```
*************************************************************************
April, 2015

 THIS IS AN EXAMPLE OF A PROGRAM THAT CAN BE USED TO READ THE
 PUBLIC-USE LINKED MORTALITY ASCII FILES FROM A STORED LOCATION
 INTO TEMPORARY SAS WORK DATASET AND PRODUCE BASIC FREQUENCIES.

 NOTE: THE FORMAT DEFINITIONS GIVEN BELOW WILL RESULT IN
       PROCEDURE OUTPUT SHOWING VALUES THAT HAVE BEEN
       GROUPED AS THEY ARE SHOWN IN THE FILE LAYOUT
       DOCUMENTATION.

 NOTE: IN ORDER TO READ THE PUBLIC-USE LINKED MORTALITY ASCII FILE
       INTO A PERMANENT SAS DATASET, PLEASE CONSULT SAS DOCUMENTATION
       AND MODIFY THE PROGRAM ACCORDINGLY.

 NOTE: AS SOME VARIABLES ARE SURVEY SPECIFIC, WE HAVE HIGHLIGHTED
       SECTIONS OF CODE WITH "!!!" TO IDENTIFY WHERE THE USER
       SHOULD MODIFY THE PROGRAM BASED ON THE SURVEY.

Public-use Linked Mortality-Follow-up through December 31, 2011

*************************************************************************

TO DOWNLOAD AND SAVE THE PUBLIC-USE LINKED MORTALITY FILES TO YOUR
HARD DRIVE, FOLLOW THESE STEPS:

*STEP 1: DESIGNATE A FOLDER ON YOUR HARD DRIVE TO DOWNLOAD THE PUBLIC-USE LINKED
         MORTALITY FILE. IN THIS EXAMPLE, THE DATA WILL
         BE SAVED TO: 'C:\PUBLIC USE DATA'

*STEP 2: TO DOWLOAD THE PUBLIC-USE LINKED MORTALITY FILE, GO TO THE WEB SITE:
         ftp://ftp.cdc.gov/pub/Health_Statistics/NCHS/datalinkage/linked_mortality/.

         RIGHT CLICK ON THE DESIRED SURVEY LINK AND SELECT "Save Target as...". A "Save as"
         SCREEN WILL APPEAR AND YOU WILL NEED TO SELECT AND INPUT A LOCATION WHERE TO SAVE
         THE DATA FILE ON YOUR HARD DRIVE.

         IT IS ALSO IMPORTANT THAT THE BOX "Save Type as" reads ".dat Document".
         THIS WILL ENSURE THAT THE DATA FILE IS SAVED TO YOUR HARD DRIVE IN THE
         CORRECT FORMAT.

         IN THIS EXAMPLE, WE SAVE THE DATA FILE IN THE FOLDER 'C:\PUBLIC USE DATA\'
         AND SAVE THE DATA FILE AS "SURVEYNAME_mort_public_use_2011.dat".
```

```
********************************************************************;

* DEFINE VARIABLE VALUES FOR REPORTS;

PROC FORMAT;

  VALUE ELIGFMT
    1 = "Eligible"
    2 = "Under age 18"
    3 = "Ineligible" ;

  VALUE MORTFMT
    0 = "Assumed alive"
    1 = "Assumed deceased"
    . = "Ineligible or under age 18";

  VALUE MRSRCFMT
    1 = "Yes";

 VALUE CAUSEFMT
    0 = "No"
    1 = "Yes"
    . = "Ineligible, under age 18 or assumed alive";

  VALUE FLAGFMT
    0 = "No"
    1 = "Yes"
    . = "Ineligible, under age 18, assumed alive or no cause data";

  VALUE $UCODFMT
        "001" = "Diseases of heart (I00-I09, I11, I13, I20-I51)"
        "002" = "Malignant neoplasms (C00-C97)"
        "003" = "Chronic lower respiratory diseases (J40-J47)"
        "004" = "Accidents (unintentional injuries) (V01-X59, Y85-Y86)"
        "005" = "Cerebrovascular diseases (I60-I69)"
        "006" = "Alzheimer's disease (G30)"
        "007" = "Diabetes mellitus (E10-E14)"
        "008" = "Influenza and pneumonia (J09-J18)"
        "009" = "Nephritis, nephrotic syndrome and nephrosis (N00-N07, N17-N19, N25-N27)"
        "010" = "All other causes (residual)"
        "   " = "Ineligible, under age 18, assumed alive or no cause data" ;

RUN ;

*CREATE A TEMPORARY SAS WORK DATASET;
```

```
*This applies to all surveys but users need to select the appropriate public-use ID for the

*Select PUBLICID for NHIS or LSOAII;
*Select SEQN for NHANES;

DATA NHANES;

INFILE "NHANES_III_MORT_2011_PUBLIC.dat"  LRECL = 61 PAD MISSOVER ;

* INPUT VARIABLES;
INPUT
    /*!!!THE PUBLIC-USE ID IS SURVEY SPECIFIC
          SELECT THE PUBLIC-USE ID THAT CORRESPONDS
          TO THE SURVEY BEING READ IN!!!*/

    SEQN            1-5      /* SEQN IS THE PUBLIC-USE ID FOR NHANES */

    ELIGSTAT        15
    MORTSTAT        16
    CAUSEAVL        17
    UCOD_LEADING    $18-20
    DIABETES        21
    HYPERTEN        22


    PERMTH_INT      44-46    /*NHANES ONLY*/
    PERMTH_EXM      47-49    /*NHANES ONLY*/

    MORTSRCE_NDI    50
    MORTSRCE_CMS    51
    MORTSRCE_SSA    52
    MORTSRCE_DC     53
    MORTSRCE_DCL    54
      ;


* DEFINE VARIABLE LABELS;
LABEL
    /*!!!SELECT PUBLICID OR SEQN!!!*/

    ELIGSTAT        =    'Eligibility Status for Mortality Follow-up'
    MORTSTAT        =    'Final Mortality Status'
    CAUSEAVL        =    'Cause of Death Data Available'
    UCOD_LEADING    =    'Underlying Cause of Death Recode from UCOD_113 Leading Causes'
    DIABETES        =    'Diabetes flag from multiple cause of death'
```

```
    HYPERTEN        =    'Hypertension flag from multiple cause of death'

    /*!!!THE FOLLOWING LABELS ARE SURVEY SPECIFIC
        KEEP ONLY THOSE THAT CORRESPOND TO THE SURVEY BEING
        READ IN!!!*/


    /*NHANES ONLY*/
    SEQN            =    'NHANES Respondent Sequence Number'
    PERMTH_INT      =    'Person Months of Follow-up from Interview Date'
    PERMTH_EXM      =    'Person Months of Follow-up from MEC/Exam Date'

    MORTSRCE_NDI    =    'Mortality Source: NDI Match'
    MORTSRCE_CMS    =    'Mortality Source: CMS Information'
    MORTSRCE_SSA    =    'Mortality Source: SSA Information'
    MORTSRCE_DC     =    'Mortality Source: Death Certificate Match'
    MORTSRCE_DCL    =    'Mortality Source: Data Collection'
    ;

  * ASSOCIATE VARIABLES WITH FORMAT VALUES;
FORMAT
    ELIGSTAT        ELIGFMT.
    MORTSTAT        MORTFMT.
    UCOD_LEADING    UCODFMT.
    MORTSRCE_NDI    MRSRCFMT.
    MORTSRCE_CMS    MRSRCFMT.
    MORTSRCE_SSA    MRSRCFMT.
    MORTSRCE_DC     MRSRCFMT.
    MORTSRCE_DCL    MRSRCFMT.

    CAUSEAVL        CAUSEFMT.
    DIABETES        FLAGFMT.
    HYPERTEN        FLAGFMT.
        ;
RUN;


OPTIONS PAGENO=1;

*RUN PROC CONTENTS;
PROC CONTENTS DATA=NHANES;
RUN;

*RUN FREQUENCIES;
PROC FREQ DATA=NHANES;
TABLES
```

```
    ELIGSTAT
    MORTSTAT
    UCOD_LEADING
    CAUSEAVL
    DIABETES
    HYPERTEN
    MORTSRCE_NDI
    MORTSRCE_CMS
    MORTSRCE_SSA
    MORTSRCE_DC
    MORTSRCE_DCL

/*!!!THE FOLLOWING VARIABLES ARE SURVEY SPECIFIC
        KEEP ONLY THOSE THAT CORRESPOND TO THE SURVEY BEING
        READ IN!!!*/

    PERMTH_INT  /*NHANES ONLY*/
    PERMTH_EXM  /*NHANES ONLY*/

    / MISSING;
TITLE1 "NHANES PUBLIC-USE LINKED MORTALITY FILE";
TITLE2 "UNWEIGHTED FREQUENCIES";

* USER NOTE: TO SEE UNFORMATTED VALUES IN THE FREQUENCY PROCEDURE,
  UNCOMMENT THE STATEMENT "FORMAT _ALL_" BELOW ;
* FORMAT _ALL_;
RUN;
```

<!DOCTYPE html>

SAS Output

NHANES PUBLIC-USE LINKED MORTALITY FILE

UNWEIGHTED FREQUENCIES

The CONTENTS Procedure

Data Set Name

WORK.NHANES

Observations

33994

Member Type

DATA

Variables

14

Engine

V9

Indexes

0

Created

03/30/2018 22:12:01

Observation Length

112

Last Modified

03/30/2018 22:12:01

Deleted Observations

0

Protection

Compressed

NO

Data Set Type

Sorted

NO

Label

Data Representation

SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64

Encoding

utf-8 Unicode (UTF-8)

Engine/Host Dependent Information

Data Set Page Size

65536

Number of Data Set Pages

59

First Data Page

1

Max Obs per Page

584

Obs in First Data Page

546

Number of Data Set Repairs

0

Filename

/tmp/SAS_workE58F000009AA_localhost.localdomain/nhanes.sas7bdat

Release Created

9.0401M5

Host Created

Linux

Inode Number

670887

Access Permission

rw-r--r--

Owner Name

sasdemo

File Size

4MB

File Size (bytes)

3932160

Alphabetic List of Variables and Attributes

\#

Variable

Type

Len

Format

Label

4

CAUSEAVL

Num

8

CAUSEFMT.

Cause of Death Data Available

6

DIABETES

Num

8

FLAGFMT.

Diabetes flag from multiple cause of death

2

ELIGSTAT

Num

8

ELIGFMT.

Eligibility Status for Mortality Follow-up

7

HYPERTEN

Num

8

FLAGFMT.

Hypertension flag from multiple cause of death

11

MORTSRCE_CMS

Num

8

MRSRCFMT.

Mortality Source: CMS Information

13

MORTSRCE_DC

Num

8

MRSRCFMT.

Mortality Source: Death Certificate Match

14

MORTSRCE_DCL

Num

8

MRSRCFMT.

Mortality Source: Data Collection

10

MORTSRCE_NDI

Num

8

MRSRCFMT.

Mortality Source: NDI Match

12

MORTSRCE_SSA

Num

8

MRSRCFMT.

Mortality Source: SSA Information

3

MORTSTAT

Num

8

MORTFMT.

Final Mortality Status

9

PERMTH_EXM

Num

8

Person Months of Follow-up from MEC/Exam Date

8

PERMTH_INT

Num

8

Person Months of Follow-up from Interview Date

1

SEQN

Num

8

NHANES Respondent Sequence Number

5

UCOD_LEADING

Char

3

$UCODFMT.

Underlying Cause of Death Recode from UCOD_113 Leading Causes

NHANES PUBLIC-USE LINKED MORTALITY FILE

UNWEIGHTED FREQUENCIES

The FREQ Procedure

Eligibility Status for Mortality Follow-up

ELIGSTAT	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Eligible	19592	57.63	19592	57.63
Under age 18	14377	42.29	33969	99.93
Ineligible	25	0.07	33994	100.00

Final Mortality Status

MORTSTAT	Frequency	Percent	Cumulative Frequency	Cumulative Percent

Ineligible or under age 18

14402

42.37

14402

42.37

Assumed alive

12931

38.04

27333

80.41

Assumed deceased

6661

19.59

33994

100.00

Underlying Cause of Death Recode from UCOD_113 Leading Causes

UCOD_LEADING

Frequency

Percent

CumulativeFrequency

CumulativePercent

Ineligible, under age 18, assumed alive or no cause data

27403

80.61

27403

80.61

Diseases of heart (I00-I09, I11, I13, I20-I51)

1711

5.03

29114

85.64

Malignant neoplasms (C00-C97)

1388

4.08

30502

89.73

Chronic lower respiratory diseases (J40-J47)

287

0.84

30789

90.57

Accidents (unintentional injuries) (V01-X59, Y85-Y86)

170

0.50

30959

91.07

Cerebrovascular diseases (I60-I69)

492

1.45

31451

92.52

Alzheimer's disease (G30)

141

0.41

31592

92.93

Diabetes mellitus (E10-E14)

234

0.69

31826

93.62

Influenza and pneumonia (J09-J18)

213

0.63

32039

94.25

Nephritis, nephrotic syndrome and nephrosis (N00-N07, N17-N19, N25-N27)

101

0.30

32140

94.55

All other causes (residual)

1854

5.45

33994

100.00

Cause of Death Data Available

CAUSEAVL

Frequency

Percent

CumulativeFrequency

CumulativePercent

Ineligible, under age 18 or assumed alive

27333

80.41

27333

80.41

No

70

0.21

27403

80.61

Yes

6591

19.39

33994

100.00

Diabetes flag from multiple cause of death

DIABETES

Frequency

Percent

CumulativeFrequency

CumulativePercent

Ineligible, under age 18, assumed alive or no cause data

27403

80.61

27403

80.61

No

5810

17.09

33213

97.70

Yes

781

2.30

33994

100.00

Hypertension flag from multiple cause of death

HYPERTEN

Frequency

Percent

CumulativeFrequency

CumulativePercent

	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Ineligible, under age 18, assumed alive or no cause data	27403	80.61	27403	80.61
No	5793	17.04	33196	97.65
Yes	798	2.35	33994	100.00

Mortality Source: NDI Match

MORTSRCE_NDI

	Frequency	Percent	Cumulative Frequency	Cumulative Percent
.	27398	80.60	27398	80.60
Yes	6596	19.40	33994	100.00

Mortality Source: CMS Information

MORTSRCE_CMS	Frequency	Percent	CumulativeFrequency	CumulativePercent
.	30892	90.87	30892	90.87
Yes	3102	9.13	33994	100.00

Mortality Source: SSA Information

MORTSRCE_SSA	Frequency	Percent	CumulativeFrequency	CumulativePercent
.	28497	83.83	28497	83.83
Yes	5497	16.17	33994	

100.00

Mortality Source: Death Certificate Match

MORTSRCE_DC

Frequency

Percent

CumulativeFrequency

CumulativePercent

.

31502

92.67

31502

92.67

Yes

2492

7.33

33994

100.00

Mortality Source: Data Collection

MORTSRCE_DCL

Frequency

Percent

CumulativeFrequency

CumulativePercent

.

33994

100.00

33994

100.00

Person Months of Follow-up from Interview Date

PERMTH_INT

Frequency

Percent

CumulativeFrequency

CumulativePercent

.

14402

42.37

14402

42.37

0

10

0.03

14412

42.40

1

20

0.06

14432

42.45

2

27

0.08

14459

42.53

3

23

0.07

14482

42.60

4

24

0.07

14506

42.67

5

24

0.07

14530

42.74

6

32

0.09

14562

42.84

7

34

0.10

14596

42.94

8

22

0.06

14618

43.00

9

22

0.06

14640

43.07

10

30

0.09

14670

43.15

11

28

0.08

14698

43.24

12

31

0.09

14729

43.33

13

30

0.09

14759

43.42

14

30

0.09

14789

43.50

15

31

0.09

14820

43.60

16

39

0.11

14859

43.71

17

36

0.11

14895

43.82

18

33

0.10

14928

43.91

19

24

0.07

14952

43.98

20

22

0.06

14974

44.05

21

31

0.09

15005

44.14

22

27

0.08

15032

44.22

23

31

0.09

15063

44.31

24

23

0.07

15086

44.38

25

20

0.06

15106

44.44

26

42

0.12

15148

44.56

27

27

0.08

15175

44.64

28

31

0.09

15206

44.73

29

27

0.08

15233

44.81

30

23

0.07

15256

44.88

31

30

0.09

15286

44.97

32

32

0.09

15318

45.06

33

34

0.10

15352

45.16

34

28

0.08

15380

45.24

35

33

0.10

15413

45.34

36

32

0.09

15445

45.43

37

37

0.11

15482

45.54

38

26

0.08

15508

45.62

39

27

0.08

15535

45.70

40

28

0.08

15563

45.78

41

29

0.09

15592

45.87

42

37

0.11

15629

45.98

43

29

0.09

15658

46.06

44

33

0.10

15691

46.16

45

30

0.09

15721

46.25

46

32

0.09

15753

46.34

47

33

0.10

15786

46.44

48

39

0.11

15825

46.55

49

27

0.08

15852

46.63

50

29

0.09

15881

46.72

51

32

0.09

15913

46.81

52

32

0.09

15945

46.91

53

26

0.08

15971

46.98

54

37

0.11

16008

47.09

55

36

0.11

16044

47.20

56

25

0.07

16069

47.27

57

40

0.12

16109

47.39

58

32

0.09

16141

47.48

59

23

0.07

16164

47.55

60

33

0.10

16197

47.65

61

37

0.11

16234

47.76

62

25

0.07

16259

47.83

63

47

0.14

16306

47.97

64

27

0.08

16333

48.05

65

28

0.08

16361

48.13

66

33

0.10

16394

48.23

67

21

0.06

16415

48.29

68

24

0.07

16439

48.36

69

29

0.09

16468

48.44

70

39

0.11

16507

48.56

71

21

0.06

16528

48.62

72

23

0.07

16551

48.69

73

18

0.05

16569

48.74

74

22

0.06

16591

48.81

75

38

0.11

16629

48.92

76

41

0.12

16670

49.04

77

34

0.10

16704

49.14

78

28

0.08

16732

49.22

79

31

0.09

16763

49.31

80

30

0.09

16793

49.40

81

42

0.12

16835

49.52

82

24

0.07

16859

49.59

83

39

0.11

16898

49.71

84

38

0.11

16936

49.82

85

32

0.09

16968

49.91

86

23

0.07

16991

49.98

87

34

0.10

17025

50.08

88

37

0.11

17062

50.19

89

29

0.09

17091

50.28

90

24

0.07

17115

50.35

91

39

0.11

17154

50.46

92

24

0.07

17178

50.53

93

32

0.09

17210

50.63

94

27

0.08

17237

50.71

95

23

0.07

17260

50.77

96

26

0.08

17286

50.85

97

28

0.08

17314

50.93

98

33

0.10

17347

51.03

99

30

0.09

17377

51.12

100

27

0.08

17404

51.20

101

34

0.10

17438

51.30

102

35

0.10

17473

51.40

103

33

0.10

17506

51.50

104

36

0.11

17542

51.60

105

33

0.10

17575

51.70

106

21

0.06

17596

51.76

107

27

0.08

17623

51.84

108

25

0.07

17648

51.92

109

36

0.11

17684

52.02

110

35

0.10

17719

52.12

111

35

0.10

17754

52.23

112

35

0.10

17789

52.33

113

28

0.08

17817

52.41

114

36

0.11

17853

52.52

115

31

0.09

17884

52.61

116

23

0.07

17907

52.68

117

28

0.08

17935

52.76

118

26

0.08

17961

52.84

119

24

0.07

17985

52.91

120

33

0.10

18018

53.00

121

32

0.09

18050

53.10

122

30

0.09

18080

53.19

123

25

0.07

18105

53.26

124

26

0.08

18131

53.34

125

29

0.09

18160

53.42

126

34

0.10

18194

53.52

127

40

0.12

18234

53.64

128

28

0.08

18262

53.72

129

33

0.10

18295

53.82

130

37

0.11

18332

53.93

131

30

0.09

18362

54.02

132

31

0.09

18393

54.11

133

33

0.10

18426

54.20

134

26

0.08

18452

54.28

135

28

0.08

18480

54.36

136

29

0.09

18509

54.45

137

35

0.10

18544

54.55

138

24

0.07

18568

54.62

139

29

0.09

18597

54.71

140

20

0.06

18617

54.77

141

30

0.09

18647

54.85

142

36

0.11

18683

54.96

143

27

0.08

18710

55.04

144

35

0.10

18745

55.14

145

26

0.08

18771

55.22

146

29

0.09

18800

55.30

147

26

0.08

18826

55.38

148

31

0.09

18857

55.47

149

36

0.11

18893

55.58

150

29

0.09

18922

55.66

151

22

0.06

18944

55.73

152

31

0.09

18975

55.82

153

21

0.06

18996

55.88

154

28

0.08

19024

55.96

155

28

0.08

19052

56.05

156

27

0.08

19079

56.12

157

33

0.10

19112

56.22

158

23

0.07

19135

56.29

159

38

0.11

19173

56.40

160

27

0.08

19200

56.48

161

22

0.06

19222

56.55

162

19

0.06

19241

56.60

163

25

0.07

19266

56.67

164

24

0.07

19290

56.75

165

25

0.07

19315

56.82

166

24

0.07

19339

56.89

167

23

0.07

19362

56.96

168

26

0.08

19388

57.03

169

30

0.09

19418

57.12

170

22

0.06

19440

57.19

171

22

0.06

19462

57.25

172

23

0.07

19485

57.32

173

25

0.07

19510

57.39

174

35

0.10

19545

57.50

175

28

0.08

19573

57.58

176

38

0.11

19611

57.69

177

29

0.09

19640

57.77

178

35

0.10

19675

57.88

179

23

0.07

19698

57.95

180

19

0.06

19717

58.00

181

33

0.10

19750

58.10

182

25

0.07

19775

58.17

183

29

0.09

19804

58.26

184

20

0.06

19824

58.32

185

21

0.06

19845

58.38

186

18

0.05

19863

58.43

187

32

0.09

19895

58.53

188

30

0.09

19925

58.61

189

21

0.06

19946

58.68

190

32

0.09

19978

58.77

191

22

0.06

20000

58.83

192

26

0.08

20026

58.91

193

19

0.06

20045

58.97

194

23

0.07

20068

59.03

195

23

0.07

20091

59.10

196

25

0.07

20116

59.18

197

20

0.06

20136

59.23

198

19

0.06

20155

59.29

199

11

0.03

20166

59.32

200

22

0.06

20188

59.39

201

30

0.09

20218

59.48

202

28

0.08

20246

59.56

203

16

0.05

20262

59.60

204

16

0.05

20278

59.65

205

23

0.07

20301

59.72

206

20

0.06

20321

59.78

207

124

0.36

20445

60.14

208

164

0.48

20609

60.63

209

326

0.96

20935

61.58

210

114

0.34

21049

61.92

211

274

0.81

21323

62.73

212

220

0.65

21543

63.37

213

273

0.80

21816

64.18

214

207

0.61

22023

64.78

215

168

0.49

22191

65.28

216

145

0.43

22336

65.71

217

327

0.96

22663

66.67

218

221

0.65

22884

67.32

219

162

0.48

23046

67.79

220

250

0.74

23296

68.53

221

133

0.39

23429

68.92

222

179

0.53

23608

69.45

223

122

0.36

23730

69.81

224

212

0.62

23942

70.43

225

212

0.62

24154

71.05

226

219

0.64

24373

71.70

227

208

0.61

24581

72.31

228

197

0.58

24778

72.89

229

177

0.52

24955

73.41

230

291

0.86

25246

74.27

231

179

0.53

25425

74.79

232

177

0.52

25602

75.31

233

215

0.63

25817

75.95

234

101

0.30

25918

76.24

235

182

0.54

26100

76.78

236

181

0.53

26281

77.31

237

347

1.02

26628

78.33

238

179

0.53

26807

78.86

239

273

0.80

27080

79.66

240

103

0.30

27183

79.96

241

181

0.53

27364

80.50

242

235

0.69

27599

81.19

243

187

0.55

27786

81.74

244

182

0.54

27968

82.27

245

196

0.58

28164

82.85

246

117

0.34

28281

83.19

247

202

0.59

28483

83.79

248

254

0.75

28737

84.54

249

437

1.29

29174

85.82

250

149

0.44

29323

86.26

251

7

0.02

29330

86.28

252

357

1.05

29687

87.33

253

7

0.02

29694

87.35

254

456

1.34

30150

88.69

255

6

0.02

30156

88.71

256

143

0.42

30299

89.13

257

188

0.55

30487

89.68

258

93

0.27

30580

89.96

259

266

0.78

30846

90.74

260

214

0.63

31060

91.37

261

279

0.82

31339

92.19

262

193

0.57

31532

92.76

263

107

0.31

31639

93.07

264

223

0.66

31862

93.73

265

188

0.55

32050

94.28

266

218

0.64

32268

94.92

267

190

0.56

32458

95.48

268

152

0.45

32610

95.93

269

89

0.26

32699

96.19

270

199

0.59

32898

96.78

271

197

0.58

33095

97.36

272

75

0.22

33170

97.58

273

249

0.73

33419

98.31

274

167

0.49

33586

98.80

275

144

0.42

33730

99.22

276

207

0.61

33937

99.83

277

57

0.17

33994

100.00

Person Months of Follow-up from MEC/Exam Date

PERMTH_EXM

Frequency

Percent

CumulativeFrequency

CumulativePercent

.

16256

47.82

16256

47.82

0

17

0.05

16273

47.87

1

16

0.05

16289

47.92

2

20

0.06

16309

47.98

3

13

0.04

16322

48.01

4

24

0.07

16346

48.08

5

26

0.08

16372

48.16

6

20

0.06

16392

48.22

7

23

0.07

16415

48.29

8

21

0.06

16436

48.35

9

18

0.05

16454

48.40

10

25

0.07

16479

48.48

11

26

0.08

16505

48.55

12

25

0.07

16530

48.63

13

22

0.06

16552

48.69

14

30

0.09

16582

48.78

15

33

0.10

16615

48.88

16

26

0.08

16641

48.95

17

28

0.08

16669

49.04

18

23

0.07

16692

49.10

19

19

0.06

16711

49.16

20

29

0.09

16740

49.24

21

18

0.05

16758

49.30

22

28

0.08

16786

49.38

23

22

0.06

16808

49.44

24

23

0.07

16831

49.51

25

29

0.09

16860

49.60

26

21

0.06

16881

49.66

27

30

0.09

16911

49.75

28

24

0.07

16935

49.82

29

24

0.07

16959

49.89

30

23

0.07

16982

49.96

31

21

0.06

17003

50.02

32

29

0.09

17032

50.10

33

29

0.09

17061

50.19

34

25

0.07

17086

50.26

35

27

0.08

17113

50.34

36

33

0.10

17146

50.44

37

22

0.06

17168

50.50

38

25

0.07

17193

50.58

39

25

0.07

17218

50.65

40

28

0.08

17246

50.73

41

24

0.07

17270

50.80

42

32

0.09

17302

50.90

43

27

0.08

17329

50.98

44

30

0.09

17359

51.06

45

22

0.06

17381

51.13

46

34

0.10

17415

51.23

47

31

0.09

17446

51.32

48

25

0.07

17471

51.39

49

19

0.06

17490

51.45

50

28

0.08

17518

51.53

51

21

0.06

17539

51.59

52

32

0.09

17571

51.69

53

26

0.08

17597

51.77

54

33

0.10

17630

51.86

55

15

0.04

17645

51.91

56

34

0.10

17679

52.01

57

22

0.06

17701

52.07

58

21

0.06

17722

52.13

59

29

0.09

17751

52.22

60

28

0.08

17779

52.30

61

21

0.06

17800

52.36

62

35

0.10

17835

52.47

63

25

0.07

17860

52.54

64

25

0.07

17885

52.61

65

27

0.08

17912

52.69

66

25

0.07

17937

52.77

67

17

0.05

17954

52.82

68

21

0.06

17975

52.88

69

29

0.09

18004

52.96

70

19

0.06

18023

53.02

71

22

0.06

18045

53.08

72

17

0.05

18062

53.13

73

20

0.06

18082

53.19

74

34

0.10

18116

53.29

75

27

0.08

18143

53.37

76

35

0.10

18178

53.47

77

27

0.08

18205

53.55

78

26

0.08

18231

53.63

79

18

0.05

18249

53.68

80

39

0.11

18288

53.80

81

25

0.07

18313

53.87

82

35

0.10

18348

53.97

83

34

0.10

18382

54.07

84

32

0.09

18414

54.17

85

19

0.06

18433

54.22

86

33

0.10

18466

54.32

87

26

0.08

18492

54.40

88

30

0.09

18522

54.49

89

28

0.08

18550

54.57

90

21

0.06

18571

54.63

91

25

0.07

18596

54.70

92

30

0.09

18626

54.79

93

25

0.07

18651

54.87

94

17

0.05

18668

54.92

95

27

0.08

18695

54.99

96

19

0.06

18714

55.05

97

39

0.11

18753

55.17

98

25

0.07

18778

55.24

99

19

0.06

18797

55.30

100

24

0.07

18821

55.37

101

32

0.09

18853

55.46

102

28

0.08

18881

55.54

103

27

0.08

18908

55.62

104

34

0.10

18942

55.72

105

18

0.05

18960

55.77

106

28

0.08

18988

55.86

107

24

0.07

19012

55.93

108

33

0.10

19045

56.02

109

26

0.08

19071

56.10

110

28

0.08

19099

56.18

111

31

0.09

19130

56.27

112

25

0.07

19155

56.35

113

28

0.08

19183

56.43

114

30

0.09

19213

56.52

115

23

0.07

19236

56.59

116

22

0.06

19258

56.65

117

26

0.08

19284

56.73

118

17

0.05

19301

56.78

119

31

0.09

19332

56.87

120

25

0.07

19357

56.94

121

25

0.07

19382

57.02

122

25

0.07

19407

57.09

123

18

0.05

19425

57.14

124

30

0.09

19455

57.23

125

31

0.09

19486

57.32

126

29

0.09

19515

57.41

127

22

0.06

19537

57.47

128

30

0.09

19567

57.56

129

26

0.08

19593

57.64

130

29

0.09

19622

57.72

131

35

0.10

19657

57.82

132

29

0.09

19686

57.91

133

12

0.04

19698

57.95

134

30

0.09

19728

58.03

135

26

0.08

19754

58.11

136

24

0.07

19778

58.18

137

25

0.07

19803

58.25

138

18

0.05

19821

58.31

139

26

0.08

19847

58.38

140

24

0.07

19871

58.45

141

28

0.08

19899

58.54

142

34

0.10

19933

58.64

143

23

0.07

19956

58.70

144

30

0.09

19986

58.79

145

17

0.05

20003

58.84

146

33

0.10

20036

58.94

147

24

0.07

20060

59.01

148

32

0.09

20092

59.10

149

26

0.08

20118

59.18

150

21

0.06

20139

59.24

151

20

0.06

20159

59.30

152

22

0.06

20181

59.37

153

25

0.07

20206

59.44

154

19

0.06

20225

59.50

155

32

0.09

20257

59.59

156

27

0.08

20284

59.67

157

23

0.07

20307

59.74

158

26

0.08

20333

59.81

159

31

0.09

20364

59.90

160

23

0.07

20387

59.97

161

19

0.06

20406

60.03

162

23

0.07

20429

60.10

163

22

0.06

20451

60.16

164

21

0.06

20472

60.22

165

24

0.07

20496

60.29

166

21

0.06

20517

60.35

167

24

0.07

20541

60.43

168

19

0.06

20560

60.48

169

20

0.06

20580

60.54

170

18

0.05

20598

60.59

171

26

0.08

20624

60.67

172

16

0.05

20640

60.72

173

21

0.06

20661

60.78

174

33

0.10

20694

60.88

175

32

0.09

20726

60.97

176

28

0.08

20754

61.05

177

25

0.07

20779

61.13

178

23

0.07

20802

61.19

179

27

0.08

20829

61.27

180

21

0.06

20850

61.33

181

24

0.07

20874

61.40

182

22

0.06

20896

61.47

183

21

0.06

20917

61.53

184

16

0.05

20933

61.58

185

22

0.06

20955

61.64

186

20

0.06

20975

61.70

187

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0.09

21005

61.79

188

25

0.07

21030

61.86

189

20

0.06

21050

61.92

190

22

0.06

21072

61.99

191

25

0.07

21097

62.06

192

18

0.05

21115

62.11

193

19

0.06

21134

62.17

194

22

0.06

21156

62.23

195

22

0.06

21178

62.30

196

20

0.06

21198

62.36

197

15

0.04

21213

62.40

198

10

0.03

21223

62.43

199

15

0.04

21238

62.48

200

34

0.10

21272

62.58

201

19

0.06

21291

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202

21

0.06

21312

62.69

203

11

0.03

21323

62.73

204

21

0.06

21344

62.79

205

20

0.06

21364

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206

71

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21435

63.06

207

129

0.38

21564

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208

311

0.91

21875

64.35

209

245

0.72

22120

65.07

210

146

0.43

22266

65.50

211

208

0.61

22474

66.11

212

219

0.64

22693

66.76

213

194

0.57

22887

67.33

214

191

0.56

23078

67.89

215

229

0.67

23307

68.56

216

205

0.60

23512

69.17

217

169

0.50

23681

69.66

218

190

0.56

23871

70.22

219

219

0.64

24090

70.87

220

205

0.60

24295

71.47

221

107

0.31

24402

71.78

222

128

0.38

24530

72.16

223

171

0.50

24701

72.66

224

178

0.52

24879

73.19

225

246

0.72

25125

73.91

226

199

0.59

25324

74.50

227

253

0.74

25577

75.24

228

98

0.29

25675

75.53

229

242

0.71

25917

76.24

230

158

0.46

26075

76.70

231

175

0.51

26250

77.22

232

199

0.59

26449

77.80

233

146

0.43

26595

78.23

234

135

0.40

26730

78.63

235

175

0.51

26905

79.15

236

257

0.76

27162

79.90

237

220

0.65

27382

80.55

238

209

0.61

27591

81.16

239

195

0.57

27786

81.74

240

126

0.37

27912

82.11

241

192

0.56

28104

82.67

242

150

0.44

28254

83.11

243

179

0.53

28433

83.64

244

212

0.62

28645

84.26

245

100

0.29

28745

84.56

246

179

0.53

28924

85.09

247

199

0.59

29123

85.67

248

243

0.71

29366

86.39

249

330

0.97

29696

87.36

250

154

0.45

29850

87.81

251

5

0.01

29855

87.82

252

351

1.03

30206

88.86

253

10

0.03

30216

88.89

254

334

0.98

30550

89.87

255

7

0.02

30557

89.89

256

187

0.55

30744

90.44

257

80

0.24

30824

90.67

258

235

0.69

31059

91.37

259

198

0.58

31257

91.95

260

143

0.42

31400

92.37

261

342

1.01

31742

93.38

262

130

0.38

31872

93.76

263

135

0.40

32007

94.15

264

161

0.47

32168

94.63

265

195

0.57

32363

95.20

266

171

0.50

32534

95.71

267

173

0.51

32707

96.21

268

84

0.25

32791

96.46

269

193

0.57

32984

97.03

270

173

0.51

33157

97.54

271

166

0.49

33323

98.03

272

171

0.50

33494

98.53

273

136

0.40

33630

98.93

274

177

0.52

33807

99.45

275

112

0.33

33919

99.78

276

75

0.22

33994

100.00

```
proc export data=NHANES
    outfile='mort.csv'
    dbms=csv
    replace;
run;
```

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">