

STA312f07 Handout 1: The Poverty Data

```
tuzo.utm.utoronto.ca:~/sta312f07% curl http://fisher.utstat.toronto.edu/~brunner/
utm312f07/code_n_data/lecture/poverty.data > poverty.data
```

```
% Total      % Received % Xferd  Average Speed   Time    Time       Time  Current
             %         0         Dload  Upload   Total   Spent    Left   Speed
100  6057  100  6057    0     0   844k      0  --:--:--  --:--:--  --:--:--    0
```

```
tuzo.utm.utoronto.ca:~/sta312f07% ls
```

```
poverty.data
```

```
tuzo.utm.utoronto.ca:~/sta312f07% less poverty.data
```

24.7	5.7	30.8	69.6	75.5	600	1	Albania
12.5	11.9	14.4	68.3	74.7	2250	1	Bulgaria
13.4	11.7	11.3	71.8	77.7	2980	1	Czechoslovakia
12	12.4	7.6	69.8	75.9	.	1	Former_E._Germany
11.6	13.4	14.8	65.4	73.8	2780	1	Hungary
14.3	10.2	16	67.2	75.7	1690	1	Poland
13.6	10.7	26.9	66.5	72.4	1640	1	Romania
14	9	20.2	68.6	74.5	.	1	Yugoslavia
17.7	10	23	64.6	74	2242	1	USSR
15.2	9.5	13.1	66.4	75.9	1880	1	Byelorussian_SSR
13.4	11.6	13	66.4	74.8	1320	1	Ukrainian_SSR
20.7	8.4	25.7	65.5	72.7	2370	2	Argentina
46.6	18	111	51	55.4	630	2	Bolivia
28.6	7.9	63	62.3	67.6	2680	2	Brazil

Skipping ...

50.5	14	106	51.3	54.7	110	6	Tanzania
45.6	14.2	83	50.3	53.7	220	6	Zaire
51.1	13.7	80	50.4	52.5	420	6	Zambia
41.7	10.3	66	56.5	60.1	640	6	Zimbabwe

```
tuzo.utm.utoronto.ca:~/sta312f07% emacs poverty1.sas
```

```
tuzo.utm.utoronto.ca:~/sta312f07% less poverty1.sas
```

```
/***** poverty1.sas *****/
```

```
options linesize=79 noovp formdlim='-';
```

```
title 'UN Poverty Data';
```

```
data misery;
```

```
infile 'poverty.data';
```

```
input birthrat deathrat infmort lifexM lifexF gnp group country $;
```

```
avelife = (lifexM + lifexF)/2;
```

```
lifediff = lifexM - lifexF;
```

```
proc means;
```

```
var birthrat -- gnp;
```

```
tuzo.utm.utoronto.ca:~/sta312f07% sas poverty1
```

```
tuzo.utm.utoronto.ca:~/sta312f07% ls
```

```
poverty1.log poverty1.lst poverty1.sas poverty.data
```

tuzo.utm.utoronto.ca:~/sta312f07% less poverty1.log

1 The SAS System

NOTE: Copyright (c) 2002-2003 by SAS Institute Inc., Cary, NC, USA.

NOTE: SAS (r) 9.1 (TS1M3)

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001.

NOTE: This session is executing on the Linux 2.6.9-42.0.2.ELsmp platform.

NOTE: SAS 9.1.3 Service Pack 3

You are running SAS 9. Some SAS 8 files will be automatically converted
by the V9 engine; others are incompatible. Please see
<http://support.sas.com/rnd/migration/planning/platform/64bit.html>

PROC MIGRATE will preserve current SAS file attributes and is
recommended for converting all your SAS libraries from any
SAS 8 release to SAS 9. For details and examples, please see
<http://support.sas.com/rnd/migration/index.html>

This message is contained in the SAS news file, and is presented upon
initialization. Edit the file "news" in the "misc/base" directory to
display site-specific news and information in the program log.
The command line option "--nonews" will prevent this display.

NOTE: SAS initialization used:

real time	0.04 seconds
cpu time	0.04 seconds

```
1      /***** poverty1.sas *****/
2      options linesize=79 noovp formdlim='-' nodate;
3      title 'UN Poverty Data';
4
5      data misery;
6          infile 'poverty.data';
7          input birthrat deathrat infmort lifexM lifexF gnp group country
7      ! $;
8          avelife = (lifexM + lifexF)/2;
9          lifediff = lifexM - lifexF;
10
```

NOTE: The infile 'poverty.data' is:

File Name=/student/cslec/brunnerj/sta312f07/poverty.data,
Owner Name=brunnerj,Group Name=lecturers,
Access Permission=rw-----,
File Size (bytes)=6057

NOTE: 97 records were read from the infile 'poverty.data'.

The minimum record length was 58.

The maximum record length was 74.

NOTE: The data set WORK.MISERY has 97 observations and 10 variables.

NOTE: DATA statement used (Total process time):
 real time 0.01 seconds
 cpu time 0.01 seconds

^L2 The SAS System

```
11      proc means;
12      var birthrat -- gnp;
NOTE: There were 97 observations read from the data set WORK.MISERY.
NOTE: The PROCEDURE MEANS printed page 1.
NOTE: PROCEDURE MEANS used (Total process time):
      real time 0.03 seconds
      cpu time 0.04 seconds
```

NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414
 NOTE: The SAS System used:
 real time 0.09 seconds
 cpu time 0.09 seconds

tuzo.utm.utoronto.ca:~/sta312f07% less poverty1.lst

UN Poverty Data

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The MEANS Procedure

Variable	N	Mean	Std Dev	Minimum	Maximum
birthrat	97	29.2298969	13.5466952	9.7000000	52.2000000
deathrat	97	10.8360825	4.6474945	2.2000000	25.0000000
infmort	97	54.9010309	45.9925843	4.5000000	181.6000000
lifexM	97	61.4855670	9.6159697	38.1000000	75.9000000
lifexF	97	66.1511340	11.0053907	41.2000000	81.8000000
gnp	91	5741.25	8093.68	80.0000000	34064.00

tuzo.utm.utoronto.ca:~/sta312f07% mail jerry@ivorytower.ca < poverty1.log
 tuzo.utm.utoronto.ca:~/sta312f07% mail jerry@ivorytower.ca < poverty1.lst