
Subject: Calculating Under 5 Mortality Rate by Region

Posted by mesaunders@email.wm.edu on Mon, 09 Jul 2018 17:18:06 GMT

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I'm trying to calculate the U5 Mortality rates for Nigeria (2003, 2008, 2013) using the 1990 DHS regional boundaries (Northwest, Northeast, Southwest, Southeast).

I've gone through the process of using GIS to get the 1990 boundaries merged based on the DHS cluster data and then merging it to the birth recodes for each year, but I'm unsure if using "by(sreg90)" was the proper way to calculate the rates by region.

How can I check the rates to make sure they are representative and correct?

Do I need to use population weighting since I'm completing calculations by region and not by country?

Any suggestions would be greatly appreciated.

Stata code:

```
gen hypage=(v008-b3)
gen survivlength=.
replace survivlength=hypage
replace survivlength=b7 if b5==0
gen dead=(b5==0)
```

```
gen n_region=sreg90
```

```
/*
tab n_region
```

n_region	Freq.	Percent	Cum.
1	2,378	39.44	39.44
2	1,665	27.62	67.06
3	1,173	19.46	86.52
4	813	13.48	100.00
-----+			
Total	6,029	100.00	

```
tab sreg90
```

```
regions as |
used in |
1990 dhs |
survey |
```

Freq.	Percent	Cum.
-------	---------	------

```
-----+
```

north east	2,378	39.44	39.44
north west	1,665	27.62	67.06
south east	1,173	19.46	86.52
south west	813	13.48	100.00

-----+-----
 Total | 6,029 100.00

*/

table survivlength dead if hypage <60, int(0,1,3,6,12,24,36,48,60)failure by(sreg90)

/*

	Beg.		Cum.	Std.				
Interval	Total	Deaths	Lost	Failure	Error	[95% Conf. Int.]		

sreg90 1								
0 1	2378	128	25	0.0541	0.0047	0.0457	0.0640	
1 3	2225	29	76	0.0667	0.0051	0.0573	0.0775	
3 6	2120	33	123	0.0816	0.0057	0.0712	0.0935	
6 12	1964	59	253	0.1111	0.0067	0.0987	0.1249	
12 24	1652	95	395	0.1692	0.0085	0.1532	0.1865	
24 36	1162	26	369	0.1913	0.0093	0.1738	0.2103	
36 48	767	19	404	0.2185	0.0109	0.1980	0.2407	
48 60	344	4	340	0.2364	0.0139	0.2106	0.2649	
sreg90 2								
0 1	1665	75	17	0.0453	0.0051	0.0363	0.0564	
1 3	1573	12	67	0.0527	0.0055	0.0429	0.0646	
3 6	1494	18	98	0.0645	0.0061	0.0536	0.0776	
6 12	1378	36	164	0.0905	0.0073	0.0772	0.1059	
12 24	1178	45	286	0.1300	0.0091	0.1134	0.1490	
24 36	847	31	265	0.1678	0.0109	0.1476	0.1904	
36 48	551	9	284	0.1861	0.0123	0.1634	0.2115	
48 60	258	3	255	0.2048	0.0160	0.1754	0.2384	
sreg90 3								
0 1	1173	63	11	0.0540	0.0066	0.0424	0.0685	
1 3	1099	9	35	0.0618	0.0071	0.0494	0.0773	
3 6	1055	16	66	0.0765	0.0078	0.0625	0.0935	
6 12	973	25	127	0.1019	0.0091	0.0854	0.1213	
12 24	821	25	193	0.1329	0.0107	0.1134	0.1555	
24 36	603	7	219	0.1452	0.0115	0.1242	0.1694	
36 48	377	2	207	0.1514	0.0123	0.1291	0.1773	
48 60	168	1	167	0.1615	0.0157	0.1333	0.1950	
sreg90 4								
0 1	813	30	4	0.0370	0.0066	0.0260	0.0525	
1 3	779	3	42	0.0408	0.0070	0.0292	0.0569	
3 6	734	9	52	0.0530	0.0080	0.0394	0.0711	
6 12	673	14	91	0.0741	0.0096	0.0575	0.0954	
12 24	568	10	141	0.0927	0.0111	0.0733	0.1170	

24	36	417	5	127	0.1056	0.0123	0.0839	0.1324
36	48	285	1	149	0.1098	0.0130	0.0870	0.1381
48	60	135	1	134	0.1229	0.0182	0.0917	0.1638

*/