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Stata tip 14: Using value labels in expressions

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Did you know that there is a way in Stata to specify value labels directly in an expression, rather than through the underlying numeric value? You specify the label in double quotes (""), followed by a colon (:), followed by the name of the value label. If we read in this dataset and see what it contains

```
. webuse census9
(1980 Census data by state)
. describe

Contains data from http://www.stata-press.com/data/r8/census9.dta
obs: 50 1980 Census data by state
vars: 5 16 Jul 2002 18:29
size: 1,550 (99.9% of memory free)
```

variable name	storage type	display format	value label	variable label	
state drate		%-14s %9.0g		State Death Rate	
pop	long	%9.0g %12.0gc		Population	
medage	float	%9.2f		Median age	
region	byte	%-8.0g	cenreg	Census region	

Sorted by:

we notice that variable region has values labeled by the cenreg value label. The correspondence between the underlying number and the value label is shown by

```
. label list cenreg:

1 NE
2 N Cntrl
3 South
4 West
```

[R] **regress** uses this dataset to illustrate weighted regression. To obtain the regression of drate and medage restricted to the "South" region, you could type

```
. regress drate medage [aweight=pop] if region == 3
```

But, if you do not remember the underlying region number for "South", you could also obtain this regression by typing

. regress drate medage [aweight=pop] if region == "South":cenreg (sum of wgt is $-7.4734\mathrm{e}{+07}$)

Source	SS	df		MS		Number of obs F(1, 14)	
Model Residual	1072.30989 550.163155	1 14		.30989 973682		Prob > F R-squared Adj R-squared	= 0.0001 = 0.6609
Total	1622.47305	15	108	. 16487		Root MSE	= 6.2688
drate	Coef.	Std.	Err.	t	P> t	[95% Conf.	Interval]
medage _cons	3.905819 -29.34031	.7477 22.33		5.22 -1.31	0.000 0.210	2.302139 -77.2479	5.509499 18.56727

Typing the value label instead of the underlying number makes it unlikely that you will obtain an unintended result from entering the wrong region number. An added benefit of using the value label is that, when you later review your results, you will quickly see that the regression is for the "South" region, and you will not need to remember what region was assigned number 3.

See $\left[U\right]$ 16.9 Label values for further information about specifying value labels in expressions.