Subject: Can't get exact match between one regional calculation and reported stunting value
Posted by dhsLearner on Thu, 17 Oct 2019 16:38:53 GMT
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I am trying to calculate childhood (under 5) stunting rates by region in Senegal in 2012. For one region, I am getting a different result than what it is reported in the Senegal sumary report. Here is my R code:

```
#read in data
PR2012<-fread("..\\dhs\\dataForR\\continuousSurvey2012\\SNPR6DFL.csv ")

# Create a binary variable for children stunted
PR2012$stuntedUnderFive<-ifelse(PR2012$hc70< -200, 1, 0)
# Assign NA when z score is >9900 sd (NA) #9998 are don't know responses
PR2012$stuntedUnderFive<-ifelse(PR2012$hc70>9900|
                                PR2012$hc1> 59, NA, PR2012$stuntedUnderFive)

# Create weight variable
PR2012$wt<-PR2012$hv005/1000000

# Tabluate stunted by region
PR2012%>%
  group_by(shzone)%>% #shzone is the four regions (north, east, south west)
  summarize(meanStunting = weighted.mean(stuntedUnderFive,wt,na.rm = T))
```

Results:

```
1 centre      0.190
2 nord        0.168
3 ouest       0.145
4 sud         0.266
```

I calculate West (ouest) as 14.5%, but it is reported as 14.7% in the summary (https://dhsprogram.com/pubs/pdf/FR288/FR288eng.pdf).

Can anyone help me figure out what I am doing incorrectly?