
#title: "NSS Data extraction"

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#output: html_document

```
install.packages("readr")
```

```
#Install and load required packages
```

```
library(dplyr)
```

```
library(readr)
```

```
library(tidyr)
```

```
#main extraction of NSSO data is done with the packages 'readr'
```

```
#Extraction of level 1 from NSSO 77th round
```

```
Dlevel1<-read_fwf(file="D:/NSS data/Nss77/Data/Visit1/r77s331v1L01.txt",
```

```
  fwf_cols(centercd=c(1,3), fsuslno=c(4,8),
```

```
    round=c(9,10), schedule=c(11,13),
```

```
    sample=c(14,14), sector=c(15,15),
```

```
    region=c(16,18), distcode=c(19,20),
```

```
    stratum=c(21,22), substratum=c(23,24),
```

```
    subround=c(25,25), fod=c(26,29),
```

```

sssno=c(30,30), hhno=c(31,32),
visit=c(33,33), level=c(34,35),
filler=c(36,40), infsln=c(41,42),
responscd=c(43,43), surveycd=c(44,44),
casualtycd=c(45,45),employcd1=c(46,49),
employcd2=c(50,53), employcd3=c(54,57),
sdate=c(58,63), ddate=c(64,69),
time=c(70,72), noinvest=c(73,73),
remarks1=c(74,74), remarks2=c(75,75),
remarks3=c(76,76), remarks4=c(77,77),
blank=c(78,126), nsc=c(127,129),
mlt=c(130,139)),

```

```

col_types=cols(centercd=col_character(), fsusln=col_character(),

```

```

round=col_integer(), schedule=col_character(),
sample=col_character(), sector=col_integer(),
region=col_character(), distcode=col_character(),
stratum=col_character(), substratum=col_character(),
subround=col_character(), fod=col_character(),
sssno=col_character(), hhno=col_character(),
visit=col_integer(), level=col_character(),
filler=col_character(), infsln=col_character(),
responscd=col_character(), surveycd=col_character(),
casualtycd=col_character(), employcd1=col_character(),
employcd2=col_character(), employcd3=col_character(),
sdate=col_date(), ddate=col_date(),
time=col_character(), noinvest=col_character(),
remarks1=col_character(), remarks2=col_character(),

```

```
    remarks3=col_character(), remarks4=col_character(),  
    blank=col_character(), nsc=col_number(),  
    mlt=col_number()))  
save(Dlevel1,file="Dlevel1.RData")
```

```
getwd()
```

```
#Extraction of level 6 from NSSO 77th round
```

```
Dlevel6<-read_fwf(file="D:/NSS data/Nss77/Data/Visit1/r77s331v1L06.txt",  
    fwf_cols(centercd=c(1,3), fsuslno=c(4,8),  
        round=c(9,10), schedule=c(11,13),  
        sample=c(14,14), sector=c(15,15),  
        region=c(16,18), distcode=c(19,20),  
        stratum=c(21,22), substratum=c(23,24),  
        subround=c(25,25), fod=c(26,29),  
        sssno=c(30,30), hhno=c(31,32),  
        visit=c(33,33), leve6=c(34,35),  
        filler=c(36,39), slnocrp=c(40,40),  
        cropcd=c(41,44), unitcd=c(45,45),  
        areairr=c(46,51),quantpirr=c(52,61),  
        areaunirr=c(62,67), quantpunirr=c(68,77),  
        totqua=c(78,87),  
        nsc=c(127,129), mlt=c(130,139)),
```

```

col_types=cols(centercd=col_character(),    fsuslno=col_character(),

              round=col_integer(),    schedule=col_character(),

              sample=col_character(),    sector=col_integer(),

              region=col_character(),    distcode=col_character(),

              stratum=col_character(),    substratum=col_character(),

              subround=col_character(),    fod=col_character(),

              sssno=col_character(),    hhno=col_character(),

              visit=col_integer(),    level6=col_character(),

              filler=col_character(),    slnocrp=col_character(),

              cropcd=col_character(),    unitcd=col_character(),

              areairr=col_character(),    quantpirr=col_character(),

              areaunirr=col_character(),    quantpunirr=col_character(),

              totqua=col_character(),

              nsc=col_number(),

              mlt=col_number()))

save(Dlevel6,file="Dlevel6.RData")

```

##Creating weights from multiplier for each of these levels

#NSSO data though it is a sample survey, but it has wonderful value of weights

#through which you can exactly stipulate the entire results for country as a whole for whole results.

```
Dlevel1$weight<-Dlevel1$mlt/100
```

```
Dlevel2$weight<-Dlevel2$mlt/100
```

```
Dlevel3$weight<-Dlevel3$mlt/100
```

```
Dlevel4$weight<-Dlevel4$mlt/100
```

```
Dlevel5$weight<-Dlevel5$mlt/100
```

```
Dlevel6$weight<-Dlevel6$mlt/100
```

```
Dlevel7$weight<-Dlevel7$mlt/100
```

```
##generation of key for merging
```

```
Dlevel1$key<-paste0(Dlevel1$fsuslno,Dlevel1$sssno,Dlevel1$hhno)
```

```
Dlevel6$key<-paste0(Dlevel1$fsuslno,Dlevel1$sssno,Dlevel1$hhno)
```

```
Dlevel6$keyind<-paste0(Dlevel6$fsuslno,Dlevel6$sssno,Dlevel6$hhno,Dlevel6$slNo)
```

```
Dlevel7$keyind<-paste0(Dlevel7$fsuslno,Dlevel7$sssno,Dlevel7$hhno,Dlevel7$slNo)
```

```
##Merge two levels
```

```
Dlevel6_7 <-merge(Dlevel6,Dlevel7, by="keyind",all=TRUE)
```

```
##saving the merging files
```

```
save(Dlevel6_7,file="Dlevel6_7.RData")
```

```
##checking pattern of the data
```

```
table(Dlevel6$cropcd)
```

```
summarise(Dlevel6,n=mean(rate,na.rm=TRUE))
```

#average with the use of multiplier

```
Dlevel6_7%>%
```

```
  filter(cropcd==101)%>%
```

```
  group_by(whom_sold)%>%
```

```
  summarise(w=weighted.mean(rate,weight.x))
```

#count with multiplier

```
Dlevel6_7%>%
```

```
  filter(cropcode.x==101)%>%
```

```
  group_by(whom_sold)%>%
```

```
  count(sale_satis,wt=weight.x)
```

#{R use of crosstab with pollster package}

```
topline(Dlevel6_7,variable=whom_sold,weight=weight.x)
```

```
crosstab(Dlevel6_7,x=whom_sold, y=sale_satis,weight=weight.x)
```

```
crosstab_3way(Dlevel6_7,x=whom_sold, y=sale_satis, z=sssno.x, weight=weight.x)
```