# 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

```r
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
```



Amount Received and Spent on yearly basis from 2015–19
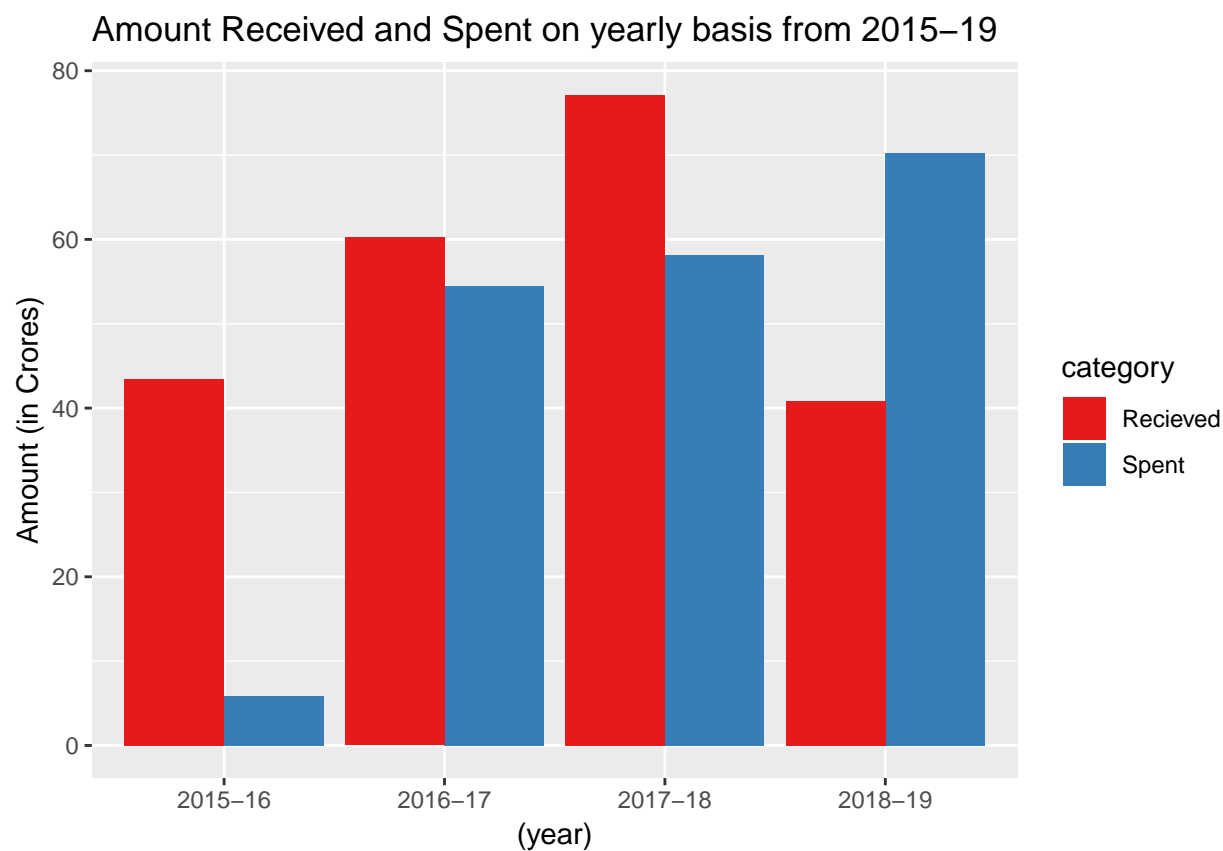
From the finance data of amount given and spent by the Ranchi district, it can be clearly seen that all the 18 blocks cumulatively had used 85.19% of the total amount received which is Rs 221.63 Crore. By spending Rs 188.8 Crore from the total amount received over these years the district finance commission 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.

```r
#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[!x %in% x[6]]
x=x[3:20]
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")
```
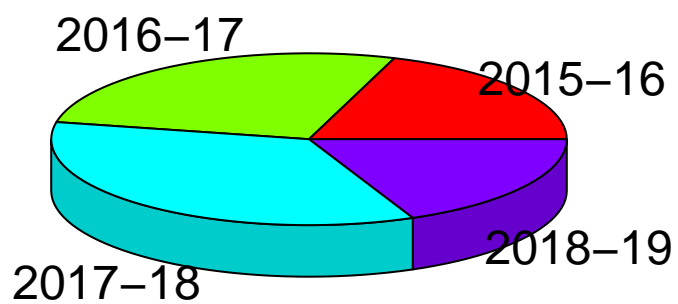
# Amount Recieved and Spent by each Block from 2015–19
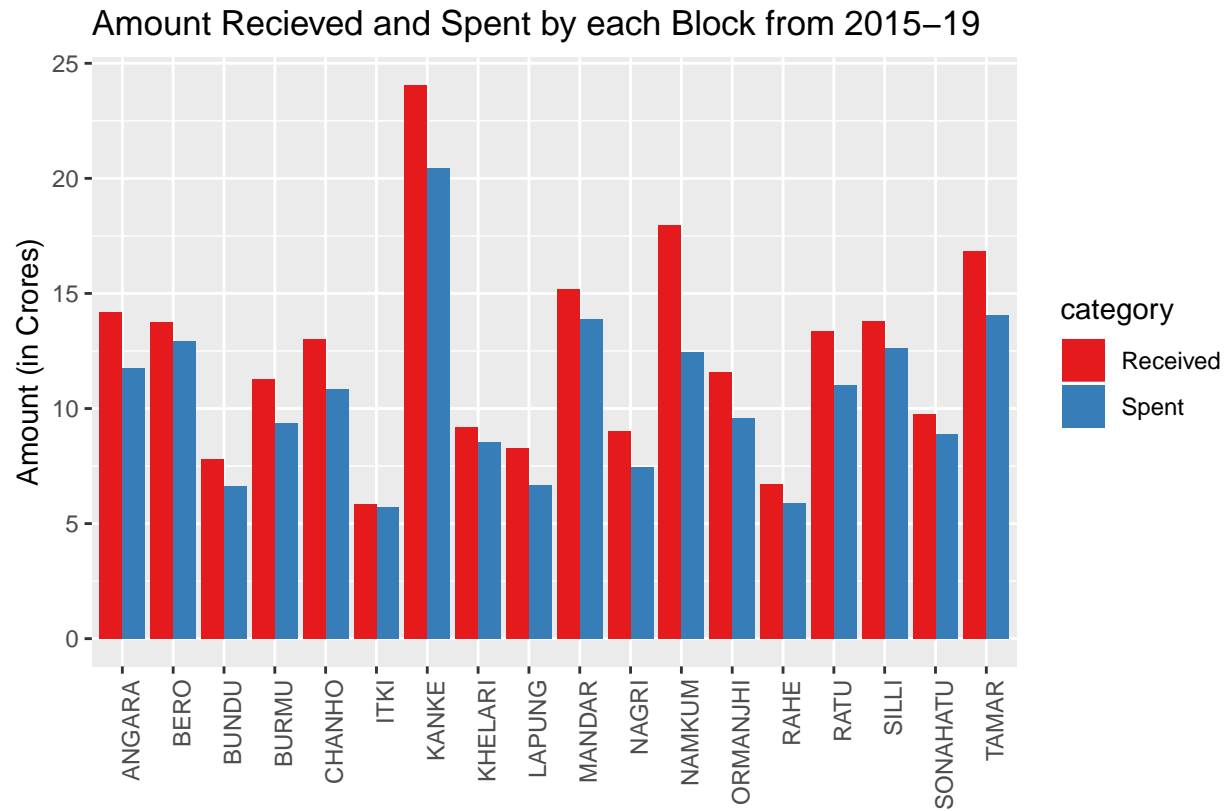


```
#install.packages
library(plotrix)
a_received=c(as.integer(ranchi[327,4])/10000,as.integer(ranchi[327,5])/10000,(as.integer(ranchi[327,6])
pie3D(a_received,labels=unique(year),
    col=rainbow(4),main = "Yearwise Contribution to the total amount")
```
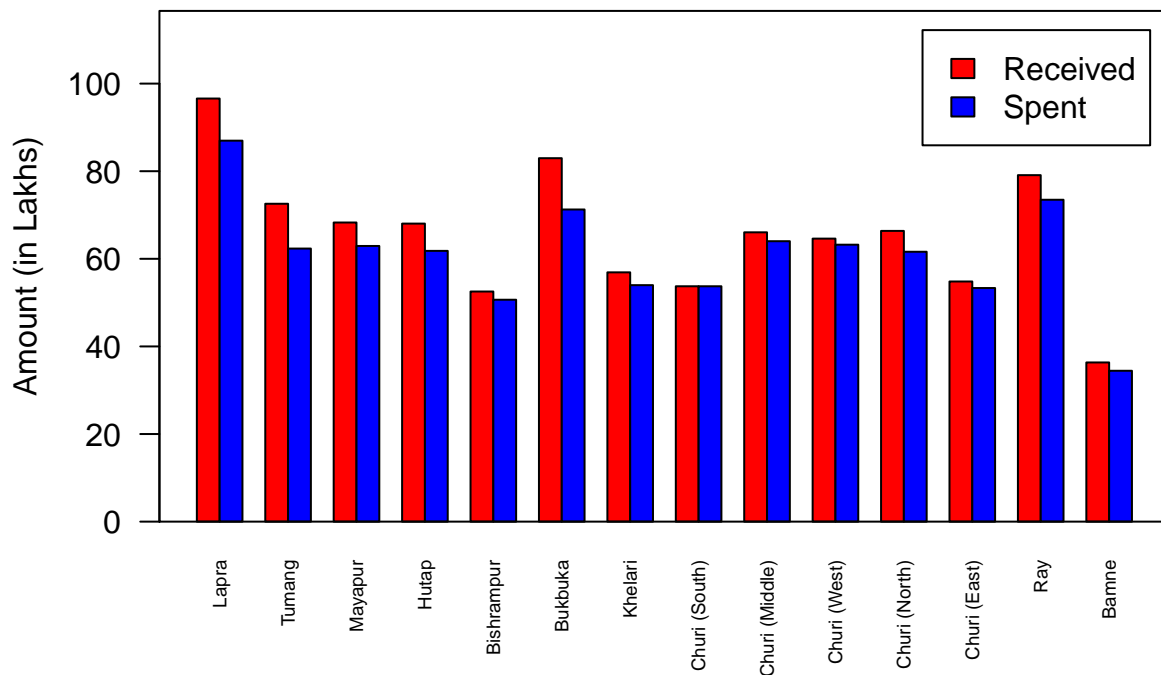
# Yearwise Contribution to the total amount

2016−17

2015−16

2017−18

2018−19

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

```r
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()
```


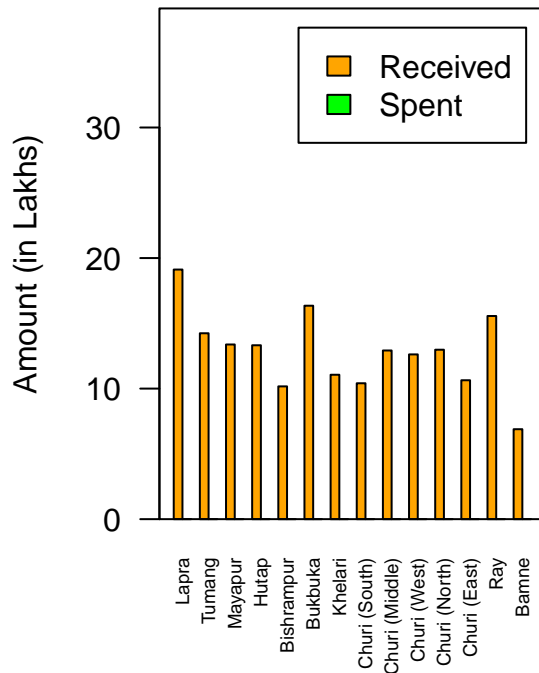
**Analysis of Khelari Block (2015–19)**

```r
#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)
```
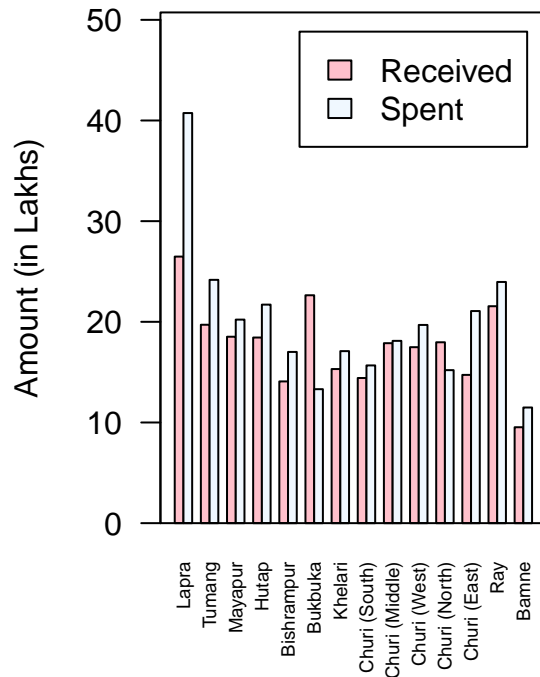
**Yearwise Plots**

```r
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()
```

**Analysis of year 2015–2016**　　　**Analysis of year 2016–2017**



```
#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$pnchayat, xpd=TRUE, srt=45)
```
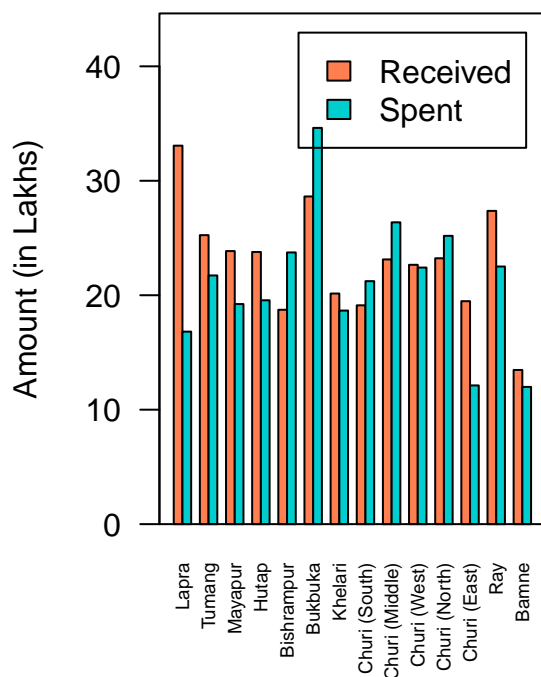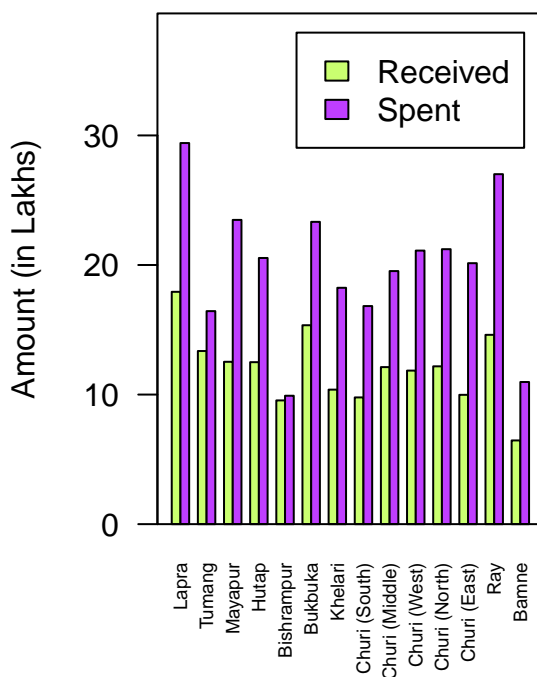
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,10+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```



**Analysis of year 2017–2018**
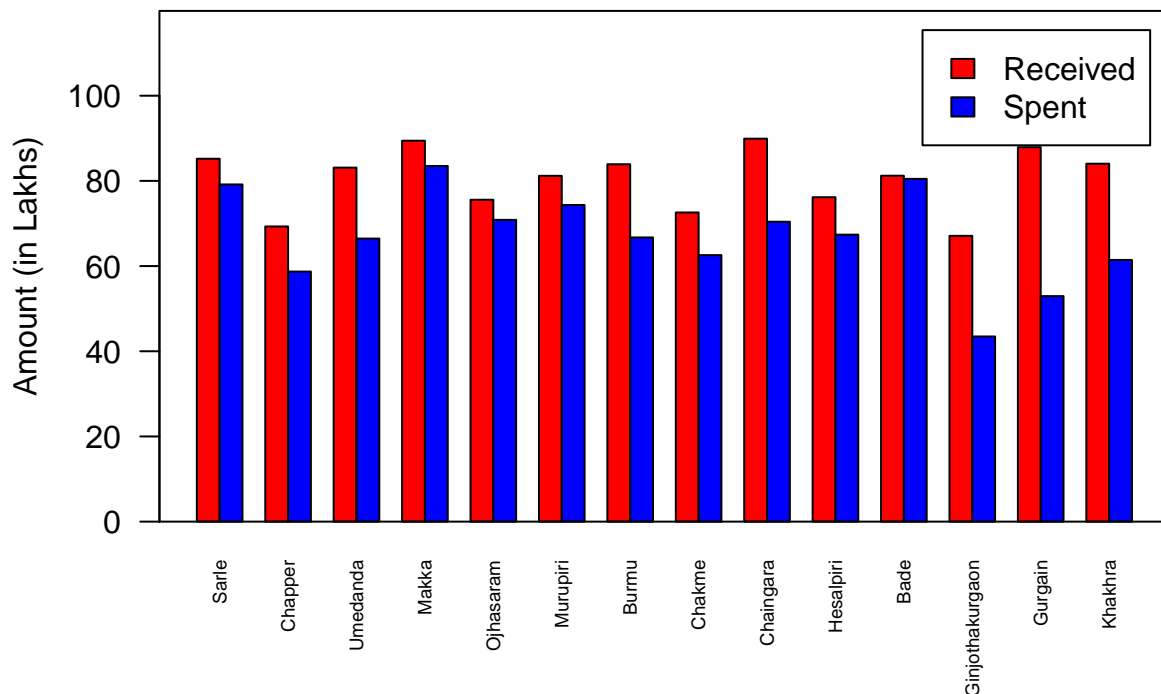
**Analysis of year 2018–2019**

```
#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

```r
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()
```
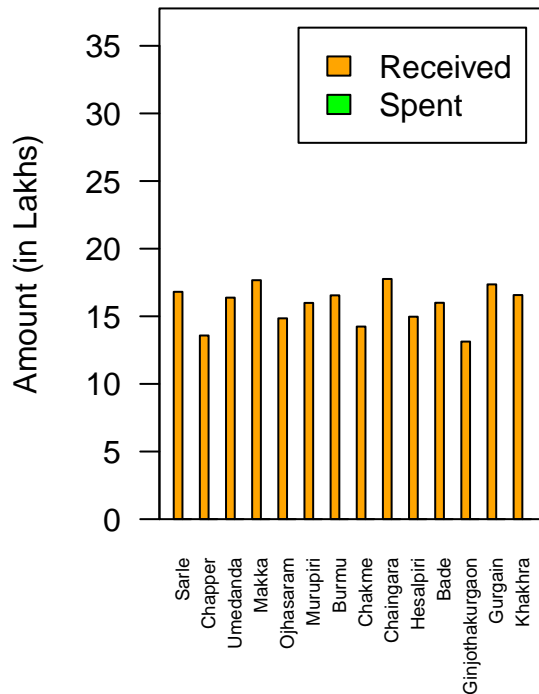
# Analysis of Burmu Block (2015–19)



```r
#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)
```
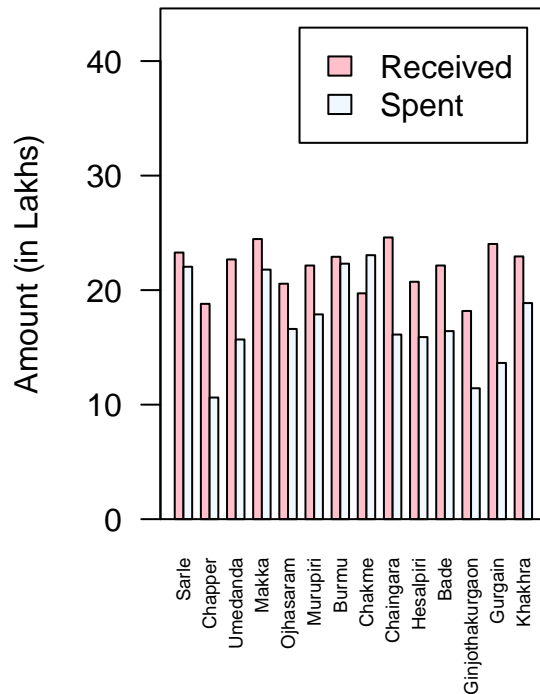
**Yearwise Plots**

```r
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()
```

## Analysis of year 2015–2016



## Analysis of year 2016–2017



```
#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$pnchayat, xpd=TRUE, srt=45)
```
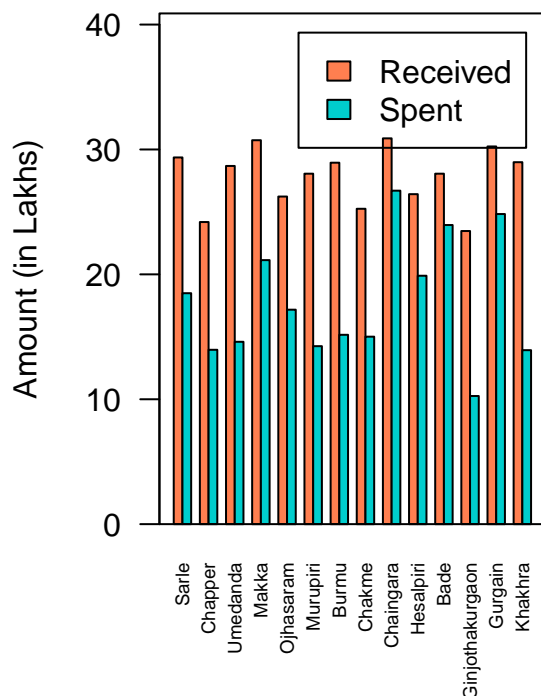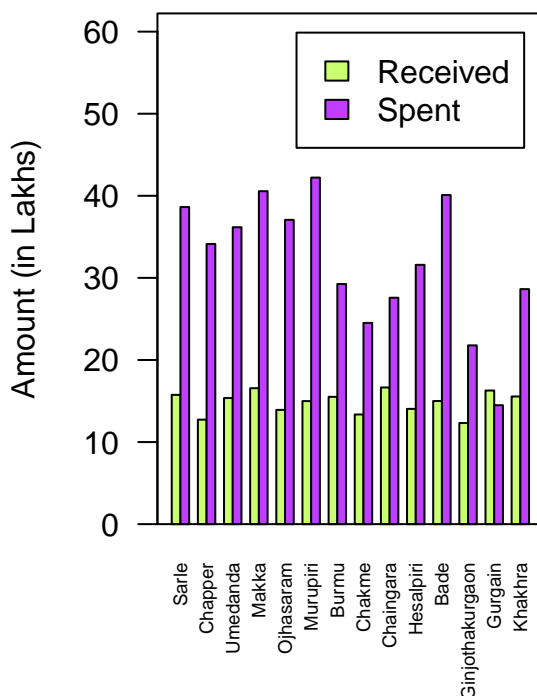
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
            ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```



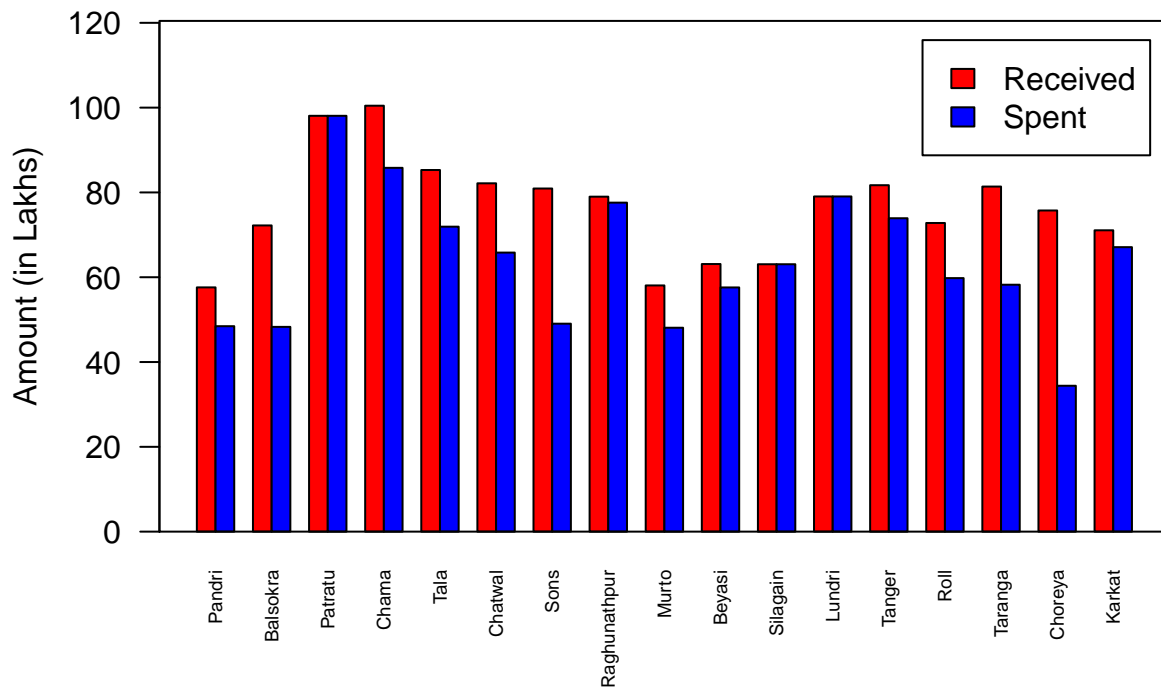**Analysis of year 2017–2018**    **Analysis of year 2018–2019**

```
#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

```r
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()
```



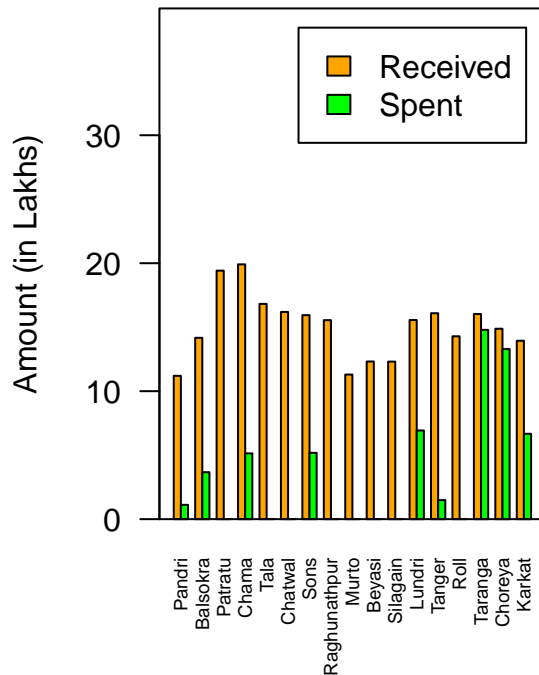**Analysis of Chanho Block (2015–19)**

```r
#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)
```
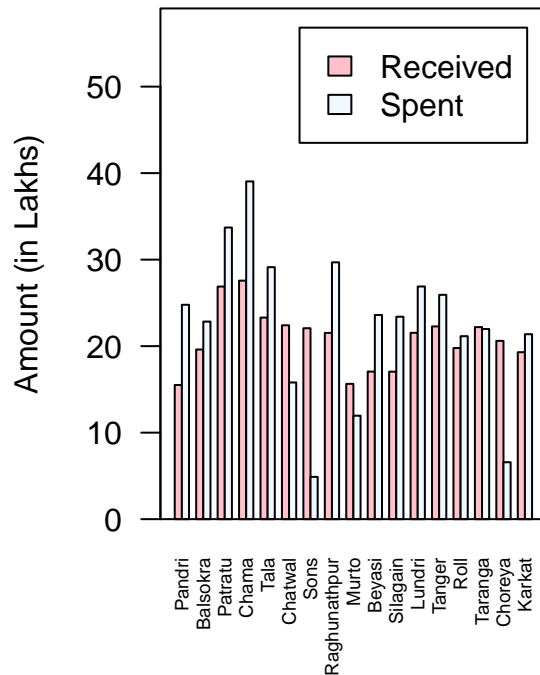
**Yearwise Plots**

```r
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()
```

## Analysis of year 2015–2016

## Analysis of year 2016–2017

```
#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$pnchayat, xpd=TRUE, srt=45)
```
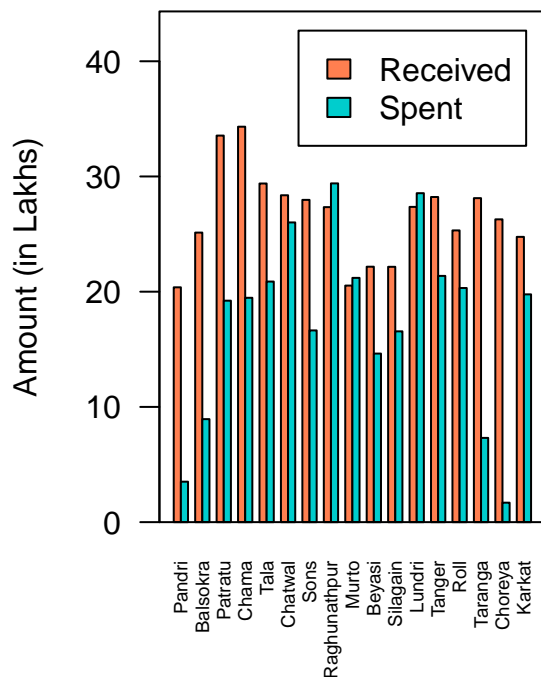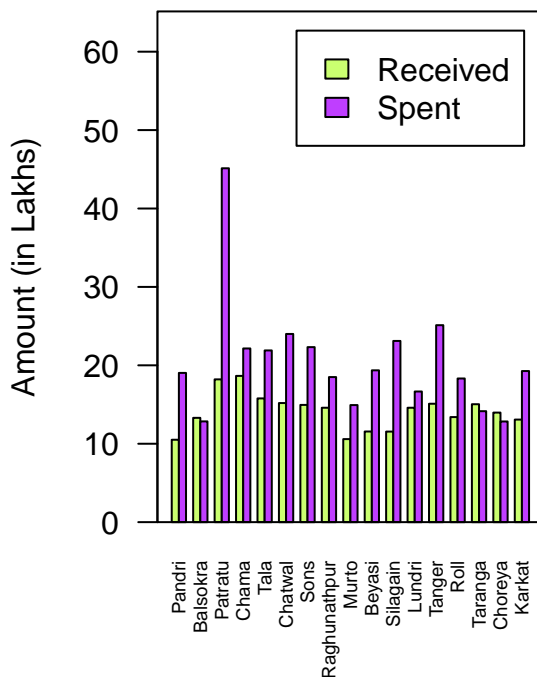
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```



**Analysis of year 2017–2018**
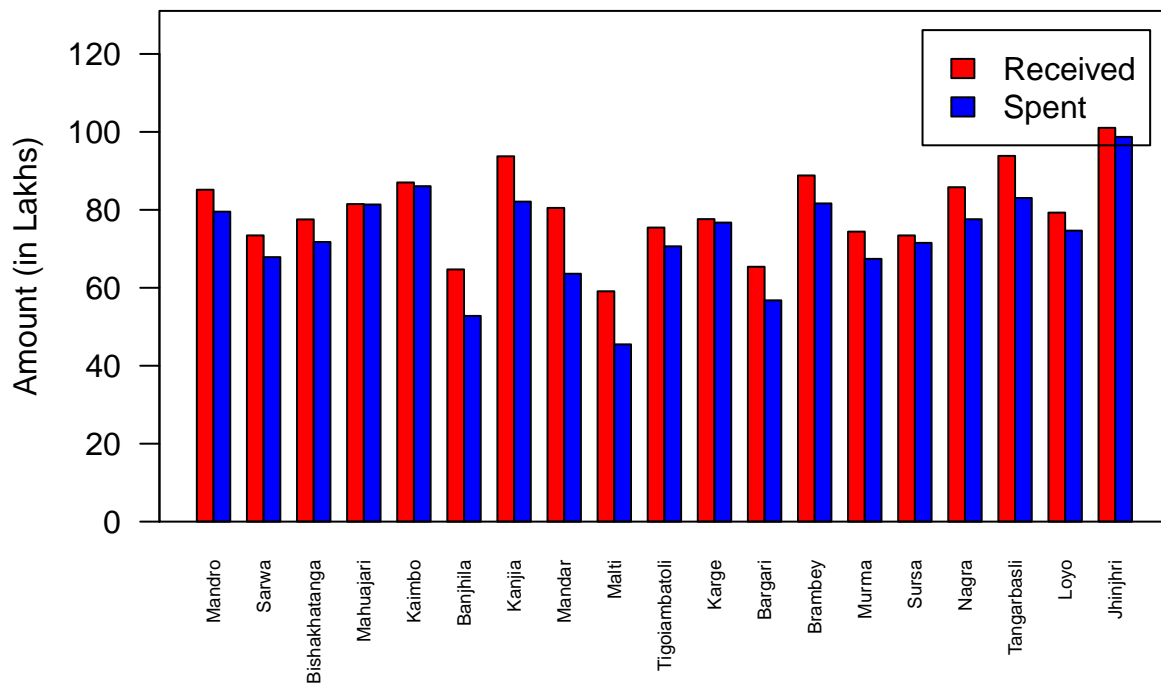
**Analysis of year 2018–2019**

```
#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

```r
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()
```

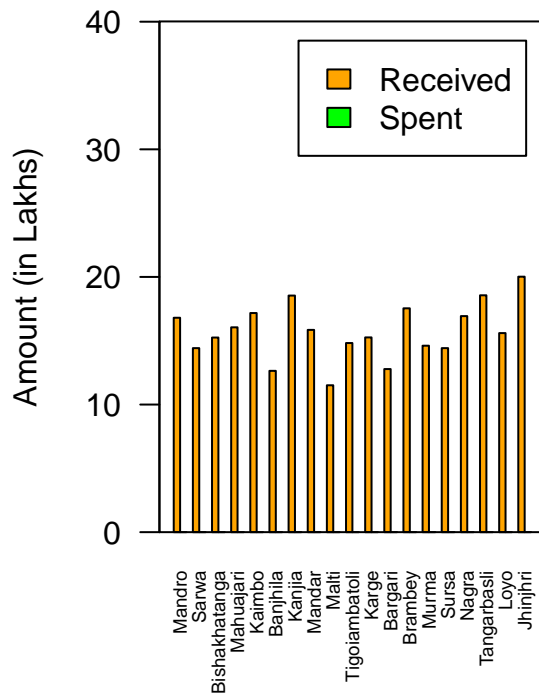# Analysis of Mandar Block (2015–19)



```r
#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)
```
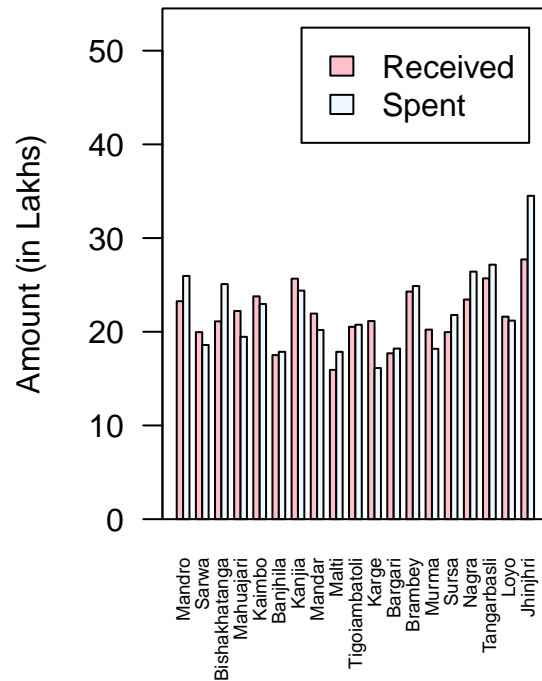
**Yearwise Plots**

```r
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()
```

**Analysis of year 2015–2016**      **Analysis of year 2016–2017**

```r
#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$pnchayat, xpd=TRUE, srt=45)
```
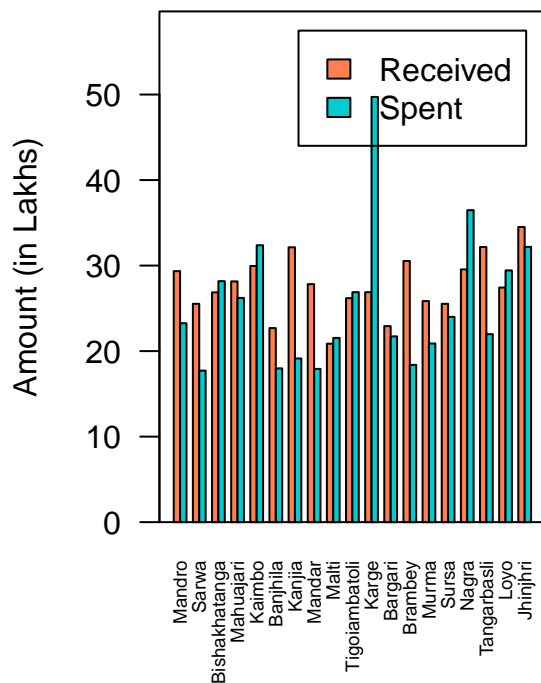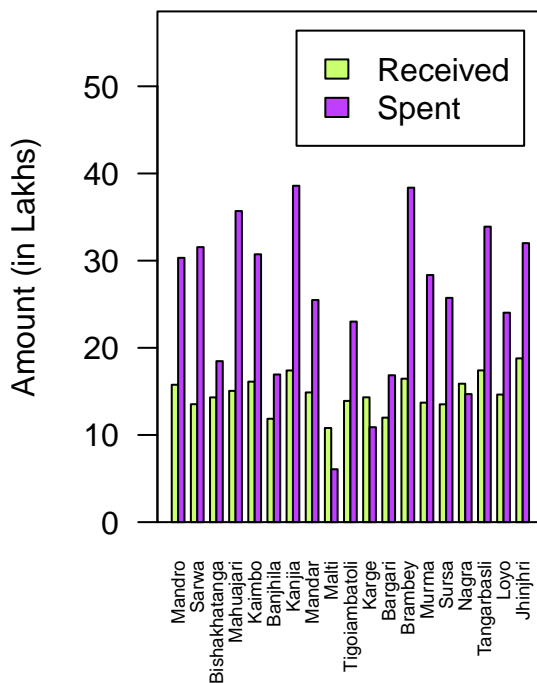
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```



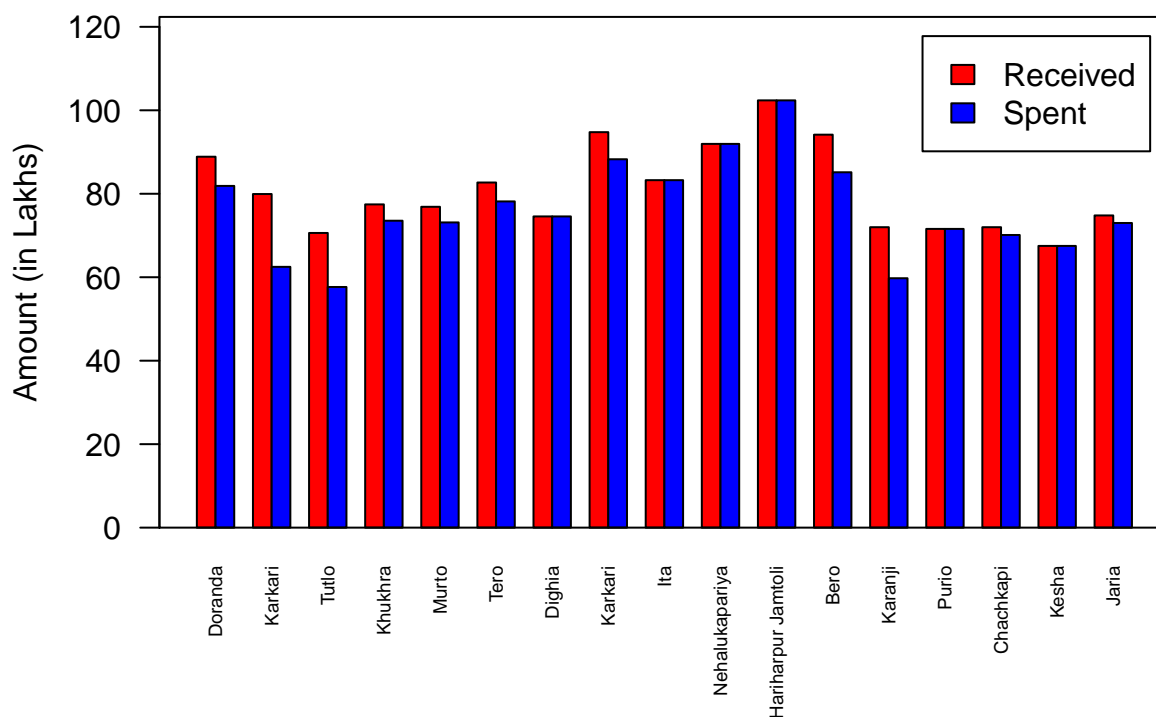Analysis of year 2017–2018



Analysis of year 2018–2019

```
#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

```r
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()
```
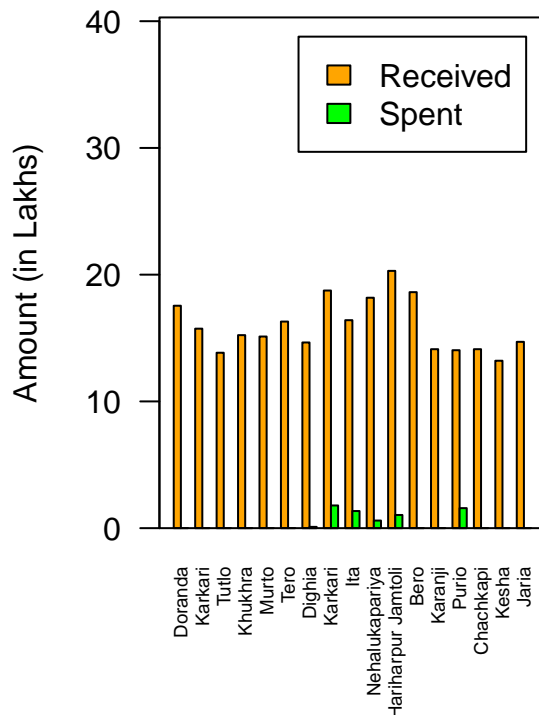


**Analysis of Bedo Block (2015–19)**

```r
#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)
```
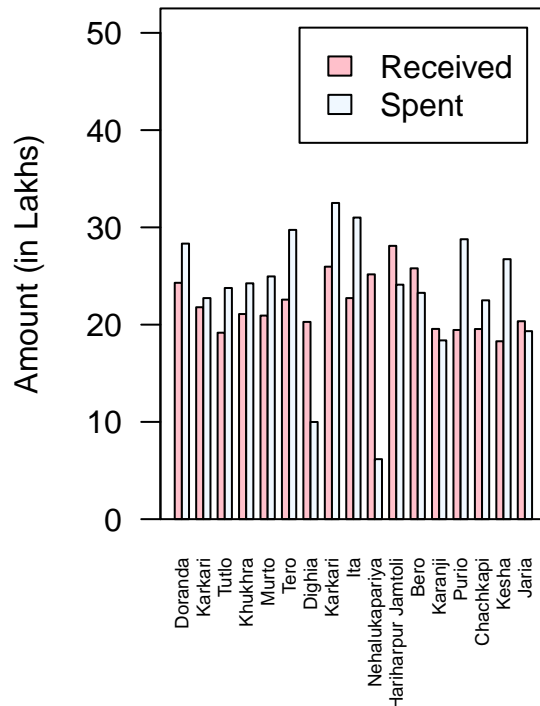
**Yearwise Plots**

```r
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()
```

## Analysis of year 2015–2016

## Analysis of year 2016–2017



```
#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$pnchayat, xpd=TRUE, srt=45)
```
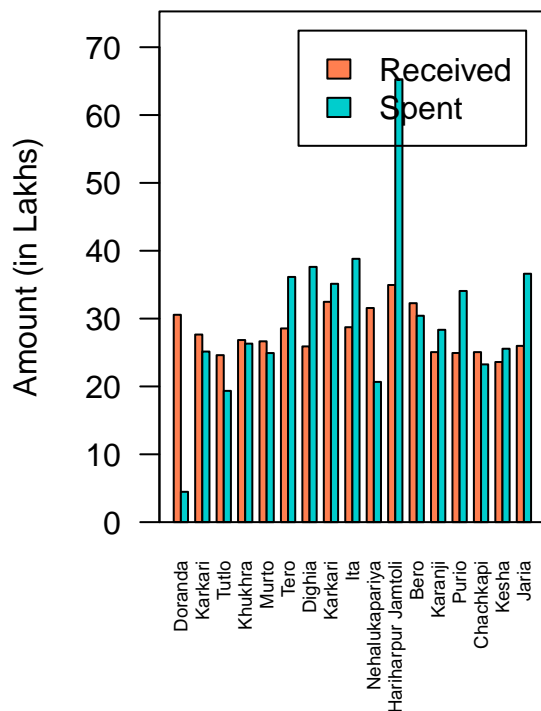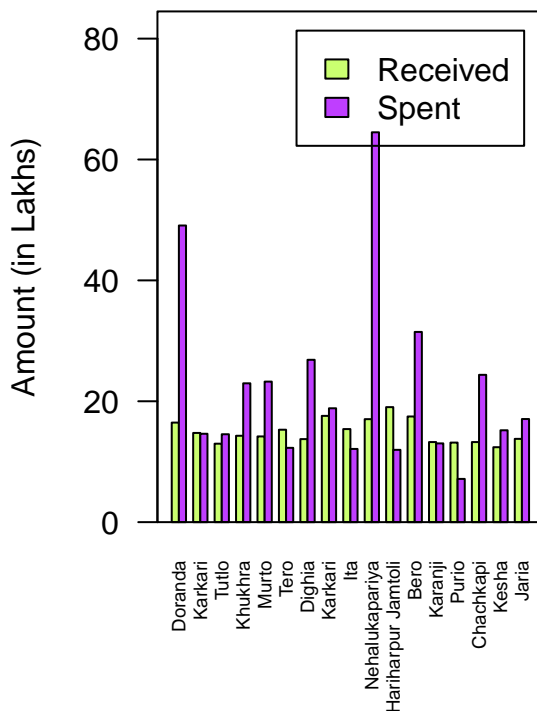
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
              ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```



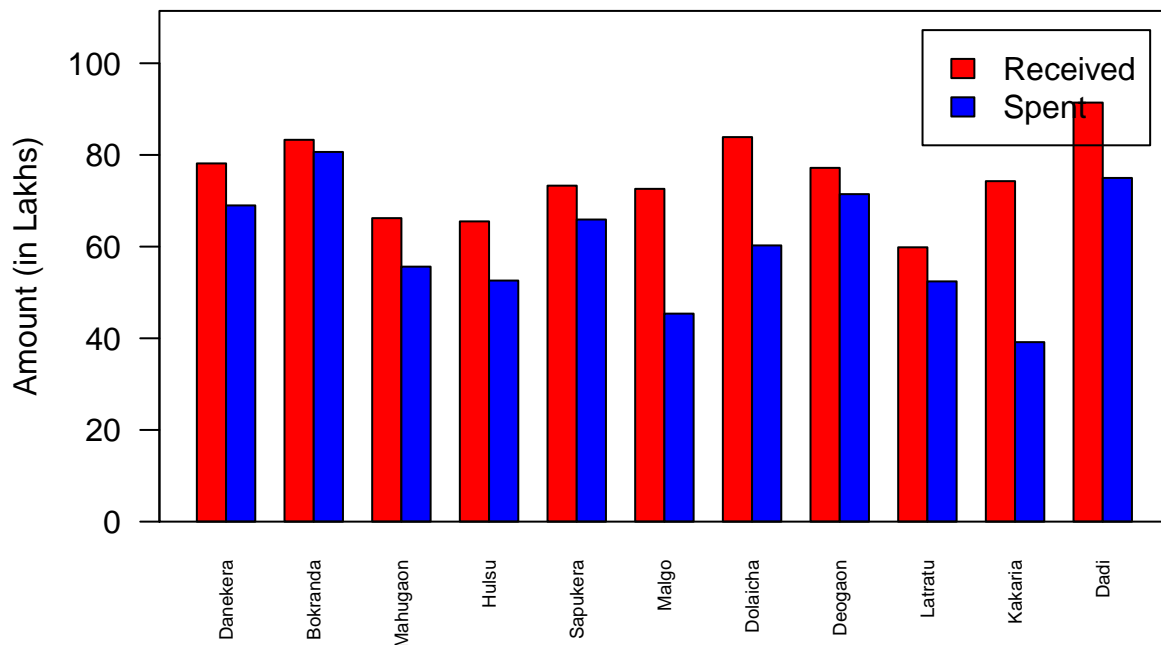Analysis of year 2017–2018



Analysis of year 2018–2019

```
#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

```r
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()
```

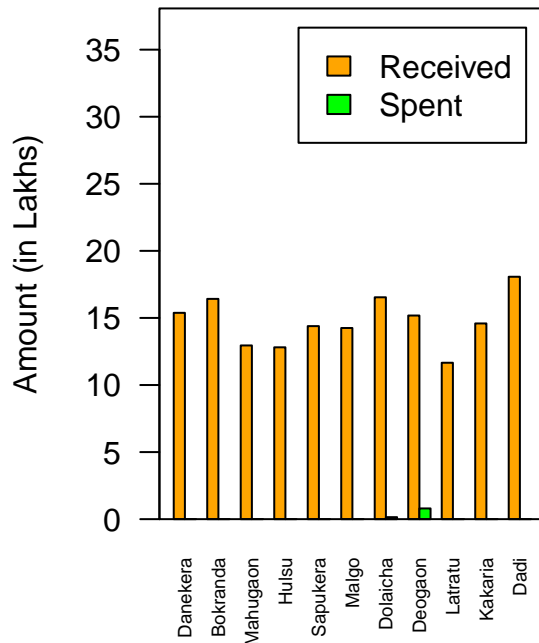# Analysis of Lapung Block (2015–19)



```r
#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)
```
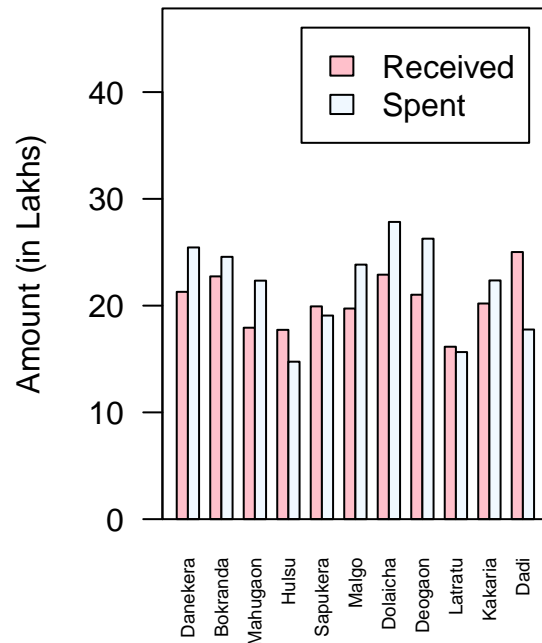
**Yearwise Plots**

```r
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()
```

## Analysis of year 2015–2016



## Analysis of year 2016–2017



```r
#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$pnchayat, xpd=TRUE, srt=45)
```
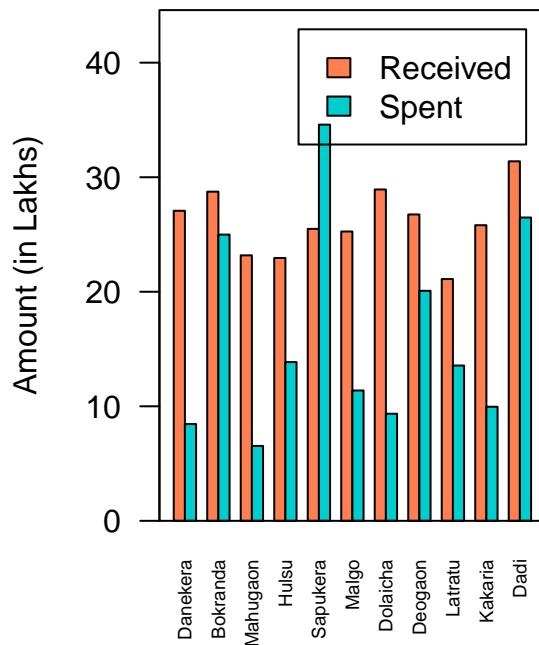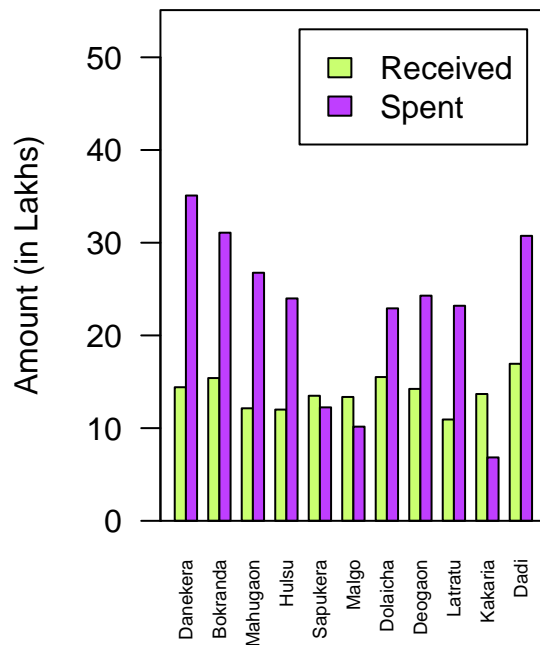
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
                ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```



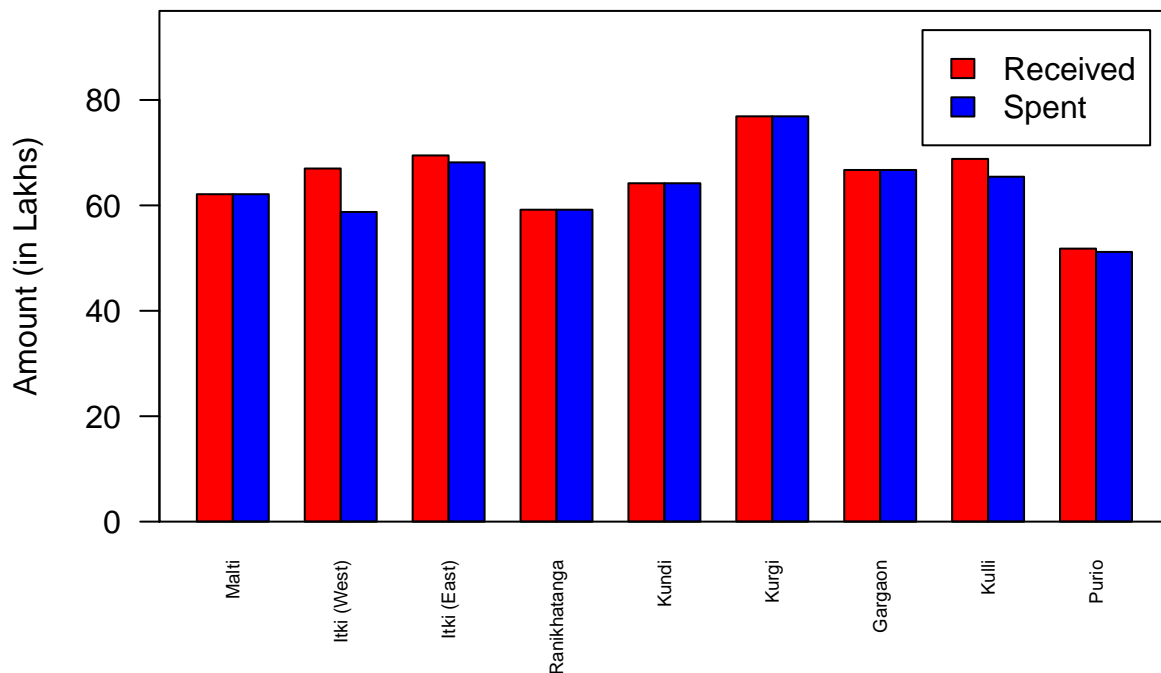**Analysis of year 2017–2018**

**Analysis of year 2018–2019**

```
#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

```r
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()
```
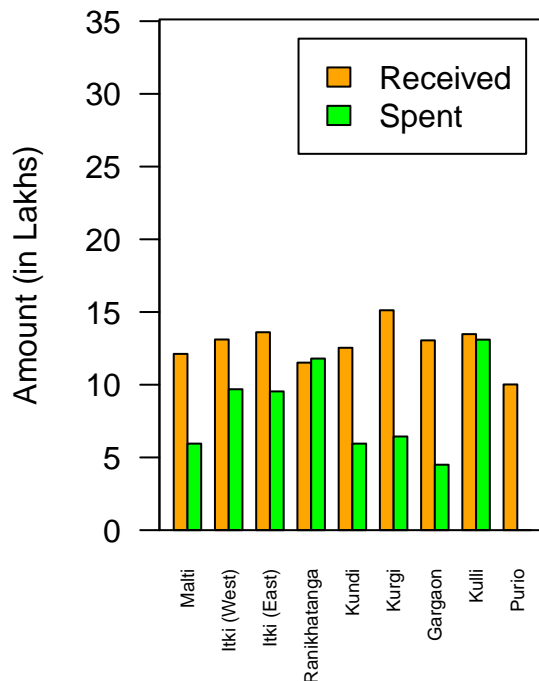


```r
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```
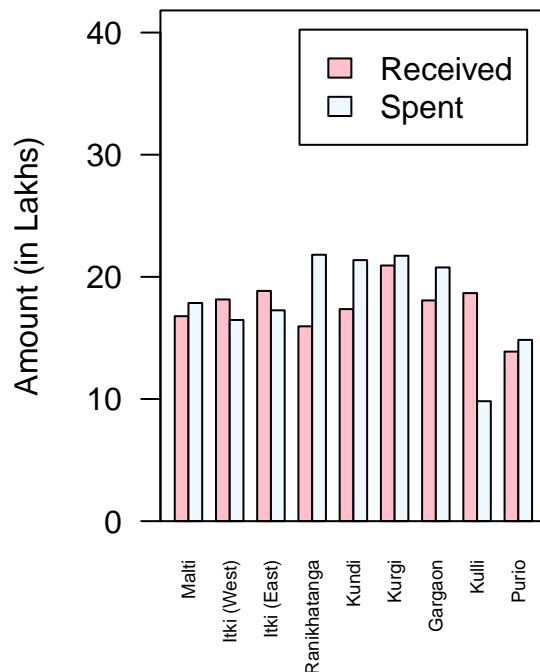
**Yearwise Plots**

```r
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()
```

**Analysis of year 2015–2016**



**Analysis of year 2016–2017**



```r
#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$pnchayat, xpd=TRUE, srt=45)
```
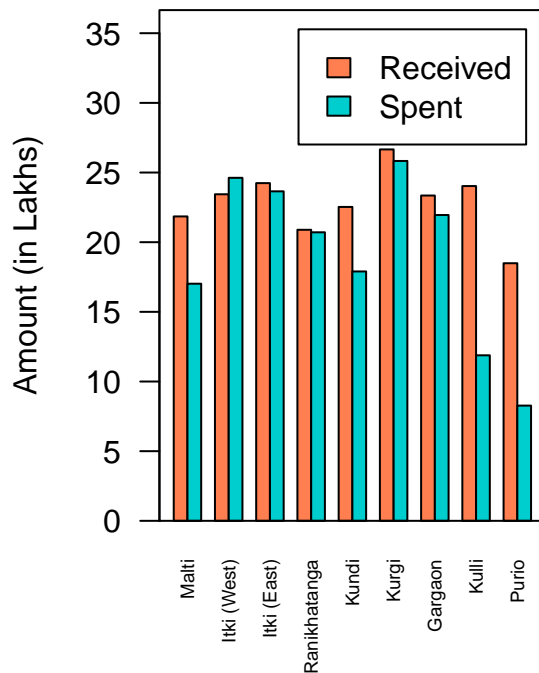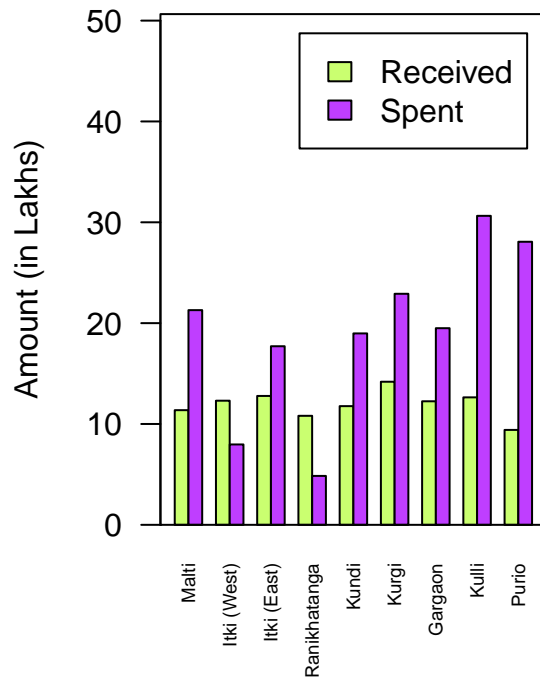
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```



**Analysis of year 2017–2018**
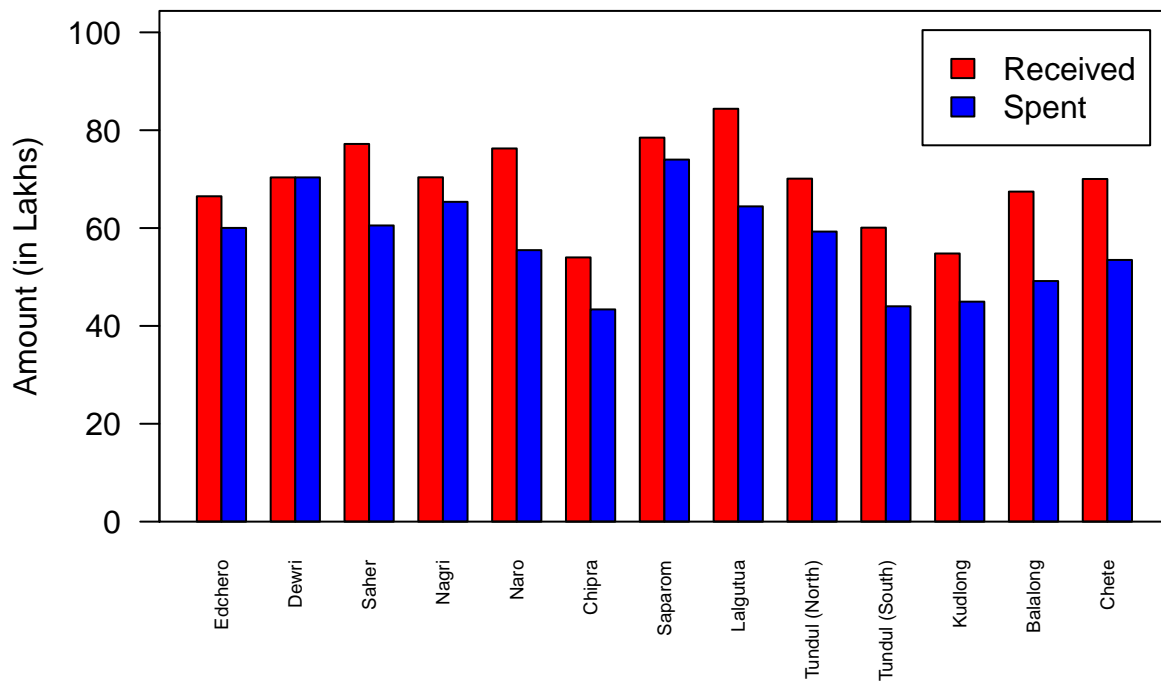
**Analysis of year 2018–2019**

```
#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

```r
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()
```
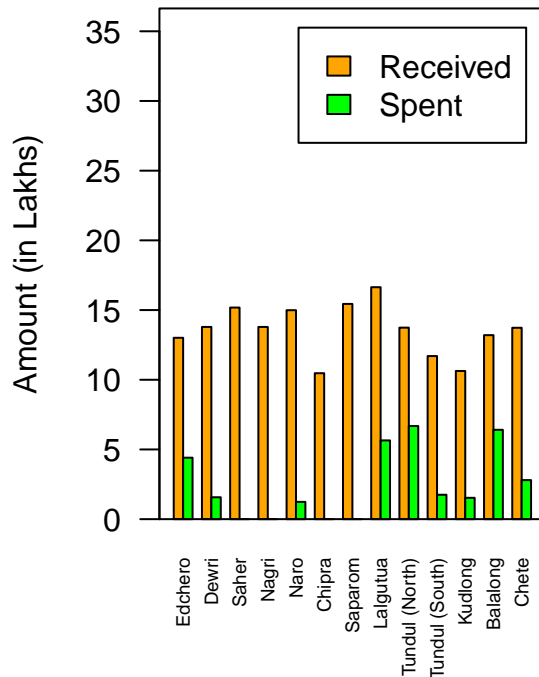


Analysis of Nagri Block (2015–19)

```r
#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)
```
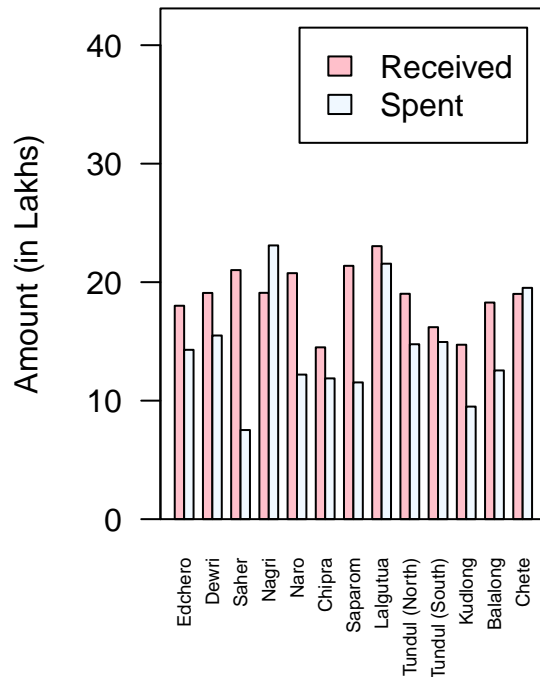
**Yearwise Plots**

```r
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()
```

## Analysis of year 2015–2016
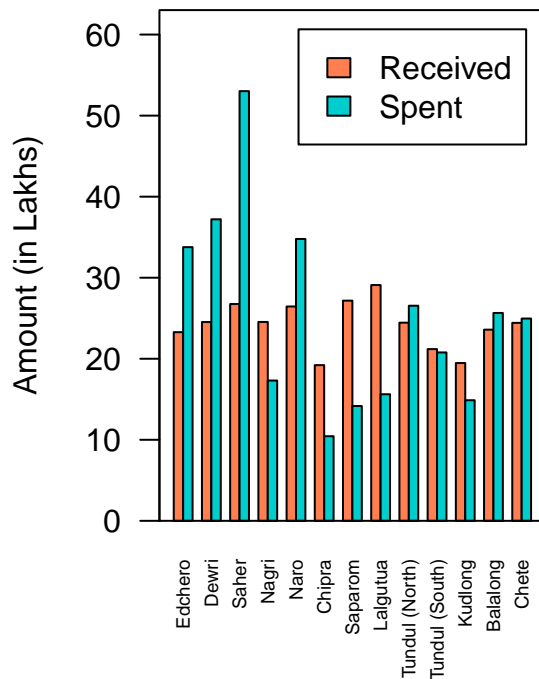


## Analysis of year 2016–2017



```
#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$pnchayat, xpd=TRUE, srt=45)
```
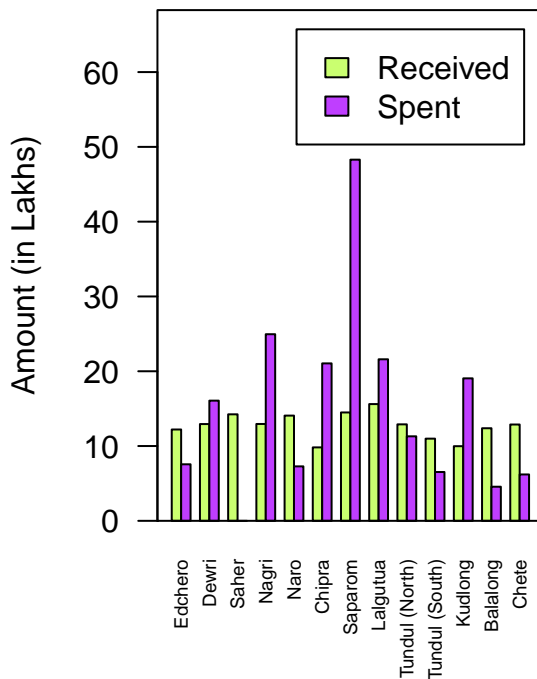
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```



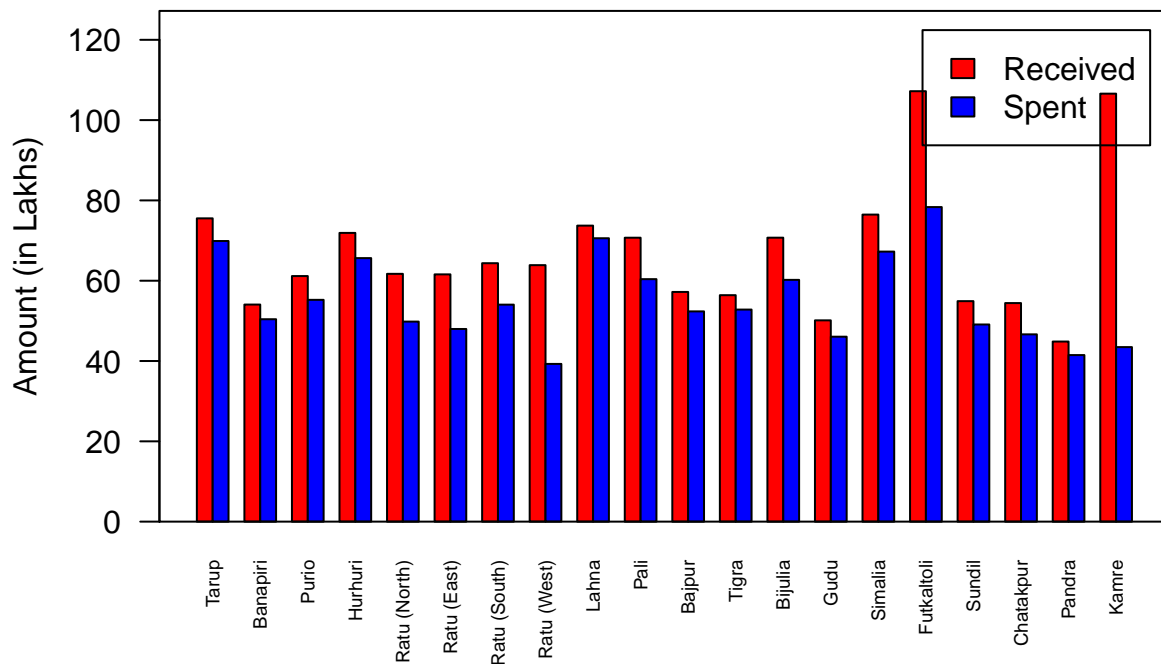Analysis of year 2017–2018



Analysis of year 2018–2019

```
#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

```r
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()
```
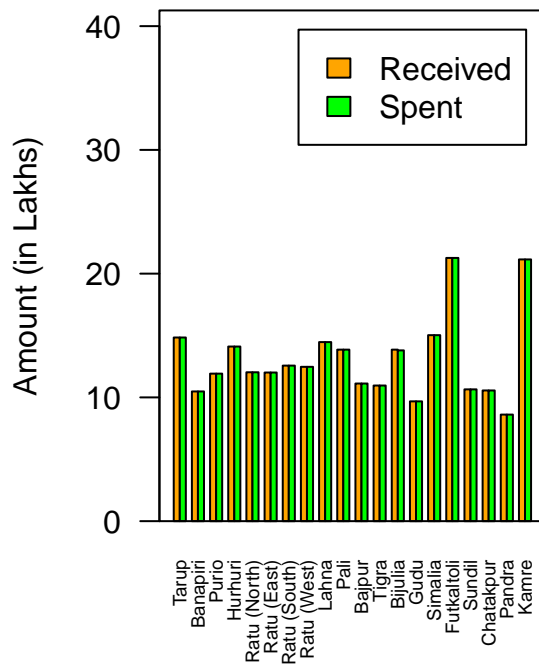
# Analysis of Ratu Block (2015–19)



```r
#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)
```
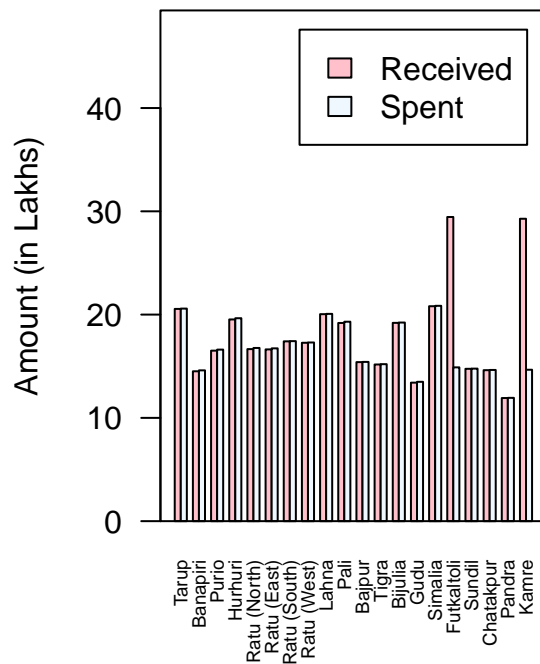
**Yearwise Plots**

```r
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()
```

**Analysis of year 2015–2016**    **Analysis of year 2016–2017**

```
#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$pnchayat, xpd=TRUE, srt=45)
```
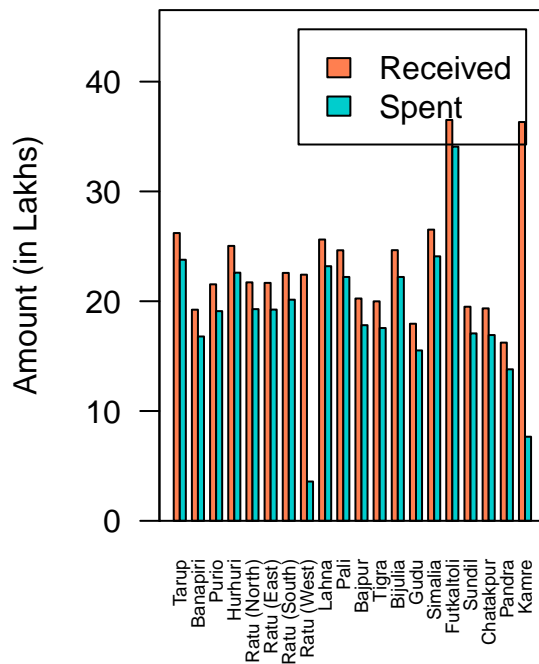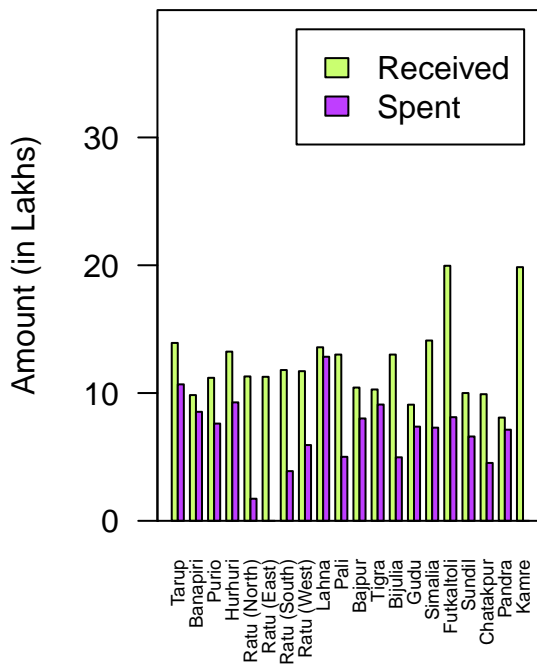
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```



**Analysis of year 2017–2018**          **Analysis of year 2018–2019**
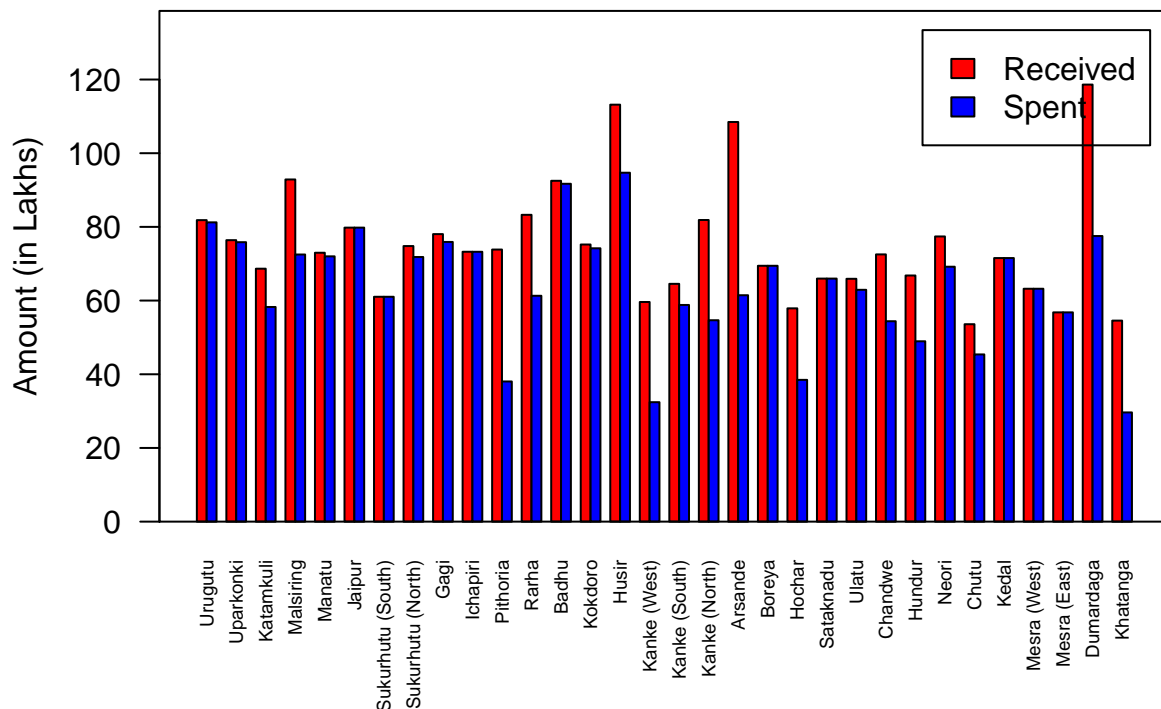
```
#axis(side=1, at=seq(1,length(spent)), labels=b_p$pnchayat, cex.axis=1)
#text(cex=1, x=x-.25, y=-1.25, b_p$pnchayat, xpd=TRUE, srt=45)
```

## Data Analysis of Kanke Block

```r
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()
```
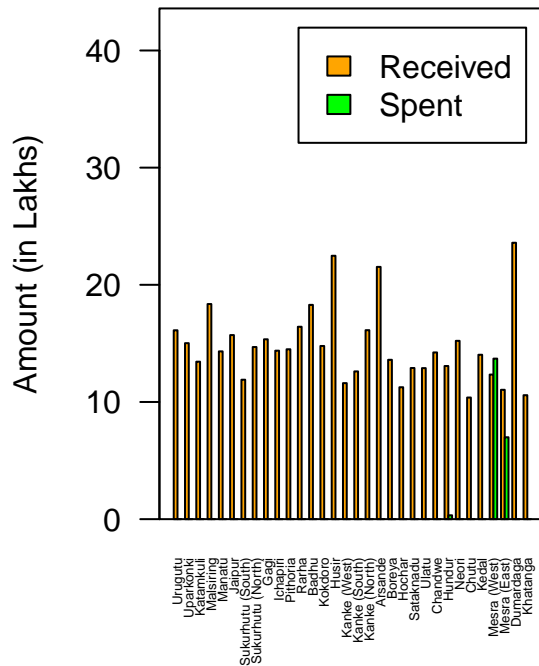
## Analysis of Kanke Block (2015–19)



```r
#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)
```
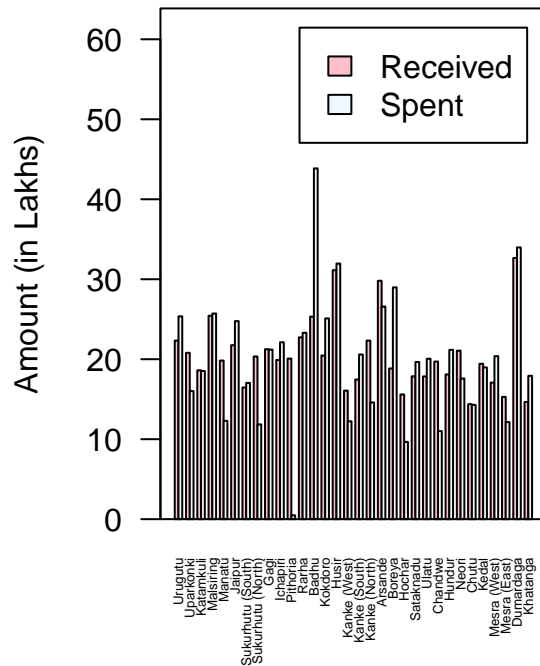
**Yearwise Plots**

```r
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()
```

**Analysis of year 2015–2016**
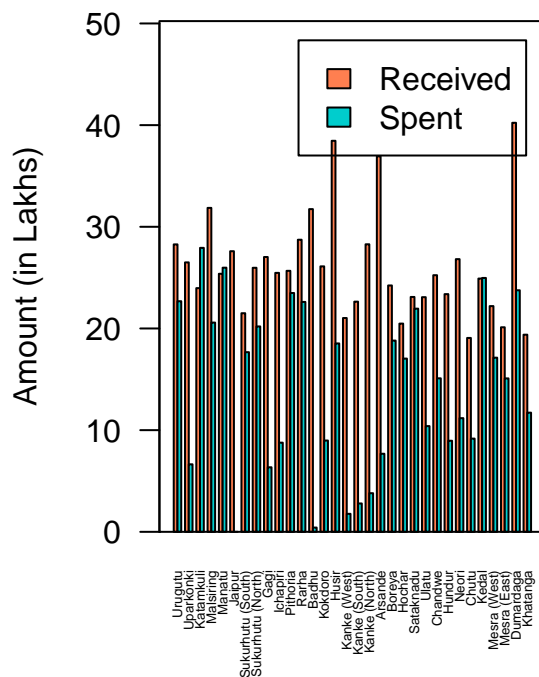
**Analysis of year 2016–2017**

```
#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$pnchayat, xpd=TRUE, srt=45)
```
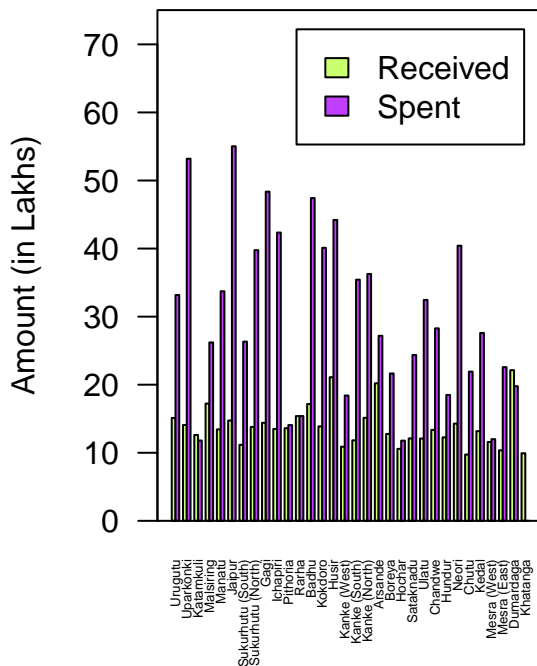
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.4,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```



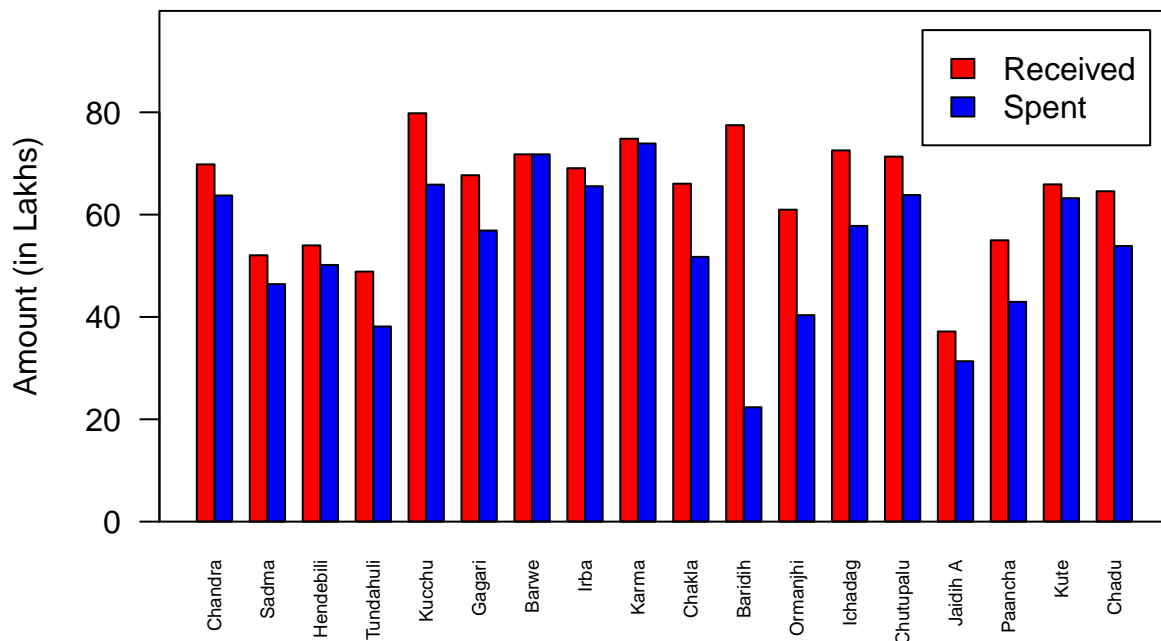Analysis of year 2017–2018



Analysis of year 2018–2019

```
#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

```r
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()
```
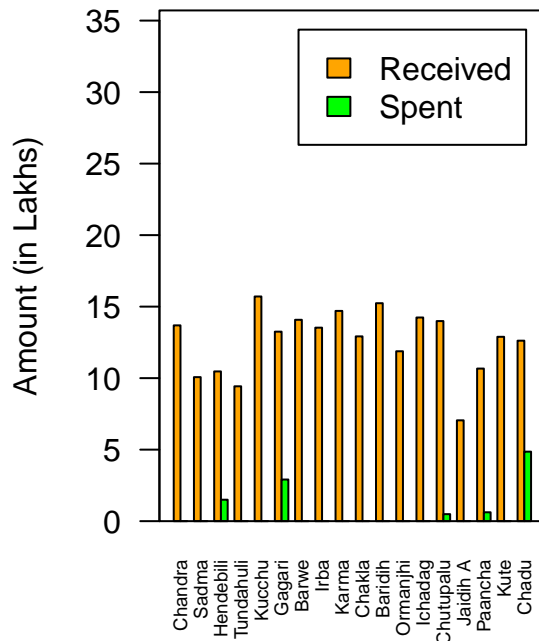


**Analysis of Ormanjhi Block (2015–19)**

```r
#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)
```
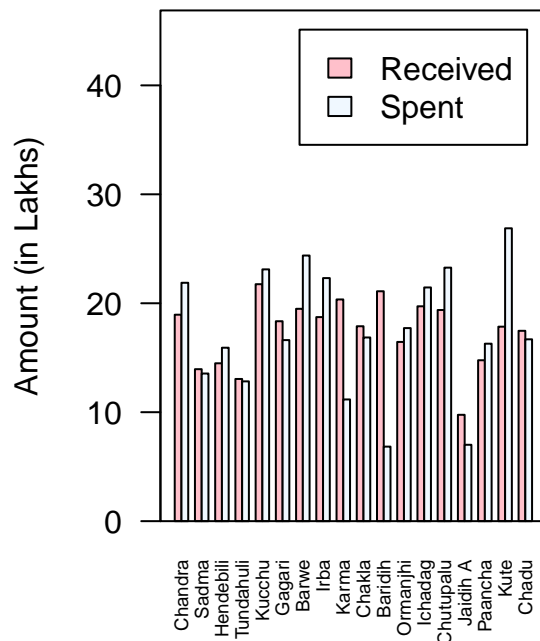
**Yearwise Plots**

```r
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()
```

**Analysis of year 2015–2016**



**Analysis of year 2016–2017**



```
#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$pnchayat, xpd=TRUE, srt=45)
```
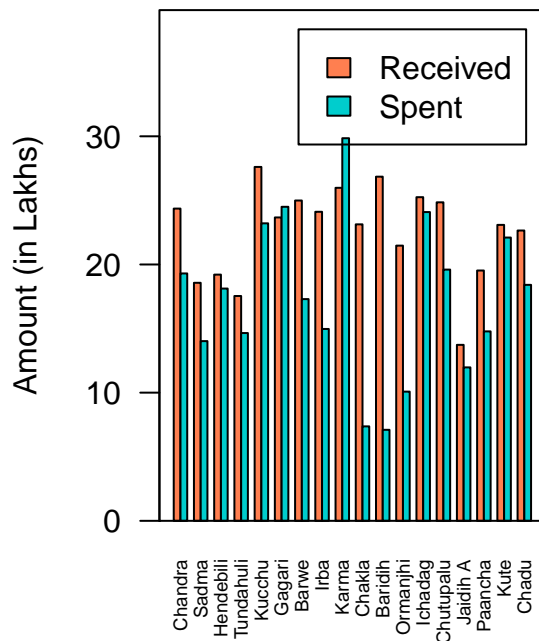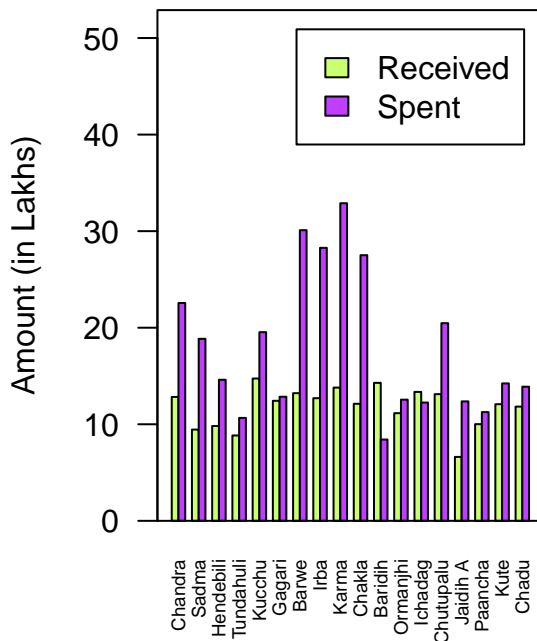
```r
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
                ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```



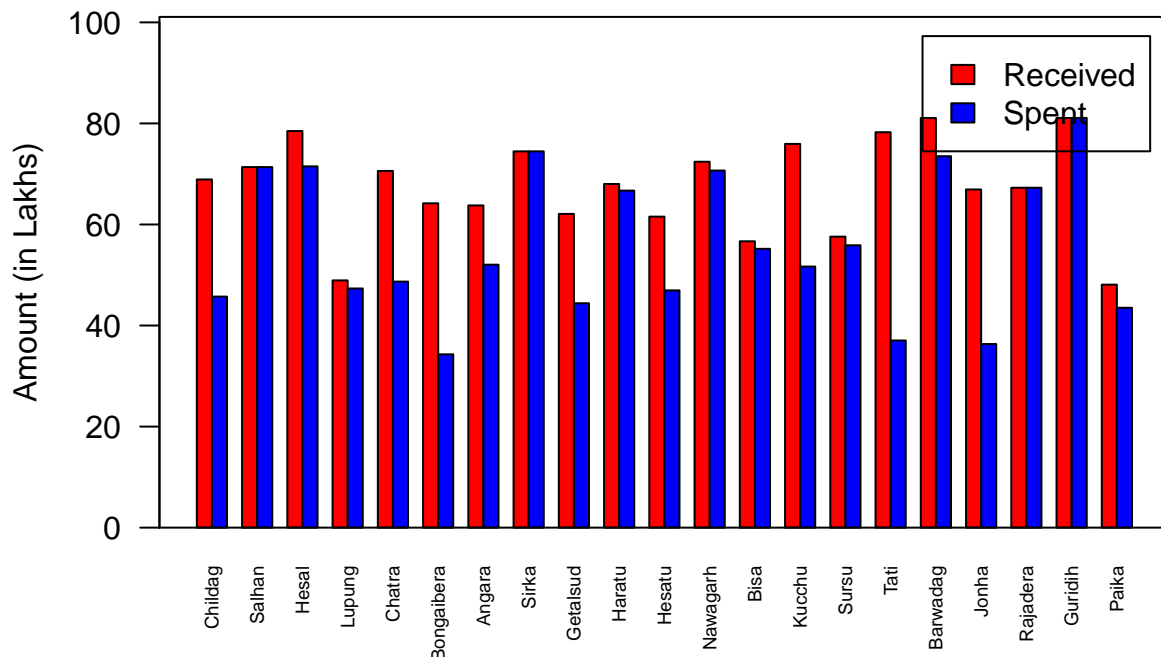Analysis of year 2017–2018



Analysis of year 2018–2019

```r
#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

```r
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()
```
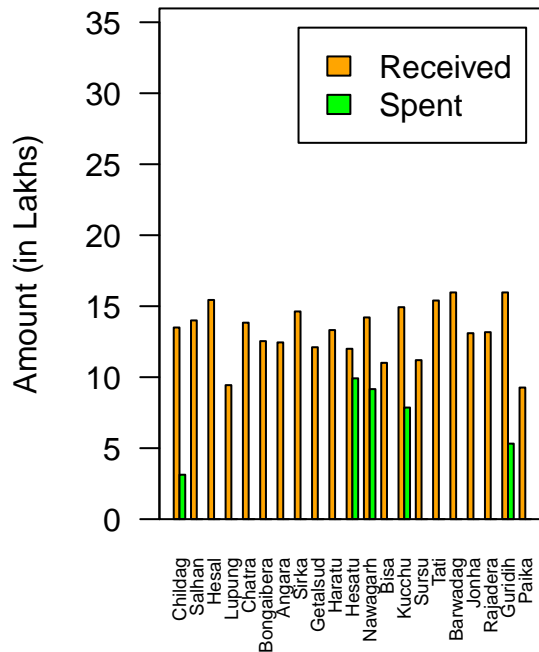


## Analysis of Angara Block (2015–19)

```r
#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)
```
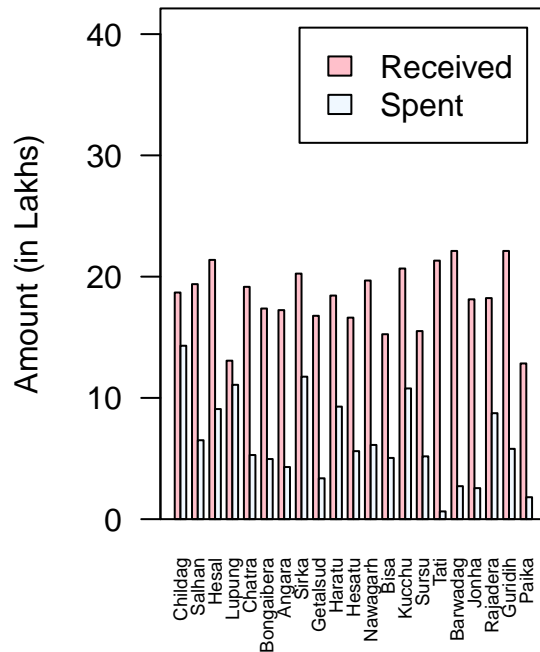
**Yearwise Plots**

```r
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()
```

## Analysis of year 2015–2016
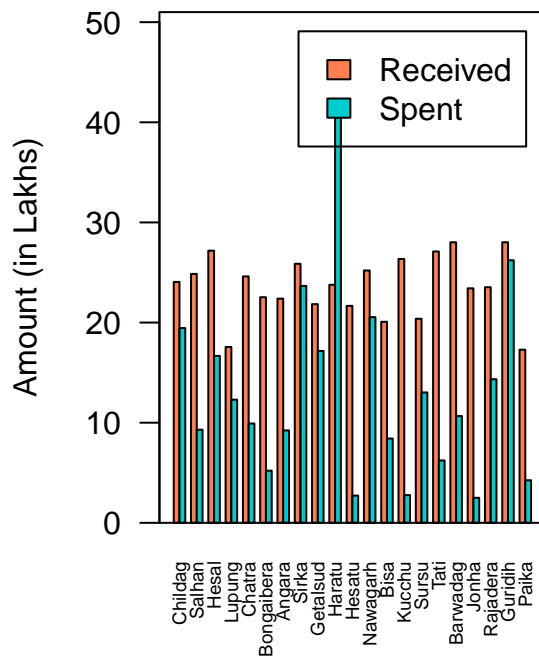


## Analysis of year 2016–2017



```r
#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$pnchayat, xpd=TRUE, srt=45)
```
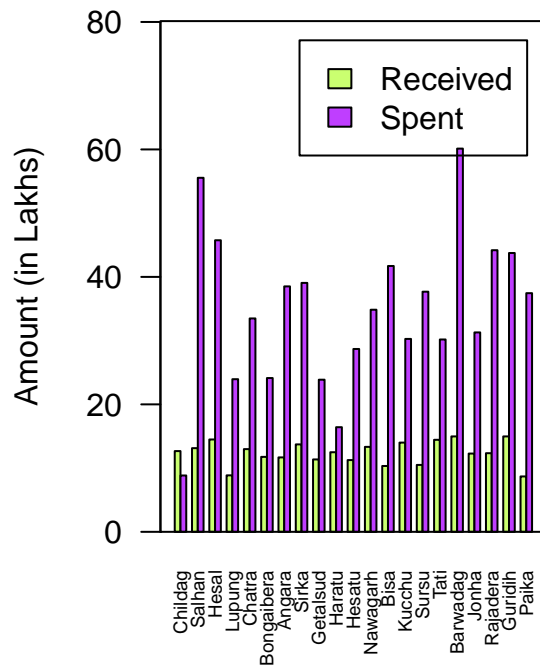
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```



**Analysis of year 2017–2018**
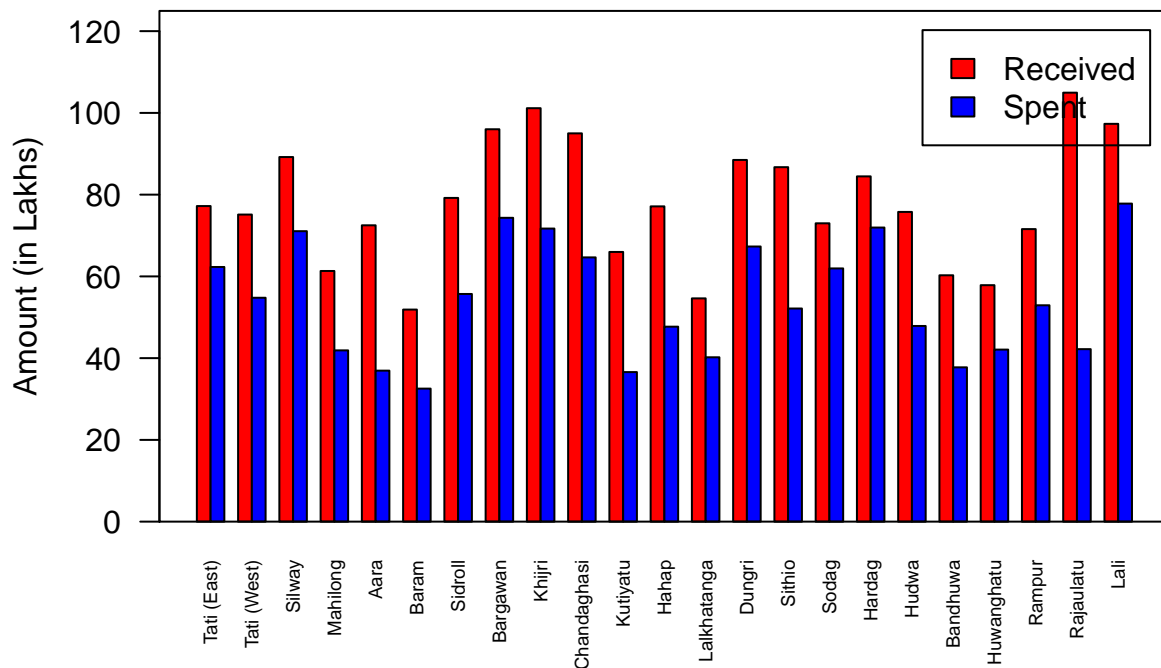
**Analysis of year 2018–2019**

```
#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()
```
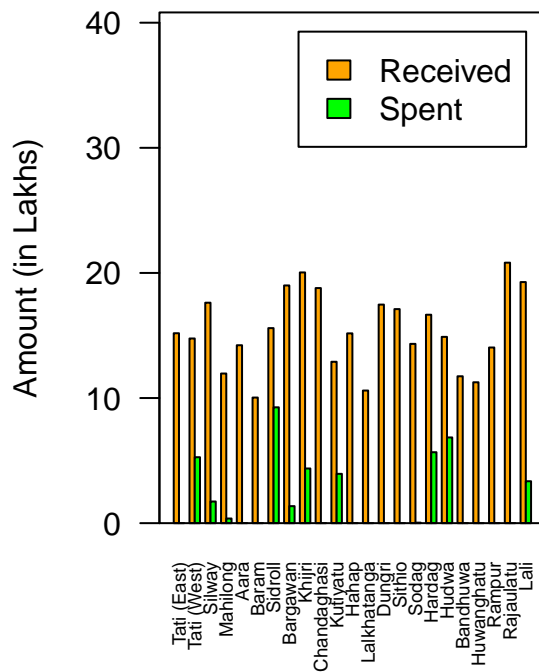


Analysis of Namkum Block (2015–19)

```
#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)
```
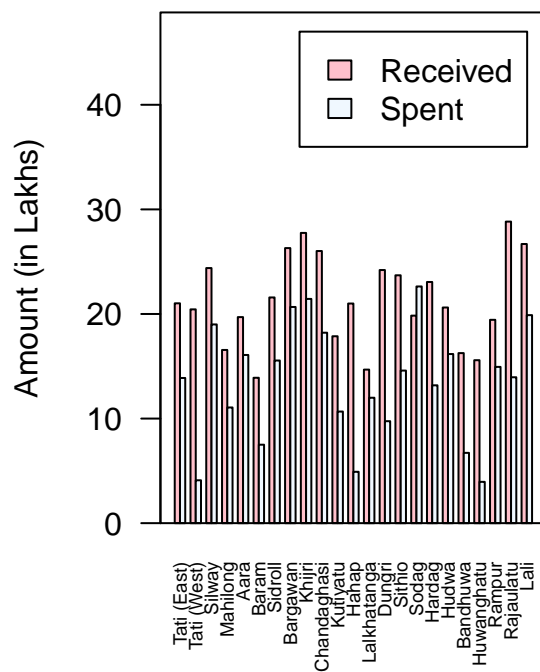
**Yearwise Plots**

```r
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()
```

**Analysis of year 2015–2016**          **Analysis of year 2016–2017**



```
#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$pnchayat, xpd=TRUE, srt=45)
```
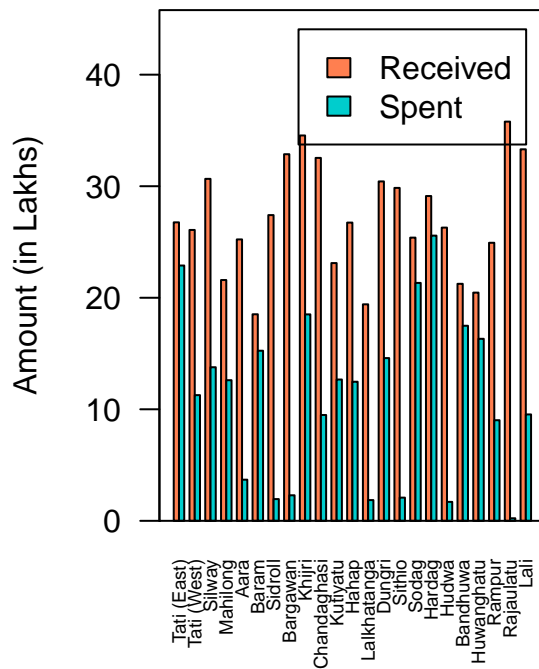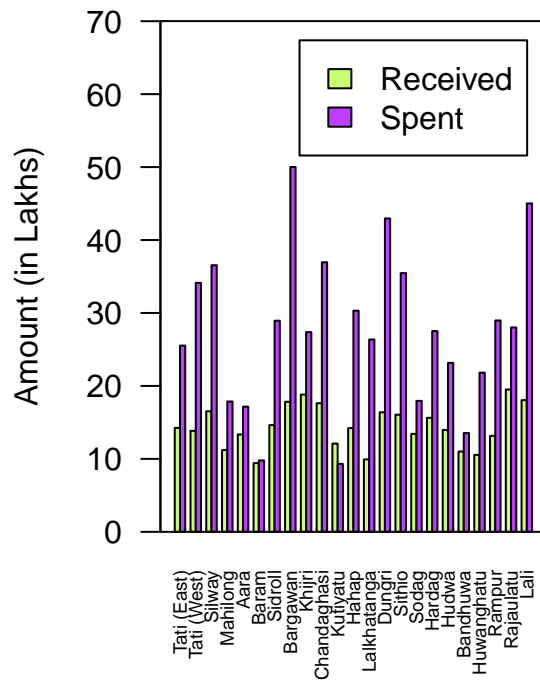
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
              ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```



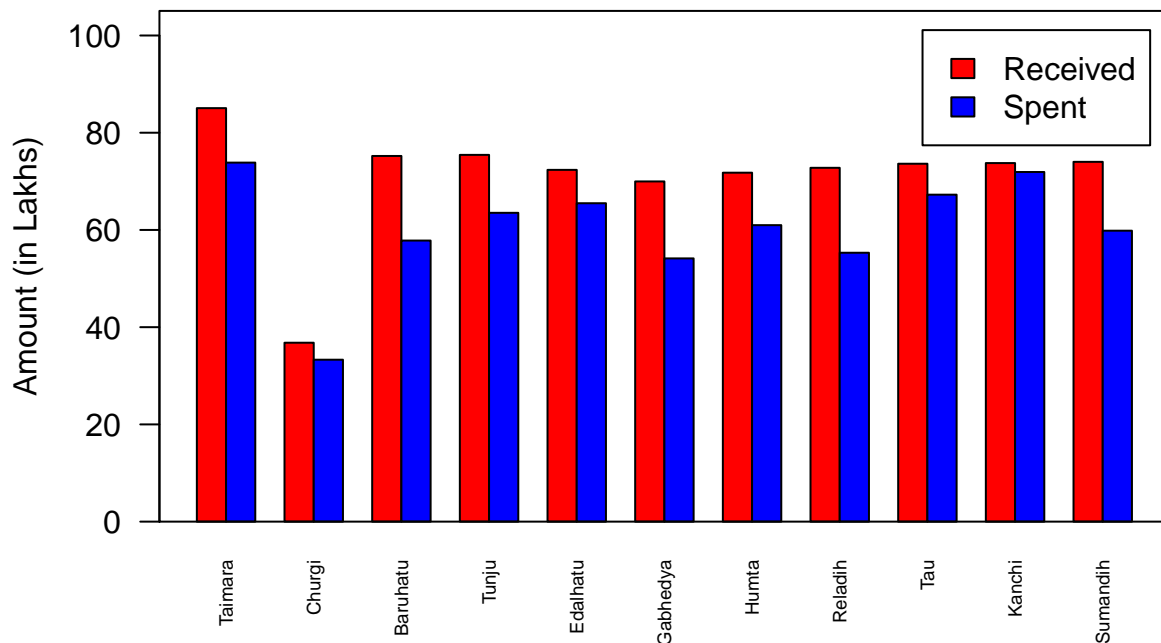Analysis of year 2017–2018



Analysis of year 2018–2019

```
#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

```r
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()
```
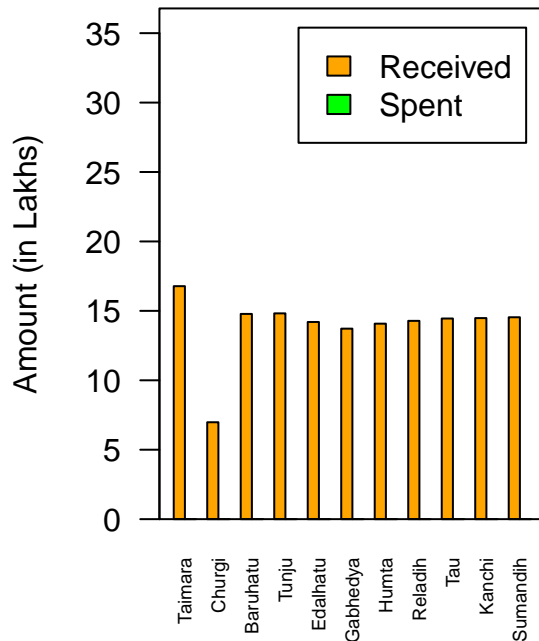
## Analysis of Bundu Block (2015–19)



```r
#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)
```
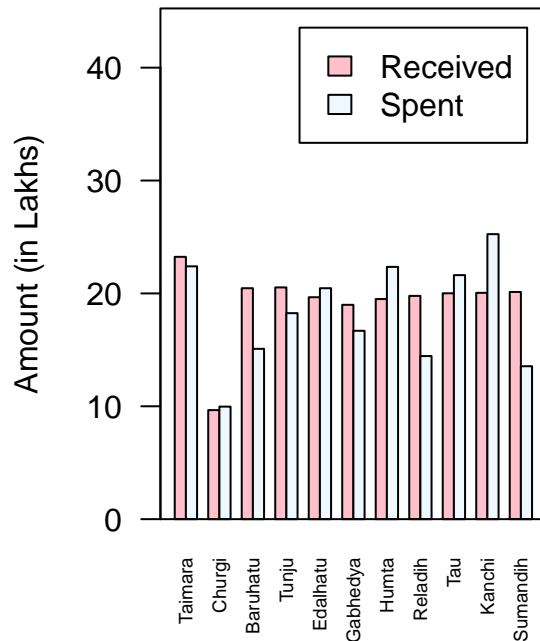
**Yearwise Plots**

```r
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()
```

## Analysis of year 2015–2016
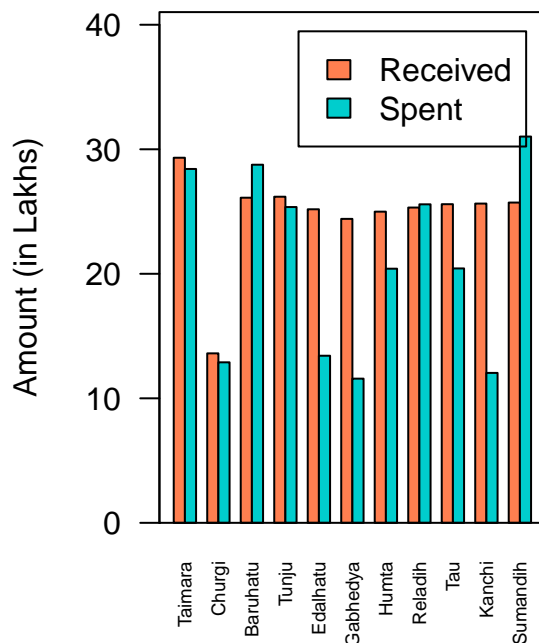
## Analysis of year 2016–2017

```
#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$pnchayat, xpd=TRUE, srt=45)
```
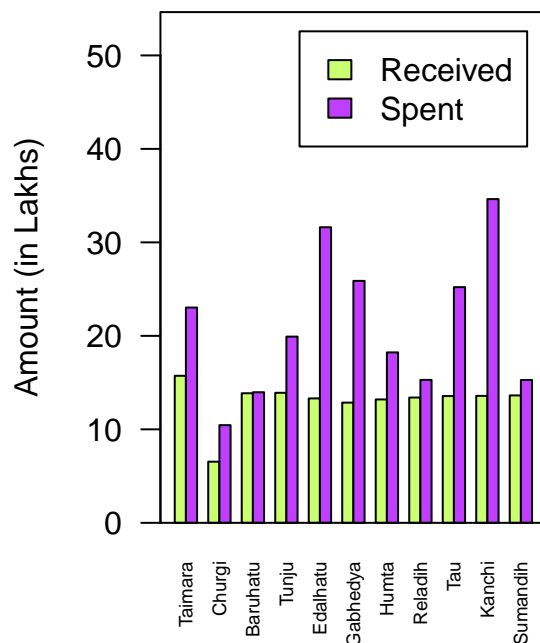
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
              ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```



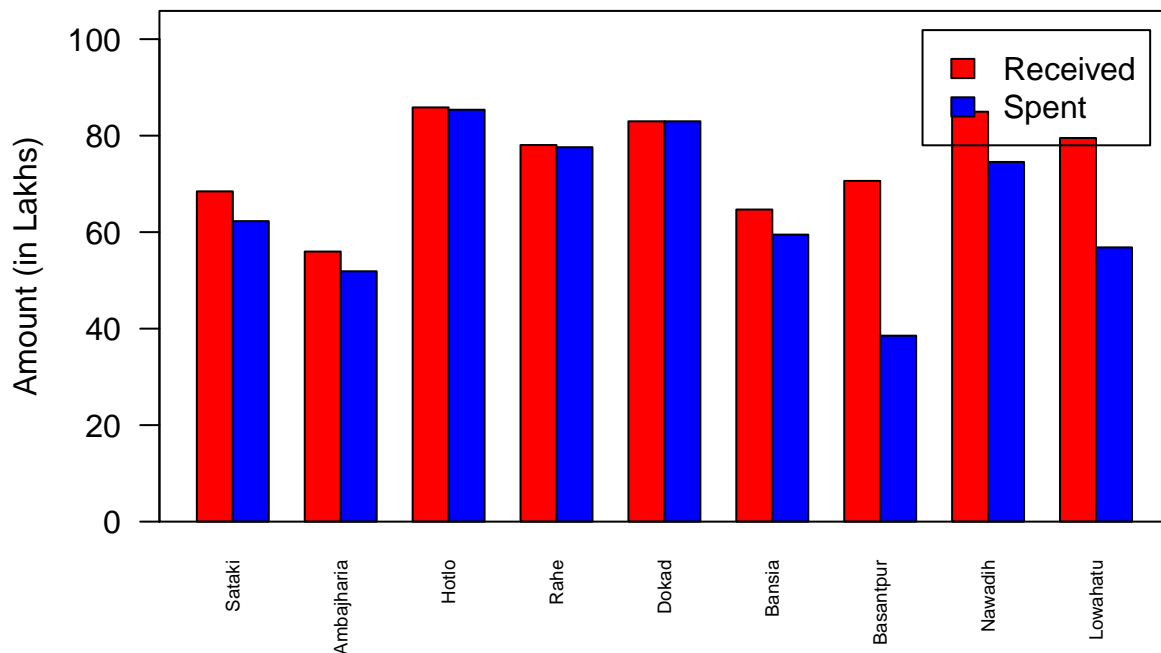Analysis of year 2017–2018

Analysis of year 2018–2019

```
#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

```r
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()
```
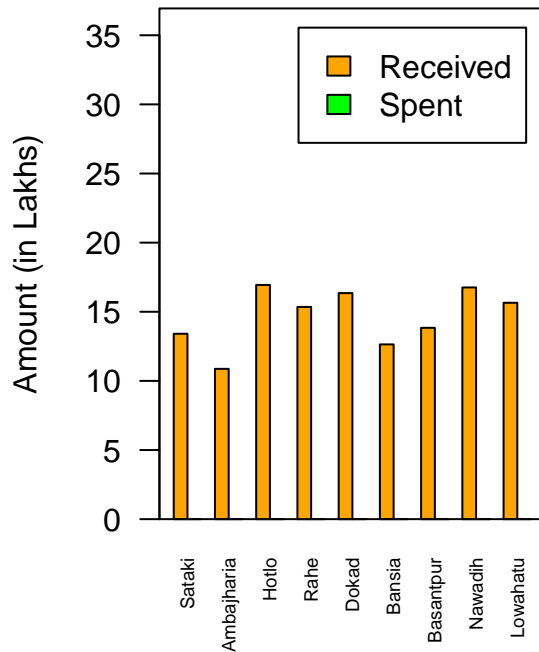


**Analysis of Rahe Block (2015–19)**

```r
#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)
```
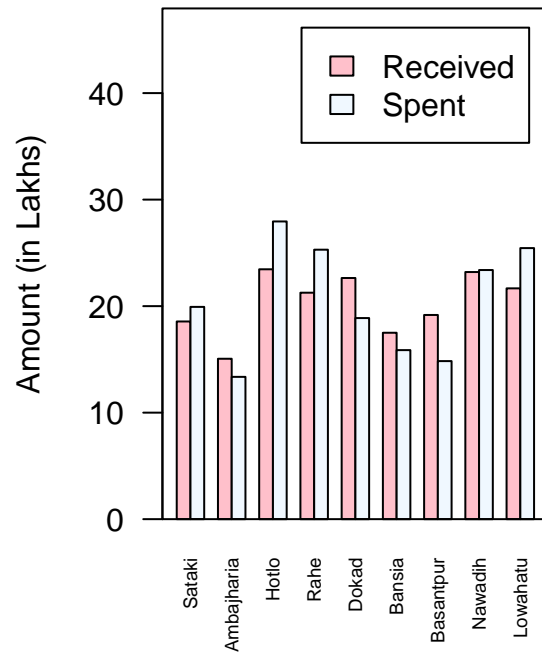
**Yearwise Plots**

```r
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()
```

## Analysis of year 2015–2016



## Analysis of year 2016–2017



```
#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$pnchayat, xpd=TRUE, srt=45)
```
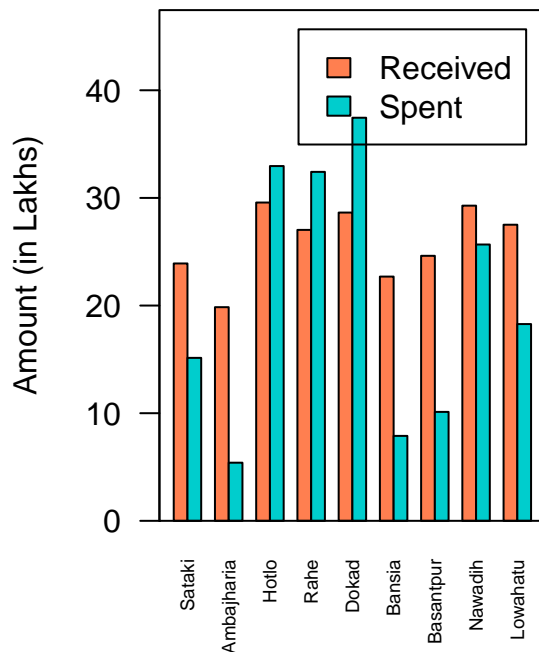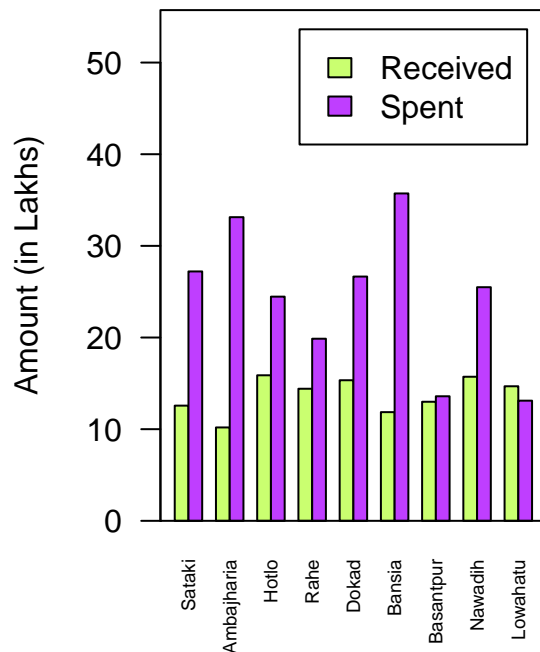
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
               ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```



**Analysis of year 2017–2018**
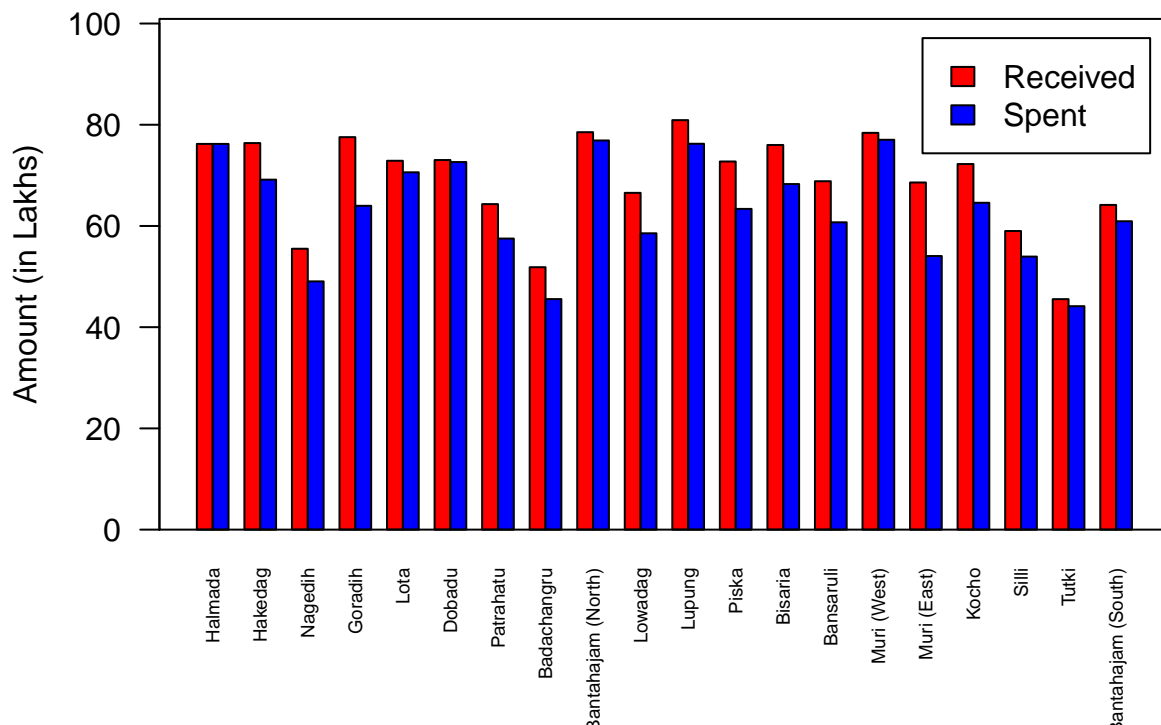


**Analysis of year 2018–2019**

```
#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

```r
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()
```
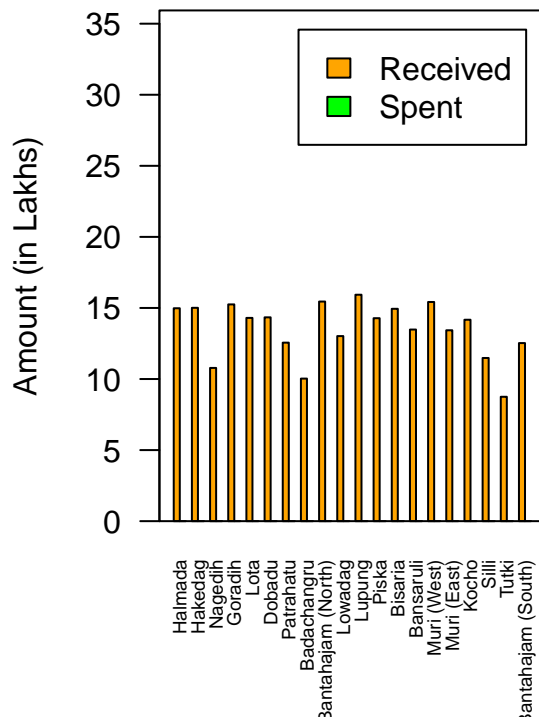


**Analysis of Silli Block (2015–19)**

```r
#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)
```
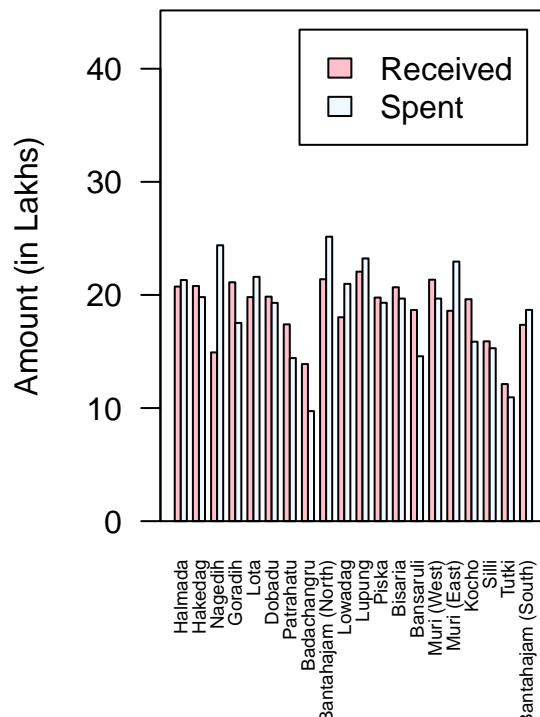
**Yearwise Plots**

```r
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()
```

## Analysis of year 2015–2016



## Analysis of year 2016–2017



```
#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]))
```
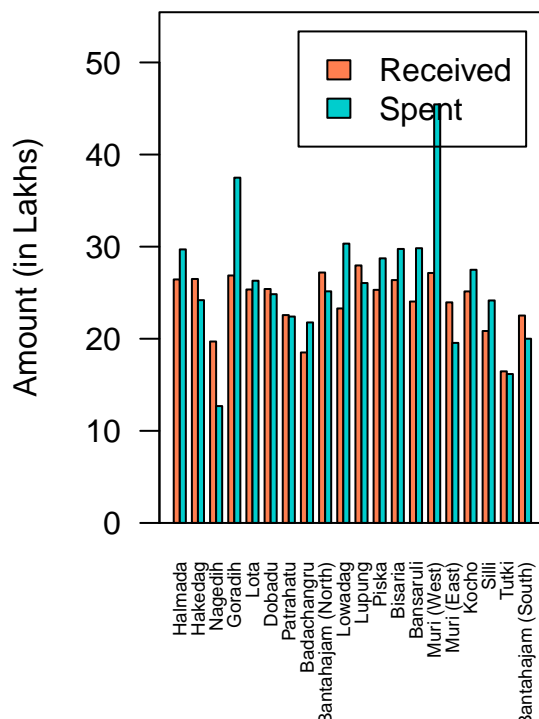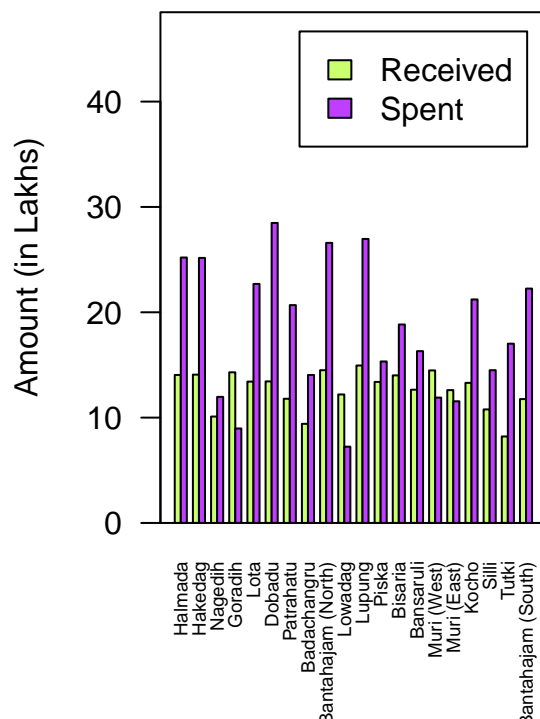
```
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
                ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  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()
```



**Analysis of year 2017–2018**

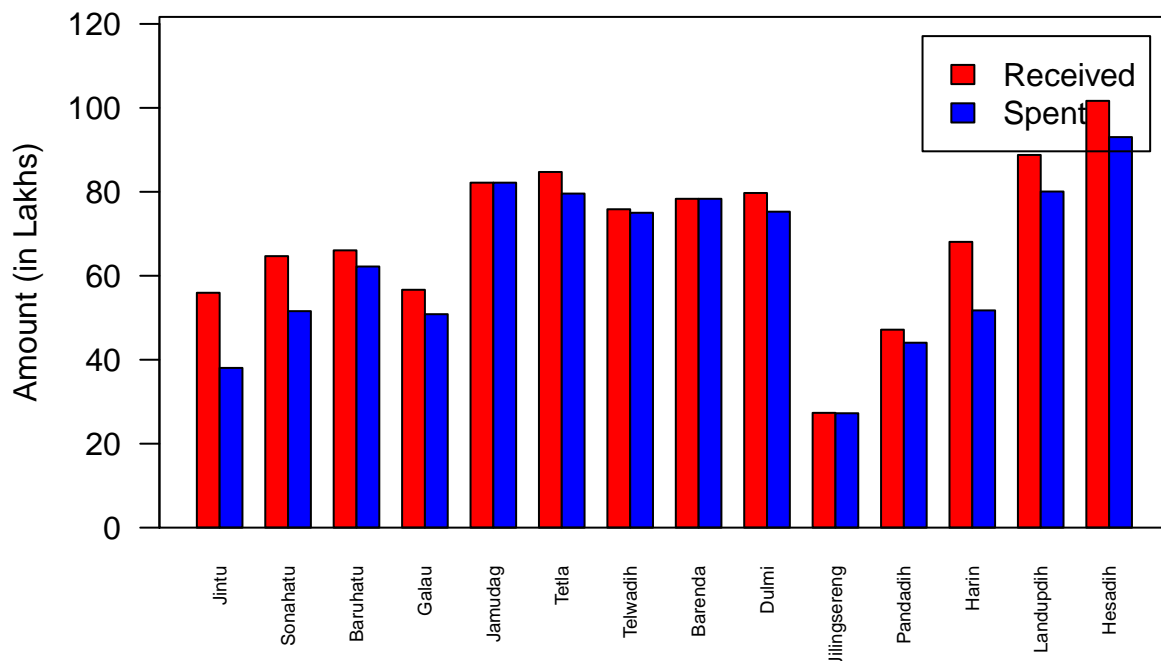**Analysis of year 2018–2019**

```
#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

```r
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()
```

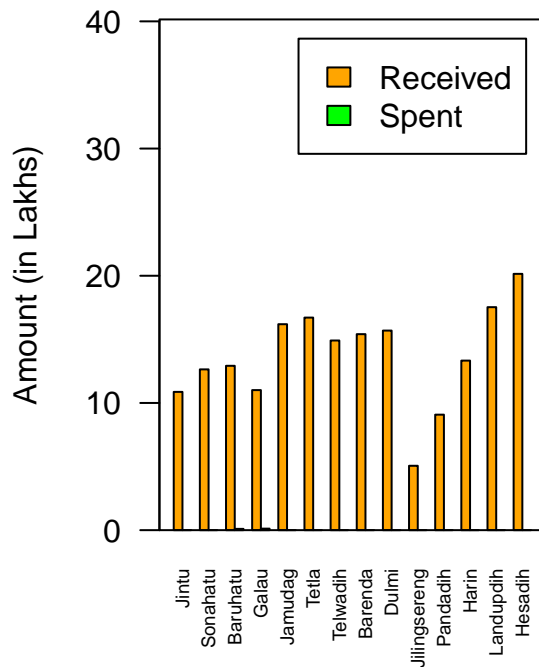

**Analysis of Sonhatu Block (2015–19)**

```r
#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)
```
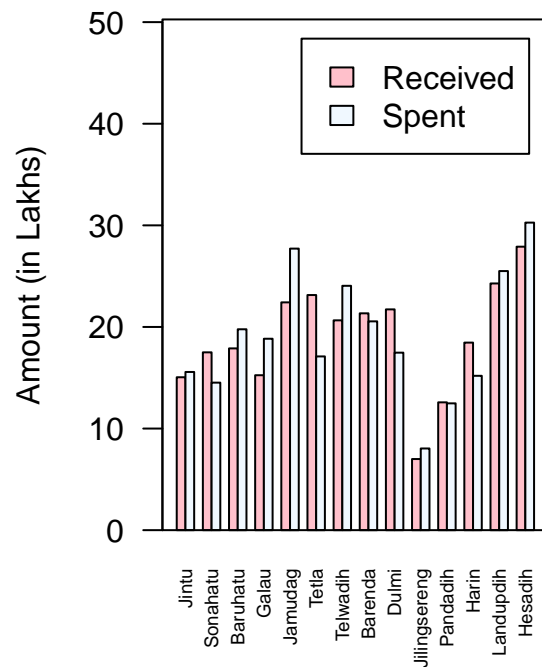
**Yearwise Plots**

```r
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()
```

## Analysis of year 2015–2016　Analysis of year 2016–2017



```
#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$pnchayat, xpd=TRUE, srt=45)
```
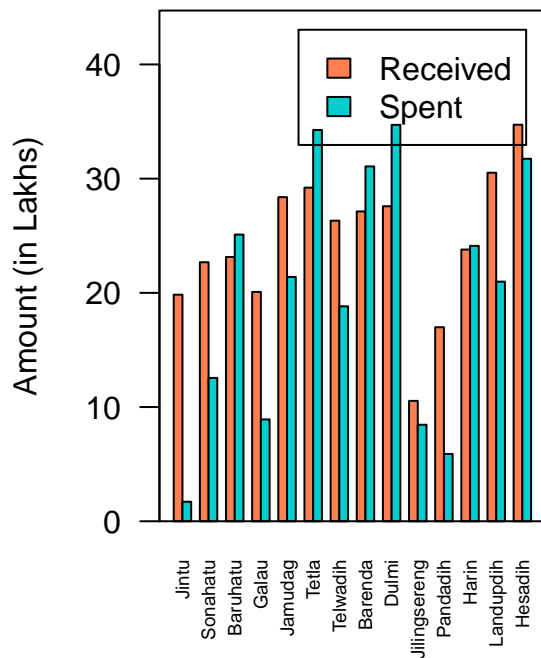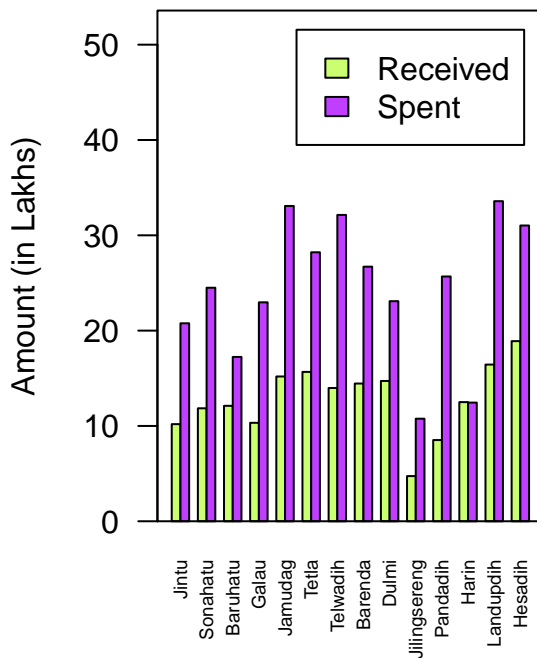
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
                ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```

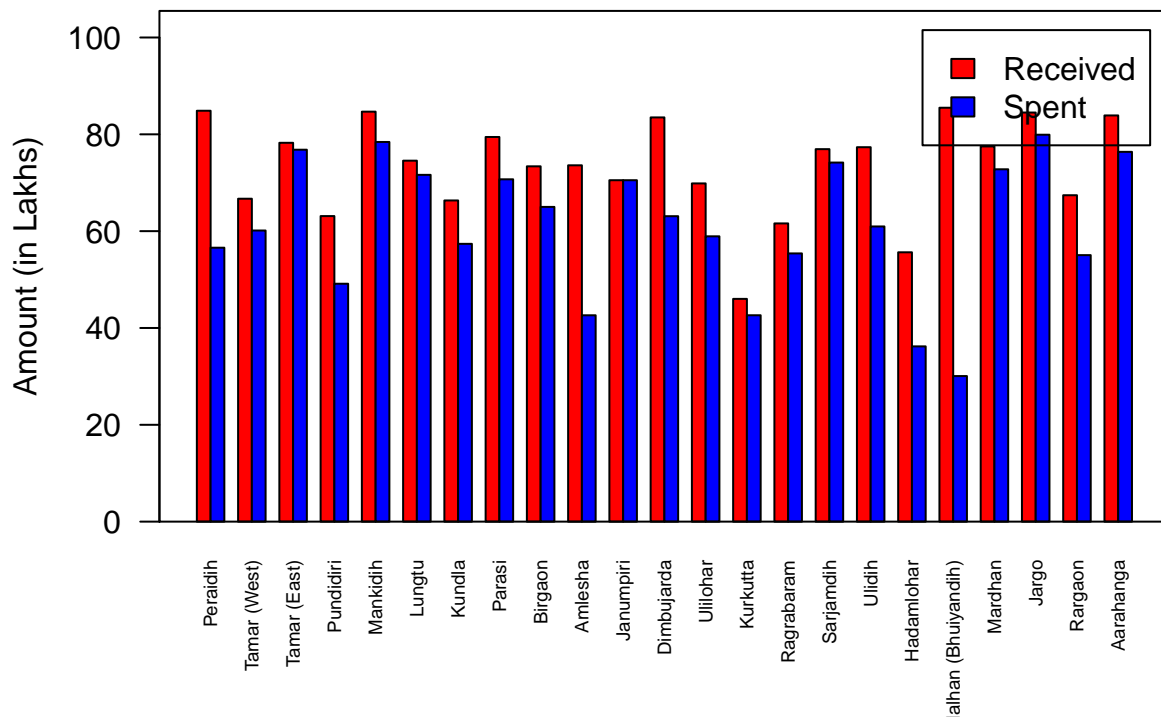## Analysis of year 2017–2018  ## Analysis of year 2018–2019



```
#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

```r
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()
```
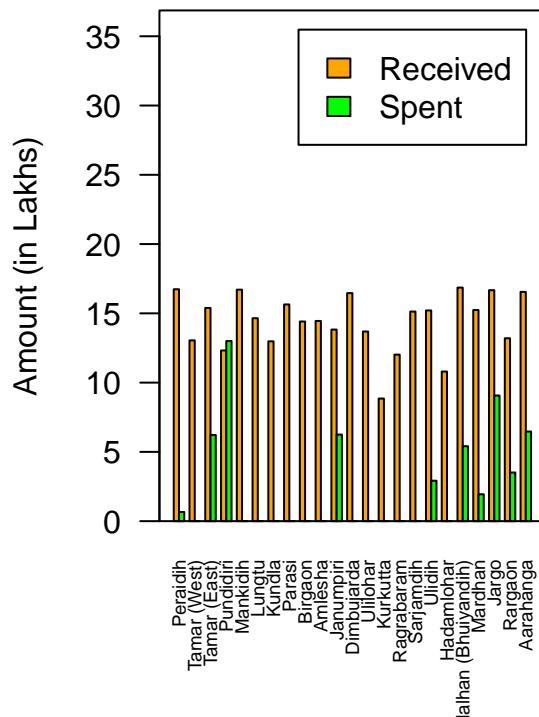


**Analysis of Tamar Block (2015–19)**

```r
#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)
```
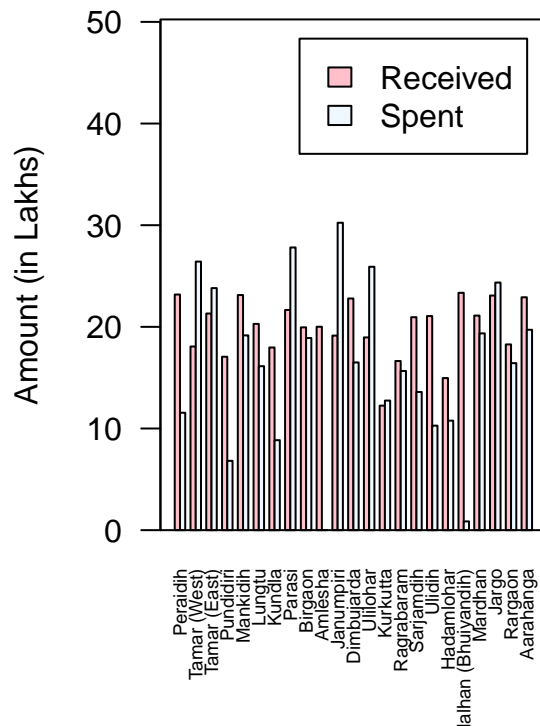
**Yearwise Plots**

```r
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()
```

## Analysis of year 2015–2016
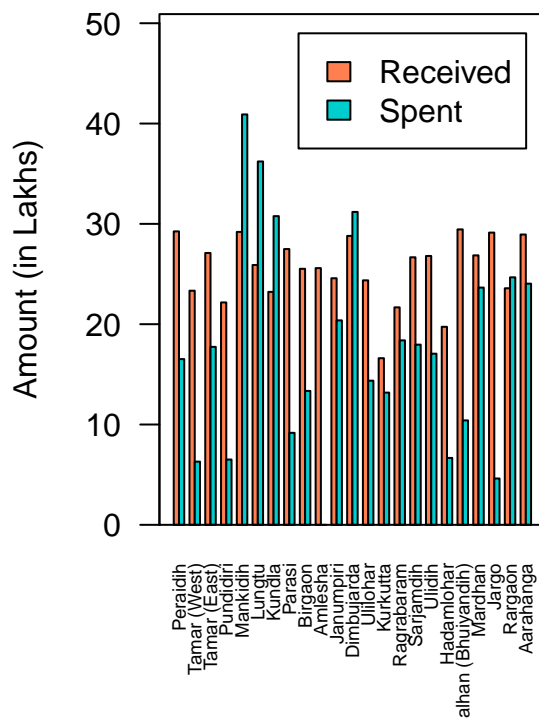
## Analysis of year 2016–2017



```
#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$pnchayat, xpd=TRUE, srt=45)
```
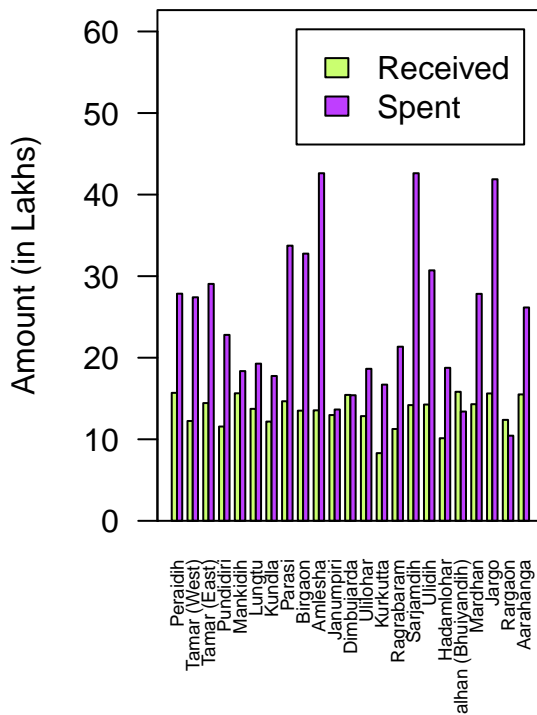
```
pnchyt=c((block[3]))
spent=as.numeric(unlist(c(block[14])))/100000
receive=as.numeric(unlist(c(block[9])))/100000
b_p=data.frame(pnchyt,round(receive,digits = 2)
              ,round(spent,digits = 2))
names(b_p)=c('pnchayat','receive','spent')
cols=c("darkolivegreen1","darkorchid1")
barplot(
  t(b_p[c('receive','spent')]),
  beside=T,
  ylim = c(0,20+max(c(receive,spent))),
  col=cols,
  main ='Analysis of year 2018-2019',
  names.arg=b_p$pnchayat,
  las=2, cex.names = 0.6,# xaxt='n',
  ylab='Amount (in Lakhs)',
  legend.text=c('Received','Spent')
)
box()
```

## Analysis of year 2017–2018



## Analysis of year 2018–2019



```
#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)
```