

BalsamPheno.R

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```
library(dplyr)
```

```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##   filter, lag

## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union
```

```
library(tidyr)
```

```
## Warning: package 'tidyr' was built under R version 3.2.5
```

```
library(lubridate)
```

```
## Warning: package 'lubridate' was built under R version 3.2.5
```

```
##
## Attaching package: 'lubridate'

## The following object is masked from 'package:base':
##
##   date
```

```
setwd("D:/Iowa State University/Debinski Lab/Nectar data/MAL")
```

```
bp1 <- read.csv("nectar analysis/data files/raw data/Balsamroot phenology/160528.csv", header = T, as.is = T)
bp2 <- read.csv("nectar analysis/data files/raw data/Balsamroot phenology/160531.csv", header = T, as.is = T)
bp3 <- read.csv("nectar analysis/data files/raw data/Balsamroot phenology/160603.csv", header = T, as.is = T)
bp4 <- read.csv("nectar analysis/data files/raw data/Balsamroot phenology/160606.csv", header = T, as.is = T)
bp5 <- read.csv("nectar analysis/data files/raw data/Balsamroot phenology/160609.csv", header = T, as.is = T)
bp6 <- read.csv("nectar analysis/data files/raw data/Balsamroot phenology/160612.csv", header = T, as.is = T)
bp7 <- read.csv("nectar analysis/data files/raw data/Balsamroot phenology/160615.csv", header = T, as.is = T)
bp8 <- read.csv("nectar analysis/data files/raw data/Balsamroot phenology/160622.csv", header = T, as.is = T)
bp9 <- read.csv("nectar analysis/data files/raw data/Balsamroot phenology/160625.csv", header = T, as.is = T)
```

```
bpall <- as.data.frame(rbind(bp1, bp2, bp3, bp4, bp5, bp6, bp7, bp8, bp9))
```

```
bpall <- bpall[,-c(12:1002)]
rm(bp1, bp2, bp3, bp4, bp5, bp6, bp7, bp8, bp9)
```

```
#create unique plant ID
bpall$plantid <- paste(bpall$Plot.ID, bpall$Plant.ID, sep = "-")
```

```
#create treatment category
bpall$treatment <- gsub("^C", "", bpall$Plot.ID)
bpall$treatment <- gsub("W", "", bpall$treatment)
```

```

bpall$treatment <- gsub("E", "", bpall$treatment)
bpall$treatment <- gsub("HSR", "H", bpall$treatment)
bpall$treatment <- gsub("SR", "C", bpall$treatment)
bpall$treatment <- gsub('[:digit:]]+', ' ', bpall$treatment)

#remove plants that have no flowers
bpsmall <- bpall[!(is.na(bpall$Flower.height)),]
bpsmall <- bpsmall[bpsmall$Flower.height != "0",]
bpsmall <- bpsmall[!(is.na(bpsmall$Leaf.height)),] #three leaf heights were recorded as flower heights
rm(bpall)
bpsmall <- bpsmall[,-c(2,4:5, 7, 11)]

bpsmall <- rename(bpsmall, plot = Plot.ID, date = Date, BD = Buds, FF = Fully.flowering, SG = Senescing)

bpsmall <- bpsmall[,c(1,7,8,2,3,4,5,6)]

bpsmall$date <- mdy(bpsmall$date)
bpsmall$plot <- as.factor(bpsmall$plot)
bpsmall$plantid <- as.factor(bpsmall$plantid)
bpsmall$treatment <- as.factor(bpsmall$treatment)

bpsmall[is.na(bpsmall)] <- 0
bpsmall$TF <- rowSums(bpsmall[,5:8])

#To get the maximum number of flowers for plant CC6-1 in the senesced column:
#max(subset(bpsmall, plantid == "CC6-1", select = c(1:9))$SD)

cc1 <- subset(bpsmall, plantid == "CC6-1", select = c(1:9))
cc10 <- subset(bpsmall, plantid == "CC6-10", select = c(1:9))
cc4 <- subset(bpsmall, plantid == "CC6-4", select = c(1:9))
cc9 <- subset(bpsmall, plantid == "CC6-9", select = c(1:9))

ch2 <- subset(bpsmall, plantid == "CH5-2", select = c(1:9))
ch3 <- subset(bpsmall, plantid == "CH5-3", select = c(1:9))
ch4 <- subset(bpsmall, plantid == "CH5-4", select = c(1:9))
ch5 <- subset(bpsmall, plantid == "CH5-5", select = c(1:9))
ch6 <- subset(bpsmall, plantid == "CH5-6", select = c(1:9))
ch7 <- subset(bpsmall, plantid == "CH5-7", select = c(1:9))

chsr1 <- subset(bpsmall, plantid == "CHSR8-1", select = c(1:9))
chsr2 <- subset(bpsmall, plantid == "CHSR8-2", select = c(1:9))
chsr4 <- subset(bpsmall, plantid == "CHSR8-4", select = c(1:9))
chsr5 <- subset(bpsmall, plantid == "CHSR8-5", select = c(1:9))
chsr6 <- subset(bpsmall, plantid == "CHSR8-6", select = c(1:9))

csr1 <- subset(bpsmall, plantid == "CSR7-1", select = c(1:9))
csr3 <- subset(bpsmall, plantid == "CSR7-3", select = c(1:9))
csr5 <- subset(bpsmall, plantid == "CSR7-5", select = c(1:9))
csr6 <- subset(bpsmall, plantid == "CSR7-6", select = c(1:9))
csr8 <- subset(bpsmall, plantid == "CSR7-8", select = c(1:9))
csr9 <- subset(bpsmall, plantid == "CSR7-9", select = c(1:9))

ec1 <- subset(bpsmall, plantid == "EC3-1", select = c(1:9))

```

```

ec3 <- subset(bpsmall, plantid == "EC3-3", select = c(1:9))

eh11 <- subset(bpsmall, plantid == "EH4-11", select = c(1:9))
eh3 <- subset(bpsmall, plantid == "EH4-3", select = c(1:9))
eh4 <- subset(bpsmall, plantid == "EH4-4", select = c(1:9))
eh5 <- subset(bpsmall, plantid == "EH4-5", select = c(1:9))
eh6 <- subset(bpsmall, plantid == "EH4-6", select = c(1:9))
eh7 <- subset(bpsmall, plantid == "EH4-7", select = c(1:9))
eh8 <- subset(bpsmall, plantid == "EH4-8", select = c(1:9))
eh9 <- subset(bpsmall, plantid == "EH4-9", select = c(1:9))

ehsr1 <- subset(bpsmall, plantid == "EHSR1-1", select = c(1:9))
ehsr2 <- subset(bpsmall, plantid == "EHSR1-2", select = c(1:9))
ehsr4 <- subset(bpsmall, plantid == "EHSR1-4", select = c(1:9))
ehsr5 <- subset(bpsmall, plantid == "EHSR1-5", select = c(1:9))

esr1 <- subset(bpsmall, plantid == "ESR2-1", select = c(1:9))
esr11 <- subset(bpsmall, plantid == "ESR2-11", select = c(1:9))
esr2 <- subset(bpsmall, plantid == "ESR2-2", select = c(1:9))
esr3 <- subset(bpsmall, plantid == "ESR2-3", select = c(1:9))
esr4 <- subset(bpsmall, plantid == "ESR2-4", select = c(1:9))
esr6 <- subset(bpsmall, plantid == "ESR2-6", select = c(1:9))
esr8 <- subset(bpsmall, plantid == "ESR2-8", select = c(1:9))

wc1 <- subset(bpsmall, plantid == "WC11-1", select = c(1:9))
wc2 <- subset(bpsmall, plantid == "WC11-2", select = c(1:9))
wc3 <- subset(bpsmall, plantid == "WC11-3", select = c(1:9))
wc4 <- subset(bpsmall, plantid == "WC11-4", select = c(1:9))
wc5 <- subset(bpsmall, plantid == "WC11-5", select = c(1:9))
wc7 <- subset(bpsmall, plantid == "WC11-7", select = c(1:9))

whsr1 <- subset(bpsmall, plantid == "WHSR9-1", select = c(1:9))
whsr2 <- subset(bpsmall, plantid == "WHSR9-2", select = c(1:9))
whsr3 <- subset(bpsmall, plantid == "WHSR9-3", select = c(1:9))
whsr4 <- subset(bpsmall, plantid == "WHSR9-4", select = c(1:9))

wsr1 <- subset(bpsmall, plantid == "WSR10-1", select = c(1:9))
wsr3 <- subset(bpsmall, plantid == "WSR10-3", select = c(1:9))
wsr7 <- subset(bpsmall, plantid == "WSR10-7", select = c(1:9))
wsr9 <- subset(bpsmall, plantid == "WSR10-9", select = c(1:9))

# Heated plots
ch2

```

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 58	CH5	CH5-2	H	2016-05-28	6	0	0	0	6
## 216	CH5	CH5-2	H	2016-05-31	8	0	0	0	8
## 374	CH5	CH5-2	H	2016-06-03	7	1	0	0	8
## 532	CH5	CH5-2	H	2016-06-06	0	0	0	0	0
## 690	CH5	CH5-2	H	2016-06-09	0	8	0	0	8
## 848	CH5	CH5-2	H	2016-06-12	0	2	5	0	7
## 1006	CH5	CH5-2	H	2016-06-15	0	0	7	0	7
## 1165	CH5	CH5-2	H	2016-06-22	0	0	0	8	8
## 1324	CH5	CH5-2	H	2016-06-25	0	0	0	8	8

ch3

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 59	CH5	CH5-3	H	2016-05-28	6	0	0	0	6
## 217	CH5	CH5-3	H	2016-05-31	7	0	0	0	7
## 375	CH5	CH5-3	H	2016-06-03	6	0	0	0	6
## 533	CH5	CH5-3	H	2016-06-06	3	4	0	0	7
## 691	CH5	CH5-3	H	2016-06-09	0	7	0	0	7
## 849	CH5	CH5-3	H	2016-06-12	0	2	5	0	7
## 1007	CH5	CH5-3	H	2016-06-15	0	0	7	0	7
## 1166	CH5	CH5-3	H	2016-06-22	0	0	0	7	7
## 1325	CH5	CH5-3	H	2016-06-25	0	0	0	7	7

ch4

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 60	CH5	CH5-4	H	2016-05-28	8	0	0	0	8
## 218	CH5	CH5-4	H	2016-05-31	10	0	0	0	10
## 376	CH5	CH5-4	H	2016-06-03	11	0	0	0	11
## 534	CH5	CH5-4	H	2016-06-06	4	5	0	0	9
## 692	CH5	CH5-4	H	2016-06-09	0	10	0	0	10
## 850	CH5	CH5-4	H	2016-06-12	0	5	3	0	8
## 1008	CH5	CH5-4	H	2016-06-15	0	0	10	0	10
## 1167	CH5	CH5-4	H	2016-06-22	0	0	0	10	10
## 1326	CH5	CH5-4	H	2016-06-25	0	0	0	10	10

ch5

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 61	CH5	CH5-5	H	2016-05-28	4	0	0	0	4
## 219	CH5	CH5-5	H	2016-05-31	6	0	0	0	6
## 377	CH5	CH5-5	H	2016-06-03	6	0	0	0	6
## 535	CH5	CH5-5	H	2016-06-06	0	4	0	0	4
## 693	CH5	CH5-5	H	2016-06-09	0	4	0	0	4
## 851	CH5	CH5-5	H	2016-06-12	0	1	4	0	5
## 1009	CH5	CH5-5	H	2016-06-15	0	0	5	0	5
## 1168	CH5	CH5-5	H	2016-06-22	0	0	0	5	5
## 1327	CH5	CH5-5	H	2016-06-25	0	0	0	5	5

ch6

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 62	CH5	CH5-6	H	2016-05-28	14	0	0	0	14
## 220	CH5	CH5-6	H	2016-05-31	14	0	0	0	14
## 378	CH5	CH5-6	H	2016-06-03	14	0	0	0	14
## 536	CH5	CH5-6	H	2016-06-06	4	7	0	0	11
## 694	CH5	CH5-6	H	2016-06-09	1	9	0	0	10
## 852	CH5	CH5-6	H	2016-06-12	1	9	2	0	12
## 1010	CH5	CH5-6	H	2016-06-15	0	2	10	0	12
## 1169	CH5	CH5-6	H	2016-06-22	0	0	0	12	12
## 1328	CH5	CH5-6	H	2016-06-25	0	0	0	12	12

ch7

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 63	CH5	CH5-7	H	2016-05-28	11	0	0	0	11
## 221	CH5	CH5-7	H	2016-05-31	15	0	0	0	15
## 379	CH5	CH5-7	H	2016-06-03	16	0	0	0	16

##	537	CH5	CH5-7	H	2016-06-06	9	6	0	0	15
##	695	CH5	CH5-7	H	2016-06-09	3	11	0	0	14
##	853	CH5	CH5-7	H	2016-06-12	1	5	9	0	15
##	1011	CH5	CH5-7	H	2016-06-15	0	2	15	0	17
##	1170	CH5	CH5-7	H	2016-06-22	0	0	0	17	17
##	1329	CH5	CH5-7	H	2016-06-25	0	0	0	16	16

chsr1

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF	
##	95	CHSR8	CHSR8-1	H	2016-05-28	3	0	0	0	3
##	253	CHSR8	CHSR8-1	H	2016-05-31	3	0	0	0	3
##	411	CHSR8	CHSR8-1	H	2016-06-03	4	0	0	0	4
##	569	CHSR8	CHSR8-1	H	2016-06-06	0	3	0	0	3
##	727	CHSR8	CHSR8-1	H	2016-06-09	0	3	0	0	3
##	885	CHSR8	CHSR8-1	H	2016-06-12	0	2	2	0	4
##	1043	CHSR8	CHSR8-1	H	2016-06-15	0	1	3	0	4
##	1202	CHSR8	CHSR8-1	H	2016-06-22	0	0	0	4	4
##	1361	CHSR8	CHSR8-1	H	2016-06-25	0	0	0	4	4

chsr2

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF	
##	96	CHSR8	CHSR8-2	H	2016-05-28	9	0	0	0	9
##	254	CHSR8	CHSR8-2	H	2016-05-31	10	0	0	0	10
##	412	CHSR8	CHSR8-2	H	2016-06-03	8	0	0	0	8
##	570	CHSR8	CHSR8-2	H	2016-06-06	3	5	0	0	8
##	728	CHSR8	CHSR8-2	H	2016-06-09	1	7	0	0	8
##	886	CHSR8	CHSR8-2	H	2016-06-12	0	2	5	0	7
##	1044	CHSR8	CHSR8-2	H	2016-06-15	0	1	8	0	9
##	1203	CHSR8	CHSR8-2	H	2016-06-22	0	0	0	8	8
##	1362	CHSR8	CHSR8-2	H	2016-06-25	0	0	0	8	8

chsr4

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF	
##	98	CHSR8	CHSR8-4	H	2016-05-28	27	0	0	0	27
##	256	CHSR8	CHSR8-4	H	2016-05-31	35	0	0	0	35
##	414	CHSR8	CHSR8-4	H	2016-06-03	41	0	0	0	41
##	572	CHSR8	CHSR8-4	H	2016-06-06	34	8	0	0	42
##	730	CHSR8	CHSR8-4	H	2016-06-09	22	15	0	0	37
##	888	CHSR8	CHSR8-4	H	2016-06-12	7	22	3	0	32
##	1046	CHSR8	CHSR8-4	H	2016-06-15	4	18	12	0	34
##	1205	CHSR8	CHSR8-4	H	2016-06-22	0	0	5	44	49
##	1364	CHSR8	CHSR8-4	H	2016-06-25	0	0	14	34	48

chsr5

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF	
##	99	CHSR8	CHSR8-5	H	2016-05-28	8	0	0	0	8
##	257	CHSR8	CHSR8-5	H	2016-05-31	8	0	0	0	8
##	415	CHSR8	CHSR8-5	H	2016-06-03	8	0	0	0	8
##	573	CHSR8	CHSR8-5	H	2016-06-06	2	6	0	0	8
##	731	CHSR8	CHSR8-5	H	2016-06-09	1	7	0	0	8
##	889	CHSR8	CHSR8-5	H	2016-06-12	0	4	4	0	8
##	1047	CHSR8	CHSR8-5	H	2016-06-15	0	2	6	0	8
##	1206	CHSR8	CHSR8-5	H	2016-06-22	0	0	0	8	8
##	1365	CHSR8	CHSR8-5	H	2016-06-25	0	0	0	7	7

chsr6

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 100	CHSR8	CHSR8-6	H	2016-05-28	7	0	0	0	7
## 258	CHSR8	CHSR8-6	H	2016-05-31	8	0	0	0	8
## 416	CHSR8	CHSR8-6	H	2016-06-03	4	3	0	0	7
## 574	CHSR8	CHSR8-6	H	2016-06-06	3	5	0	0	8
## 732	CHSR8	CHSR8-6	H	2016-06-09	1	7	0	0	8
## 890	CHSR8	CHSR8-6	H	2016-06-12	0	3	5	0	8
## 1048	CHSR8	CHSR8-6	H	2016-06-15	0	2	6	0	8
## 1207	CHSR8	CHSR8-6	H	2016-06-22	0	0	0	8	8
## 1366	CHSR8	CHSR8-6	H	2016-06-25	0	0	0	8	8

eh11

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 45	EH4	EH4-11	H	2016-05-28	1	0	0	0	1
## 203	EH4	EH4-11	H	2016-05-31	2	0	0	0	2
## 361	EH4	EH4-11	H	2016-06-03	1	0	0	0	1
## 519	EH4	EH4-11	H	2016-06-06	2	0	0	0	2
## 677	EH4	EH4-11	H	2016-06-09	1	1	0	0	2
## 835	EH4	EH4-11	H	2016-06-12	1	1	0	0	2
## 993	EH4	EH4-11	H	2016-06-15	1	1	0	0	2
## 1152	EH4	EH4-11	H	2016-06-22	0	0	0	2	2
## 1311	EH4	EH4-11	H	2016-06-25	0	0	0	2	2

eh3

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 37	EH4	EH4-3	H	2016-05-28	17	0	0	0	17
## 195	EH4	EH4-3	H	2016-05-31	19	0	0	0	19
## 353	EH4	EH4-3	H	2016-06-03	10	3	0	0	13
## 511	EH4	EH4-3	H	2016-06-06	5	10	0	0	15
## 669	EH4	EH4-3	H	2016-06-09	6	12	0	0	18
## 827	EH4	EH4-3	H	2016-06-12	2	10	3	0	15
## 985	EH4	EH4-3	H	2016-06-15	1	0	17	0	18
## 1144	EH4	EH4-3	H	2016-06-22	0	0	0	18	18
## 1303	EH4	EH4-3	H	2016-06-25	0	0	0	18	18

eh4

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 38	EH4	EH4-4	H	2016-05-28	11	0	0	0	11
## 196	EH4	EH4-4	H	2016-05-31	10	0	0	0	10
## 354	EH4	EH4-4	H	2016-06-03	9	1	0	0	10
## 512	EH4	EH4-4	H	2016-06-06	8	2	0	0	10
## 670	EH4	EH4-4	H	2016-06-09	4	7	0	0	11
## 828	EH4	EH4-4	H	2016-06-12	2	8	1	0	11
## 986	EH4	EH4-4	H	2016-06-15	0	8	1	0	9
## 1145	EH4	EH4-4	H	2016-06-22	0	0	0	12	12
## 1304	EH4	EH4-4	H	2016-06-25	0	0	0	12	12

eh5

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 39	EH4	EH4-5	H	2016-05-28	1	0	0	0	1
## 197	EH4	EH4-5	H	2016-05-31	1	0	0	0	1
## 355	EH4	EH4-5	H	2016-06-03	1	0	0	0	1

##	513	EH4	EH4-5	H	2016-06-06	1	0	0	0	1
##	671	EH4	EH4-5	H	2016-06-09	0	1	0	0	1
##	829	EH4	EH4-5	H	2016-06-12	0	1	0	0	1
##	987	EH4	EH4-5	H	2016-06-15	0	0	1	0	1
##	1146	EH4	EH4-5	H	2016-06-22	0	0	0	2	2
##	1305	EH4	EH4-5	H	2016-06-25	0	0	0	2	2

eh6

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF	
##	40	EH4	EH4-6	H	2016-05-28	13	0	0	0	13
##	198	EH4	EH4-6	H	2016-05-31	14	0	0	0	14
##	356	EH4	EH4-6	H	2016-06-03	14	0	0	0	14
##	514	EH4	EH4-6	H	2016-06-06	15	0	0	0	15
##	672	EH4	EH4-6	H	2016-06-09	9	6	0	0	15
##	830	EH4	EH4-6	H	2016-06-12	0	10	1	0	11
##	988	EH4	EH4-6	H	2016-06-15	4	7	3	0	14
##	1147	EH4	EH4-6	H	2016-06-22	0	0	0	17	17
##	1306	EH4	EH4-6	H	2016-06-25	0	0	0	14	14

eh7

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF	
##	41	EH4	EH4-7	H	2016-05-28	2	0	0	0	2
##	199	EH4	EH4-7	H	2016-05-31	2	0	0	0	2
##	357	EH4	EH4-7	H	2016-06-03	4	0	0	0	4
##	515	EH4	EH4-7	H	2016-06-06	2	1	0	0	3
##	673	EH4	EH4-7	H	2016-06-09	1	1	0	0	2
##	831	EH4	EH4-7	H	2016-06-12	0	1	1	0	2
##	989	EH4	EH4-7	H	2016-06-15	0	1	1	0	2
##	1148	EH4	EH4-7	H	2016-06-22	0	0	0	3	3
##	1307	EH4	EH4-7	H	2016-06-25	0	0	0	3	3

eh8

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF	
##	42	EH4	EH4-8	H	2016-05-28	5	0	0	0	5
##	200	EH4	EH4-8	H	2016-05-31	5	0	0	0	5
##	358	EH4	EH4-8	H	2016-06-03	4	0	0	0	4
##	516	EH4	EH4-8	H	2016-06-06	3	2	0	0	5
##	674	EH4	EH4-8	H	2016-06-09	2	3	0	0	5
##	832	EH4	EH4-8	H	2016-06-12	0	4	1	0	5
##	990	EH4	EH4-8	H	2016-06-15	1	3	2	0	6
##	1149	EH4	EH4-8	H	2016-06-22	0	0	0	5	5
##	1308	EH4	EH4-8	H	2016-06-25	0	0	0	5	5

eh9

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF	
##	43	EH4	EH4-9	H	2016-05-28	3	0	0	0	3
##	201	EH4	EH4-9	H	2016-05-31	5	0	0	0	5
##	359	EH4	EH4-9	H	2016-06-03	4	0	0	0	4
##	517	EH4	EH4-9	H	2016-06-06	3	2	0	0	5
##	675	EH4	EH4-9	H	2016-06-09	0	4	0	0	4
##	833	EH4	EH4-9	H	2016-06-12	0	3	1	0	4
##	991	EH4	EH4-9	H	2016-06-15	0	0	3	0	3
##	1150	EH4	EH4-9	H	2016-06-22	0	0	0	3	3
##	1309	EH4	EH4-9	H	2016-06-25	0	0	0	3	3

ehsr1

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 1	EHSR1	EHSR1-1	H	2016-05-28	17	0	0	0	17
## 159	EHSR1	EHSR1-1	H	2016-05-31	19	0	0	0	19
## 317	EHSR1	EHSR1-1	H	2016-06-03	14	0	0	0	14
## 475	EHSR1	EHSR1-1	H	2016-06-06	20	0	0	0	20
## 633	EHSR1	EHSR1-1	H	2016-06-09	8	12	0	0	20
## 791	EHSR1	EHSR1-1	H	2016-06-12	4	11	0	0	15
## 949	EHSR1	EHSR1-1	H	2016-06-15	2	4	9	0	15
## 1108	EHSR1	EHSR1-1	H	2016-06-22	0	0	0	20	20
## 1267	EHSR1	EHSR1-1	H	2016-06-25	0	0	0	17	17

ehsr2

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 2	EHSR1	EHSR1-2	H	2016-05-28	14	0	0	0	14
## 160	EHSR1	EHSR1-2	H	2016-05-31	15	0	0	0	15
## 318	EHSR1	EHSR1-2	H	2016-06-03	14	0	0	0	14
## 476	EHSR1	EHSR1-2	H	2016-06-06	9	7	0	0	16
## 634	EHSR1	EHSR1-2	H	2016-06-09	3	11	0	0	14
## 792	EHSR1	EHSR1-2	H	2016-06-12	0	15	0	0	15
## 950	EHSR1	EHSR1-2	H	2016-06-15	1	0	12	0	13
## 1109	EHSR1	EHSR1-2	H	2016-06-22	0	0	0	16	16
## 1268	EHSR1	EHSR1-2	H	2016-06-25	0	0	0	14	14

ehsr4

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 4	EHSR1	EHSR1-4	H	2016-05-28	1	0	0	0	1
## 320	EHSR1	EHSR1-4	H	2016-06-03	1	0	0	0	1
## 478	EHSR1	EHSR1-4	H	2016-06-06	1	0	0	0	1
## 794	EHSR1	EHSR1-4	H	2016-06-12	0	0	1	0	1
## 952	EHSR1	EHSR1-4	H	2016-06-15	0	0	1	0	1
## 1111	EHSR1	EHSR1-4	H	2016-06-22	0	0	0	1	1
## 1270	EHSR1	EHSR1-4	H	2016-06-25	0	0	0	1	1

ehsr5

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 5	EHSR1	EHSR1-5	H	2016-05-28	6	0	0	0	6
## 163	EHSR1	EHSR1-5	H	2016-05-31	6	0	0	0	6
## 321	EHSR1	EHSR1-5	H	2016-06-03	6	0	0	0	6
## 479	EHSR1	EHSR1-5	H	2016-06-06	4	2	0	0	6
## 637	EHSR1	EHSR1-5	H	2016-06-09	2	4	0	0	6
## 795	EHSR1	EHSR1-5	H	2016-06-12	0	2	4	0	6
## 953	EHSR1	EHSR1-5	H	2016-06-15	0	0	5	0	5
## 1112	EHSR1	EHSR1-5	H	2016-06-22	0	0	0	6	6
## 1271	EHSR1	EHSR1-5	H	2016-06-25	0	0	0	6	6

whsr1

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 103	WHSR9	WHSR9-1	H	2016-05-28	9	0	0	0	9
## 261	WHSR9	WHSR9-1	H	2016-05-31	8	0	0	0	8
## 419	WHSR9	WHSR9-1	H	2016-06-03	8	1	0	0	9
## 577	WHSR9	WHSR9-1	H	2016-06-06	5	3	0	0	8
## 735	WHSR9	WHSR9-1	H	2016-06-09	4	5	0	0	9


```
## 893  WHSR9  WHSR9-1      H 2016-06-12  0  8  1  0  9
## 1051 WHSR9  WHSR9-1      H 2016-06-15  1  4  4  0  9
## 1210 WHSR9  WHSR9-1      H 2016-06-22  0  1  1  8 10
## 1369 WHSR9  WHSR9-1      H 2016-06-25  0  0  1  9 10
```

whsr2

```
##      plot plantid treatment      date BD FF SG SD TF
## 104  WHSR9  WHSR9-2      H 2016-05-28 10  0  0  0 10
## 262  WHSR9  WHSR9-2      H 2016-05-31 11  0  0  0 11
## 420  WHSR9  WHSR9-2      H 2016-06-03 11  1  0  0 12
## 578  WHSR9  WHSR9-2      H 2016-06-06  6  5  0  0 11
## 736  WHSR9  WHSR9-2      H 2016-06-09  6  9  0  0 15
## 894  WHSR9  WHSR9-2      H 2016-06-12  2  9  4  0 15
## 1052 WHSR9  WHSR9-2      H 2016-06-15  0  6  9  0 15
## 1211 WHSR9  WHSR9-2      H 2016-06-22  0  0  0 12 12
## 1370 WHSR9  WHSR9-2      H 2016-06-25  0  0  0 15 15
```

whsr3

```
##      plot plantid treatment      date BD FF SG SD TF
## 105  WHSR9  WHSR9-3      H 2016-05-28  8  0  0  0  8
## 263  WHSR9  WHSR9-3      H 2016-05-31  6  0  0  0  6
## 421  WHSR9  WHSR9-3      H 2016-06-03  8  0  0  0  8
## 579  WHSR9  WHSR9-3      H 2016-06-06  8  0  0  0  8
## 737  WHSR9  WHSR9-3      H 2016-06-09  0  8  0  0  8
## 895  WHSR9  WHSR9-3      H 2016-06-12  0  7  1  0  8
## 1053 WHSR9  WHSR9-3      H 2016-06-15  0  0  8  0  8
## 1212 WHSR9  WHSR9-3      H 2016-06-22  0  0  0  8  8
## 1371 WHSR9  WHSR9-3      H 2016-06-25  0  0  0  8  8
```

whsr4

```
##      plot plantid treatment      date BD FF SG SD TF
## 106  WHSR9  WHSR9-4      H 2016-05-28  4  0  0  0  4
## 264  WHSR9  WHSR9-4      H 2016-05-31  5  0  0  0  5
## 422  WHSR9  WHSR9-4      H 2016-06-03  6  0  0  0  6
## 580  WHSR9  WHSR9-4      H 2016-06-06  6  1  0  0  7
## 738  WHSR9  WHSR9-4      H 2016-06-09  2  6  0  0  8
## 896  WHSR9  WHSR9-4      H 2016-06-12  0  4  2  0  6
## 1054 WHSR9  WHSR9-4      H 2016-06-15  0  1  5  0  6
## 1213 WHSR9  WHSR9-4      H 2016-06-22  0  1  0  5  6
## 1372 WHSR9  WHSR9-4      H 2016-06-25  0  0  1  4  5
```

Control Plots

cc1

```
##      plot plantid treatment      date BD FF SG SD TF
## 68   CC6   CC6-1      C 2016-05-28  7  0  0  0  7
## 226  CC6   CC6-1      C 2016-05-31  7  0  0  0  7
## 384  CC6   CC6-1      C 2016-06-03  6  0  0  0  6
## 542  CC6   CC6-1      C 2016-06-06  4  1  0  0  5
## 700  CC6   CC6-1      C 2016-06-09  0  5  0  0  5
## 858  CC6   CC6-1      C 2016-06-12  0  3  2  0  5
## 1016 CC6   CC6-1      C 2016-06-15  0  1  4  0  5
## 1175 CC6   CC6-1      C 2016-06-22  0  0  0  6  6
## 1334 CC6   CC6-1      C 2016-06-25  0  0  0  4  4
```

cc10

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 77	CC6	CC6-10	C	2016-05-28	8	0	0	0	8
## 235	CC6	CC6-10	C	2016-05-31	10	0	0	0	10
## 393	CC6	CC6-10	C	2016-06-03	9	0	0	0	9
## 551	CC6	CC6-10	C	2016-06-06	4	4	0	0	8
## 709	CC6	CC6-10	C	2016-06-09	1	7	0	0	8
## 867	CC6	CC6-10	C	2016-06-12	0	2	5	0	7
## 1025	CC6	CC6-10	C	2016-06-15	1	0	7	0	8
## 1184	CC6	CC6-10	C	2016-06-22	0	0	0	8	8
## 1343	CC6	CC6-10	C	2016-06-25	0	0	0	8	8

cc4

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 229	CC6	CC6-4	C	2016-05-31	2	0	0	0	2
## 387	CC6	CC6-4	C	2016-06-03	1	0	0	0	1
## 545	CC6	CC6-4	C	2016-06-06	0	0	0	0	0

cc9

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 76	CC6	CC6-9	C	2016-05-28	10	0	0	0	10
## 234	CC6	CC6-9	C	2016-05-31	10	0	0	0	10
## 392	CC6	CC6-9	C	2016-06-03	8	0	0	0	8
## 550	CC6	CC6-9	C	2016-06-06	7	1	0	0	8
## 708	CC6	CC6-9	C	2016-06-09	2	2	0	0	4
## 866	CC6	CC6-9	C	2016-06-12	1	0	3	0	4
## 1024	CC6	CC6-9	C	2016-06-15	0	0	3	0	3
## 1183	CC6	CC6-9	C	2016-06-22	0	0	0	4	4
## 1342	CC6	CC6-9	C	2016-06-25	0	0	0	4	4

csr1

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 85	CSR7	CSR7-1	C	2016-05-28	12	0	0	0	12
## 243	CSR7	CSR7-1	C	2016-05-31	14	0	0	0	14
## 401	CSR7	CSR7-1	C	2016-06-03	9	1	0	0	10
## 559	CSR7	CSR7-1	C	2016-06-06	7	3	0	0	10
## 717	CSR7	CSR7-1	C	2016-06-09	3	5	0	0	8
## 875	CSR7	CSR7-1	C	2016-06-12	0	1	4	0	5
## 1033	CSR7	CSR7-1	C	2016-06-15	0	0	4	1	5
## 1192	CSR7	CSR7-1	C	2016-06-22	0	0	0	4	4
## 1351	CSR7	CSR7-1	C	2016-06-25	0	0	0	6	6

csr3

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 87	CSR7	CSR7-3	C	2016-05-28	4	0	0	0	4
## 245	CSR7	CSR7-3	C	2016-05-31	5	0	0	0	5
## 403	CSR7	CSR7-3	C	2016-06-03	4	0	0	0	4
## 561	CSR7	CSR7-3	C	2016-06-06	2	2	0	0	4
## 719	CSR7	CSR7-3	C	2016-06-09	2	2	0	0	4
## 877	CSR7	CSR7-3	C	2016-06-12	0	1	1	0	2
## 1035	CSR7	CSR7-3	C	2016-06-15	0	1	0	1	2
## 1194	CSR7	CSR7-3	C	2016-06-22	0	0	0	3	3
## 1353	CSR7	CSR7-3	C	2016-06-25	0	0	0	2	2

csr5

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 89	CSR7	CSR7-5	C	2016-05-28	2	0	0	0	2
## 247	CSR7	CSR7-5	C	2016-05-31	5	0	0	0	5
## 405	CSR7	CSR7-5	C	2016-06-03	1	1	0	0	2
## 563	CSR7	CSR7-5	C	2016-06-06	1	1	0	0	2
## 721	CSR7	CSR7-5	C	2016-06-09	0	2	0	0	2
## 879	CSR7	CSR7-5	C	2016-06-12	0	1	1	0	2
## 1037	CSR7	CSR7-5	C	2016-06-15	0	0	2	0	2
## 1196	CSR7	CSR7-5	C	2016-06-22	0	0	0	2	2
## 1355	CSR7	CSR7-5	C	2016-06-25	0	0	0	2	2

csr6

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 90	CSR7	CSR7-6	C	2016-05-28	1	0	0	0	1
## 248	CSR7	CSR7-6	C	2016-05-31	1	0	0	0	1
## 406	CSR7	CSR7-6	C	2016-06-03	1	0	0	0	1
## 564	CSR7	CSR7-6	C	2016-06-06	0	1	0	0	1
## 722	CSR7	CSR7-6	C	2016-06-09	0	1	0	0	1
## 880	CSR7	CSR7-6	C	2016-06-12	0	0	1	0	1
## 1038	CSR7	CSR7-6	C	2016-06-15	0	0	0	1	1
## 1197	CSR7	CSR7-6	C	2016-06-22	0	0	0	1	1
## 1356	CSR7	CSR7-6	C	2016-06-25	0	0	0	1	1

csr8

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 92	CSR7	CSR7-8	C	2016-05-28	6	0	0	0	6
## 250	CSR7	CSR7-8	C	2016-05-31	8	0	0	0	8
## 408	CSR7	CSR7-8	C	2016-06-03	4	0	0	0	4
## 566	CSR7	CSR7-8	C	2016-06-06	1	2	0	0	3
## 724	CSR7	CSR7-8	C	2016-06-09	0	2	0	0	2
## 882	CSR7	CSR7-8	C	2016-06-12	0	0	2	0	2
## 1040	CSR7	CSR7-8	C	2016-06-15	0	0	2	0	2
## 1199	CSR7	CSR7-8	C	2016-06-22	0	0	0	2	2
## 1358	CSR7	CSR7-8	C	2016-06-25	0	0	0	2	2

csr9

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 93	CSR7	CSR7-9	C	2016-05-28	19	0	0	0	19
## 251	CSR7	CSR7-9	C	2016-05-31	23	0	0	0	23
## 409	CSR7	CSR7-9	C	2016-06-03	10	4	0	0	14
## 567	CSR7	CSR7-9	C	2016-06-06	8	9	0	0	17
## 725	CSR7	CSR7-9	C	2016-06-09	2	15	0	0	17
## 883	CSR7	CSR7-9	C	2016-06-12	0	5	9	0	14
## 1041	CSR7	CSR7-9	C	2016-06-15	0	2	12	0	14
## 1200	CSR7	CSR7-9	C	2016-06-22	0	0	0	15	15
## 1359	CSR7	CSR7-9	C	2016-06-25	0	0	0	16	16

ec1

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 22	EC3	EC3-1	C	2016-05-28	8	0	0	0	8
## 180	EC3	EC3-1	C	2016-05-31	5	0	0	0	5
## 338	EC3	EC3-1	C	2016-06-03	4	1	0	0	5

##	496	EC3	EC3-1	C	2016-06-06	2	1	0	0	3
##	654	EC3	EC3-1	C	2016-06-09	2	1	0	0	3
##	812	EC3	EC3-1	C	2016-06-12	0	1	1	0	2
##	970	EC3	EC3-1	C	2016-06-15	0	0	2	0	2
##	1129	EC3	EC3-1	C	2016-06-22	0	0	0	0	0
##	1288	EC3	EC3-1	C	2016-06-25	0	0	0	2	2

ec3

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF	
##	24	EC3	EC3-3	C	2016-05-28	10	0	0	0	10
##	182	EC3	EC3-3	C	2016-05-31	12	0	0	0	12
##	340	EC3	EC3-3	C	2016-06-03	2	2	0	0	4
##	498	EC3	EC3-3	C	2016-06-06	0	4	0	0	4
##	656	EC3	EC3-3	C	2016-06-09	0	2	2	0	4
##	814	EC3	EC3-3	C	2016-06-12	0	0	4	0	4
##	972	EC3	EC3-3	C	2016-06-15	0	0	3	0	3
##	1131	EC3	EC3-3	C	2016-06-22	0	0	0	0	0
##	1290	EC3	EC3-3	C	2016-06-25	0	0	0	4	4

esr1

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF	
##	8	ESR2	ESR2-1	C	2016-05-28	2	0	0	0	2
##	166	ESR2	ESR2-1	C	2016-05-31	2	0	0	0	2
##	324	ESR2	ESR2-1	C	2016-06-03	2	0	0	0	2
##	482	ESR2	ESR2-1	C	2016-06-06	1	0	0	0	1

esr11

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF	
##	18	ESR2	ESR2-11	C	2016-05-28	1	0	0	0	1
##	176	ESR2	ESR2-11	C	2016-05-31	1	0	0	0	1
##	334	ESR2	ESR2-11	C	2016-06-03	1	0	0	0	1
##	492	ESR2	ESR2-11	C	2016-06-06	0	1	0	0	1
##	650	ESR2	ESR2-11	C	2016-06-09	0	0	0	0	0
##	808	ESR2	ESR2-11	C	2016-06-12	0	0	1	0	1
##	1125	ESR2	ESR2-11	C	2016-06-22	0	0	0	1	1

esr2

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF	
##	9	ESR2	ESR2-2	C	2016-05-28	8	0	0	0	8
##	167	ESR2	ESR2-2	C	2016-05-31	7	0	0	0	7
##	325	ESR2	ESR2-2	C	2016-06-03	6	0	0	0	6
##	483	ESR2	ESR2-2	C	2016-06-06	4	1	0	0	5
##	641	ESR2	ESR2-2	C	2016-06-09	2	3	0	0	5
##	799	ESR2	ESR2-2	C	2016-06-12	0	3	1	0	4
##	957	ESR2	ESR2-2	C	2016-06-15	1	2	0	0	3
##	1116	ESR2	ESR2-2	C	2016-06-22	0	0	0	6	6
##	1275	ESR2	ESR2-2	C	2016-06-25	0	0	0	4	4

esr3

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF	
##	10	ESR2	ESR2-3	C	2016-05-28	22	0	0	0	22
##	168	ESR2	ESR2-3	C	2016-05-31	27	0	0	0	27
##	326	ESR2	ESR2-3	C	2016-06-03	26	0	0	0	26
##	484	ESR2	ESR2-3	C	2016-06-06	20	0	0	0	20

##	642	ESR2	ESR2-3	C	2016-06-09	0	0	0	0	0
##	800	ESR2	ESR2-3	C	2016-06-12	0	0	0	0	0
##	958	ESR2	ESR2-3	C	2016-06-15	0	0	1	0	1
##	1117	ESR2	ESR2-3	C	2016-06-22	25	0	0	3	28
##	1276	ESR2	ESR2-3	C	2016-06-25	0	0	0	2	2

esr4

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF	
##	11	ESR2	ESR2-4	C	2016-05-28	12	0	0	0	12
##	169	ESR2	ESR2-4	C	2016-05-31	13	3	0	0	16
##	327	ESR2	ESR2-4	C	2016-06-03	4	5	0	0	9
##	485	ESR2	ESR2-4	C	2016-06-06	4	5	0	0	9
##	643	ESR2	ESR2-4	C	2016-06-09	0	2	3	0	5
##	801	ESR2	ESR2-4	C	2016-06-12	0	0	5	0	5
##	959	ESR2	ESR2-4	C	2016-06-15	0	0	2	3	5
##	1118	ESR2	ESR2-4	C	2016-06-22	0	0	0	9	9
##	1277	ESR2	ESR2-4	C	2016-06-25	0	0	0	3	3

esr6

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF	
##	13	ESR2	ESR2-6	C	2016-05-28	3	0	0	0	3
##	171	ESR2	ESR2-6	C	2016-05-31	4	0	0	0	4
##	329	ESR2	ESR2-6	C	2016-06-03	2	0	0	0	2
##	487	ESR2	ESR2-6	C	2016-06-06	1	1	0	0	2
##	645	ESR2	ESR2-6	C	2016-06-09	1	1	0	0	2
##	803	ESR2	ESR2-6	C	2016-06-12	0	0	1	0	1
##	961	ESR2	ESR2-6	C	2016-06-15	0	0	1	0	1
##	1120	ESR2	ESR2-6	C	2016-06-22	0	0	0	1	1
##	1279	ESR2	ESR2-6	C	2016-06-25	0	0	0	1	1

esr8

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF	
##	331	ESR2	ESR2-8	C	2016-06-03	0	0	0	0	0
##	489	ESR2	ESR2-8	C	2016-06-06	0	0	0	0	0
##	647	ESR2	ESR2-8	C	2016-06-09	0	0	0	0	0
##	805	ESR2	ESR2-8	C	2016-06-12	0	0	0	0	0

wc1

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF	
##	282	WC11	WC11-1	C	2016-05-31	3	0	0	0	3
##	440	WC11	WC11-1	C	2016-06-03	2	0	0	0	2
##	598	WC11	WC11-1	C	2016-06-06	0	0	0	0	0
##	756	WC11	WC11-1	C	2016-06-09	1	0	0	0	1
##	914	WC11	WC11-1	C	2016-06-12	0	1	0	0	1
##	1072	WC11	WC11-1	C	2016-06-15	0	1	0	0	1
##	1231	WC11	WC11-1	C	2016-06-22	0	0	0	1	1
##	1390	WC11	WC11-1	C	2016-06-25	0	0	0	1	1

wc2

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF	
##	125	WC11	WC11-2	C	2016-05-28	7	0	0	0	7
##	283	WC11	WC11-2	C	2016-05-31	3	0	0	0	3
##	441	WC11	WC11-2	C	2016-06-03	1	1	0	0	2
##	599	WC11	WC11-2	C	2016-06-06	1	1	0	0	2

##	757	WC11	WC11-2	C	2016-06-09	0	1	1	0	2
##	915	WC11	WC11-2	C	2016-06-12	0	0	2	0	2
##	1073	WC11	WC11-2	C	2016-06-15	0	0	1	1	2
##	1232	WC11	WC11-2	C	2016-06-22	0	0	0	2	2
##	1391	WC11	WC11-2	C	2016-06-25	0	0	0	2	2

wc3

##		plot	plantid	treatment	date	BD	FF	SG	SD	TF
##	126	WC11	WC11-3	C	2016-05-28	10	0	0	0	10
##	284	WC11	WC11-3	C	2016-05-31	10	0	0	0	10
##	442	WC11	WC11-3	C	2016-06-03	4	0	0	0	4
##	600	WC11	WC11-3	C	2016-06-06	1	3	0	0	4
##	758	WC11	WC11-3	C	2016-06-09	0	4	0	0	4
##	916	WC11	WC11-3	C	2016-06-12	0	3	1	0	4
##	1074	WC11	WC11-3	C	2016-06-15	0	0	4	0	4
##	1233	WC11	WC11-3	C	2016-06-22	0	0	2	2	4
##	1392	WC11	WC11-3	C	2016-06-25	0	0	0	4	4

wc4

##		plot	plantid	treatment	date	BD	FF	SG	SD	TF
##	127	WC11	WC11-4	C	2016-05-28	3	0	0	0	3
##	285	WC11	WC11-4	C	2016-05-31	1	0	0	0	1
##	443	WC11	WC11-4	C	2016-06-03	2	0	0	0	2
##	601	WC11	WC11-4	C	2016-06-06	1	0	0	0	1
##	759	WC11	WC11-4	C	2016-06-09	0	1	0	0	1
##	917	WC11	WC11-4	C	2016-06-12	0	1	0	0	1
##	1075	WC11	WC11-4	C	2016-06-15	0	0	1	0	1
##	1234	WC11	WC11-4	C	2016-06-22	0	0	0	1	1
##	1393	WC11	WC11-4	C	2016-06-25	0	0	0	1	1

wc5

##		plot	plantid	treatment	date	BD	FF	SG	SD	TF
##	128	WC11	WC11-5	C	2016-05-28	2	0	0	0	2
##	286	WC11	WC11-5	C	2016-05-31	2	0	0	0	2
##	444	WC11	WC11-5	C	2016-06-03	2	0	0	0	2
##	602	WC11	WC11-5	C	2016-06-06	2	0	0	0	2
##	760	WC11	WC11-5	C	2016-06-09	0	2	0	0	2
##	918	WC11	WC11-5	C	2016-06-12	0	1	1	0	2
##	1076	WC11	WC11-5	C	2016-06-15	0	0	0	0	0
##	1235	WC11	WC11-5	C	2016-06-22	0	0	0	2	2
##	1394	WC11	WC11-5	C	2016-06-25	0	0	0	2	2

wc7

##		plot	plantid	treatment	date	BD	FF	SG	SD	TF
##	130	WC11	WC11-7	C	2016-05-28	8	0	0	0	8
##	288	WC11	WC11-7	C	2016-05-31	6	0	0	0	6
##	446	WC11	WC11-7	C	2016-06-03	3	0	0	0	3
##	604	WC11	WC11-7	C	2016-06-06	3	0	0	0	3
##	762	WC11	WC11-7	C	2016-06-09	0	3	0	0	3
##	920	WC11	WC11-7	C	2016-06-12	0	2	1	0	3
##	1078	WC11	WC11-7	C	2016-06-15	0	0	2	1	3
##	1237	WC11	WC11-7	C	2016-06-22	0	0	0	3	3
##	1396	WC11	WC11-7	C	2016-06-25	0	0	0	3	3

wsr1

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 113	WSR10	WSR10-1	C	2016-05-28	24	0	0	0	24
## 271	WSR10	WSR10-1	C	2016-05-31	24	0	0	0	24
## 429	WSR10	WSR10-1	C	2016-06-03	22	0	0	0	22
## 587	WSR10	WSR10-1	C	2016-06-06	9	13	0	0	22
## 745	WSR10	WSR10-1	C	2016-06-09	2	16	0	0	18
## 903	WSR10	WSR10-1	C	2016-06-12	2	6	8	0	16
## 1061	WSR10	WSR10-1	C	2016-06-15	0	2	14	0	16
## 1220	WSR10	WSR10-1	C	2016-06-22	0	0	0	16	16
## 1379	WSR10	WSR10-1	C	2016-06-25	0	0	0	18	18

wsr3

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 115	WSR10	WSR10-3	C	2016-05-28	2	0	0	0	2
## 273	WSR10	WSR10-3	C	2016-05-31	2	0	0	0	2
## 431	WSR10	WSR10-3	C	2016-06-03	1	1	0	0	2
## 589	WSR10	WSR10-3	C	2016-06-06	1	1	0	0	2
## 747	WSR10	WSR10-3	C	2016-06-09	0	1	0	0	1
## 905	WSR10	WSR10-3	C	2016-06-12	0	0	1	0	1
## 1063	WSR10	WSR10-3	C	2016-06-15	0	0	1	0	1
## 1222	WSR10	WSR10-3	C	2016-06-22	0	0	0	1	1
## 1381	WSR10	WSR10-3	C	2016-06-25	0	0	0	2	2

wsr7

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 119	WSR10	WSR10-7	C	2016-05-28	27	0	0	0	27
## 277	WSR10	WSR10-7	C	2016-05-31	18	0	0	0	18
## 435	WSR10	WSR10-7	C	2016-06-03	5	8	0	0	13
## 593	WSR10	WSR10-7	C	2016-06-06	2	10	0	0	12
## 751	WSR10	WSR10-7	C	2016-06-09	0	2	8	0	10
## 909	WSR10	WSR10-7	C	2016-06-12	0	0	11	0	11
## 1067	WSR10	WSR10-7	C	2016-06-15	0	0	8	3	11
## 1226	WSR10	WSR10-7	C	2016-06-22	0	0	0	9	9
## 1385	WSR10	WSR10-7	C	2016-06-25	0	0	0	11	11

wsr9

##	plot	plantid	treatment	date	BD	FF	SG	SD	TF
## 121	WSR10	WSR10-9	C	2016-05-28	4	0	0	0	4
## 279	WSR10	WSR10-9	C	2016-05-31	5	0	0	0	5
## 437	WSR10	WSR10-9	C	2016-06-03	1	0	0	0	1
## 595	WSR10	WSR10-9	C	2016-06-06	1	0	0	0	1
## 753	WSR10	WSR10-9	C	2016-06-09	0	0	0	0	0
## 911	WSR10	WSR10-9	C	2016-06-12	0	0	0	0	0
## 1069	WSR10	WSR10-9	C	2016-06-15	0	0	0	0	0
## 1228	WSR10	WSR10-9	C	2016-06-22	0	0	0	0	0
## 1387	WSR10	WSR10-9	C	2016-06-25	0	0	0	1	1