

Data Used in Examples

The data used for illustration here comes from *Response to a graduate studies program recruitment poster in animal science* (R.A. Roeder, B.J. Hawk, B. Shafii, W.J. Price, R.G. Sasser, and C.W. Hunt) published in the proceedings of the Western Section of the American Society of Animal Science, Vol 42, 1991. This paper reports the results of a graduate student recruitment poster survey in which respondents sent in tear off cards with a wide range of demographic information. The variables used here will be the field of interest (FIELD), intended degree (DEGREE), gender of respondent (GENDER) and region of North America where the card originated (REGION). All these variables are of the categorical type. A sample of the data is given below.

SAS Work Shop

Categorical Data Procedures

Handout #2

Statistical Programs

College of Agriculture

[HTTP://WWW.UIDAHO.EDU/AG/STATPROG](http://www.uidaho.edu/ag/statprog)

OBS	REGION	FIELD	DEGREE	GENDER	COUNT
1	CN	REPRO	M.S.	F	1
2	CN	REPRO	M.S.	M	1
3	CN	EMBRY	M.S.	F	1
4	CN	EMBRY	M.S.	M	1
5	CN	G & D	M.S.	M	1
6	CN	LACTA	M.S.	M	1
7	CN	RUMIN	M.S.	M	1
8	CN	BRD/GEN	M.S.	F	2
9	CN	BRD/GEN	M.S.	M	2
10	EA	REPRO	M.S.	F	11
11	EA	REPRO	M.S.	M	2
12	EA	REPRO	PH.D.	F	2
13	EA	REPRO	PH.D.	M	1
14	EA	EMBRY	M.S.	F	6
15	EA	EMBRY	M.S.	M	3
16	EA	EMBRY	PH.D.	M	1
17	EA	G & D	M.S.	F	5
18	EA	G & D	PH.D.	F	2
19	EA	G & D	PH.D.	M	1
20	EA	LACTA	M.S.	F	2
21	EA	RUMIN	M.S.	F	5
22	EA	RUMIN	M.S.	M	1
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76	RM	RUMIN	M.S.	F	2
77	RM	RUMIN	M.S.	M	1
78	RM	RUMIN	PH.D.	M	3
79	RM	BRD/GEN	M.S.	F	3
80	RM	BRD/GEN	M.S.	M	3
81	RM	BRD/GEN	PH.D.	M	1

A key to the variables follows:

REGION: Canada - CN, Eastern US - EA, Midwestern US - MW, Rocky Mountain US - RM, Pacific US - PC.

FIELD: Reproductive Physiology - REPRO, Embryo Physiology - EMBRY, Growth and Development - G & D, Ruminant Nutrition - RUMIN, Lactation Physiology - LACTA, and Breeding and Genetics - BRD/GEN.

DEGREE: Masters of Science - M.S., Doctoral - PH.D.

GENDER: Female - F, Male - M.

The data is read in as follows:

```
DATA SURVEY ;  
  INFILE 'C:\CLASS\SURVEY.DAT' ;  
  INPUT OBS REGION $ FIELD $ 34-41 DEGREE $ GENDER $ COUNT ;
```