rfv4 Patient's complaint, symptom, or other reason for visit #4 - detailed category

type: numeric (long)
label: RFVF

range: [10050,89980] units: 1
unique values: 434 missing .: 19,896/23,844

examples: .
.
.
.

rfv5 Patient's complaint, symptom, or other reason for visit #5 - detailed category

type: numeric (long)
label: RFVF

range: [10050,89980] units: 1
unique values: 358 missing .: 21,915/23,844

examples: .
.
.
.

diag1 Diagnosis #1 - detailed category

type: string (str5)

unique values: 1,894 missing "": 0/23,844

examples: "4644-"
"64683"
"7842-"
"84500"

diag2 Diagnosis #2 - detailed category

type: string (str5)

unique values: 1,619 missing "": 0/23,844

examples: "-9"
"-9"
"36130"
"78039"

diag3 Diagnosis #3 - detailed category

type: string (str5)

unique values: 1,190 missing "": 0/23,844

examples: "-9"
"-9"
"-9"
"3090-"

diag4 Diagnosis #4 - detailed category

type: string (str5)

unique values: 859

missing "": 0/23,844

examples: "-9"

"-9"

"-9"

"-9"

diag5

Diagnosis #5 - detailed category

type: string (str5)

unique values: 605

missing "": 0/23,844

examples: "-9"

"-9"

"-9"

"-9"

prdiag1

For diagnosis 1, is this probable, questionable, or ruleout?

type: numeric (byte)

label: PRDIAGF

range: [0,1]

units: 1

unique values: 2

missing .: 142/23,844

| tabulation: | Freq. | Numeric | Label |
|-------------|--------|---------|-------|
| | 23,617 | 0 | No |
| | 85 | 1 | Yes |
| | 142 | . | |

prdiag2 For diagnosis 2, is this probable, questionable, or ruleout?

type: numeric (byte)
label: PRDIAGF

range: [0,1] units: 1
unique values: 2 missing .: 11,571/23,844

| tabulation: | Freq. | Numeric | Label |
|-------------|--------|---------|-------|
| | 12,075 | 0 | No |
| | 198 | 1 | Yes |
| | 11,571 | . | |

prdiag3 For diagnosis 3, is this probable, questionable, or ruleout?

type: numeric (byte)
label: PRDIAGF

range: [0,1] units: 1
unique values: 2 missing .: 17,726/23,844

| tabulation: | Freq. | Numeric | Label |
|-------------|--------|---------|-------|
| | 6,030 | 0 | No |
| | 88 | 1 | Yes |
| | 17,726 | . | |

prdiag4 For diagnosis 4, is this probable, questionable, or ruleout?

type: numeric (byte)
label: PRDIAGF

range: [0,1] units: 1
unique values: 2 missing .: 20,669/23,844

| tabulation: | Freq. | Numeric | Label |
|-------------|-------|---------|-------|
|-------------|-------|---------|-------|

| | | |
|--------|---|-----|
| 3,135 | 0 | No |
| 40 | 1 | Yes |
| 20,669 | . | |

prdiag5 For diagnosis 5, is this probable, questionable, or ruleout?

type: numeric (byte)

label: PRDIAGF

range: [0,1] units: 1

unique values: 2 missing .: 22,078/23,844

| tabulation: | Freq. | Numeric | Label |
|-------------|--------|---------|-------|
| | 1,740 | 0 | No |
| | 26 | 1 | Yes |
| | 22,078 | . | |

alzhd Does patient have: Alzheimer's disease/Dementia

type: numeric (byte)

label: NOYESF

range: [0,1] units: 1

unique values: 2 missing .: 0/23,844

| tabulation: | Freq. | Numeric | Label |
|-------------|--------|---------|-------|
| | 23,532 | 0 | No |
| | 312 | 1 | Yes |

cog_dx indicator: any cognition-related diagnosis. 1/0

type: numeric (byte)

label: NOYESF


```

range: [0,1] units: 1
unique values: 2 missing .: 0/23,844

```

```

tabulation: Freq. Numeric Label
            23,752      0 No
            92         1 Yes

```

```

-----
any_cog          any cognition-related diagnosis (cog_dx=1) or patient indicated to have dementia
                  regardless of diagnosis (alzhd=1). 1/0
-----

```

```

type: numeric (byte)
label: NOYESF

```

```

range: [0,1] units: 1
unique values: 2 missing .: 0/23,844

```

```

tabulation: Freq. Numeric Label
            23,532      0 No
            312         1 Yes

```

```

-----
cog_dx_code1      identified cognition-related ICD-9 / ICD-10 diagnosis code from diag1
-----

```

```

type: string (str5)

```

```

unique values: 3 missing "": 23,825/23,844

```

```

tabulation: Freq. Value
            23,825 ""
            11 "29420"
            1  "29421"
            7  "3310-"

```

```

-----
cog_dx_code2      identified cognition-related ICD-9 / ICD-10 diagnosis code from diag2
-----

```

type: string (str5)

unique values: 7

missing "": 23,813/23,844

| tabulation: | Freq. | Value |
|-------------|--------|---------|
| | 23,813 | " |
| | 1 | "2903-" |
| | 1 | "29410" |
| | 2 | "29411" |
| | 21 | "29420" |
| | 1 | "29421" |
| | 3 | "3310-" |
| | 2 | "33182" |

cog_dx_code3

identified cognition-related ICD-9 / ICD-10 diagnosis code from diag3

type: string (str5)

unique values: 3

missing "": 23,829/23,844

| tabulation: | Freq. | Value |
|-------------|--------|---------|
| | 23,829 | " |
| | 11 | "29420" |
| | 1 | "29421" |
| | 3 | "3310-" |

cog_dx_code4

identified cognition-related ICD-9 / ICD-10 diagnosis code from diag4

type: string (str5)

unique values: 7

missing "": 23,820/23,844

| tabulation: | Freq. | Value |
|-------------|--------|---------|
| | 23,820 | " |
| | 1 | "2900-" |
| | 1 | "29040" |

```

1 "29410"
14 "29420"
1 "29421"
5 "3310-"
1 "33182"

```

```

-----
cog_dx_code5                                identified cognition-related ICD-9 / ICD-10 diagnosis code from diag5
-----

```

```

type: string (str5)

unique values: 4                                missing "": 23,833/23,844

```

```

tabulation: Freq. Value
23,833 ""
1 "29040"
1 "29410"
8 "29420"
1 "3310-"

```

```

-----
settype                                         Setting type
-----

```

```

type: numeric (byte)
label: SETTYPEF

range: [3,3]                                units: 1
unique values: 1                            missing .: 0/23,844

```

```

tabulation: Freq. Numeric Label
23,844      3 NHAMCS - ED

```

```

-----
cstratm                                         Clustered CSTRATM -- masked
-----

```

```

type: numeric (long)

```

range: [20114200,40400000] units: 100
unique values: 8 missing .: 0/23,844

tabulation: Freq. Value
2,988 20114201
2,750 20214201
2,113 20314201
3,183 20414201
1,574 40100000
3,096 40200000
6,241 40300000
1,899 40400000

cpsum Clustered CPSUM -- masked

type: numeric (long)

range: [1,100261] units: 1
unique values: 156 missing .: 0/23,844

mean: 46348.3
std. dev: 49917.2

percentiles: 10% 25% 50% 75% 90%
9 21 39 100109 100230

patwt Patient visit weight

type: numeric (long)

range: [22,72062] units: 1
unique values: 356 missing .: 0/23,844

mean: 5931.07
std. dev: 8242.15

| | | | | | |
|--------------|------|------|------|------|-------|
| percentiles: | 10% | 25% | 50% | 75% | 90% |
| | 1167 | 2275 | 3739 | 6502 | 11236 |

| | |
|------|-----------|
| edwt | ED weight |
|------|-----------|

type: numeric (byte)

range: [.,.] units: .

unique values: 0 missing .: 23,844/23,844

tabulation: Freq. Value

23,844 .