
Subject: Re: Survey Design Issue

Posted by [Bridgette-DHS](#) on Mon, 22 Mar 2021 20:32:57 GMT

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Following is a response from DHS Senior Sampling Specialist, Mahmoud Elkasabi:

Apparently this is due an error in the IR dataset (I assume it exists in the other ones as well; I haven't checked). One woman in cluster 476 is coded as rural in v025 although the cluster is urban. This causes the error message.

Here are two possible solutions:

1- Use the nest option after you re-construct v021 and v023:

```
IRdata$STRAT <- as.integer(factor(with(IRdata, paste(v024, v025))))
IRdata$CLUST <- as.integer(factor(with(IRdata, paste(v023))))
```

```
DHSdesign<-svydesign(id = IRdata$CLUST, strata = IRdata$STRAT, weight = IRdata$v005,
data=IRdata, nest = TRUE)
```

2- Recode a new v025 variable (say v025r) where you assign all cases with v021=476 to v025r=1 (otherwise v025r=v025) and then proceed with the code below:

```
IRdata$STRAT <- as.integer(factor(with(IRdata, paste(v024, v025r))))
IRdata$CLUST <- as.integer(factor(with(IRdata, paste(v023))))
```

```
DHSdesign<-svydesign(id = IRdata$CLUST, strata = IRdata$STRAT, weight = IRdata$v005,
data=IRdata)
```
