Finance Commission Data Analysis

RStudio

31 May 2019

Introduction

As per 2011 census report, the Ranchi district has been divided into 18 blocks. The table shown below lists the 18 blocks of Ranchi district-

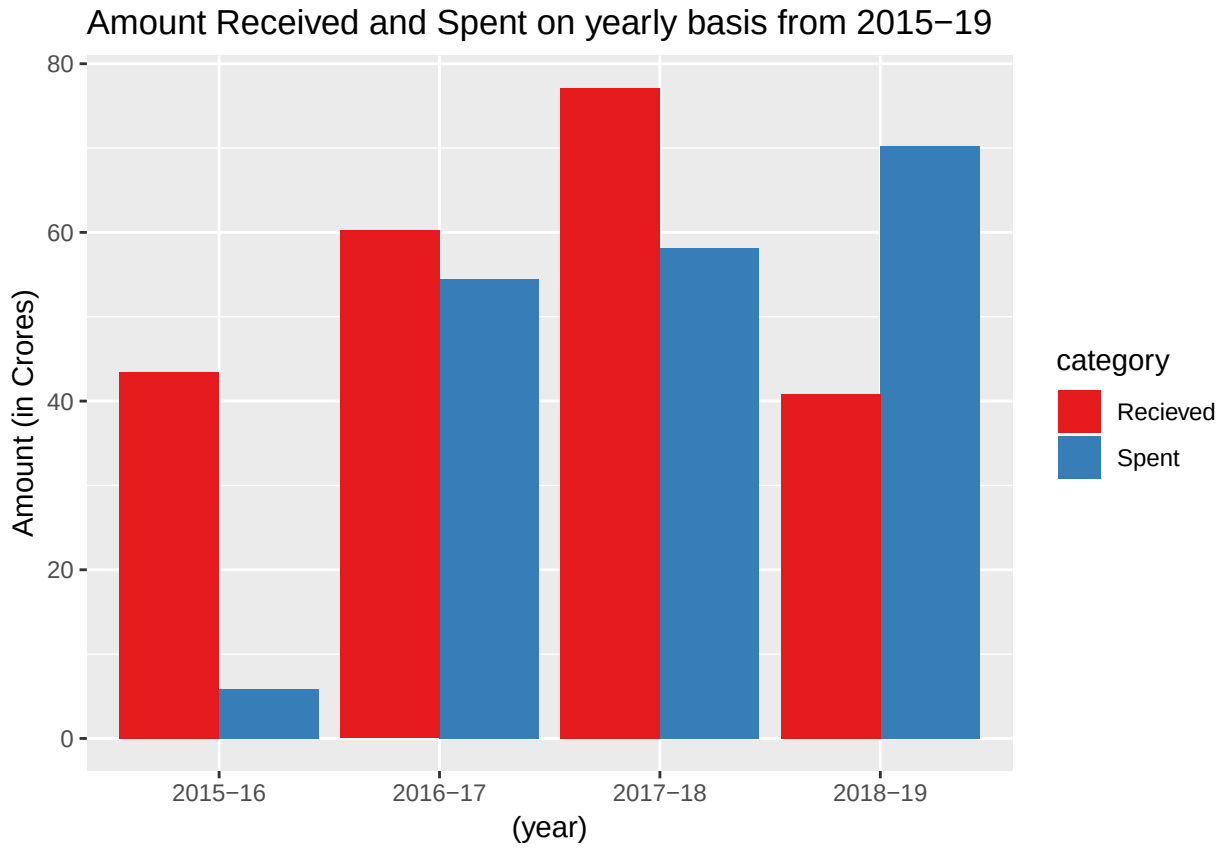
```
library(knitr)
block<-read.csv("blocks.csv",header = TRUE,sep="\t")
block<-data.frame(block)
kable(block[,1:2],caption="Blocks in Ranchi District" )
```

Table 1: Blocks in Ranchi District

SNo	Block
1	Kanke
2	Namkum
3	Tamar
4	Mandar
5	Silli
6	Bero
7	Angara
8	Chanho
9	Ormanjhi
10	Burmu
11	Bundu
12	Khelari
13	Sonahatu
14	Ratu
15	Nagri
16	Lapung
17	Rahe
18	Itki

Data Analysis of Ranchi District from 2015-2019

```
library(readxl)
options(scipen=999)     # for omitting exponential values in graph
ranchi<-read_excel("ranchi_data.xlsx")
#class(ranchi)
category=c('Recieved','Spent','Recieved','Spent','Recieved',
           'Spent','Recieved','Spent')
year=c("2015-16","2015-16","2016-17","2016-17","2017-18"
       ,"2017-18","2018-19","2018-19")
Amount=c(as.integer(ranchi[327,4])/10000000,as.integer(ranchi[327,11])/10000000
         ,as.integer(ranchi[327,5])/10000000,as.integer(ranchi[327,12])/10000000,
         as.integer(ranchi[327,6])/10000000+as.integer(ranchi[327,7])/10000000,
         as.integer(ranchi[327,13])/10000000,as.integer(ranchi[327,9])/10000000,
         as.integer(ranchi[327,14])/10000000)
Finance=data.frame(category,year,Amount)
library(ggplot2)


ggplot(Finance, aes((year), Amount, fill = category)) +
  geom_bar(stat="identity", position = "dodge") +
  scale_fill_brewer(palette = "Set1") + ggtitle("Amount Received and Spent on yearly basis from 2015-19
```

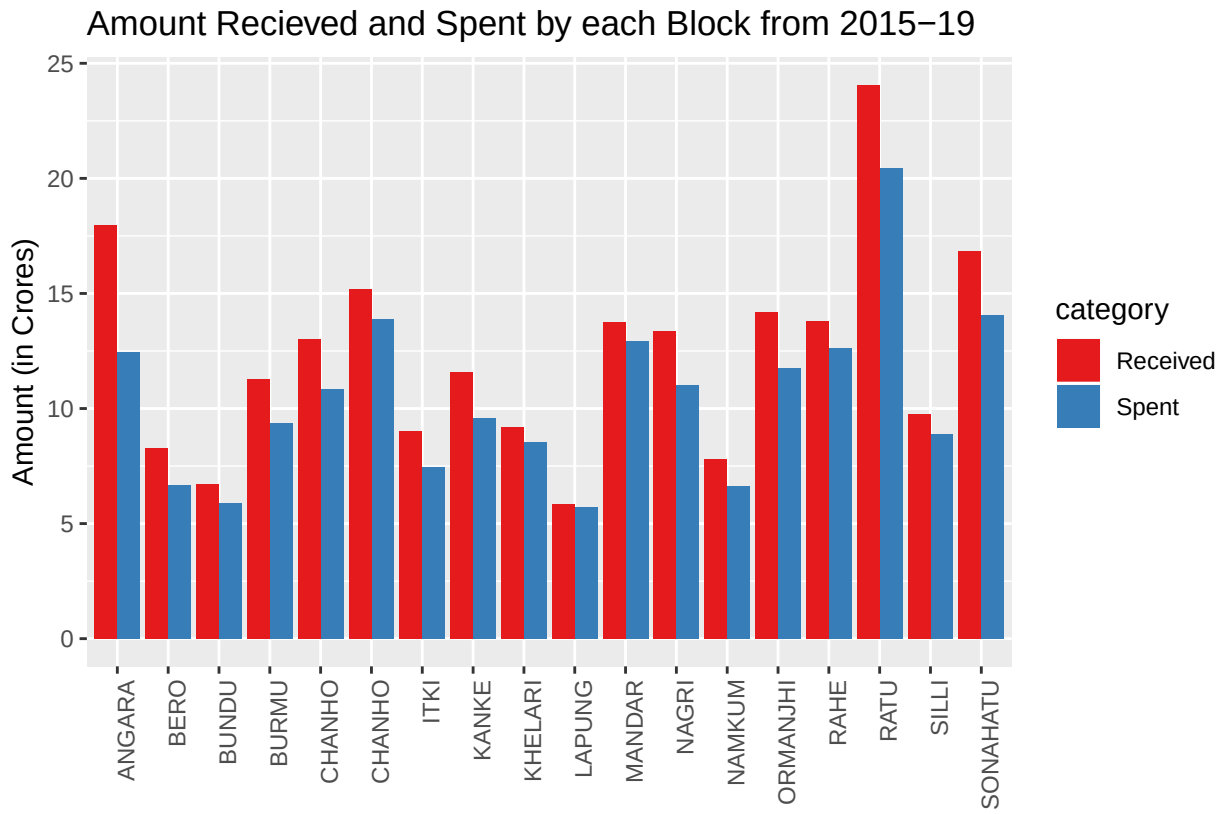


From the finance data of amount given and spent by the Ranchi district, it can be clearly seen that all the 18 blocks cumulatively had used 85.19% of the total amount received which is Rs 221.63 Crore. By spending Rs 188.8 Crore from the total amount received over these years the district finance commission is left with Rs

32.83 Crore as of May 1, 2019 without including the amount received and spent in the current Year(2019).

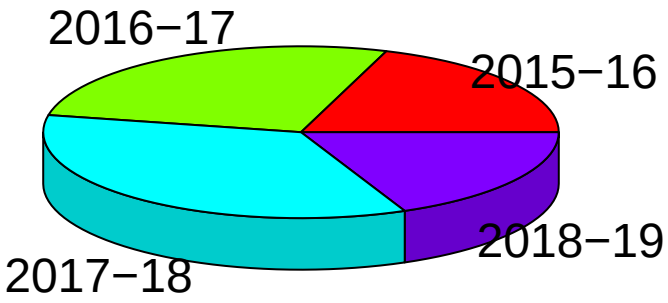
From the graph it can be observed that 2015-16 has the minimum percentage use of amount received whereas 2018-19 is the only year where expenditure was more than the amount received.

```
#Amount Recieved and Spent by each Block from 2015-19
library(readxl)
block<-read_excel("blocks.xlsx")
ranchi<-read_excel("ranchi_data.xlsx")
na_vec=which(!complete.cases(ranchi))
ranchi_clean=ranchi[na_vec,]
x=unique(ranchi_clean$Block)
x=x[3:20]
x[3]="CHANHO"
b=c(x,x)
b_rs=c(as.numeric(unlist(c(block[10])))/10000000,
       as.numeric(unlist(c(block[15])))/10000000)
category=c(rep('Received',18),rep("Spent",18))

b_data=data.frame(category,b,b_rs)
library(ggplot2)

ggplot(b_data, aes(b, b_rs , fill = category)) +
  geom_bar(stat="identity", position = "dodge") +
  scale_fill_brewer(palette = "Set1") + labs(y="Amount (in Crores)",
                                             x="") +
  theme(axis.text.x=element_text(angle=90, hjust=1)) +
  ggtitle("Amount Recieved and Spent by each Block from 2015-19")
```




```
#install.packages
library(plotrix)
a_received=c(as.integer(ranchi[327,4])/10000,as.integer(ranchi[327,5])/10000,(as.integer(ranchi[327,6])
pie3D(a_received,labels=unique(year),
    col=rainbow(4),main = "Yearwise Contribution to the total amount")
```

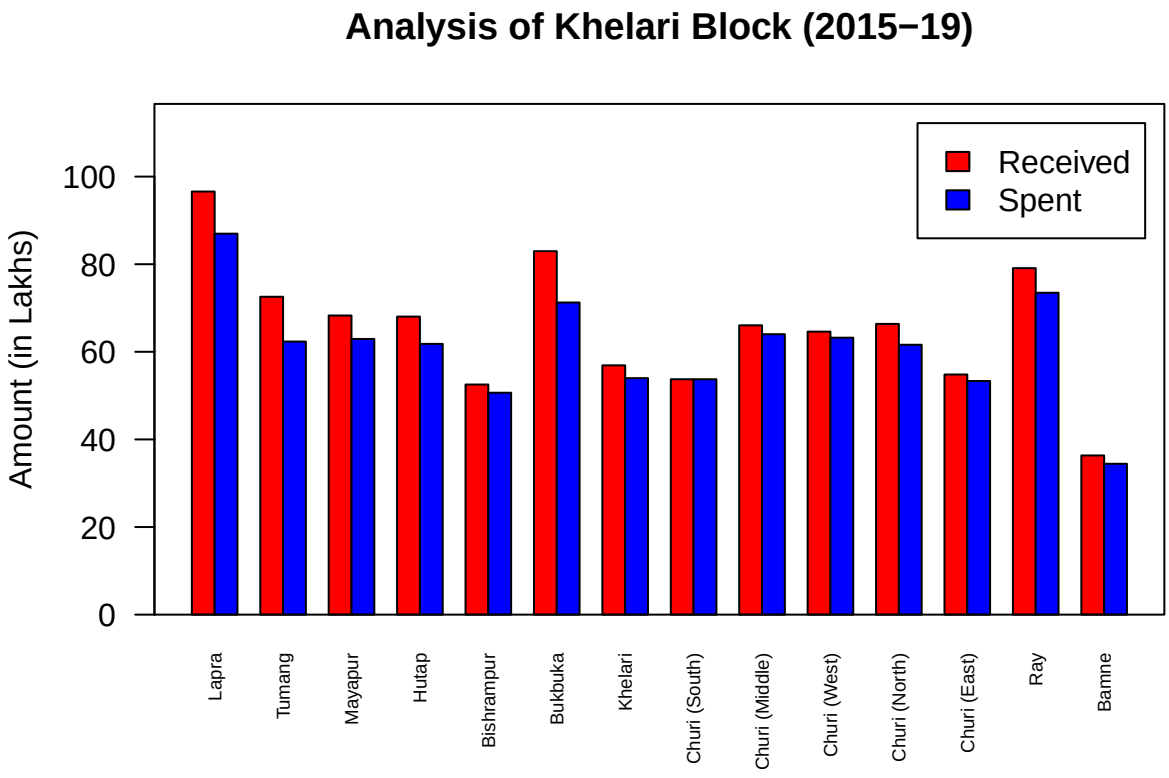
Yearwise Contribution to the total amount



From the above pie chart it could be clearly seen that the maximum contribution to the total amount of Rs 221.63 Crore was from the year 2016-17.

Data Analysis of Khelari Block

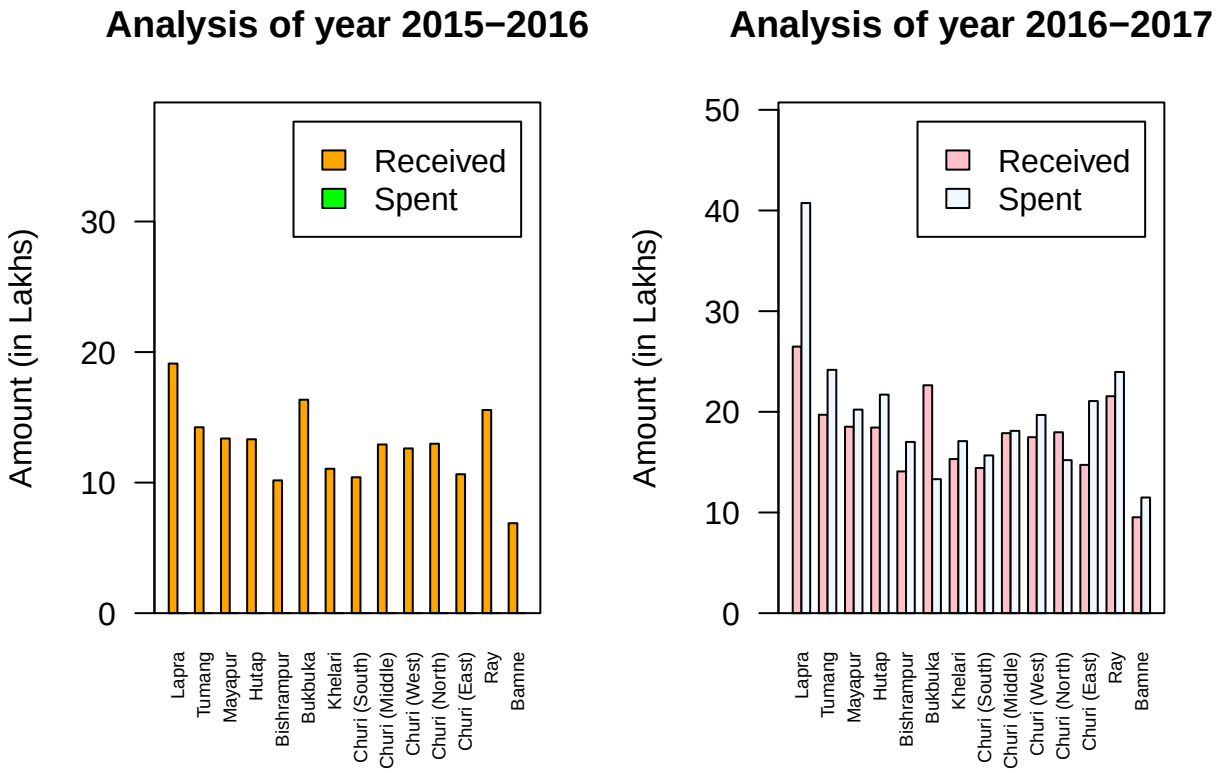
```
library(readxl)
block=read_excel("KHELARI.xlsx")
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[15])))/100000
receive=as.numeric(unlist(c(block[10])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("red","blue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of Khelari Block (2015-19)',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

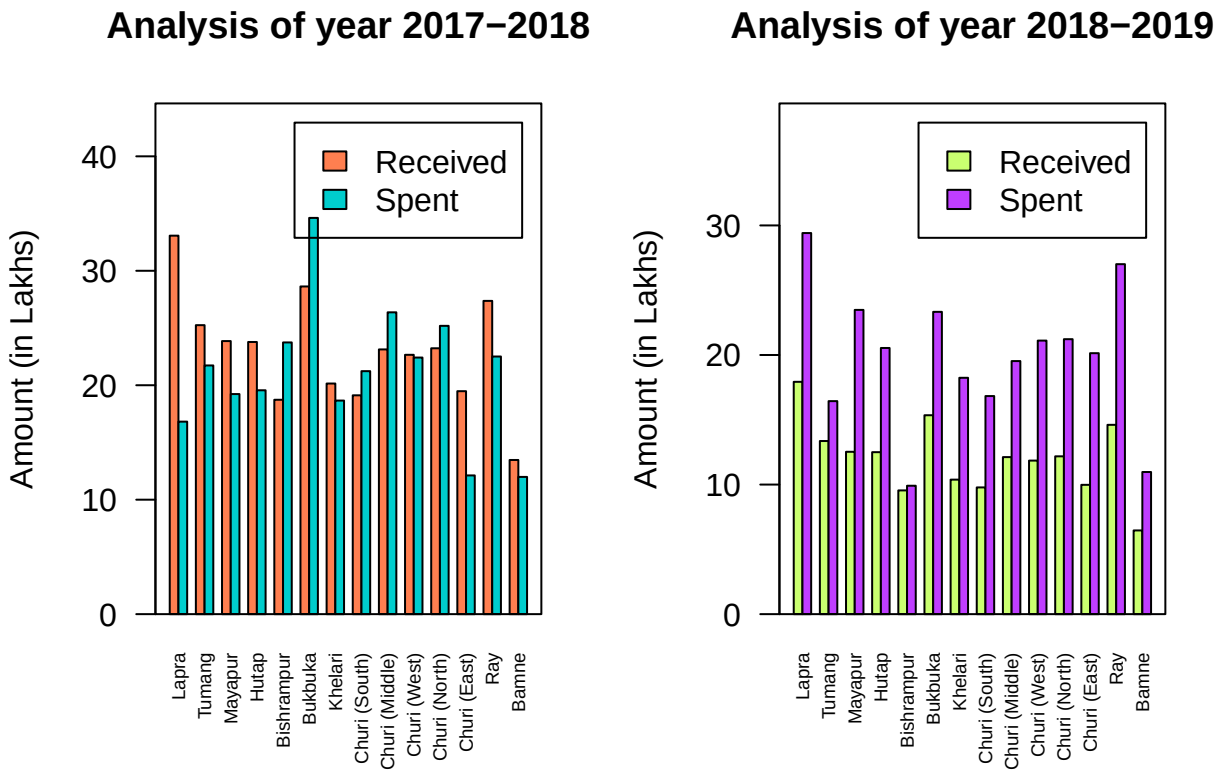
Yearwise Plots

```
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[11])))/100000
receive=as.numeric(unlist(c(block[4])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("orange","green")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2015-2016',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)


pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[12])))/100000
receive=as.numeric(unlist(c(block[5])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("pink","aliceblue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,10+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2016-2017',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)


pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[13])))/100000
receive=(as.numeric(unlist(c(block[7])))+as.numeric(unlist(c(block[6]))))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
par(mfrow=c(1,2))
cols=c("coral","cyan3")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,10+(max(c(receive,spent)))),
  col=cols,
  main ='Analysis of year 2017-2018',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6, #xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

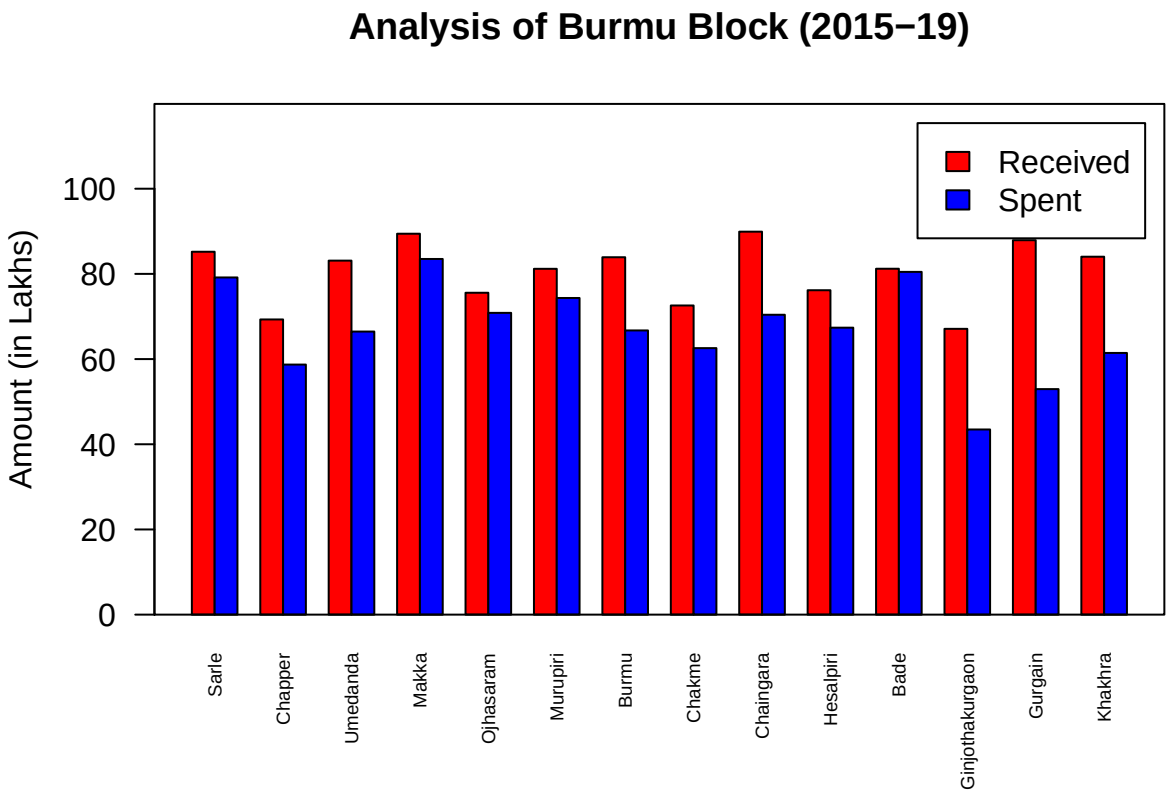
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,10+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Data Analysis of Burmu Block

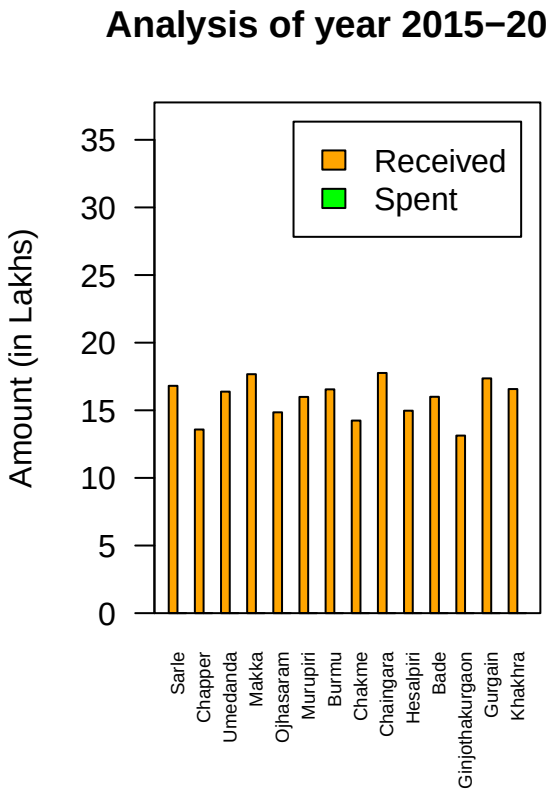
```
library(readxl)
block=read_excel("BURMU.xlsx")
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[15])))/100000
receive=as.numeric(unlist(c(block[10])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("red","blue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,30+max(c(receive,spent))),
  col=cols,
  main ='Analysis of Burmu Block (2015-19)',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```

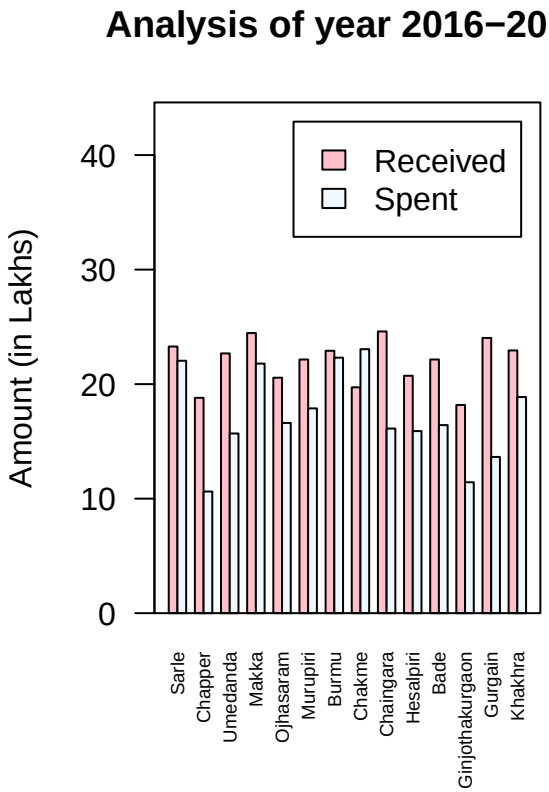



```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Yearwise Plots

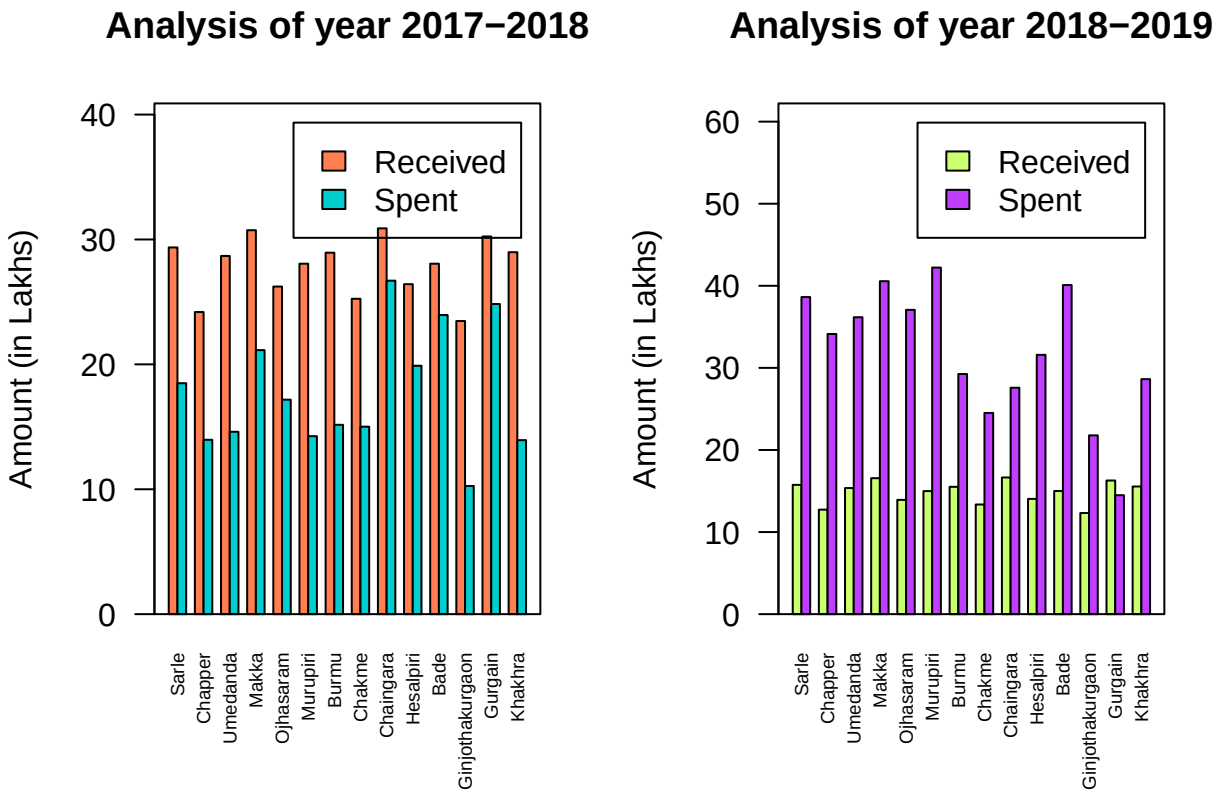
```
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[11])))/100000
receive=as.numeric(unlist(c(block[4])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("orange","green")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2015-2016',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)


pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[12])))/100000
receive=as.numeric(unlist(c(block[5])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("pink","aliceblue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2016-2017',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```






```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)


par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[13])))/100000
receive=(as.numeric(unlist(c(block[7])))+as.numeric(unlist(c(block[6]))))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("coral","cyan3")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,10+(max(c(receive,spent)))),
  col=cols,
  main ='Analysis of year 2017-2018',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6, #xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

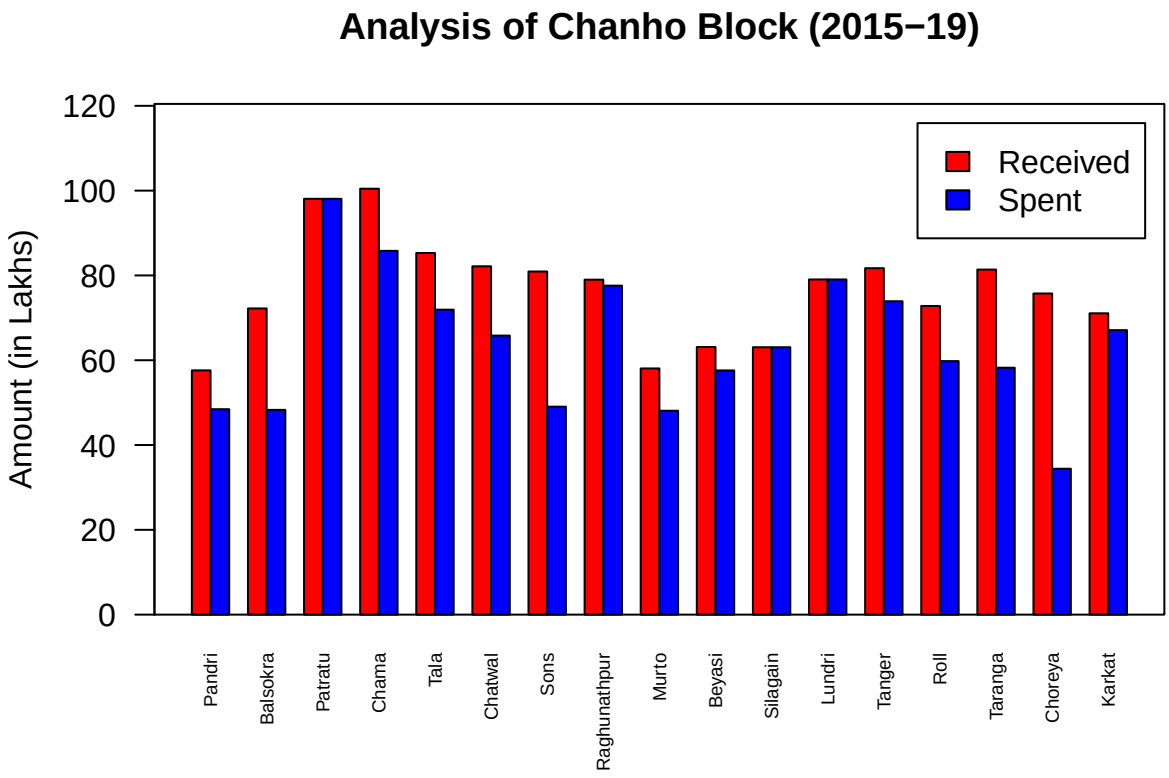
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Data Analysis of Chanho Block

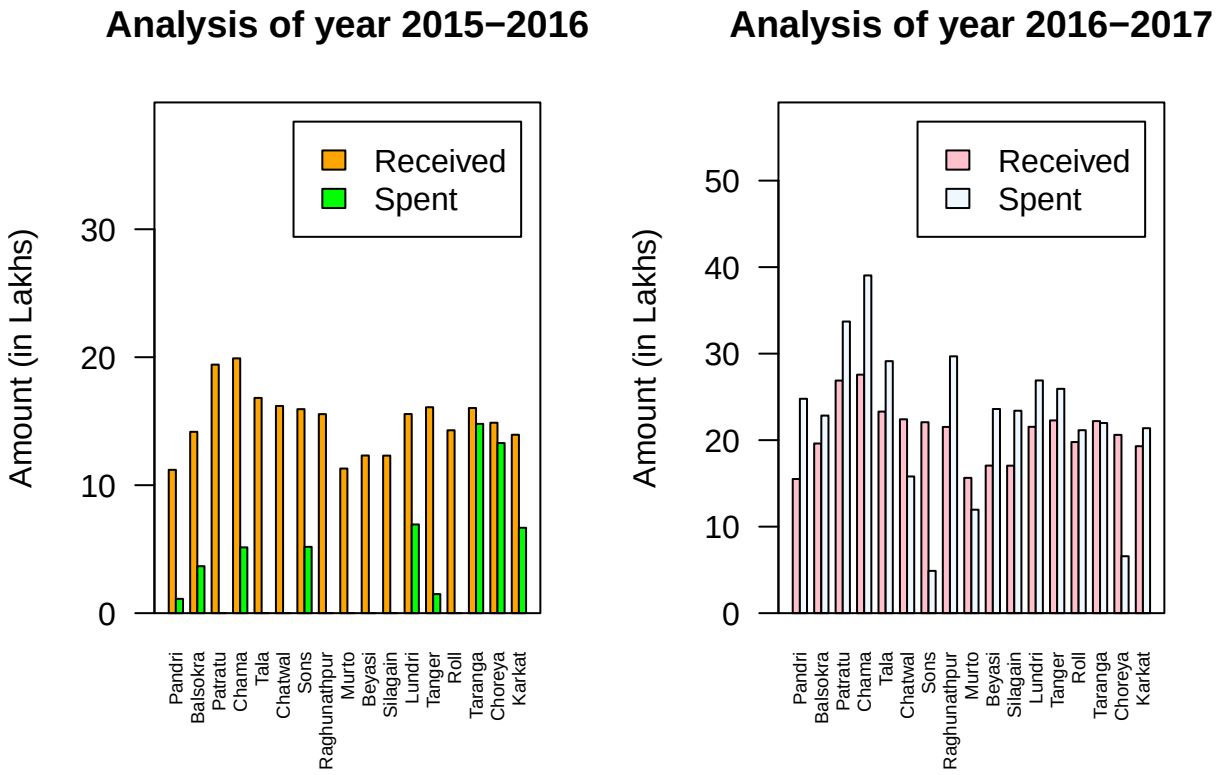
```
library(readxl)
block=read_excel("CHANHO.xlsx")
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[15])))/100000
receive=as.numeric(unlist(c(block[10])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("red","blue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of Chanho Block (2015-19)',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

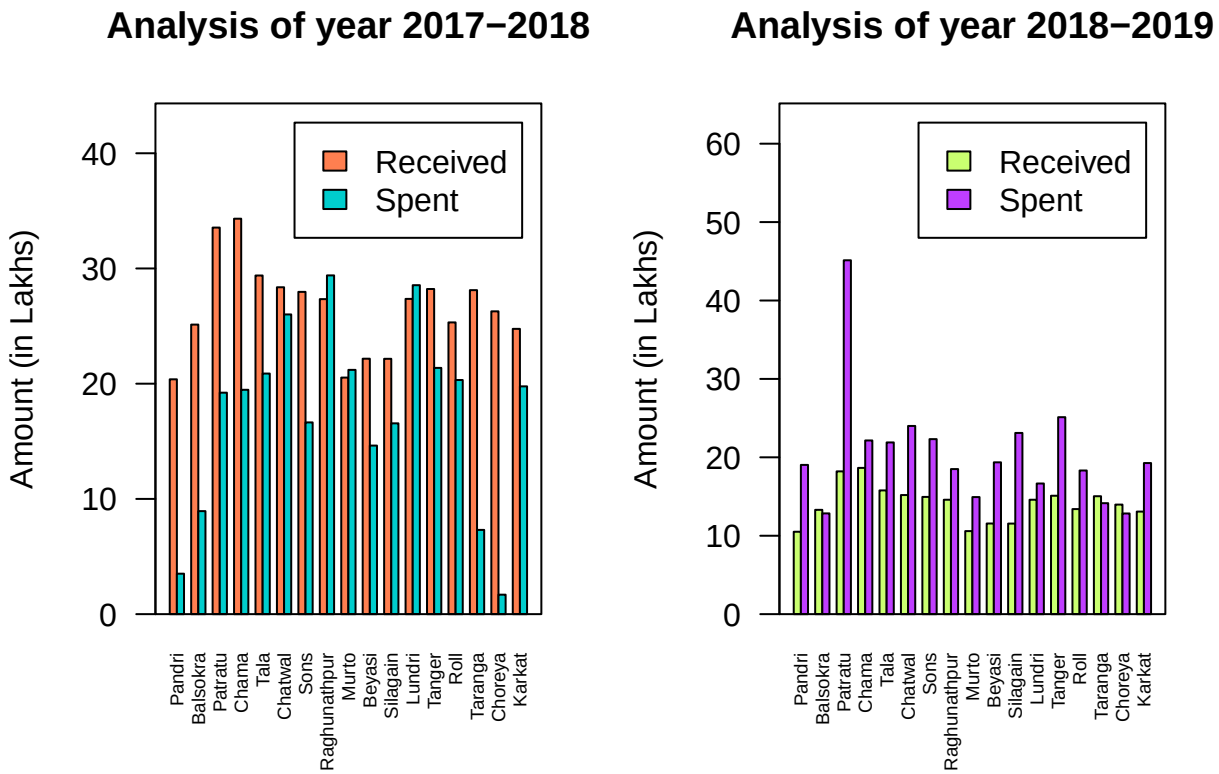
Yearwise Plots

```
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[11])))/100000
receive=as.numeric(unlist(c(block[4])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("orange","green")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2015-2016',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)


pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[12])))/100000
receive=as.numeric(unlist(c(block[5])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("pink","aliceblue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2016-2017',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)


par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[13])))/100000
receive=(as.numeric(unlist(c(block[7])))+as.numeric(unlist(c(block[6]))))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("coral","cyan3")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,10+(max(c(receive,spent)))),
  col=cols,
  main ='Analysis of year 2017-2018',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6, #xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

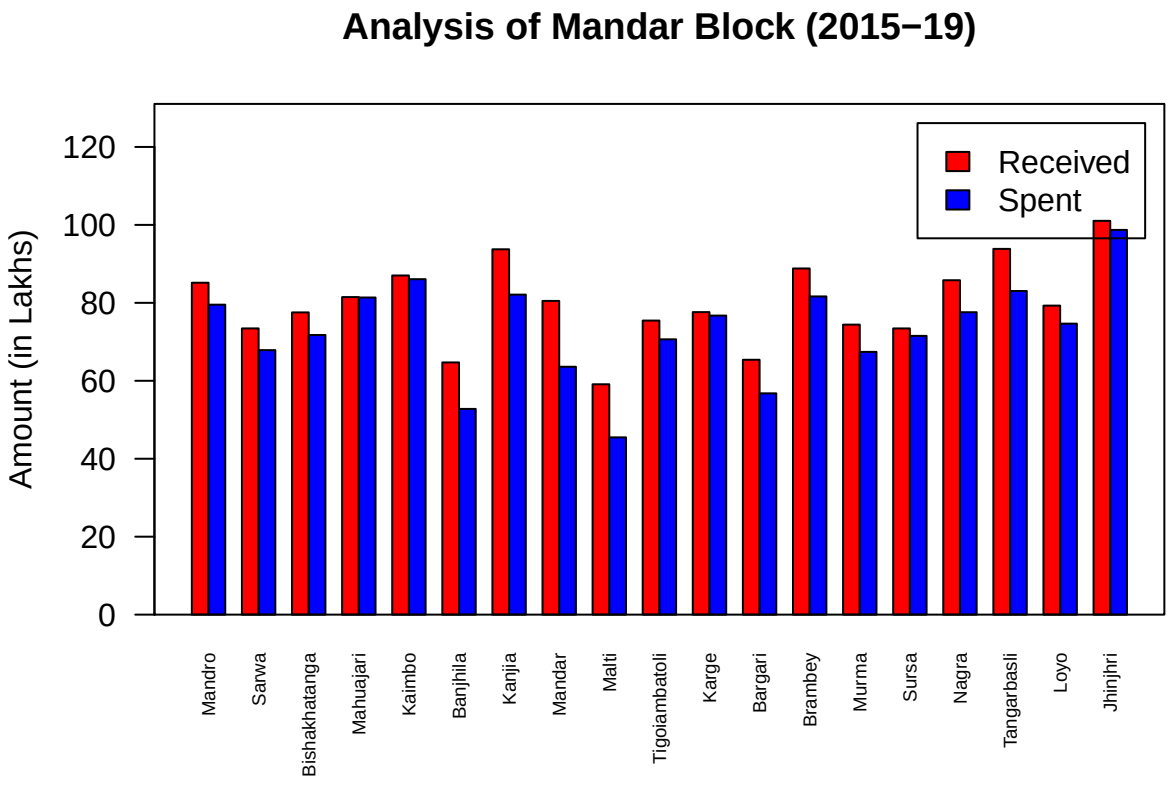
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Data Analysis of Mandar Block

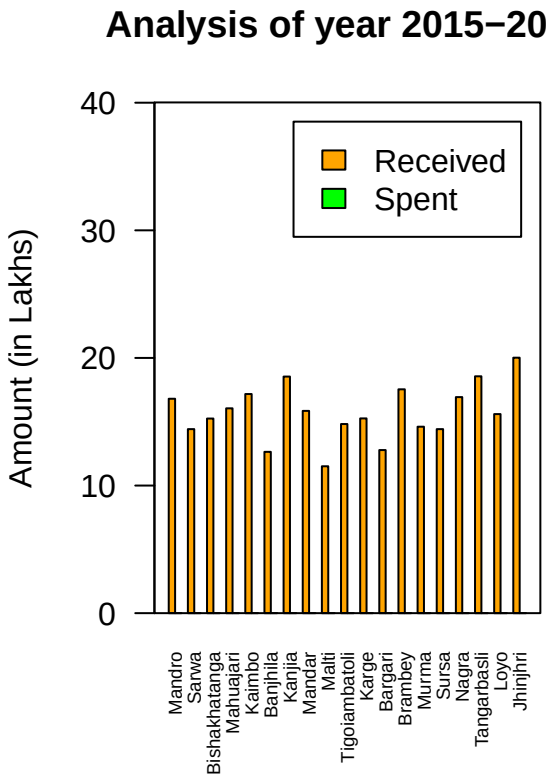
```
library(readxl)
block=read_excel("MANDAR.xlsx")
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[15])))/100000
receive=as.numeric(unlist(c(block[10])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("red","blue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,30+max(c(receive,spent))),
  col=cols,
  main ='Analysis of Mandar Block (2015-19)',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```

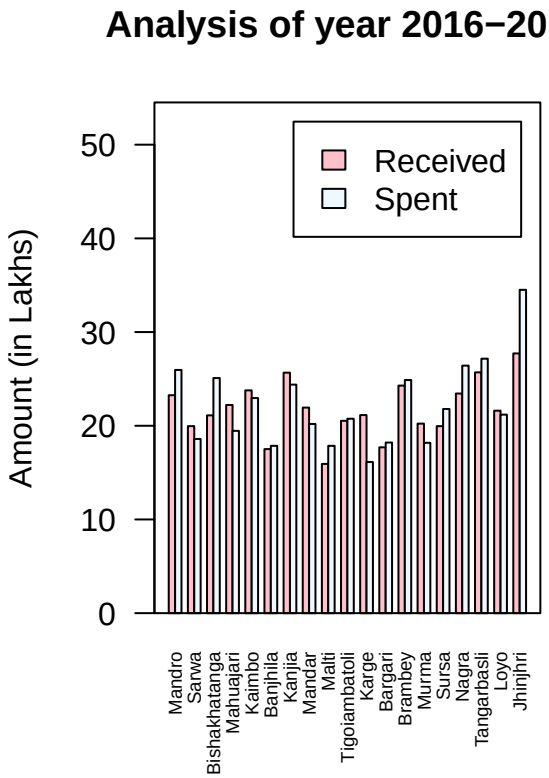



```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Yearwise Plots

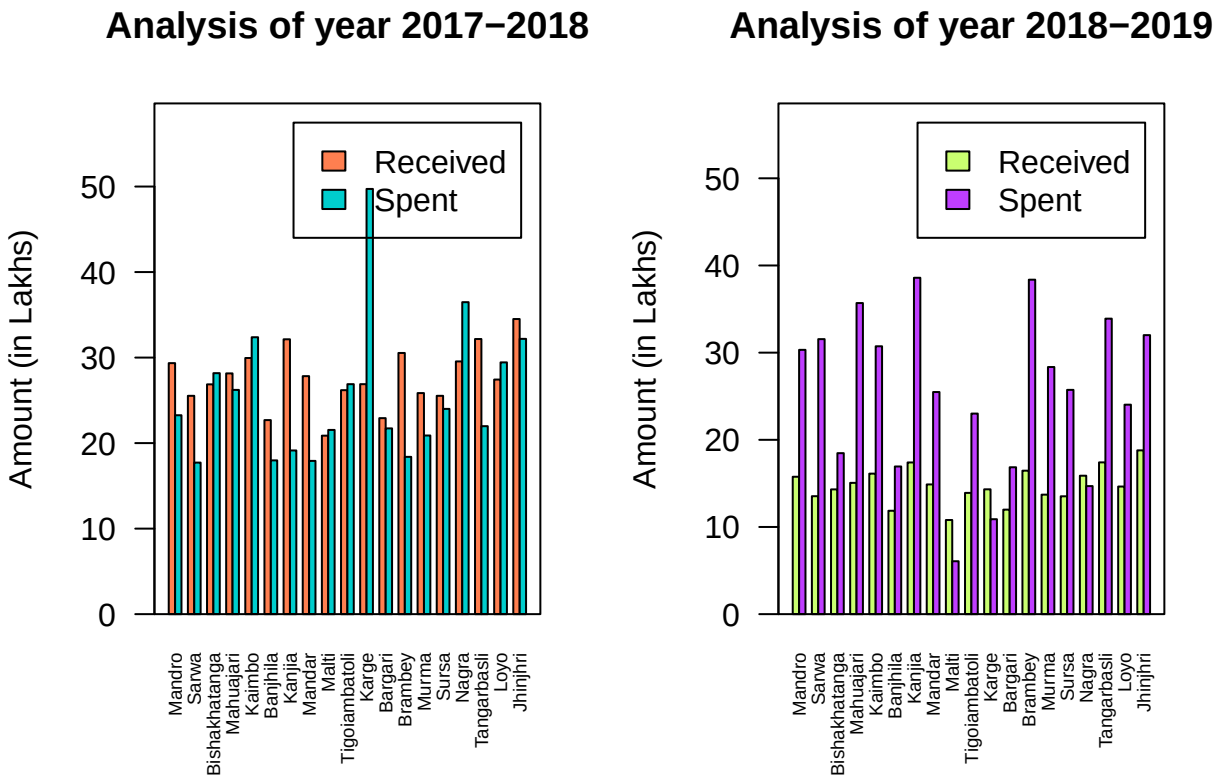
```
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[11])))/100000
receive=as.numeric(unlist(c(block[4])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("orange","green")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2015-2016',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)


pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[12])))/100000
receive=as.numeric(unlist(c(block[5])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("pink","aliceblue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2016-2017',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```






```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)


par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[13])))/100000
receive=(as.numeric(unlist(c(block[7])))+as.numeric(unlist(c(block[6]))))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("coral","cyan3")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,10+(max(c(receive,spent)))),
  col=cols,
  main ='Analysis of year 2017-2018',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6, #xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

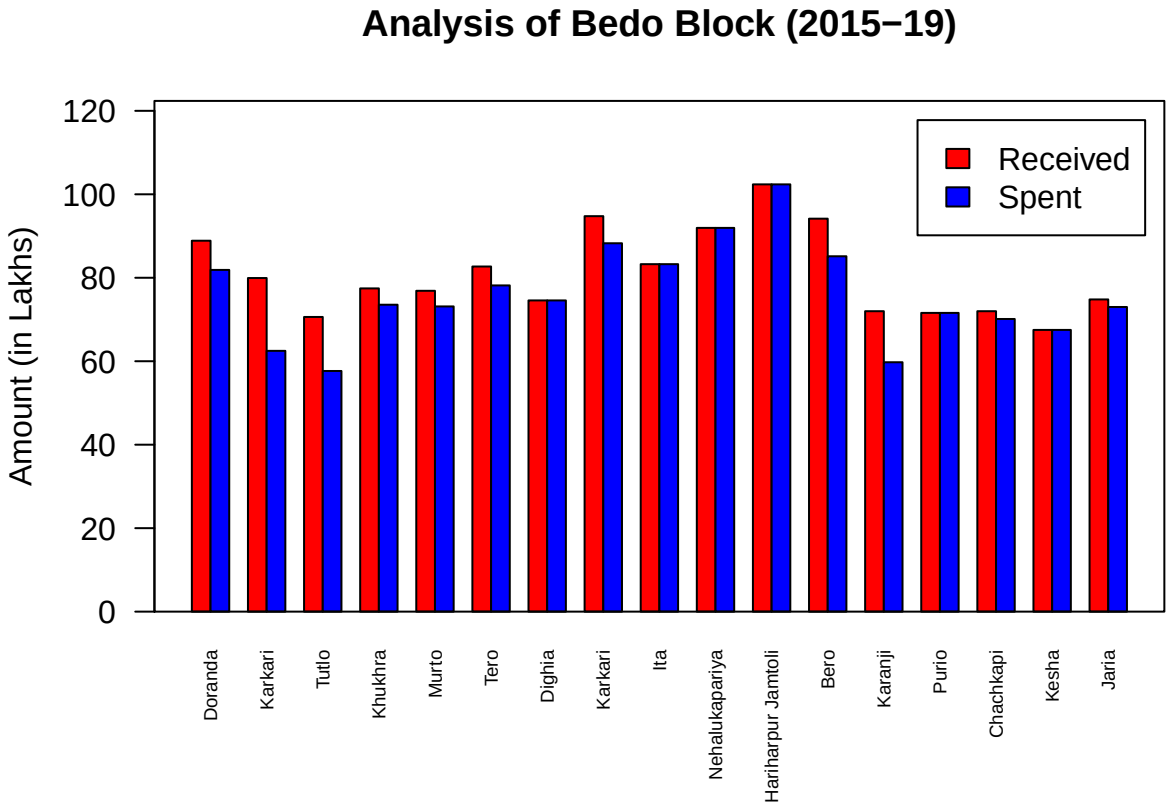
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Data Analysis of Bedo Block

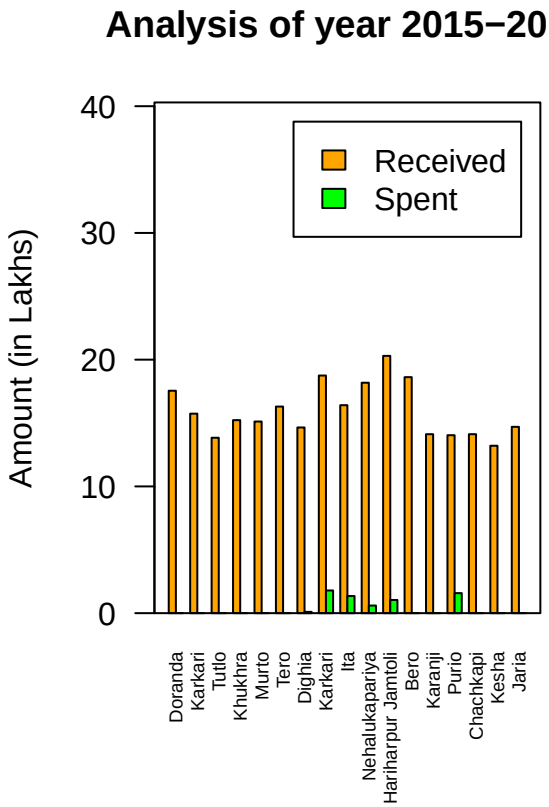
```
library(readxl)
block=read_excel("BERO.xlsx")
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[15])))/100000
receive=as.numeric(unlist(c(block[10])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("red","blue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of Bedo Block (2015-19)',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```

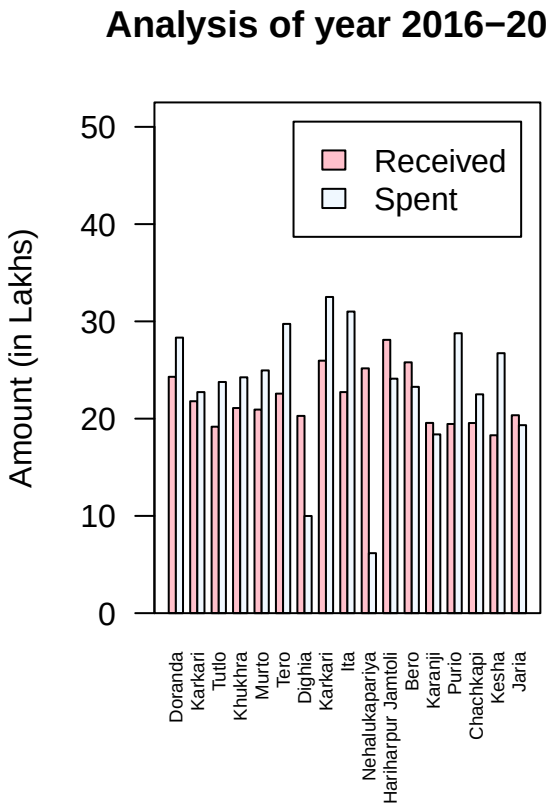



```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Yearwise Plots

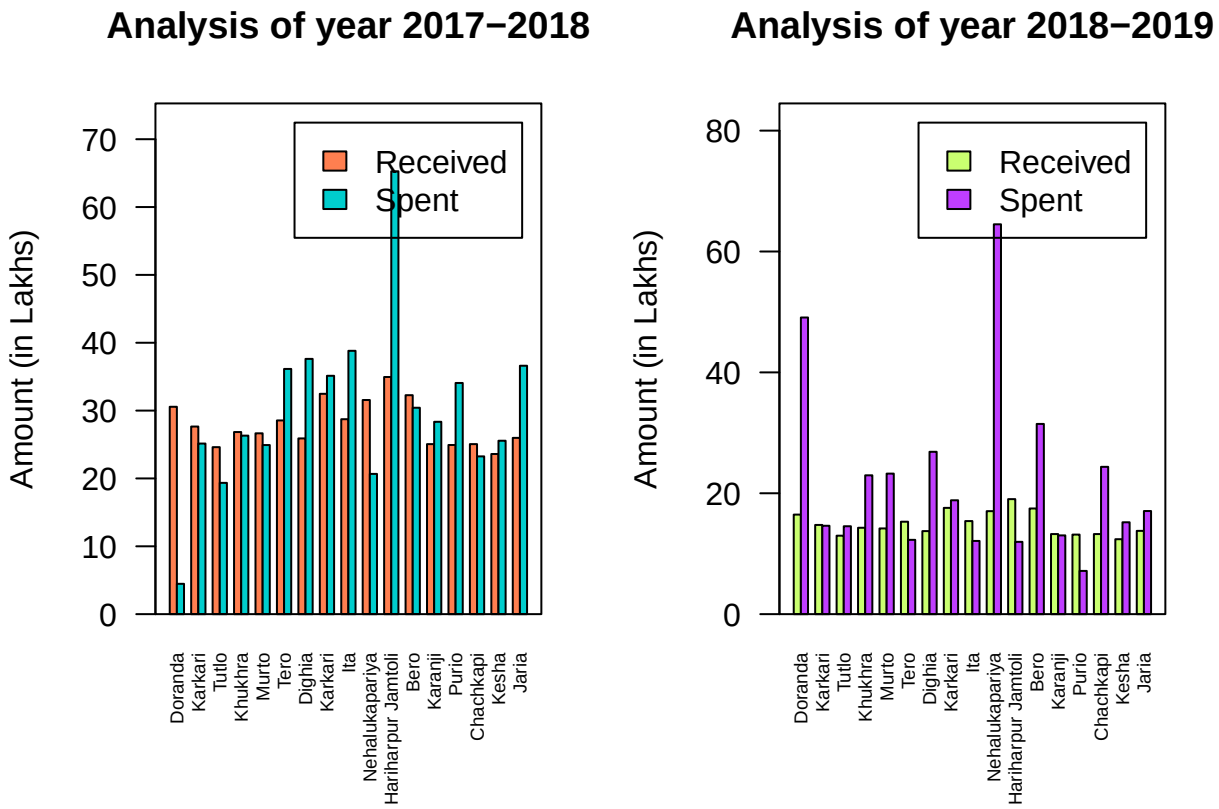
```
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[11])))/100000
receive=as.numeric(unlist(c(block[4])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("orange","green")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2015-2016',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)


pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[12])))/100000
receive=as.numeric(unlist(c(block[5])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("pink","aliceblue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2016-2017',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```






```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)


par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[13])))/100000
receive=(as.numeric(unlist(c(block[7])))+as.numeric(unlist(c(block[6]))))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("coral","cyan3")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,10+(max(c(receive,spent)))),
  col=cols,
  main ='Analysis of year 2017-2018',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6, #xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

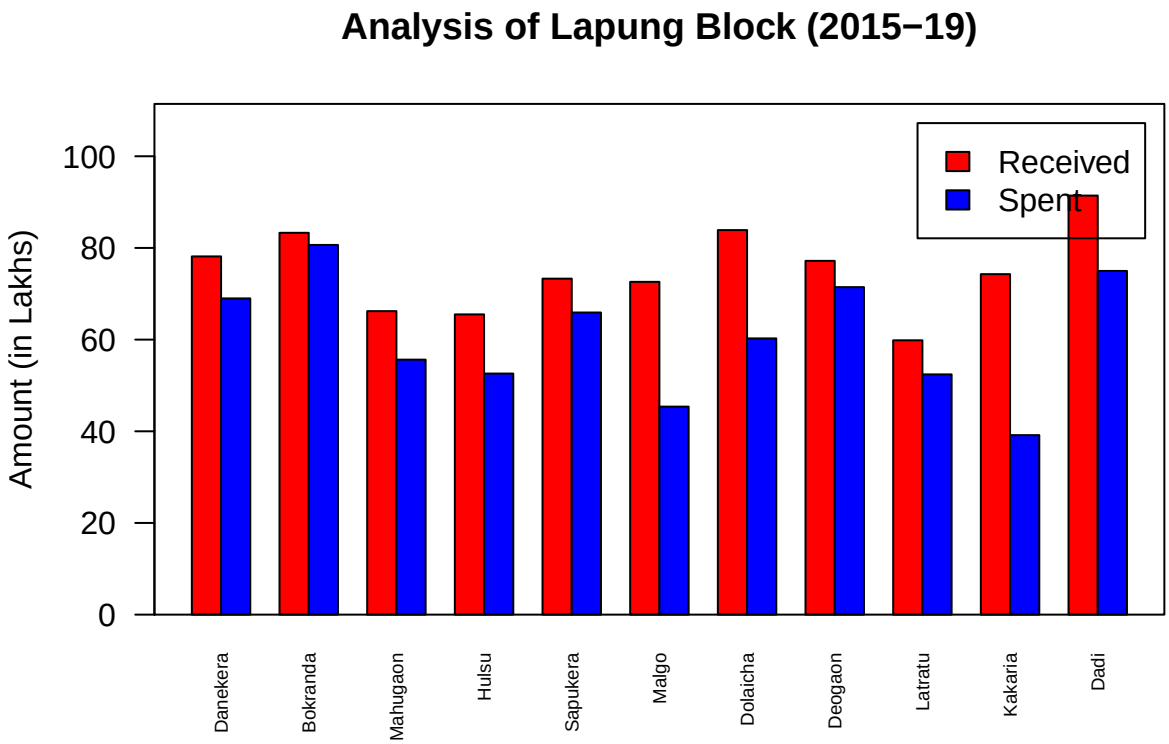
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Data Analysis of Lapung Block

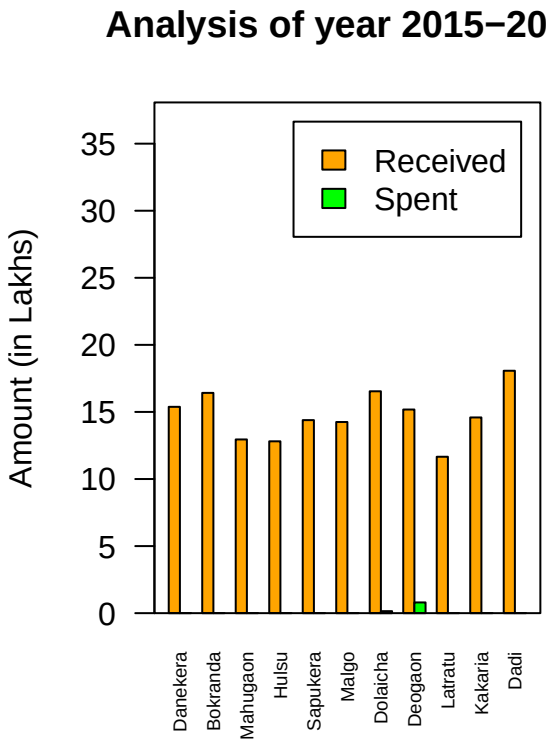
```
library(readxl)
block=read_excel("LAPUNG.xlsx")
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[15])))/100000
receive=as.numeric(unlist(c(block[10])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("red","blue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of Lapung Block (2015-19)',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```

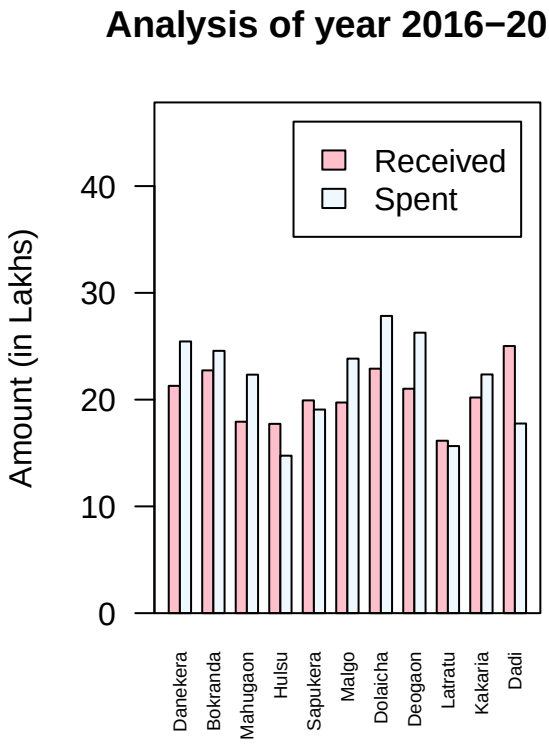



```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Yearwise Plots

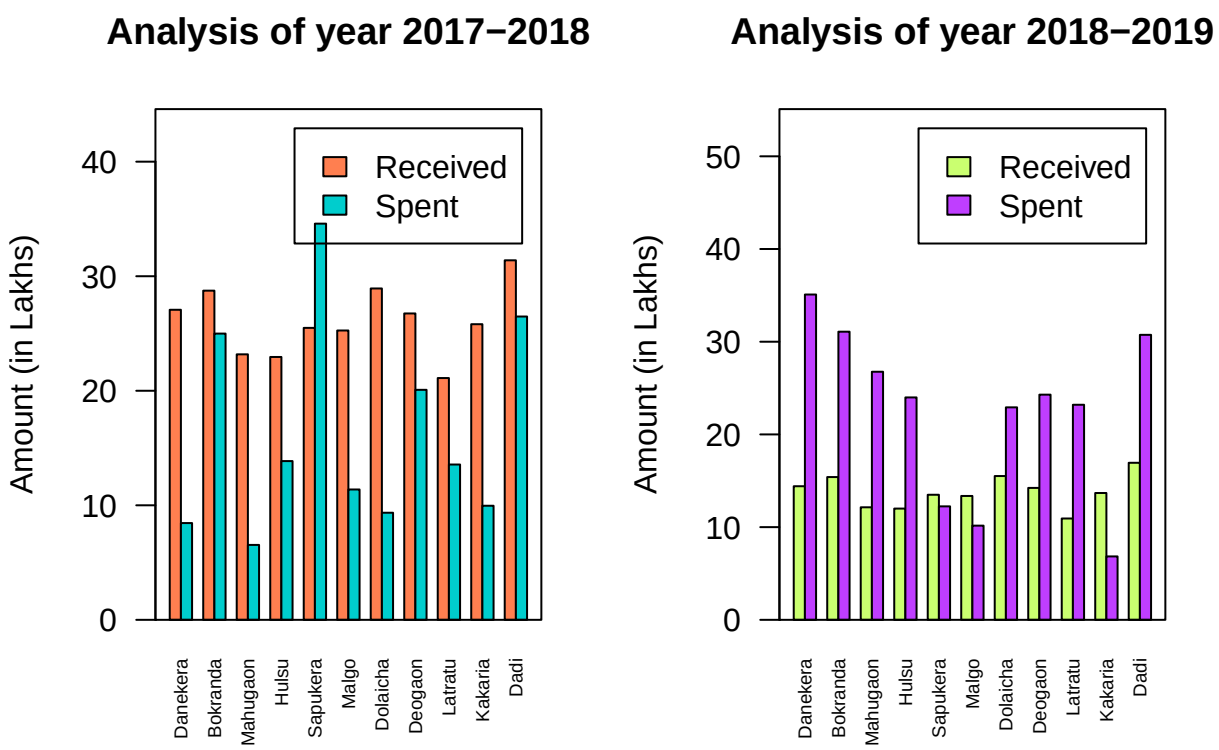
```
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[11])))/100000
receive=as.numeric(unlist(c(block[4])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("orange","green")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2015-2016',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)


pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[12])))/100000
receive=as.numeric(unlist(c(block[5])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("pink","aliceblue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2016-2017',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```






```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)

pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[13])))/100000
receive=(as.numeric(unlist(c(block[7])))+as.numeric(unlist(c(block[6]))))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("coral","cyan3")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,10+(max(c(receive,spent)))),
  col=cols,
  main ='Analysis of year 2017-2018',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6, #xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

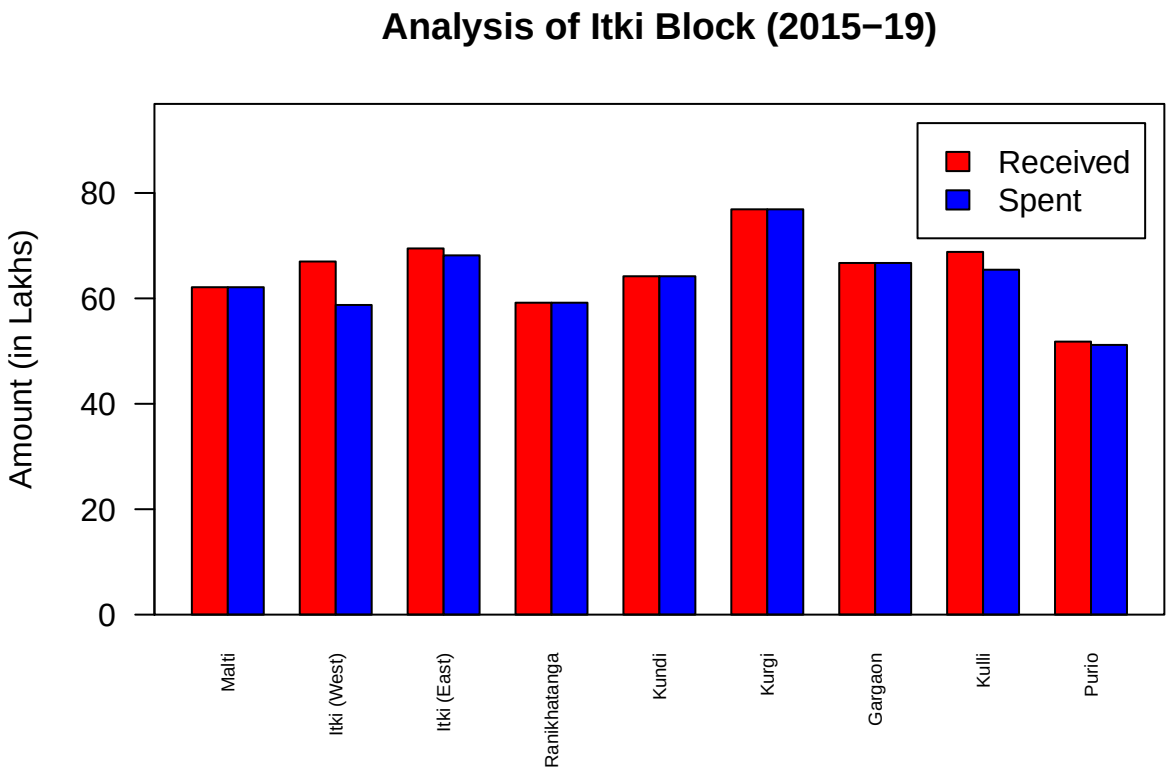
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Data Analysis of Itki Block

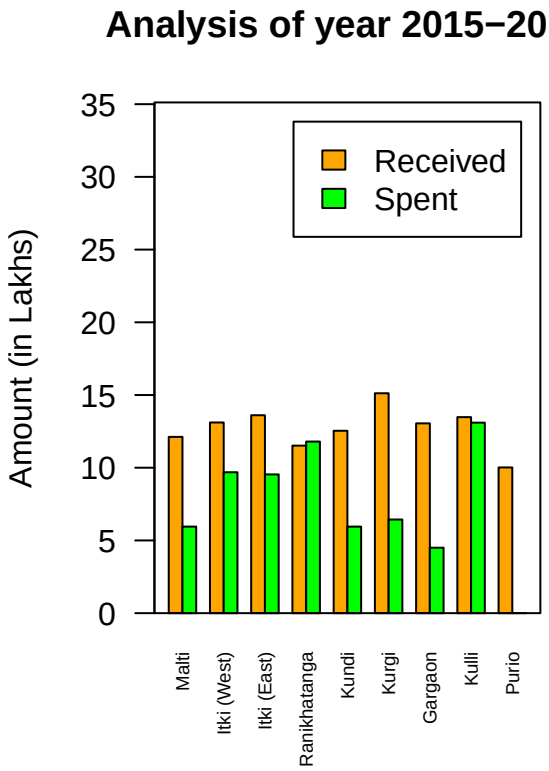
```
library(readxl)
block=read_excel("ITKI.xlsx")
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[15])))/100000
receive=as.numeric(unlist(c(block[10])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("red","blue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of Itki Block (2015-19)',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```

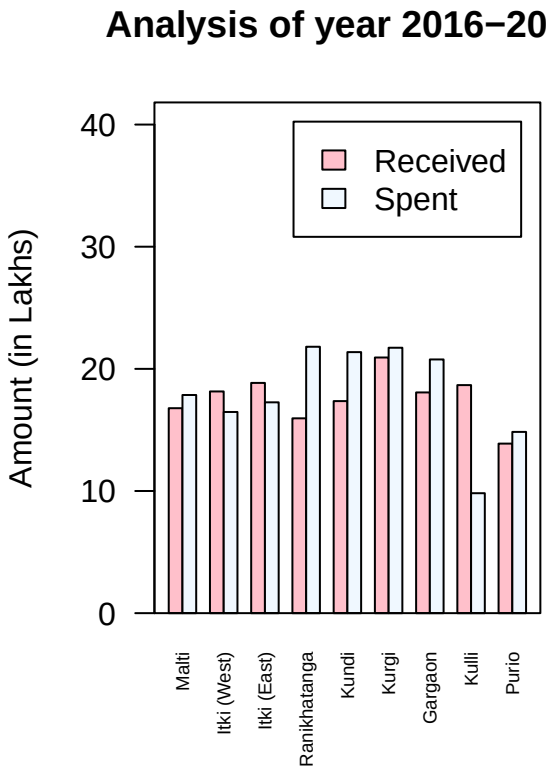



```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Yearwise Plots

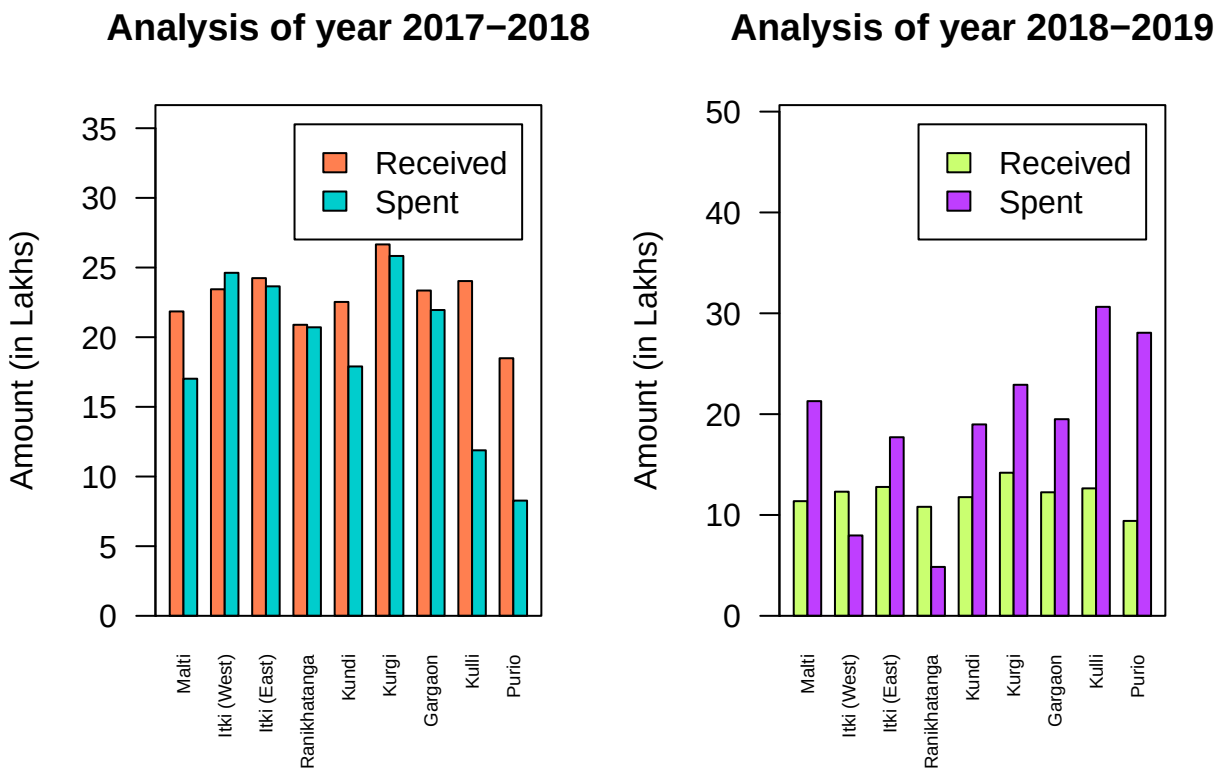
```
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[11])))/100000
receive=as.numeric(unlist(c(block[4])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("orange","green")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2015-2016',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)

pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[12])))/100000
receive=as.numeric(unlist(c(block[5])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("pink","aliceblue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2016-2017',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```






```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[13])))/100000
receive=(as.numeric(unlist(c(block[7])))+as.numeric(unlist(c(block[6]))))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("coral","cyan3")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,10+(max(c(receive,spent)))),
  col=cols,
  main ='Analysis of year 2017-2018',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6, #xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

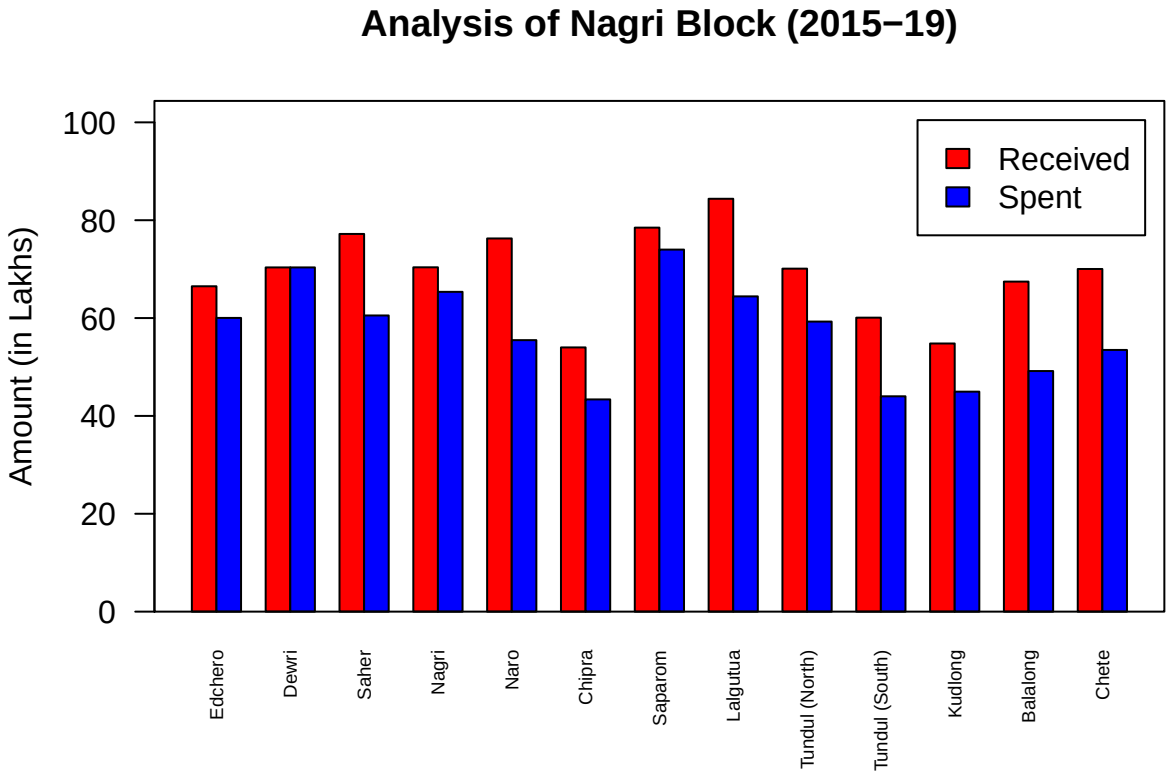
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Data Analysis of Nagri Block

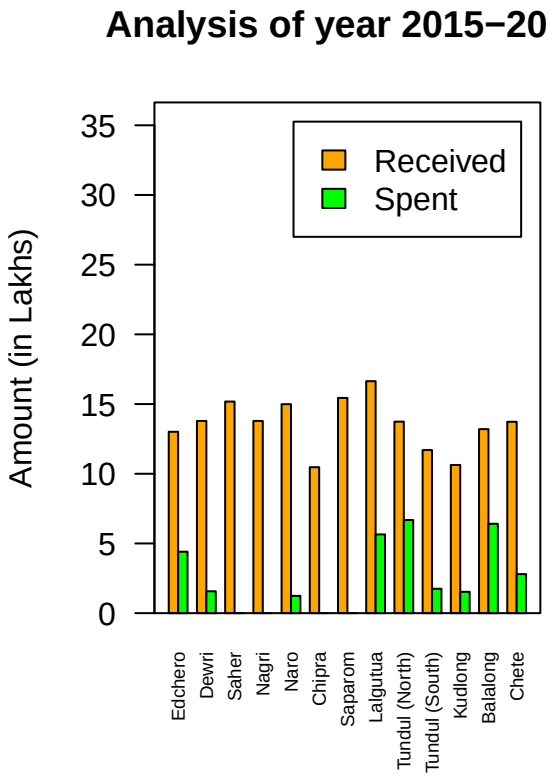
```
library(readxl)
block=read_excel("NAGRI.xlsx")
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[15])))/100000
receive=as.numeric(unlist(c(block[10])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("red","blue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of Nagri Block (2015-19)',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```

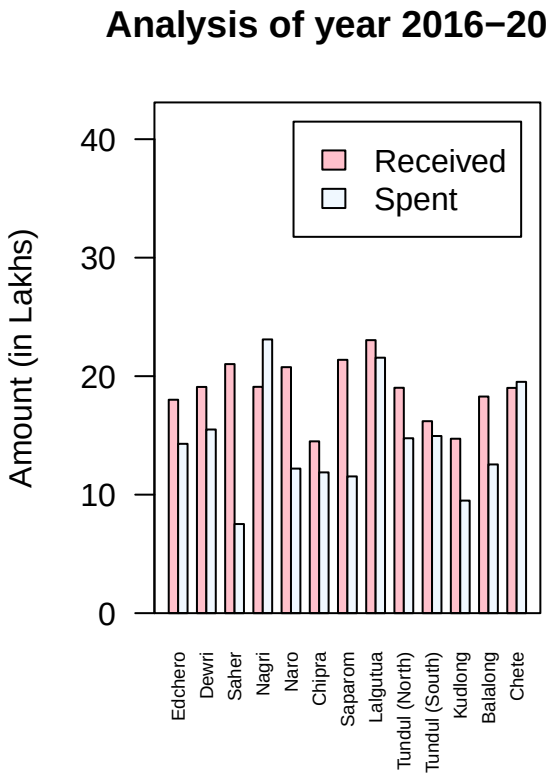



```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Yearwise Plots

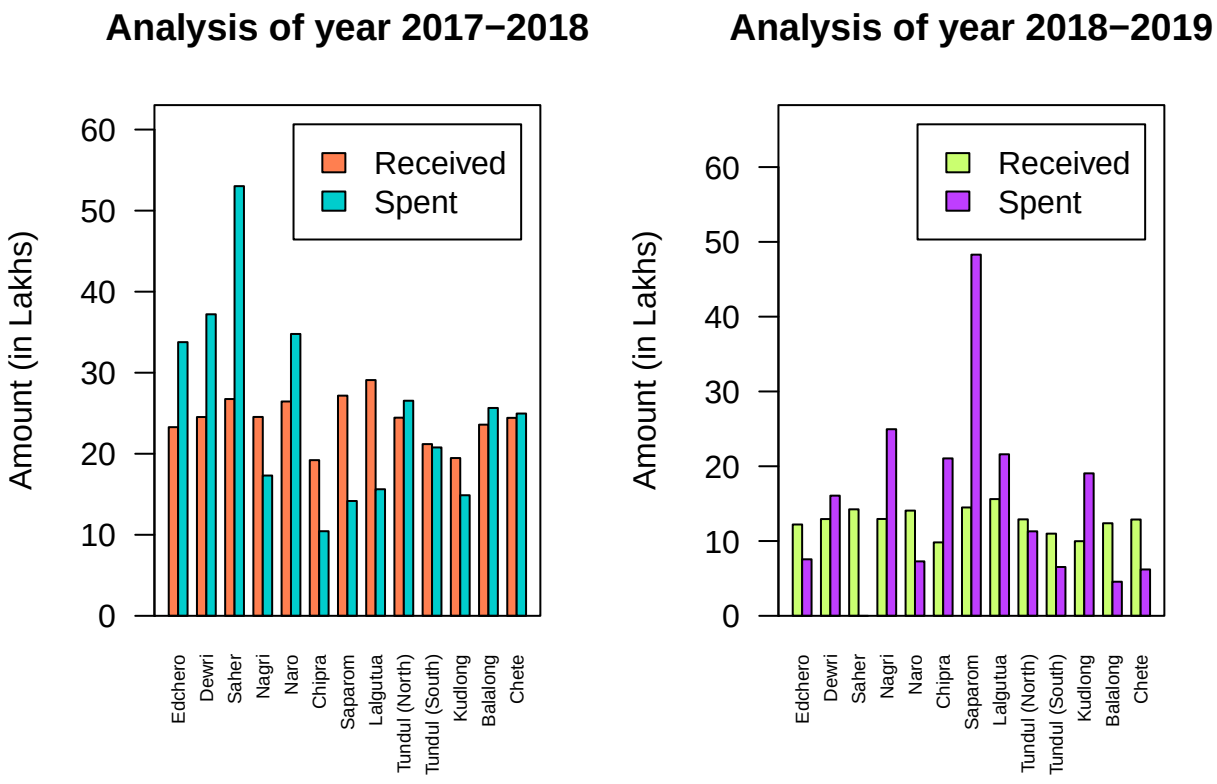
```
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[11])))/100000
receive=as.numeric(unlist(c(block[4])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("orange","green")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2015-2016',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)

pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[12])))/100000
receive=as.numeric(unlist(c(block[5])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("pink","aliceblue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2016-2017',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```






```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[13])))/100000
receive=(as.numeric(unlist(c(block[7])))+as.numeric(unlist(c(block[6]))))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("coral","cyan3")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,10+(max(c(receive,spent)))),
  col=cols,
  main ='Analysis of year 2017-2018',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6, #xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

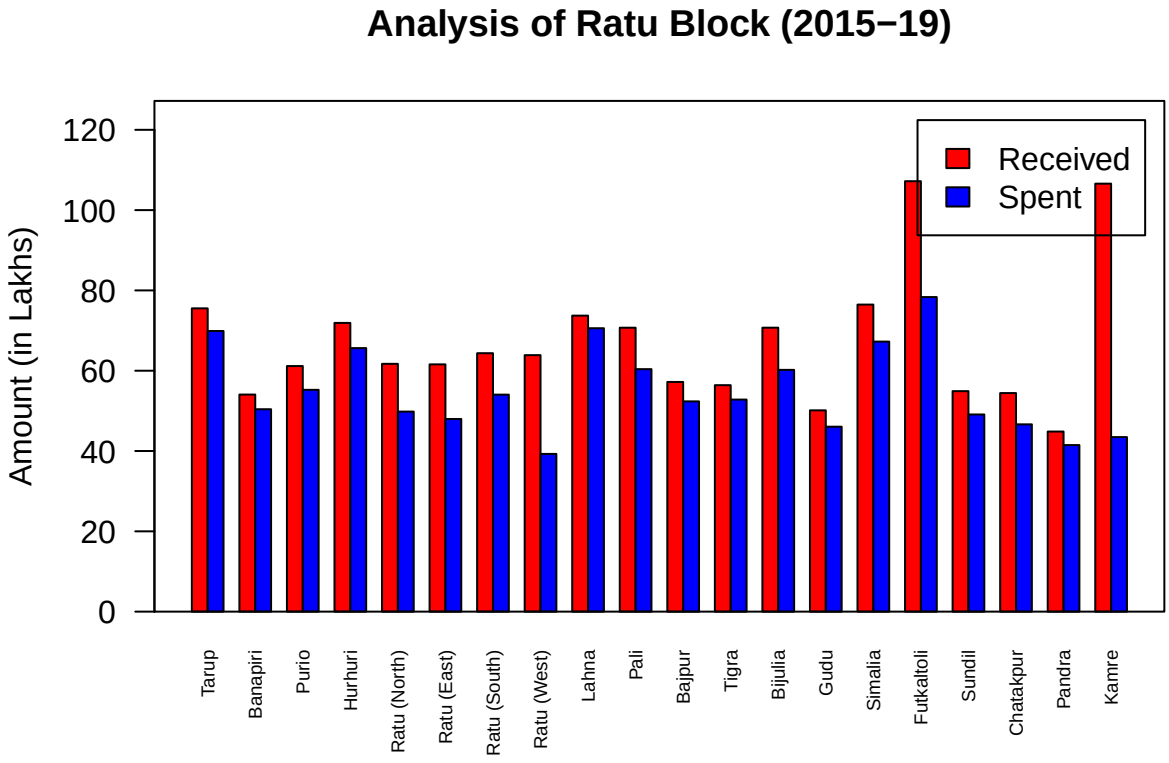
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Data Analysis of Ratu Block

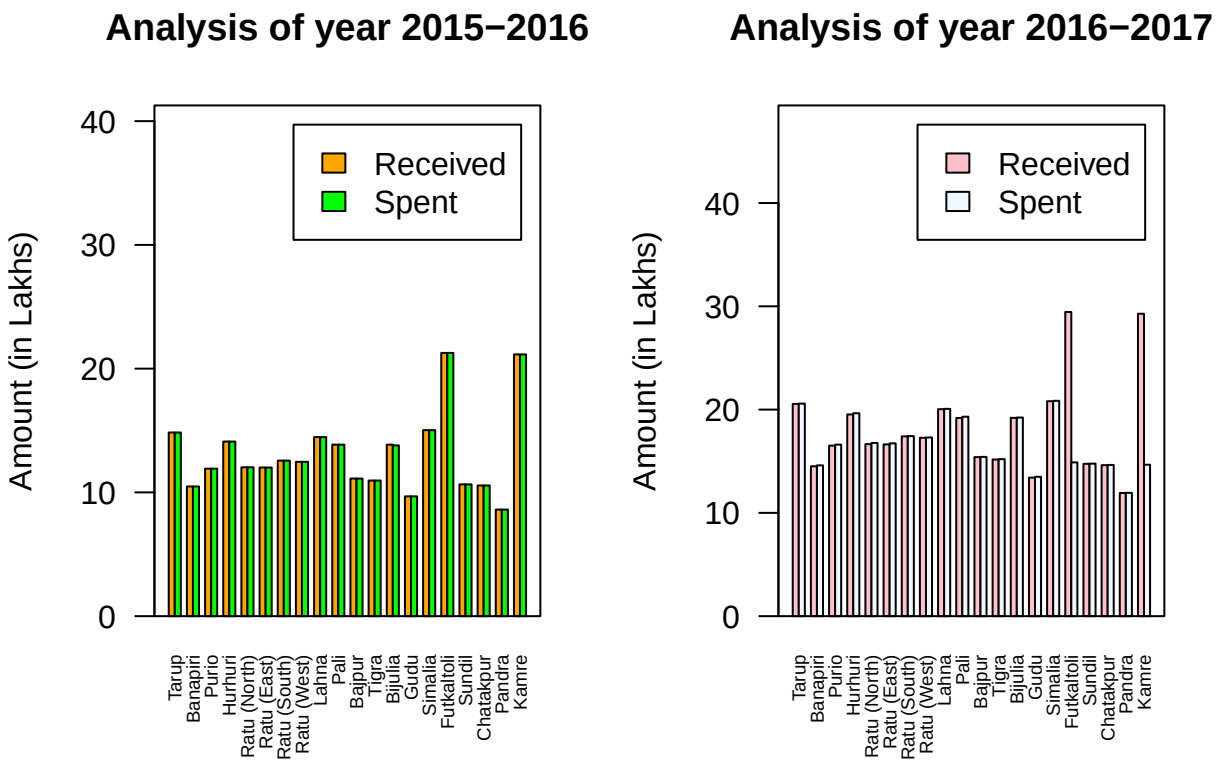
```
library(readxl)
block=read_excel("RATU.xlsx")
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[15])))/100000
receive=as.numeric(unlist(c(block[10])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("red","blue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of Ratu Block (2015-19)',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

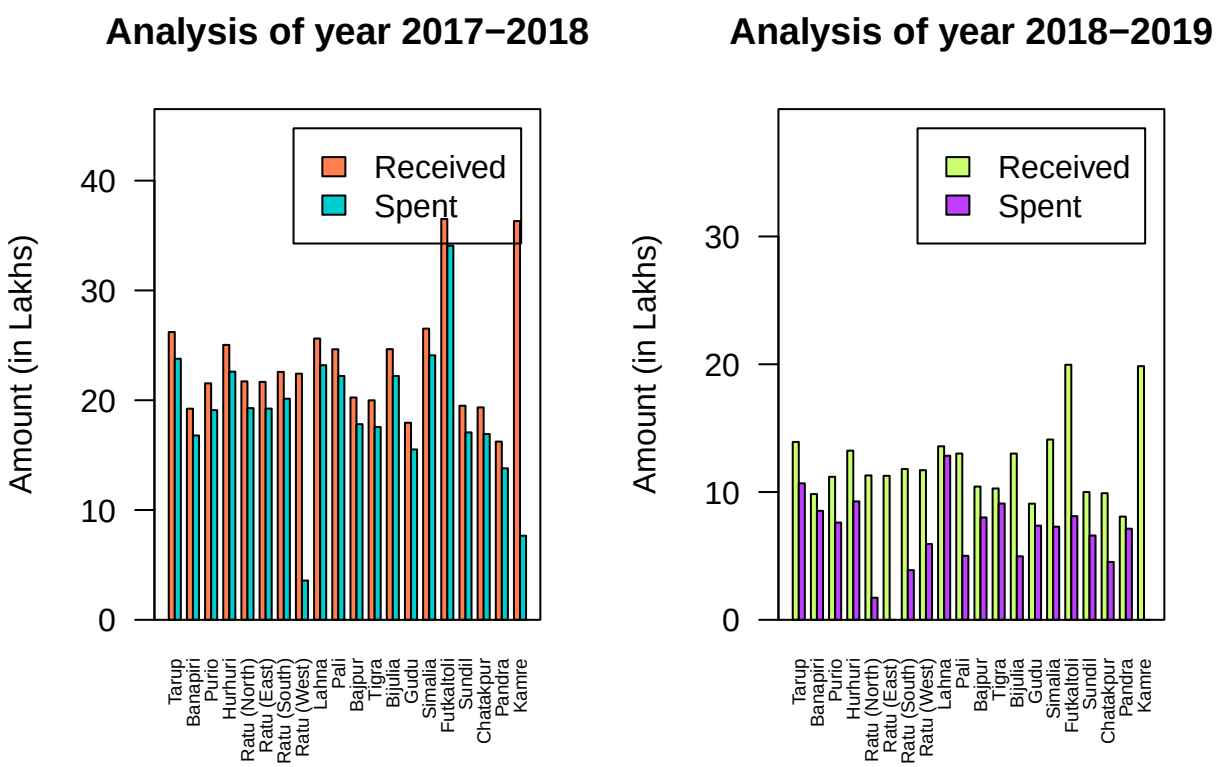
Yearwise Plots

```
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[11])))/100000
receive=as.numeric(unlist(c(block[4])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("orange","green")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2015-2016',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)


pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[12])))/100000
receive=as.numeric(unlist(c(block[5])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("pink","aliceblue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2016-2017',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[13])))/100000
receive=(as.numeric(unlist(c(block[7])))+as.numeric(unlist(c(block[6]))))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("coral","cyan3")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,10+(max(c(receive,spent)))),
  col=cols,
  main ='Analysis of year 2017-2018',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6, #xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

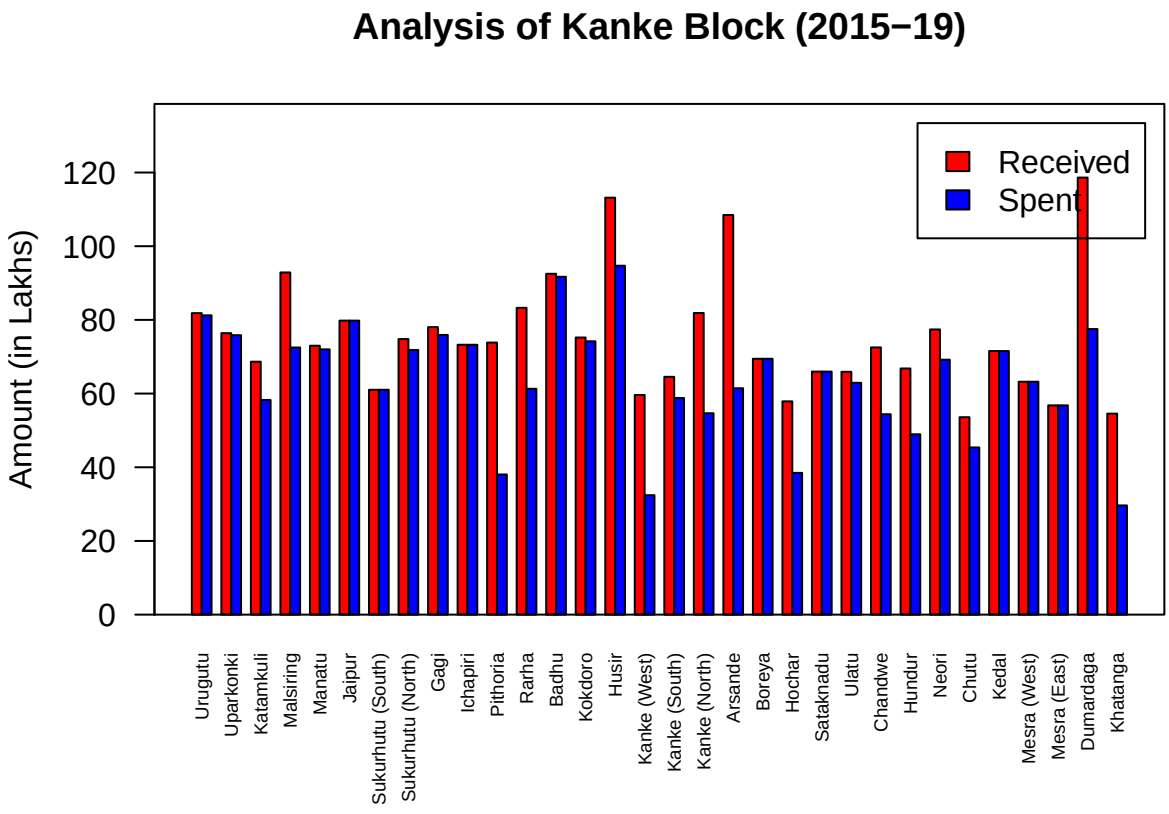
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Data Analysis of Kanke Block

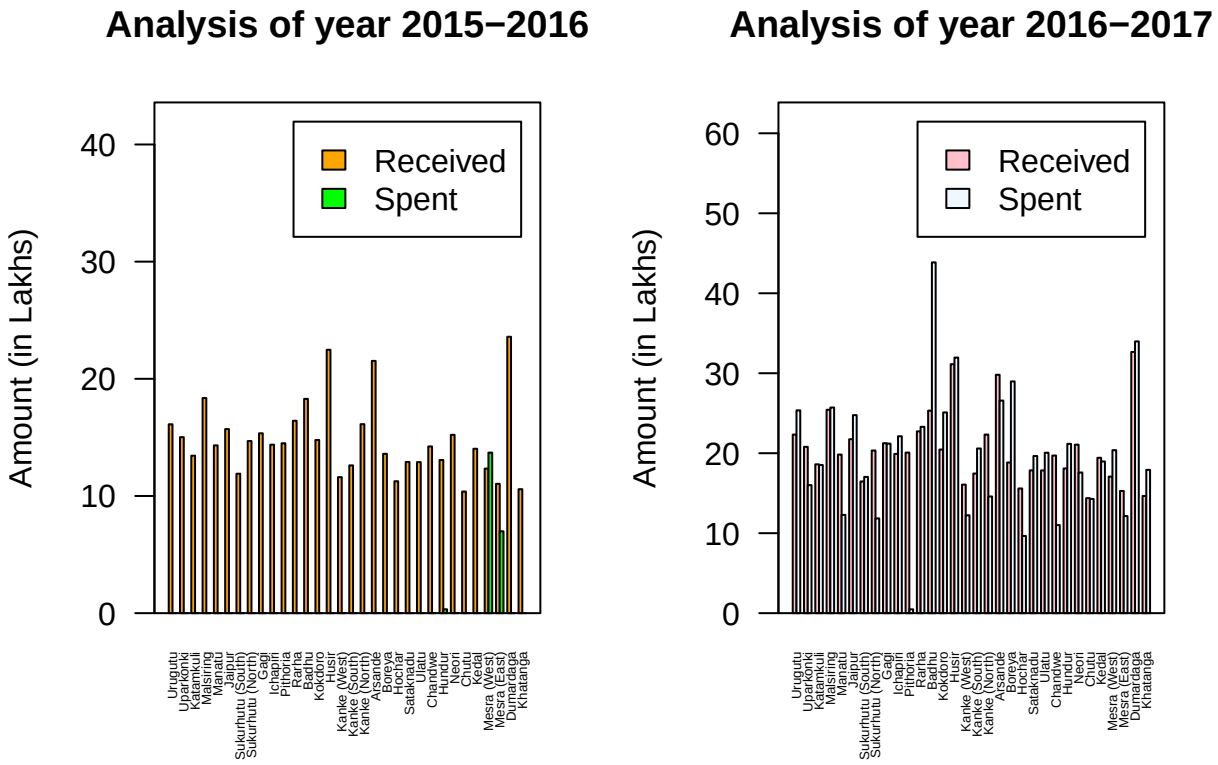
```
library(readxl)
block=read_excel("KANKE.xlsx")
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[15])))/100000
receive=as.numeric(unlist(c(block[10])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("red","blue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of Kanke Block (2015-19)',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

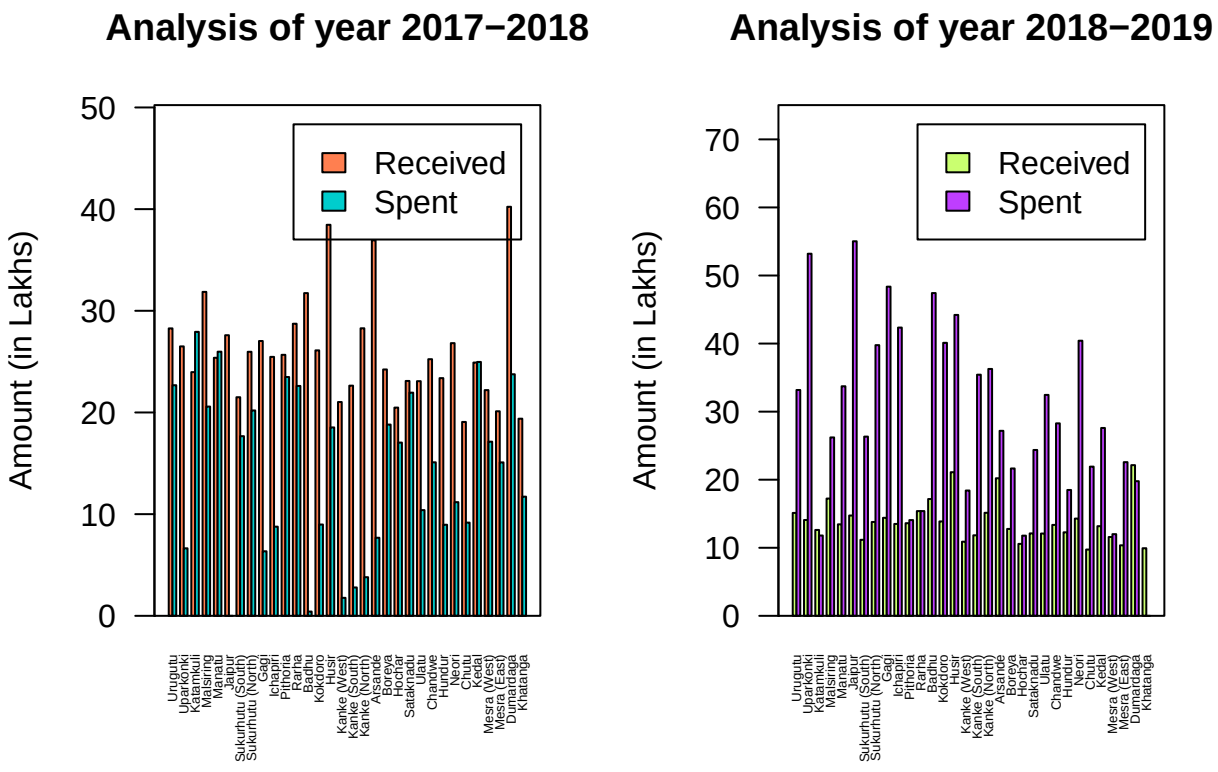
Yearwise Plots

```
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[11])))/100000
receive=as.numeric(unlist(c(block[4])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("orange","green")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2015-2016',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.4,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)

pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[12])))/100000
receive=as.numeric(unlist(c(block[5])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("pink","aliceblue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2016-2017',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.4,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[13])))/100000
receive=(as.numeric(unlist(c(block[7])))+as.numeric(unlist(c(block[6]))))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("coral","cyan3")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,10+(max(c(receive,spent)))),
  col=cols,
  main ='Analysis of year 2017-2018',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.4, #xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

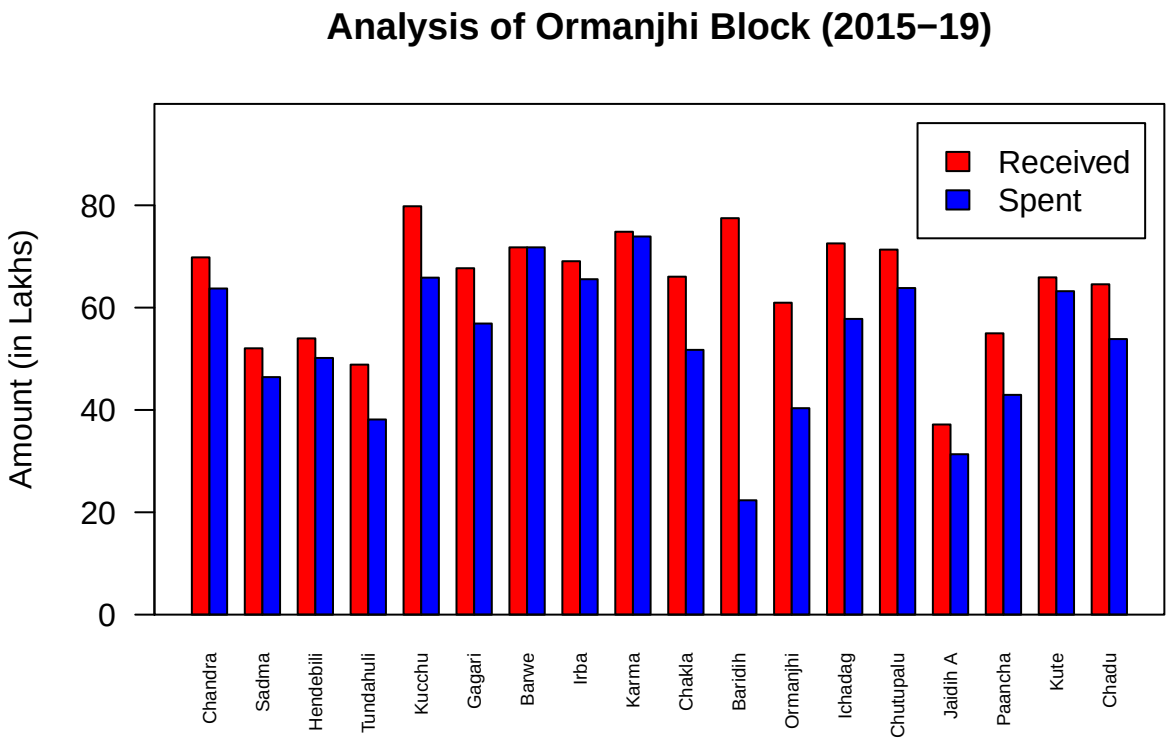
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.4,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Data Analysis of Ormanjhi Block

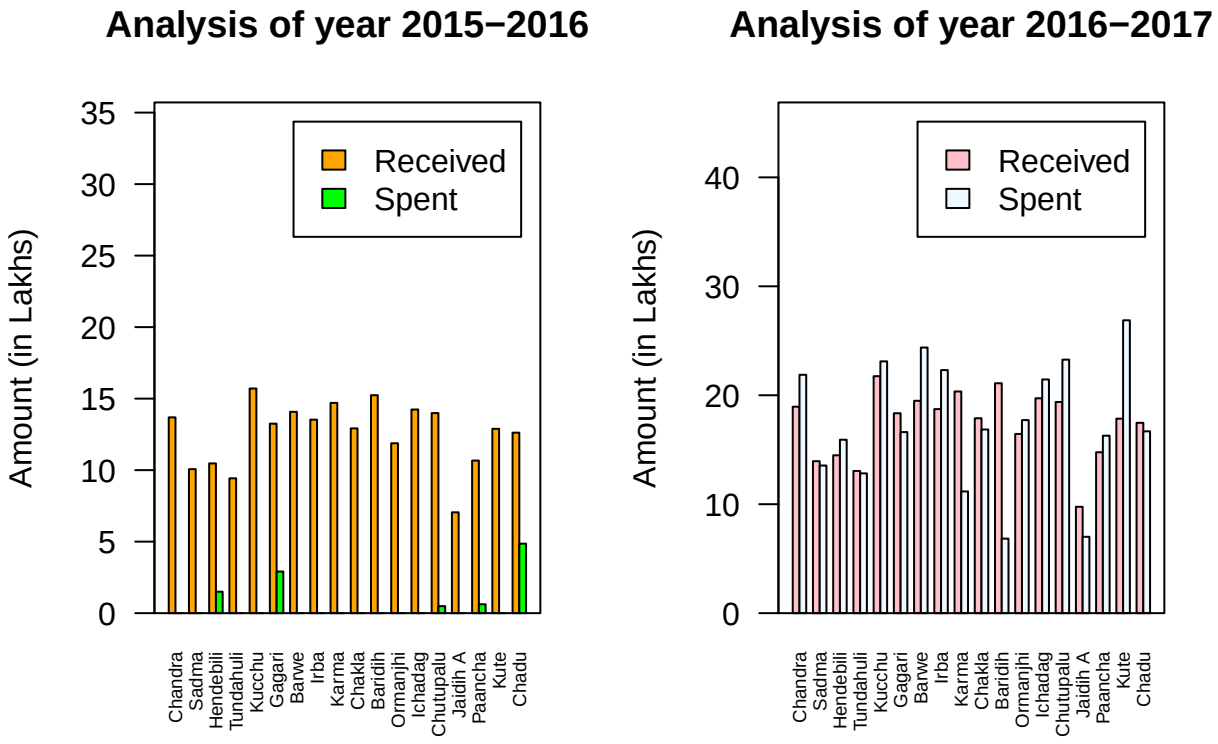
```
library(readxl)
block=read_excel("ORMANJHI.xlsx")
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[15])))/100000
receive=as.numeric(unlist(c(block[10])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("red","blue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of Ormanjhi Block (2015-19)',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

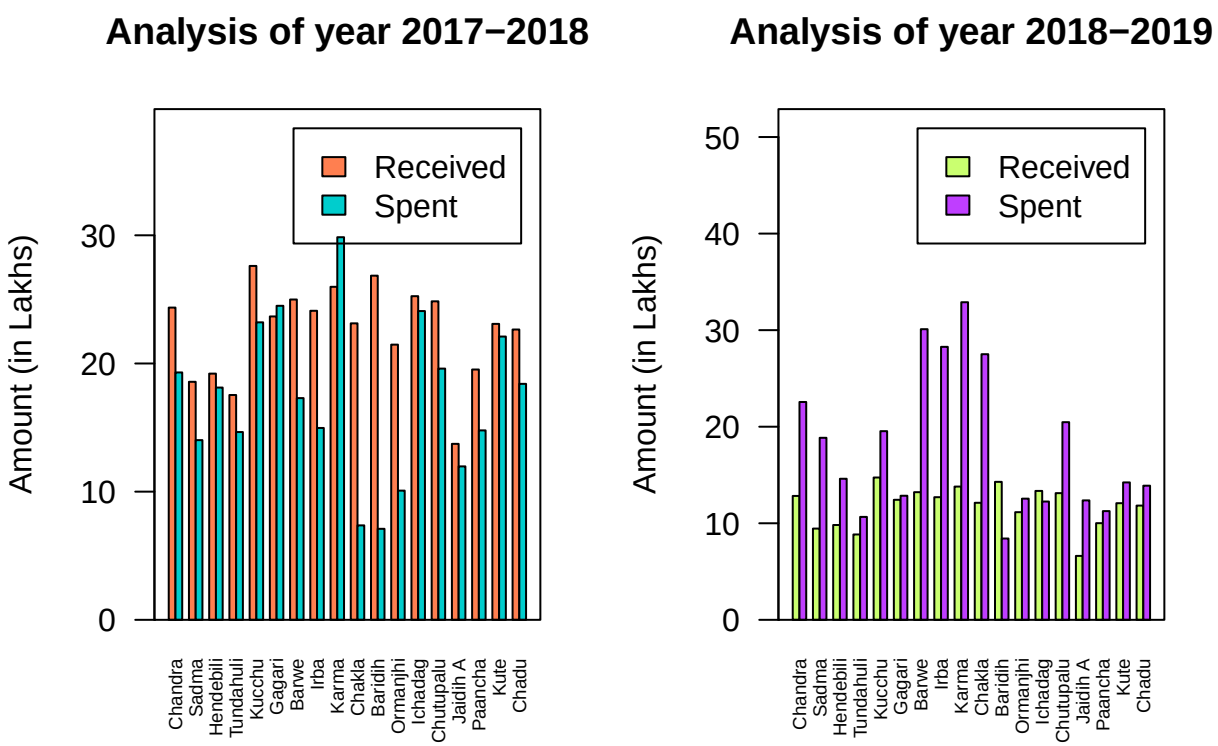
Yearwise Plots

```
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[11])))/100000
receive=as.numeric(unlist(c(block[4])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("orange","green")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2015-2016',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)

pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[12])))/100000
receive=as.numeric(unlist(c(block[5])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("pink","aliceblue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2016-2017',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[13])))/100000
receive=(as.numeric(unlist(c(block[7])))+as.numeric(unlist(c(block[6]))))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("coral","cyan3")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,10+(max(c(receive,spent)))),
  col=cols,
  main ='Analysis of year 2017-2018',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6, #xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

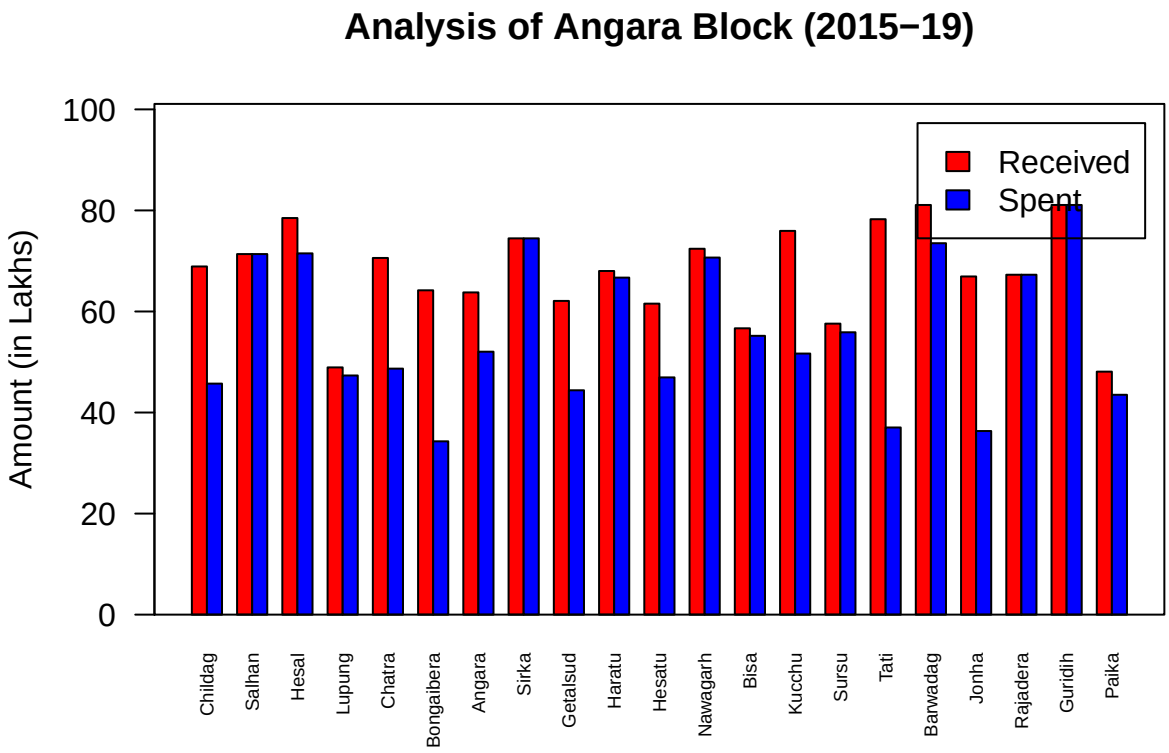
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Data Analysis of Angara Block

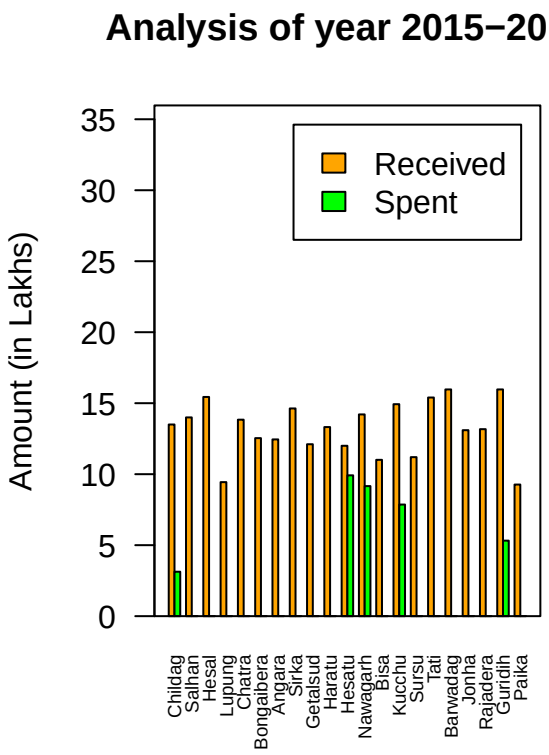
```
library(readxl)
block=read_excel("ANGARA.xlsx")
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[15])))/100000
receive=as.numeric(unlist(c(block[10])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("red","blue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of Angara Block (2015-19)',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```

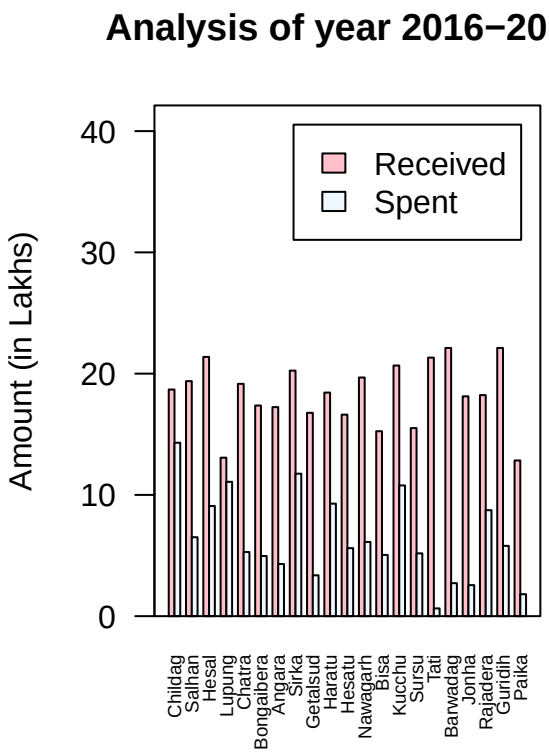



```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Yearwise Plots

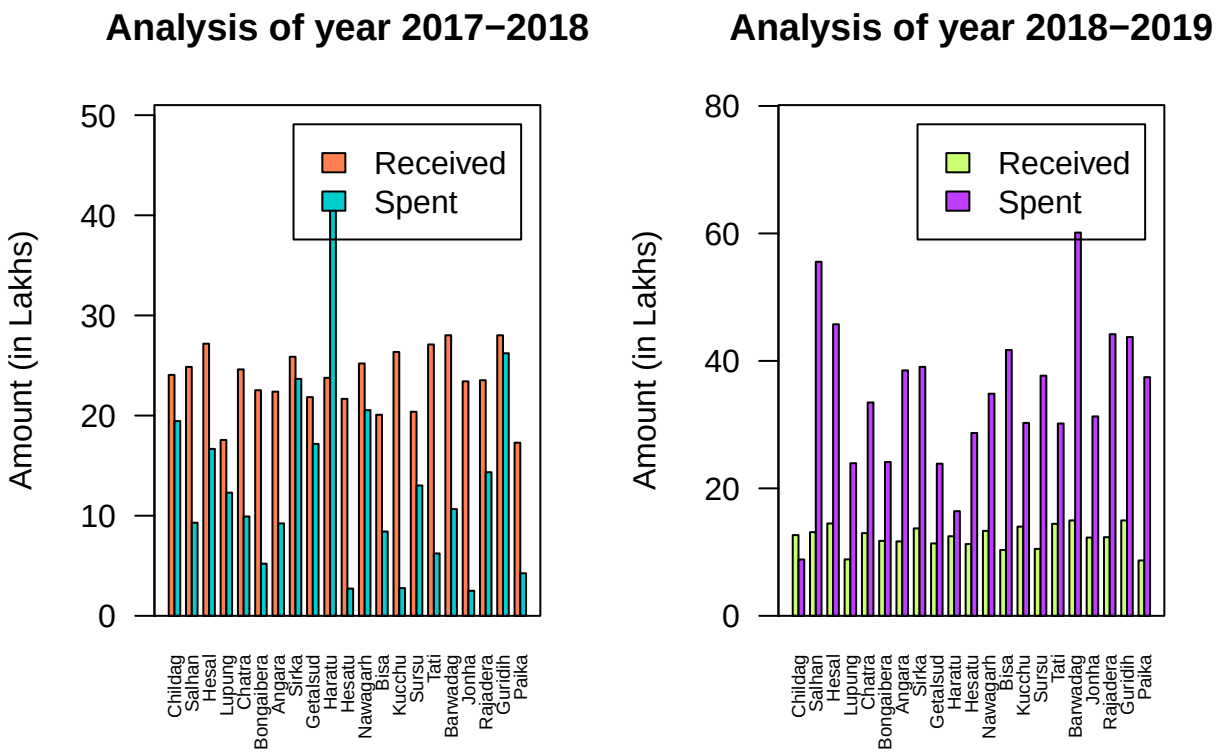
```
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[11])))/100000
receive=as.numeric(unlist(c(block[4])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("orange","green")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2015-2016',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)


pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[12])))/100000
receive=as.numeric(unlist(c(block[5])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("pink","aliceblue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2016-2017',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```






```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[13])))/100000
receive=(as.numeric(unlist(c(block[7])))+as.numeric(unlist(c(block[6]))))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("coral","cyan3")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,10+(max(c(receive,spent)))),
  col=cols,
  main ='Analysis of year 2017-2018',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6, #xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

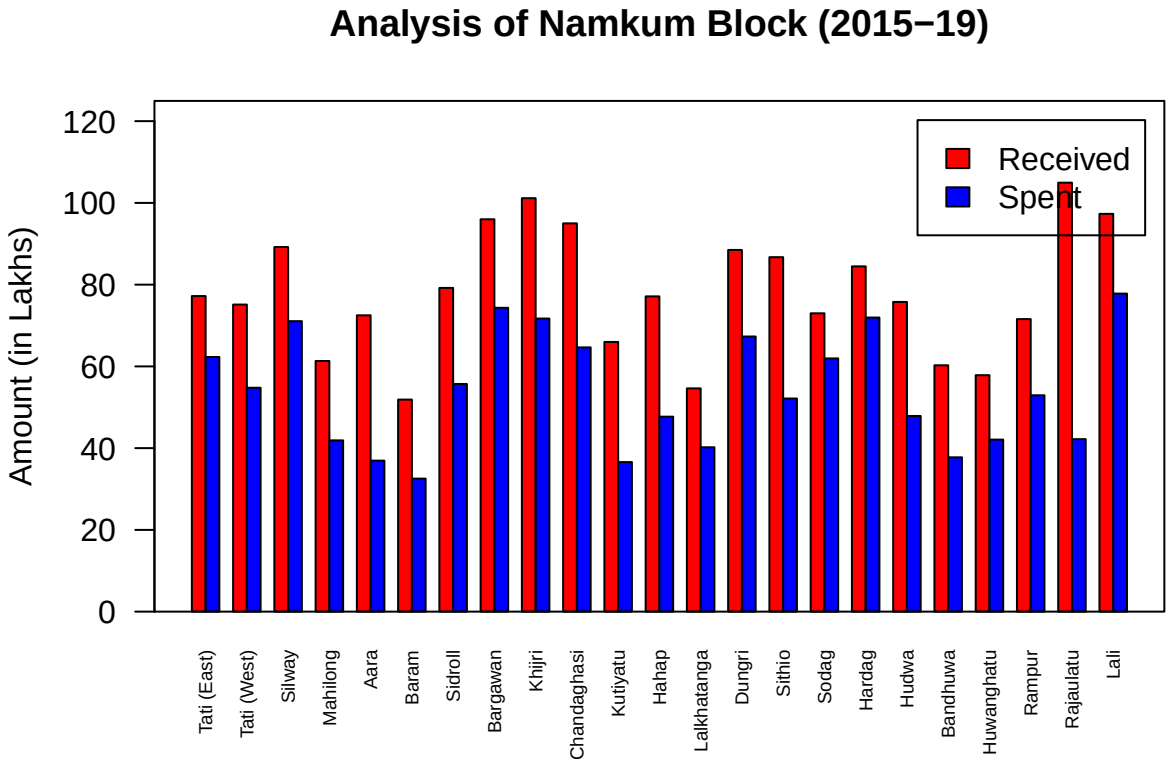
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Data Analysis of Namkum Block

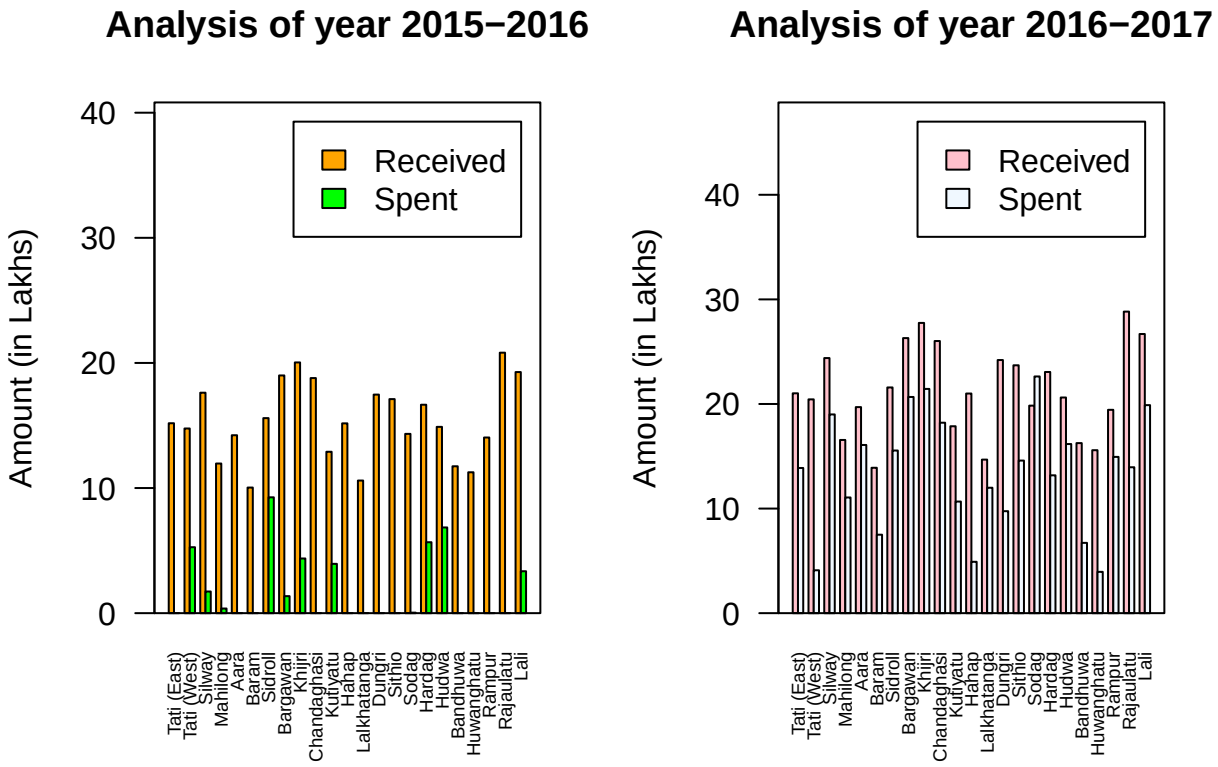
```
library(readxl)
block=read_excel("NAMKUM.xlsx")
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[15])))/100000
receive=as.numeric(unlist(c(block[10])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("red","blue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of Namkum Block (2015-19)',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

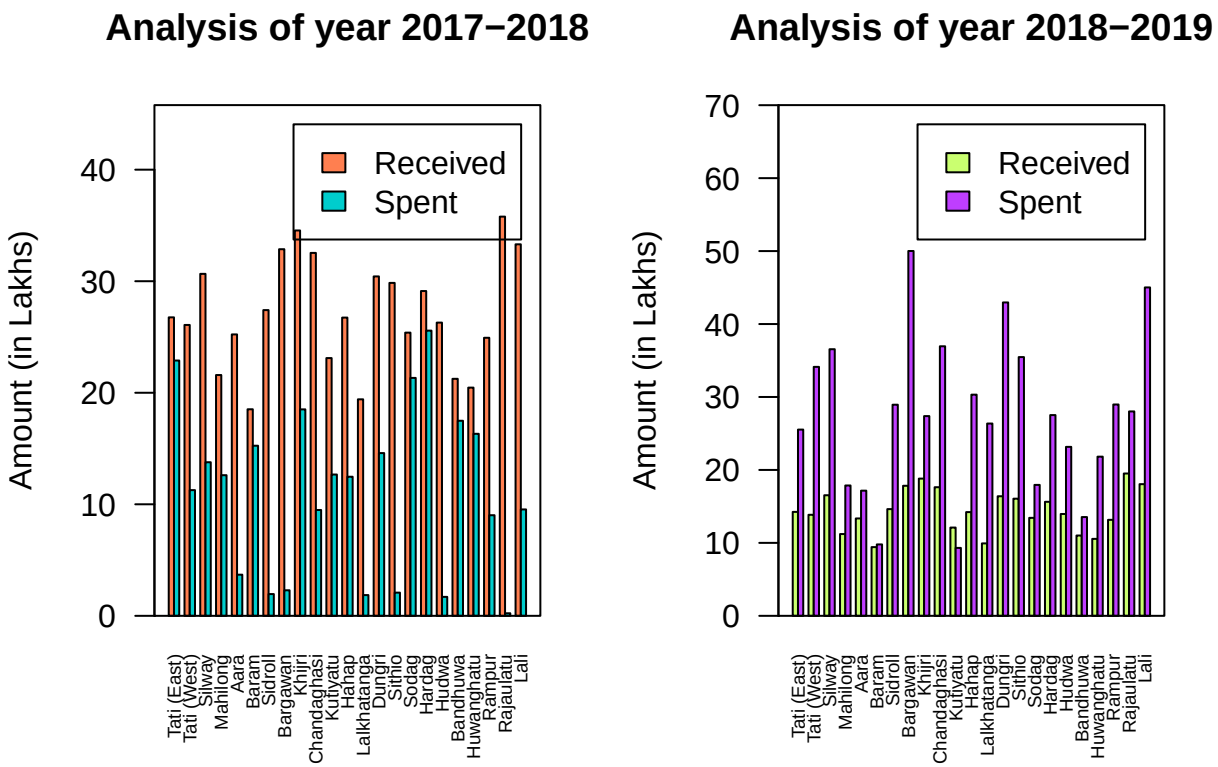
Yearwise Plots

```
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[11])))/100000
receive=as.numeric(unlist(c(block[4])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("orange","green")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2015-2016',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)


pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[12])))/100000
receive=as.numeric(unlist(c(block[5])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("pink","aliceblue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2016-2017',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[13])))/100000
receive=(as.numeric(unlist(c(block[7])))+as.numeric(unlist(c(block[6]))))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("coral","cyan3")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,10+(max(c(receive,spent)))),
  col=cols,
  main ='Analysis of year 2017-2018',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6, #xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

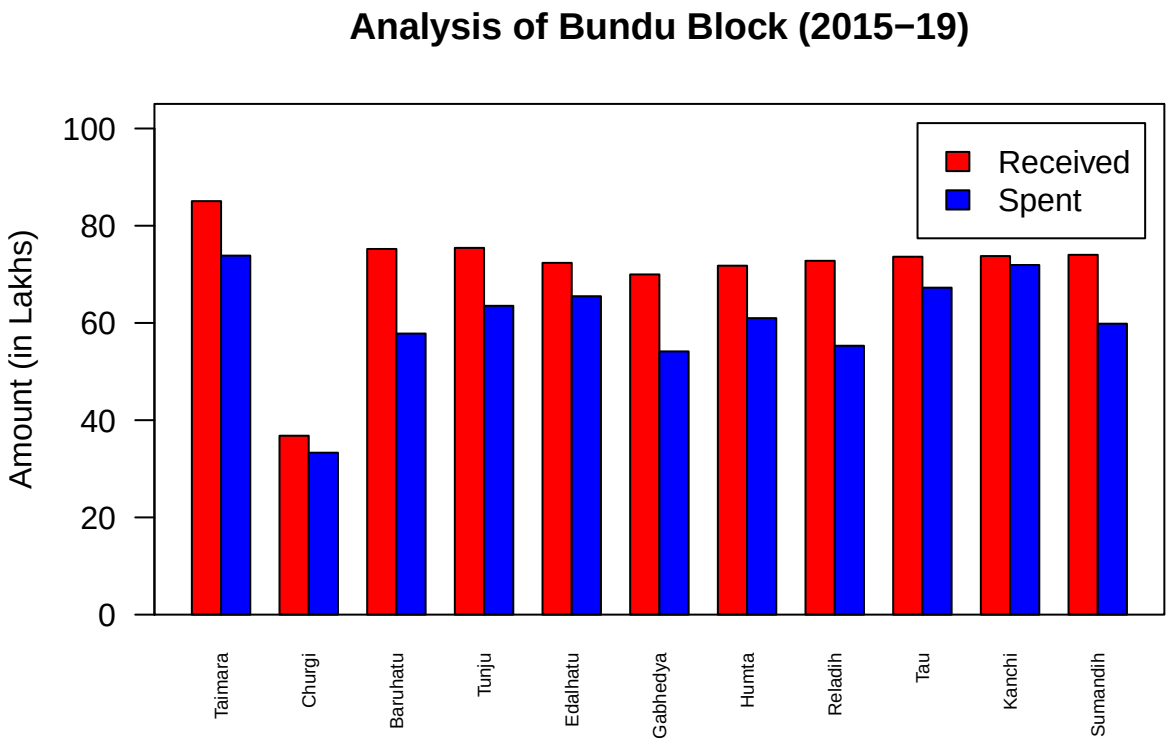
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Data Analysis of Bundu Block

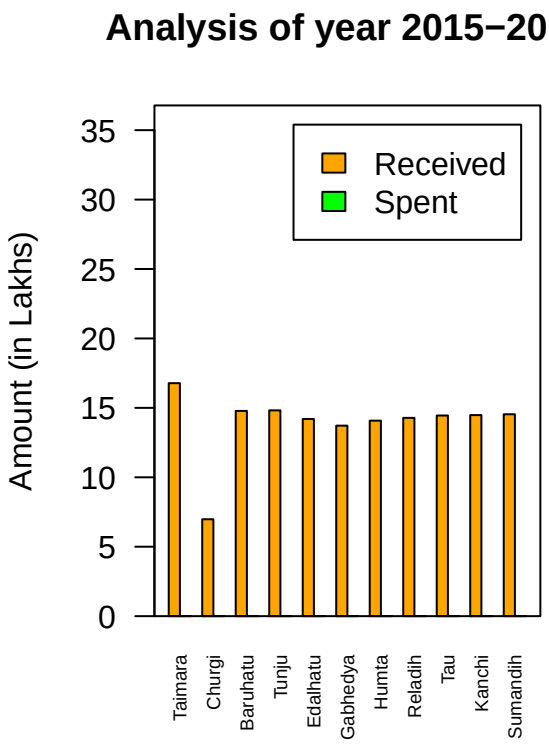
```
library(readxl)
block=read_excel("BUNDU.xlsx")
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[15])))/100000
receive=as.numeric(unlist(c(block[10])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("red","blue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of Bundu Block (2015-19)',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```

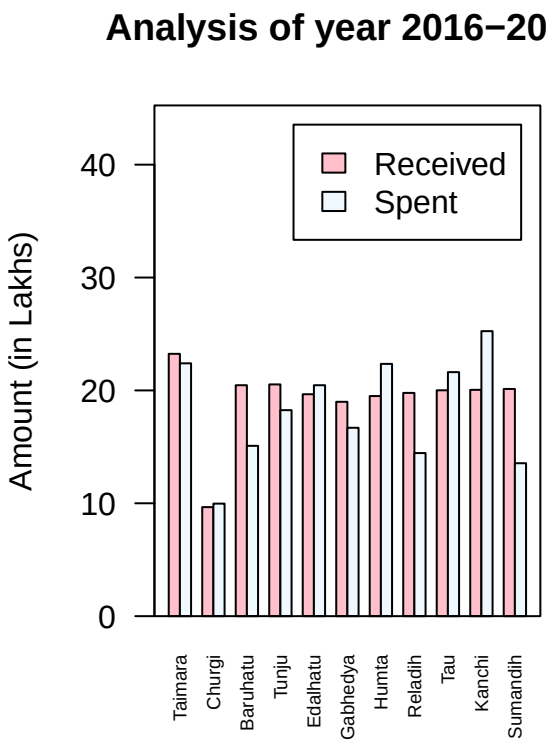



```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Yearwise Plots

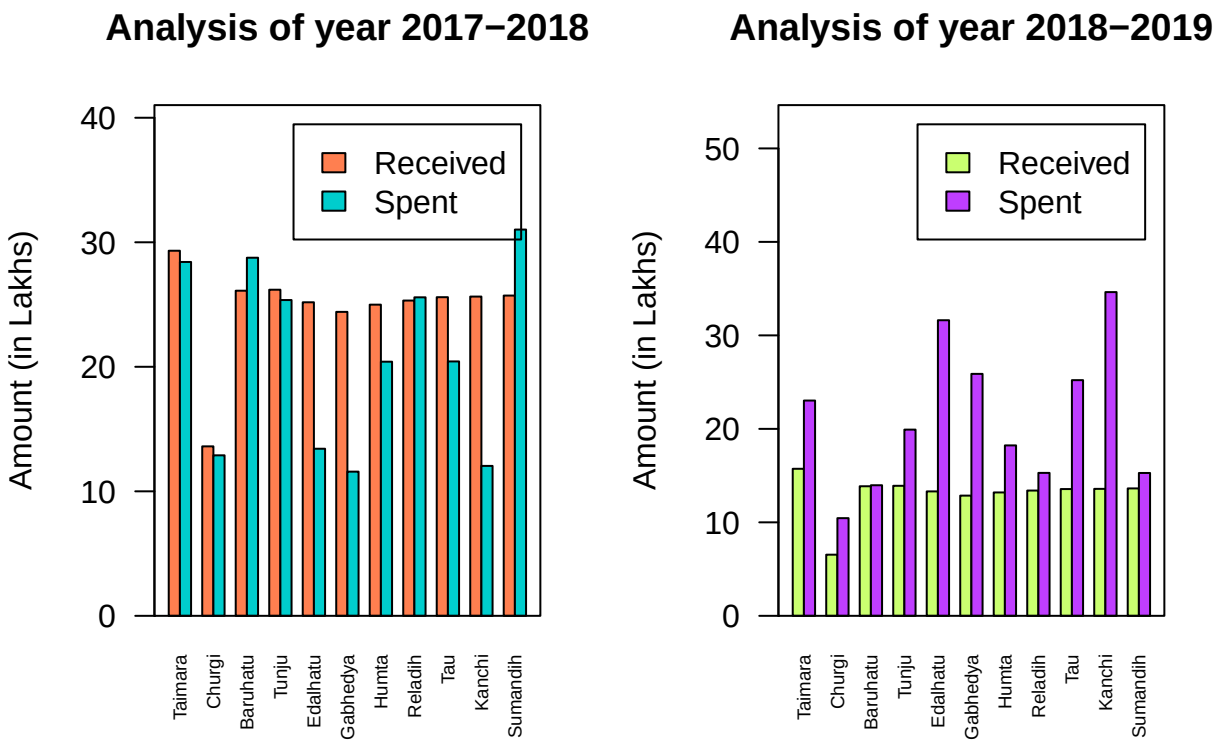
```
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[11])))/100000
receive=as.numeric(unlist(c(block[4])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("orange","green")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2015-2016',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)

pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[12])))/100000
receive=as.numeric(unlist(c(block[5])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("pink","aliceblue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2016-2017',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```






```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[13])))/100000
receive=(as.numeric(unlist(c(block[7])))+as.numeric(unlist(c(block[6]))))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("coral","cyan3")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,10+(max(c(receive,spent)))),
  col=cols,
  main ='Analysis of year 2017-2018',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6, #xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

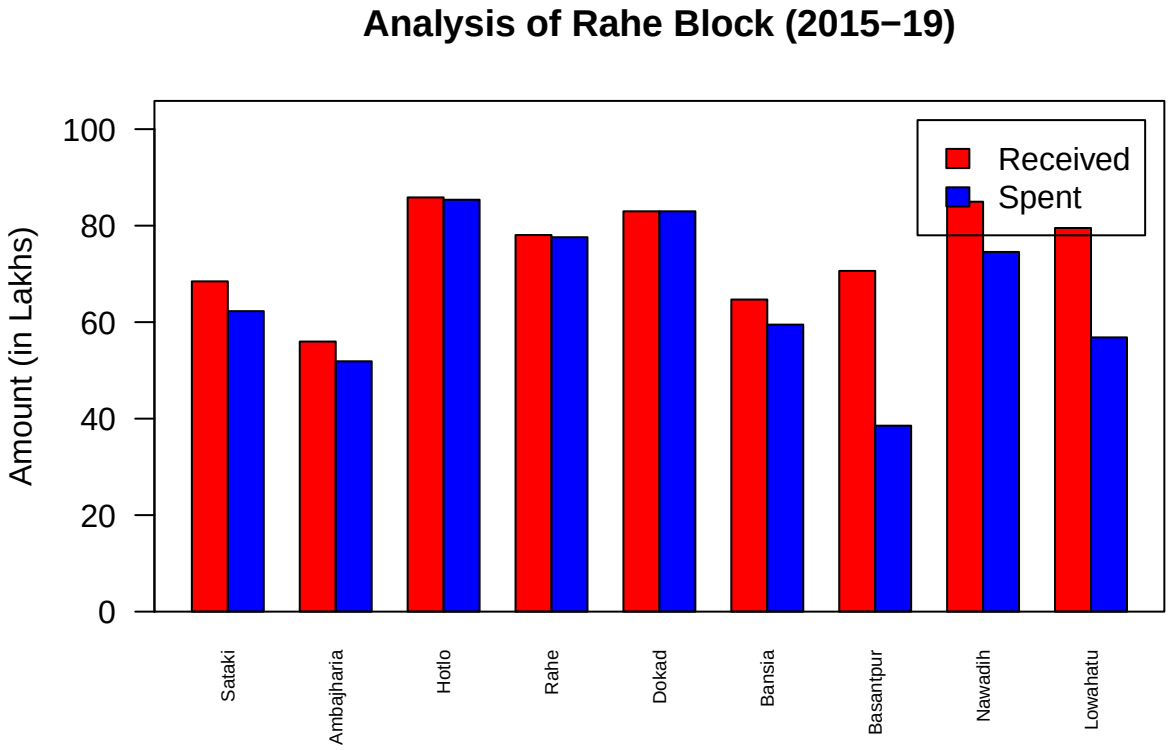
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Data Analysis of Rahe Block

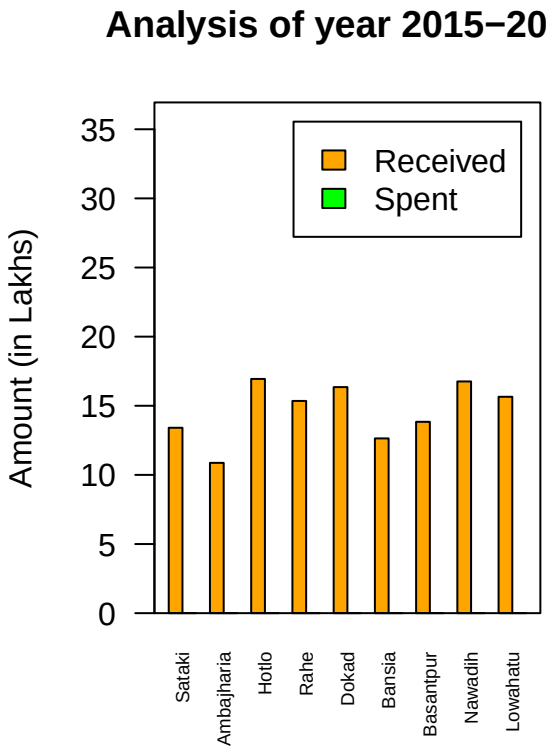
```
library(readxl)
block=read_excel("RAHE.xlsx")
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[15])))/100000
receive=as.numeric(unlist(c(block[10])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("red","blue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of Rahe Block (2015-19)',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```

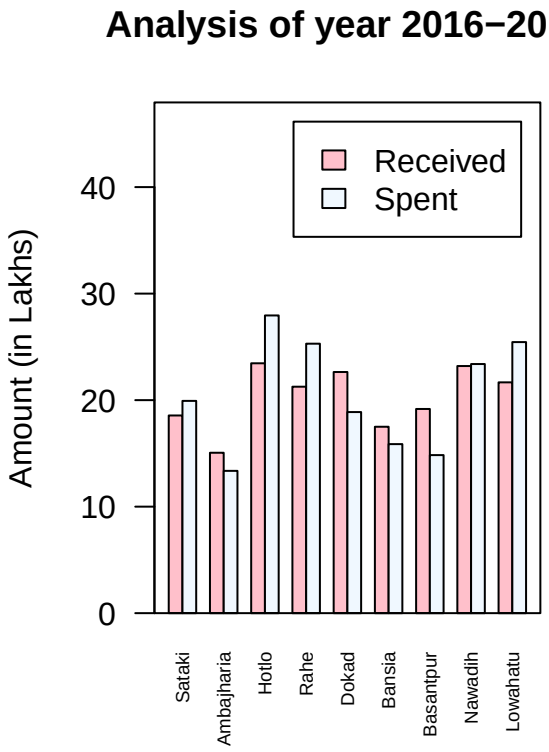



```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Yearwise Plots

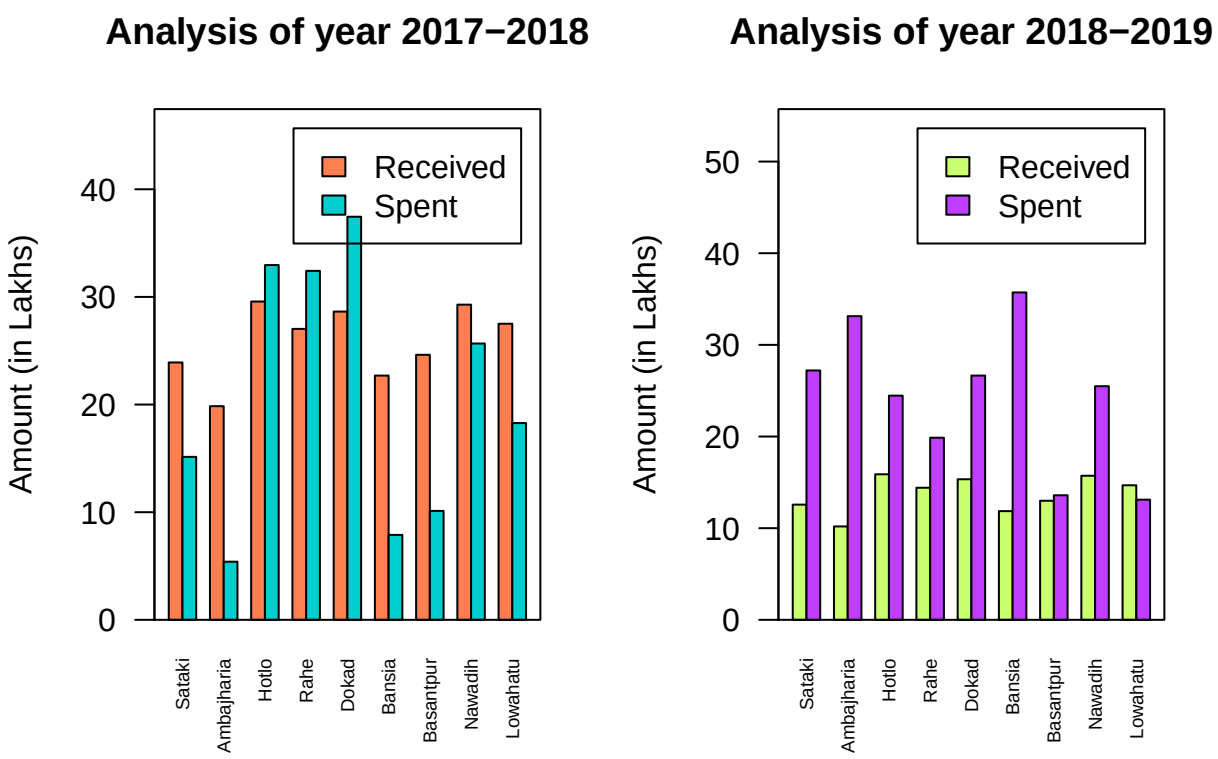
```
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[11])))/100000
receive=as.numeric(unlist(c(block[4])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("orange","green")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2015-2016',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)


pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[12])))/100000
receive=as.numeric(unlist(c(block[5])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("pink","aliceblue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2016-2017',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```






```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[13])))/100000
receive=(as.numeric(unlist(c(block[7])))+as.numeric(unlist(c(block[6]))))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("coral","cyan3")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,10+(max(c(receive,spent)))),
  col=cols,
  main ='Analysis of year 2017-2018',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6, #xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

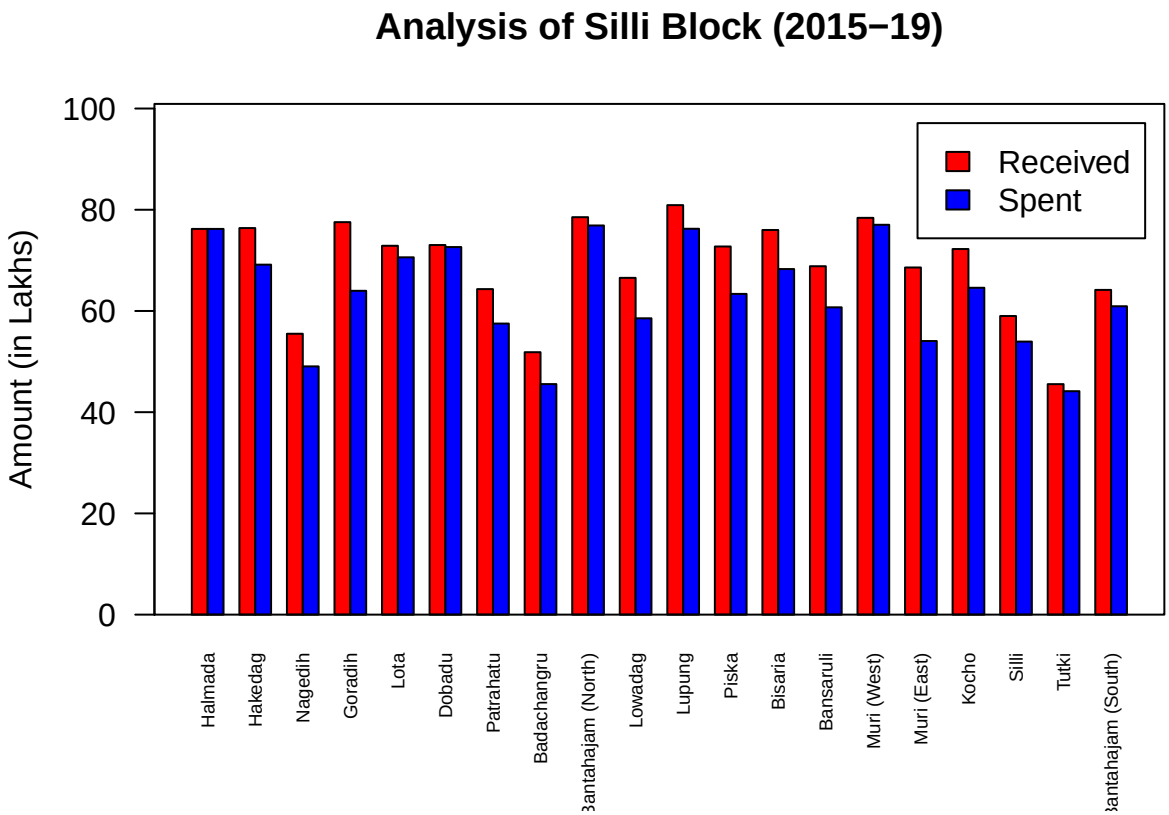
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Data Analysis of Silli Block

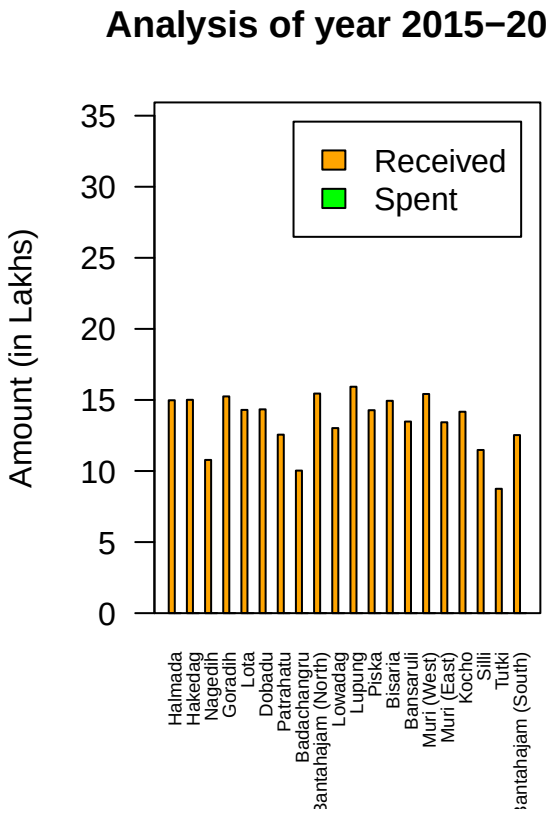
```
library(readxl)
block=read_excel("SILLI.xlsx")
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[15])))/100000
receive=as.numeric(unlist(c(block[10])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("red","blue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of Silli Block (2015-19)',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```

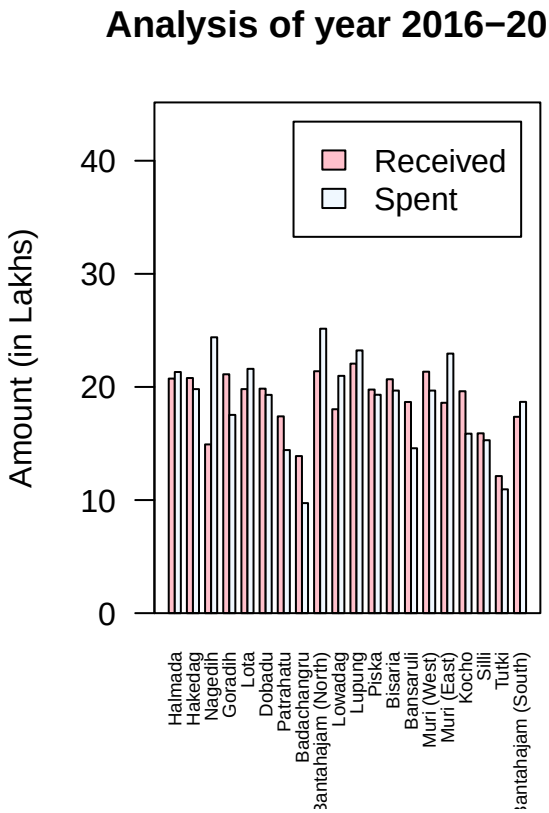



```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Yearwise Plots

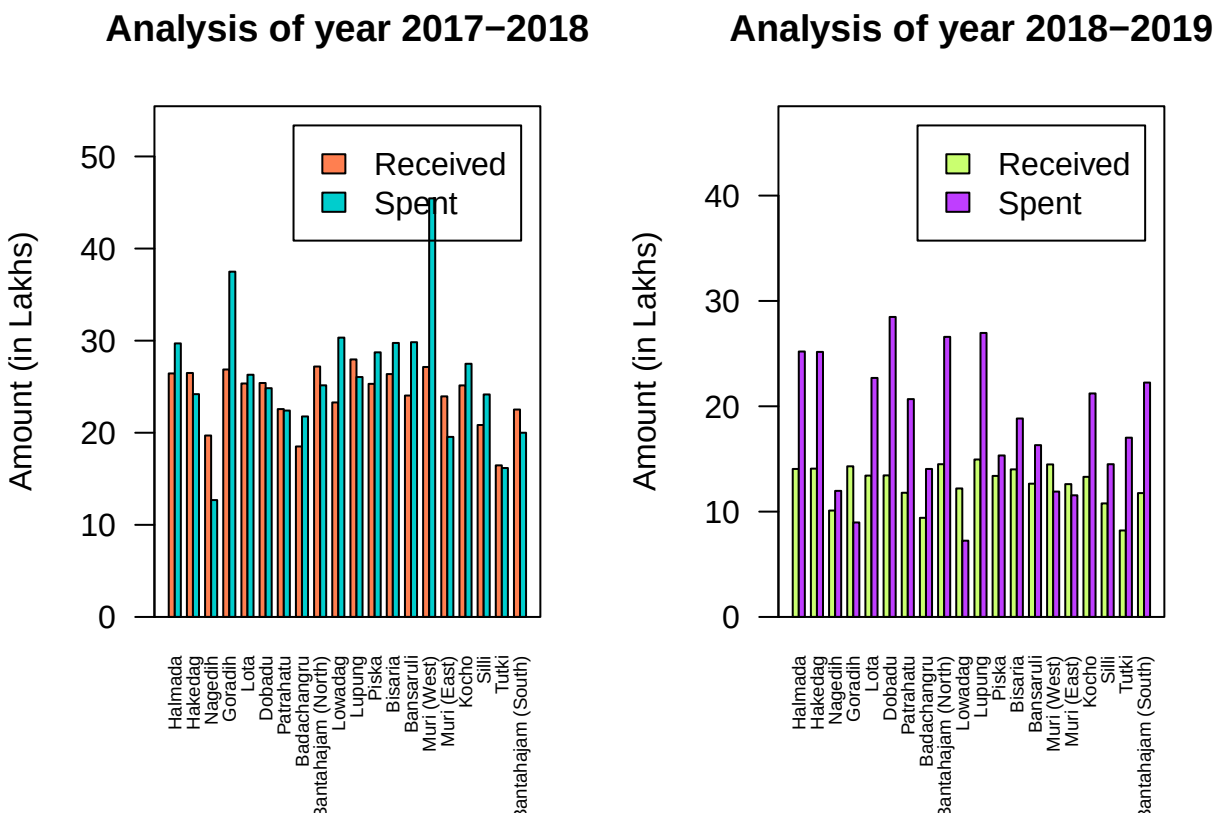
```
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[11])))/100000
receive=as.numeric(unlist(c(block[4])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("orange","green")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2015-2016',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)

pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[12])))/100000
receive=as.numeric(unlist(c(block[5])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("pink","aliceblue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2016-2017',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```






```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[13])))/100000
receive=(as.numeric(unlist(c(block[7])))+as.numeric(unlist(c(block[6]))))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("coral","cyan3")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,10+(max(c(receive,spent)))),
  col=cols,
  main ='Analysis of year 2017-2018',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6, #xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)

pnchyt=c((block[3]))
```

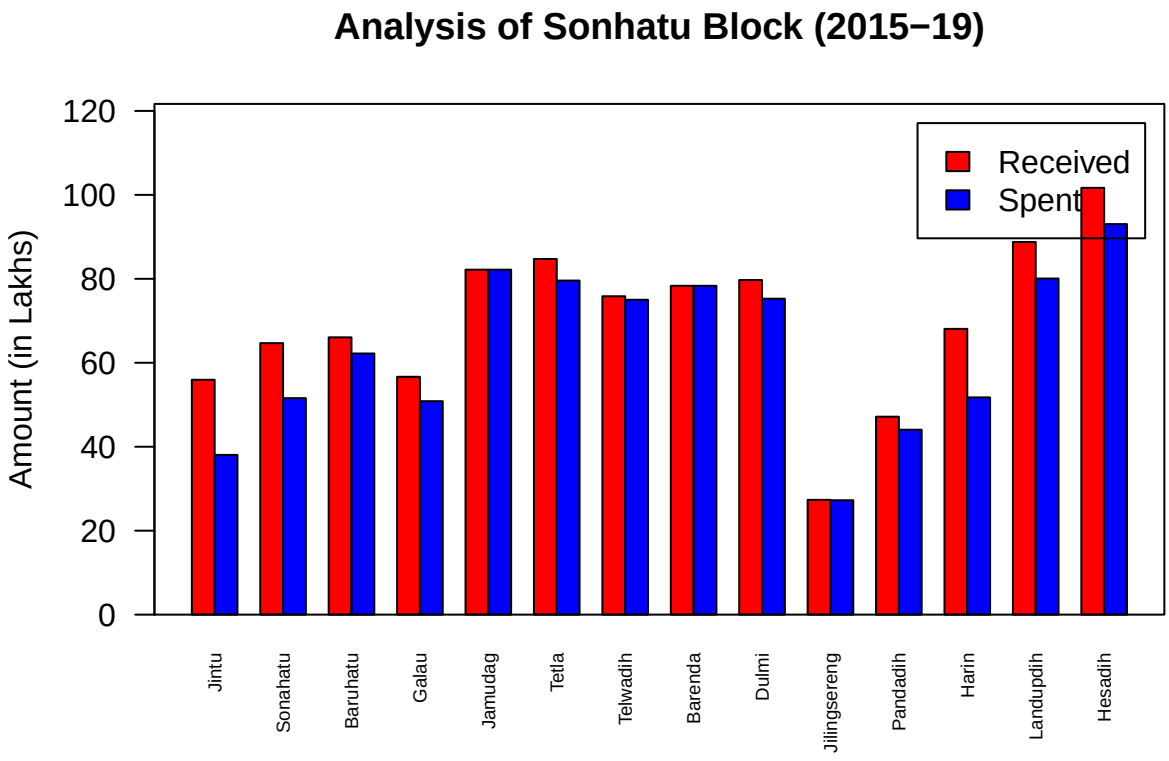
```
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Data Analysis of Sonahatu Block

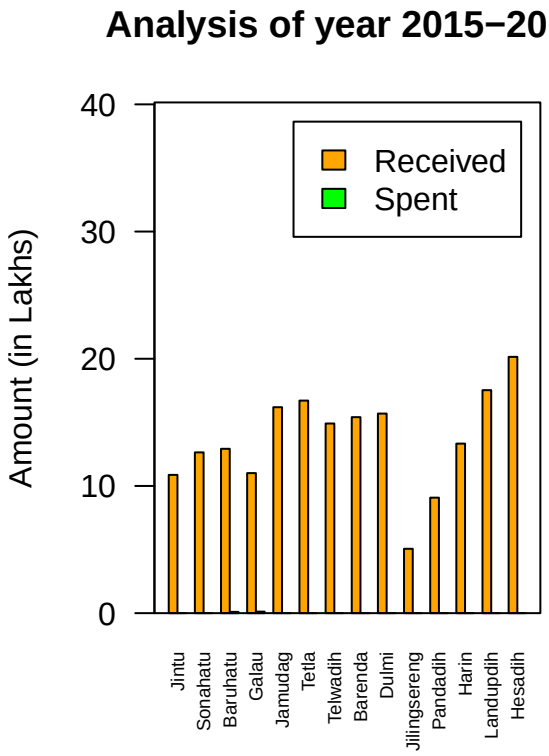
```
library(readxl)
block=read_excel("SONAHATU.xlsx")
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[15])))/100000
receive=as.numeric(unlist(c(block[10])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("red","blue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of Sonhatu Block (2015-19)',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```

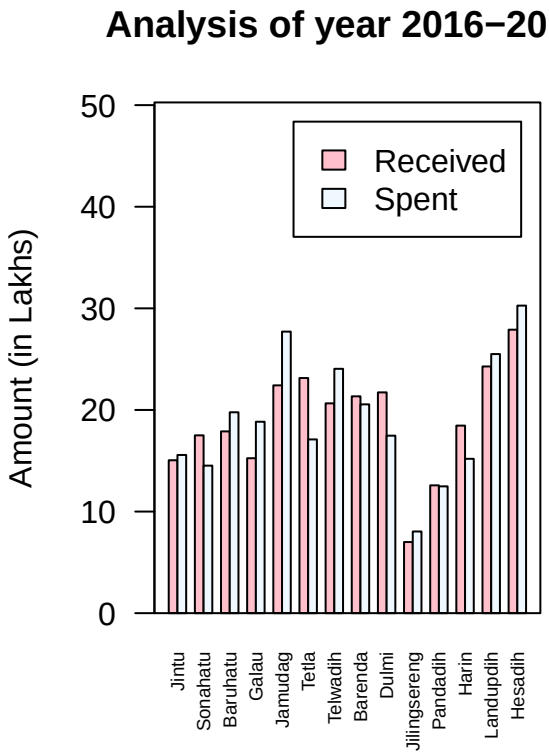



```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Yearwise Plots

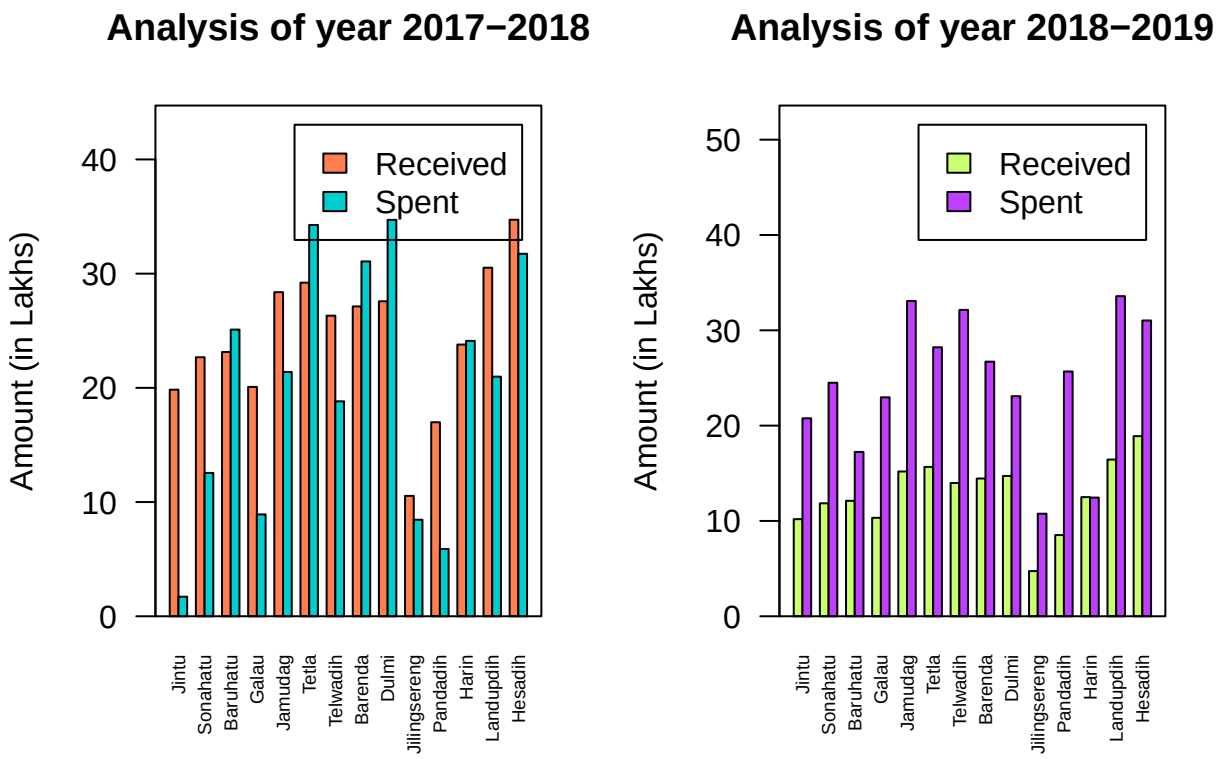
```
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[11])))/100000
receive=as.numeric(unlist(c(block[4])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("orange","green")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2015-2016',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)


pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[12])))/100000
receive=as.numeric(unlist(c(block[5])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("pink","aliceblue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2016-2017',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```






```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)

par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[13])))/100000
receive=(as.numeric(unlist(c(block[7])))+as.numeric(unlist(c(block[6]))))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("coral","cyan3")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,10+(max(c(receive,spent)))),
  col=cols,
  main ='Analysis of year 2017-2018',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6, #xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

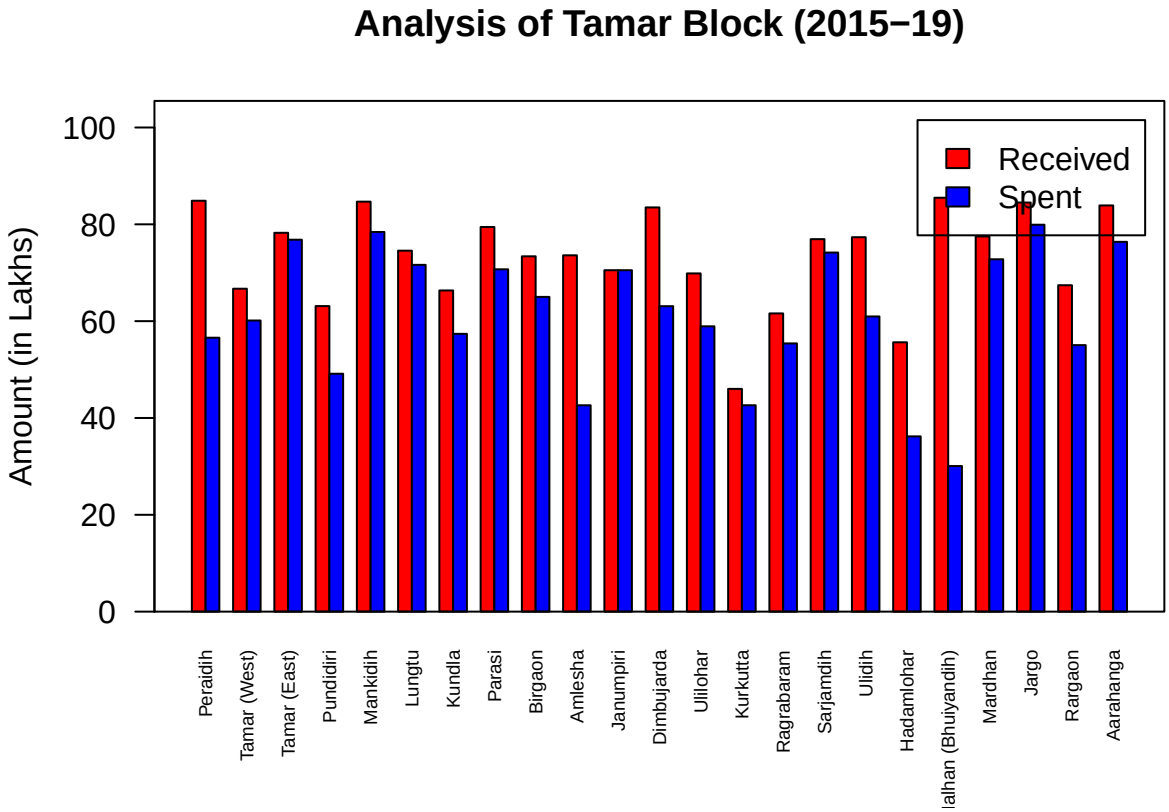
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Data Analysis of Tamar Block

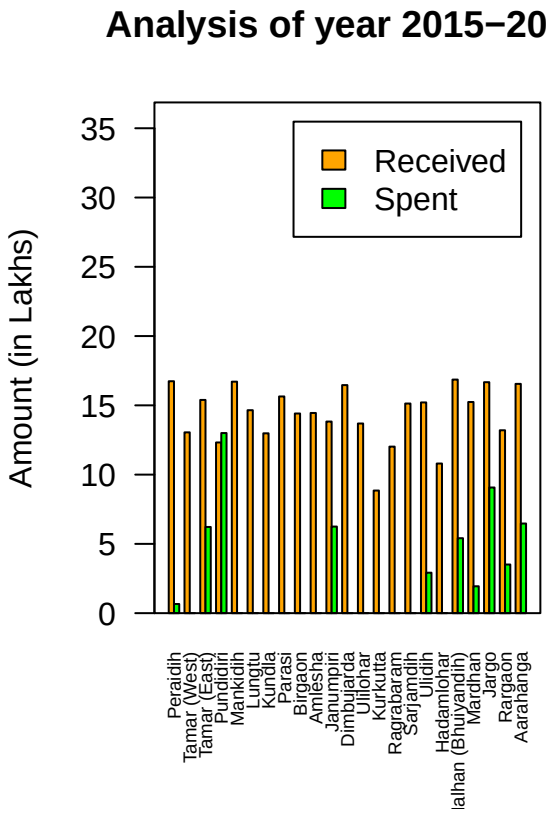
```
library(readxl)
block=read_excel("TAMAR.xlsx")
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[15])))/100000
receive=as.numeric(unlist(c(block[10])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("red","blue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of Tamar Block (2015-19)',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```

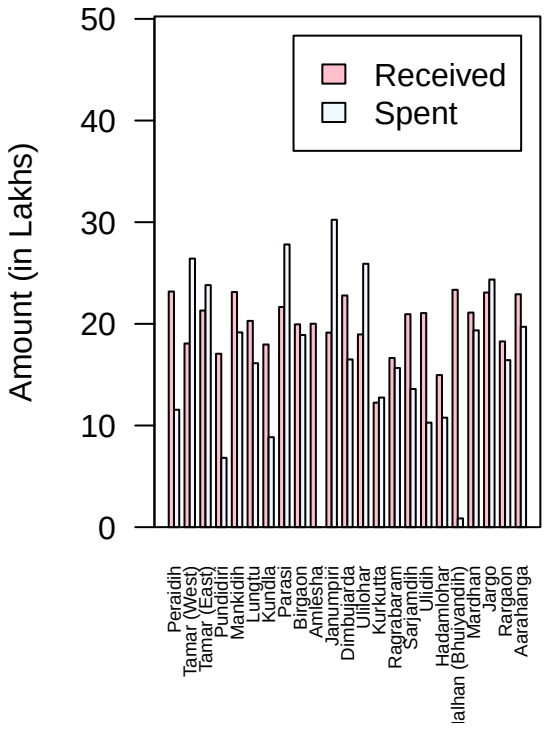



```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

Yearwise Plots

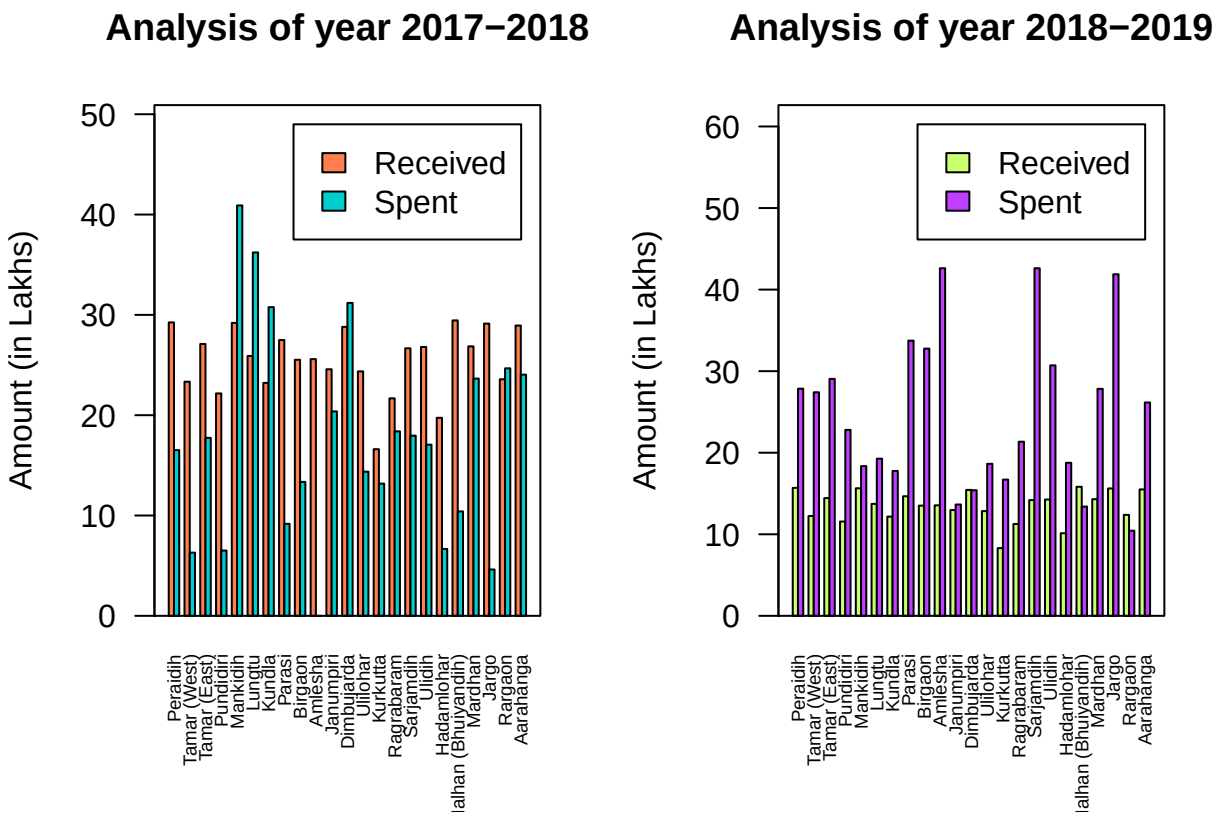
```
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[11])))/100000
receive=as.numeric(unlist(c(block[4])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("orange","green")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2015-2016',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)


pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[12])))/100000
receive=as.numeric(unlist(c(block[5])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("pink","aliceblue")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2016-2017',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```






```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
par(mfrow=c(1,2))
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[13])))/100000
receive=(as.numeric(unlist(c(block[7])))+as.numeric(unlist(c(block[6]))))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("coral","cyan3")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,10+(max(c(receive,spent)))),
  col=cols,
  main ='Analysis of year 2017-2018',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6, #xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```




```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```