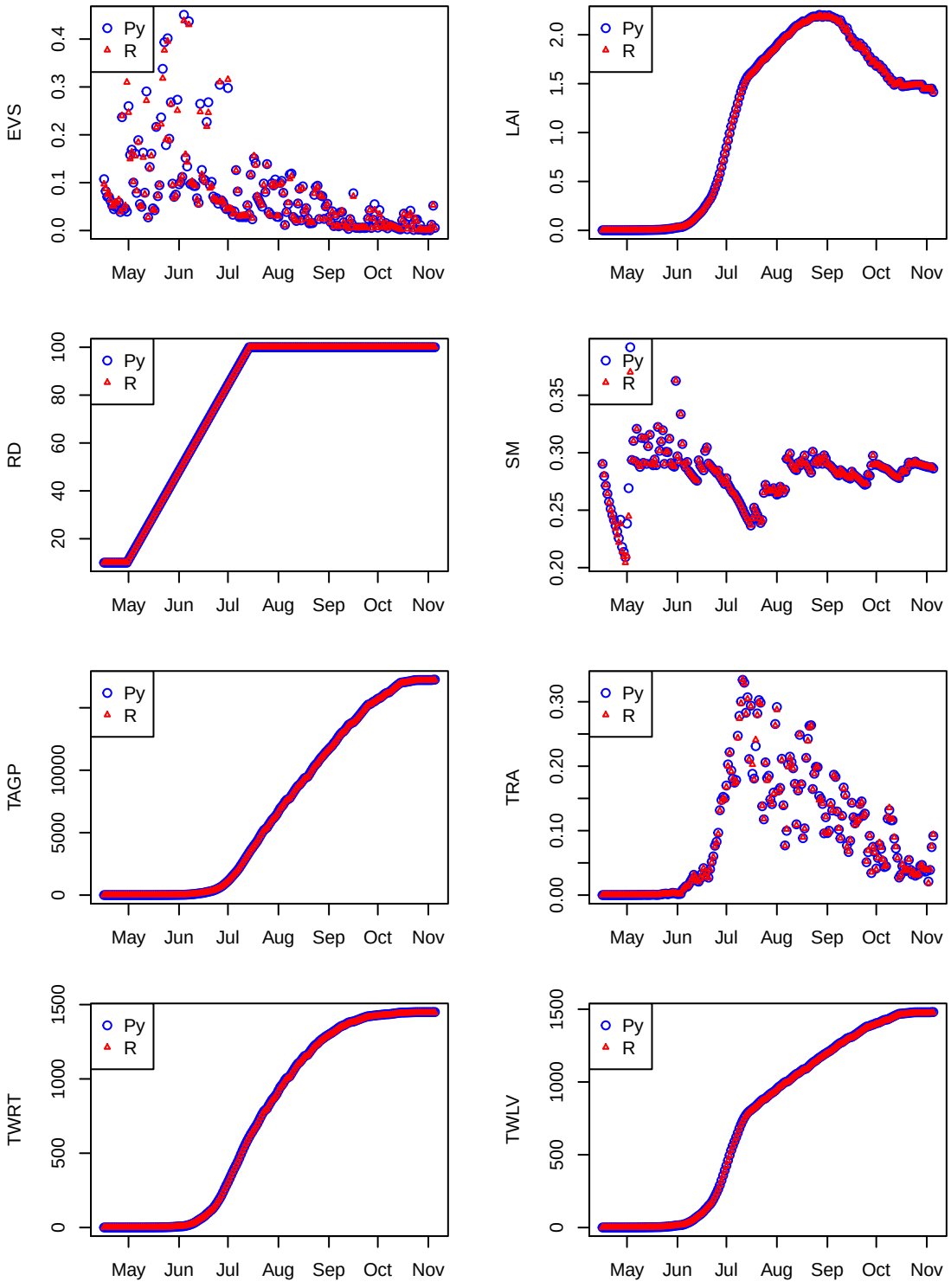
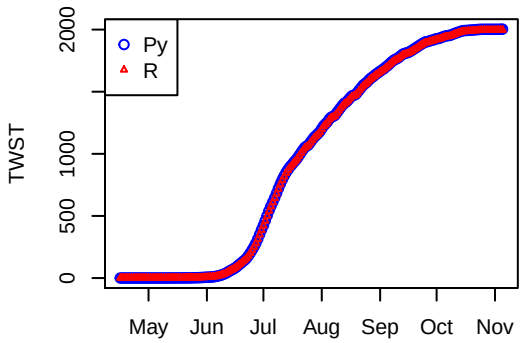
Water-limited production

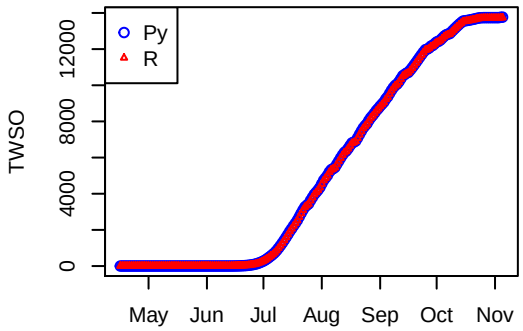
2/27/2020

R code

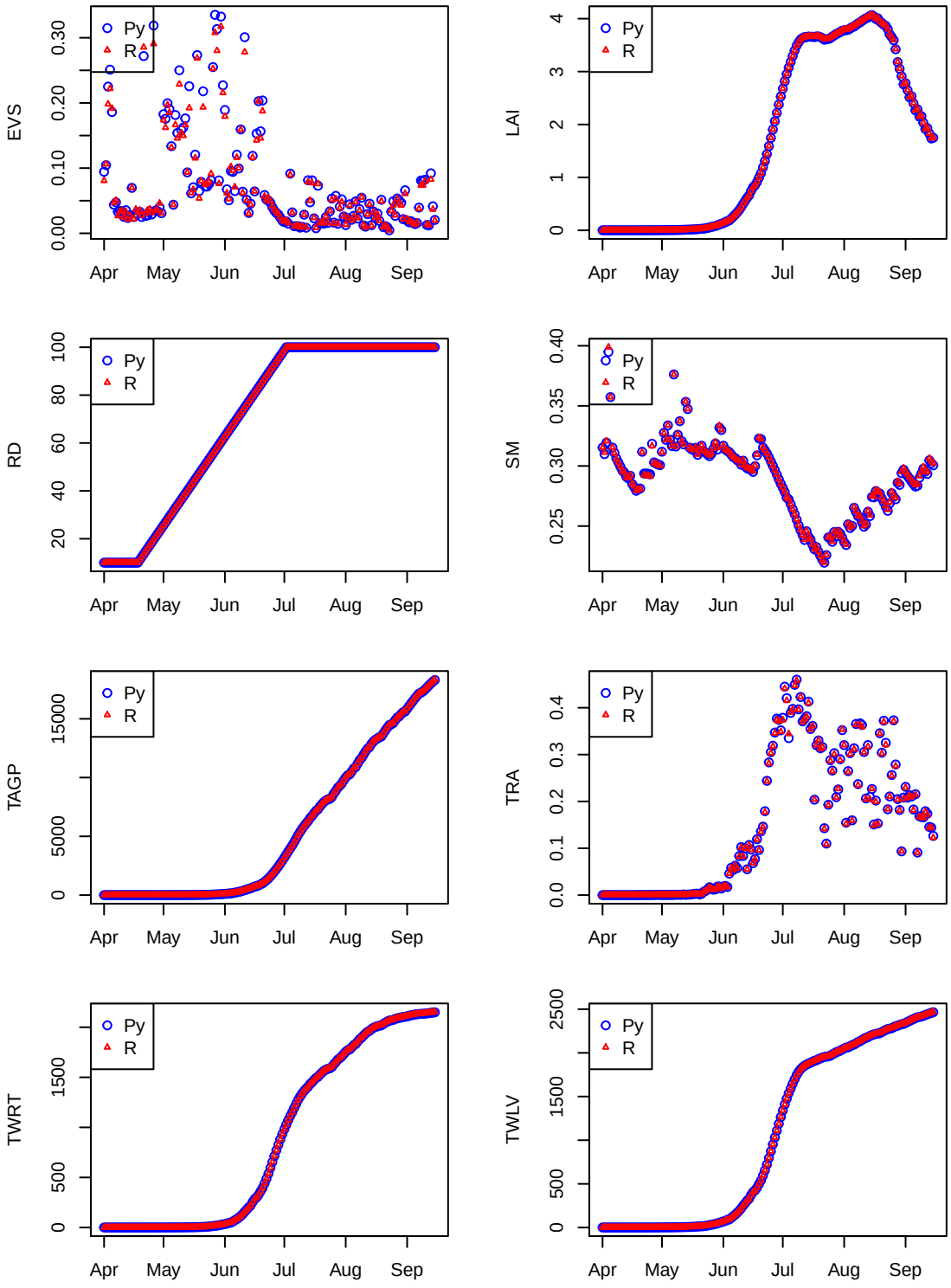
```
library(Rwofost)
source("pcse_tests.R")

ydir <- "C:/github/cropmodels/Rwofost_test/test_data/"
group <- "waterlimitedproduction"

for (i in 1:44) {
    x <- getPR(ydir, group, i)
    if (is.null(x)) next # skipping vernalization cases
    par(mfrow=c(4,2), mai=c(.5,.75,.1,.1))
    for (v in colnames(x$P)[-c(1,2)]) complot(x, v)
    print(paste(group, i))
}
```

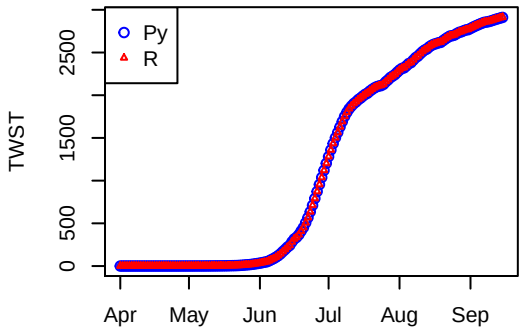

EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
May
Jun
Jul
Aug
Sep
Oct
Nov

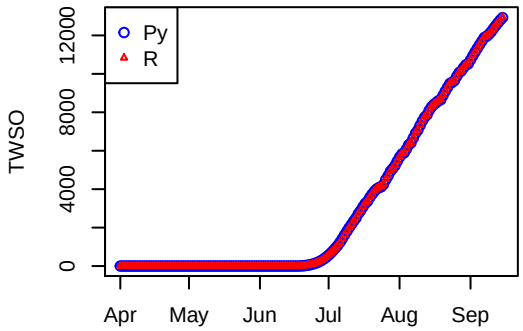




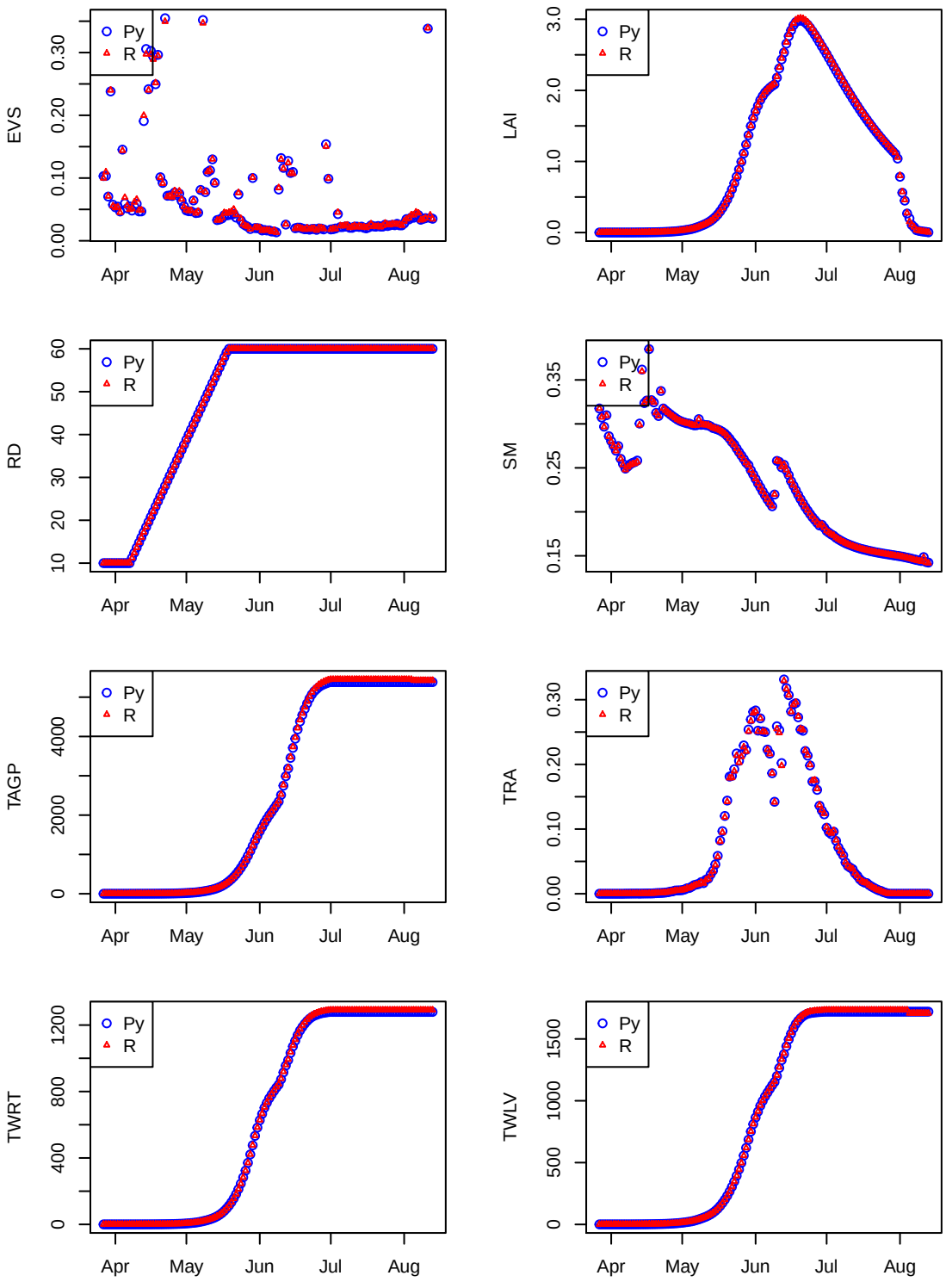

```
## [1] "waterlimitedproduction 1"
```

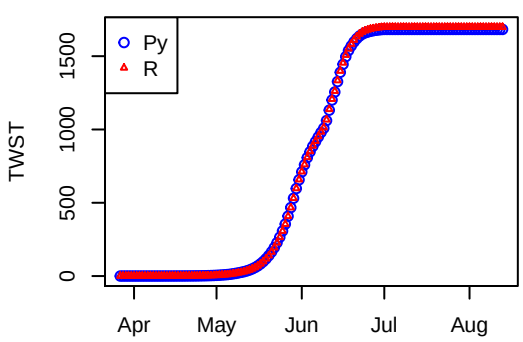

EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
Apr
May
Jun
Jul
Aug
Sep

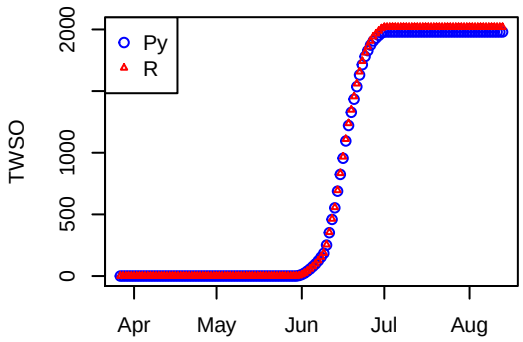




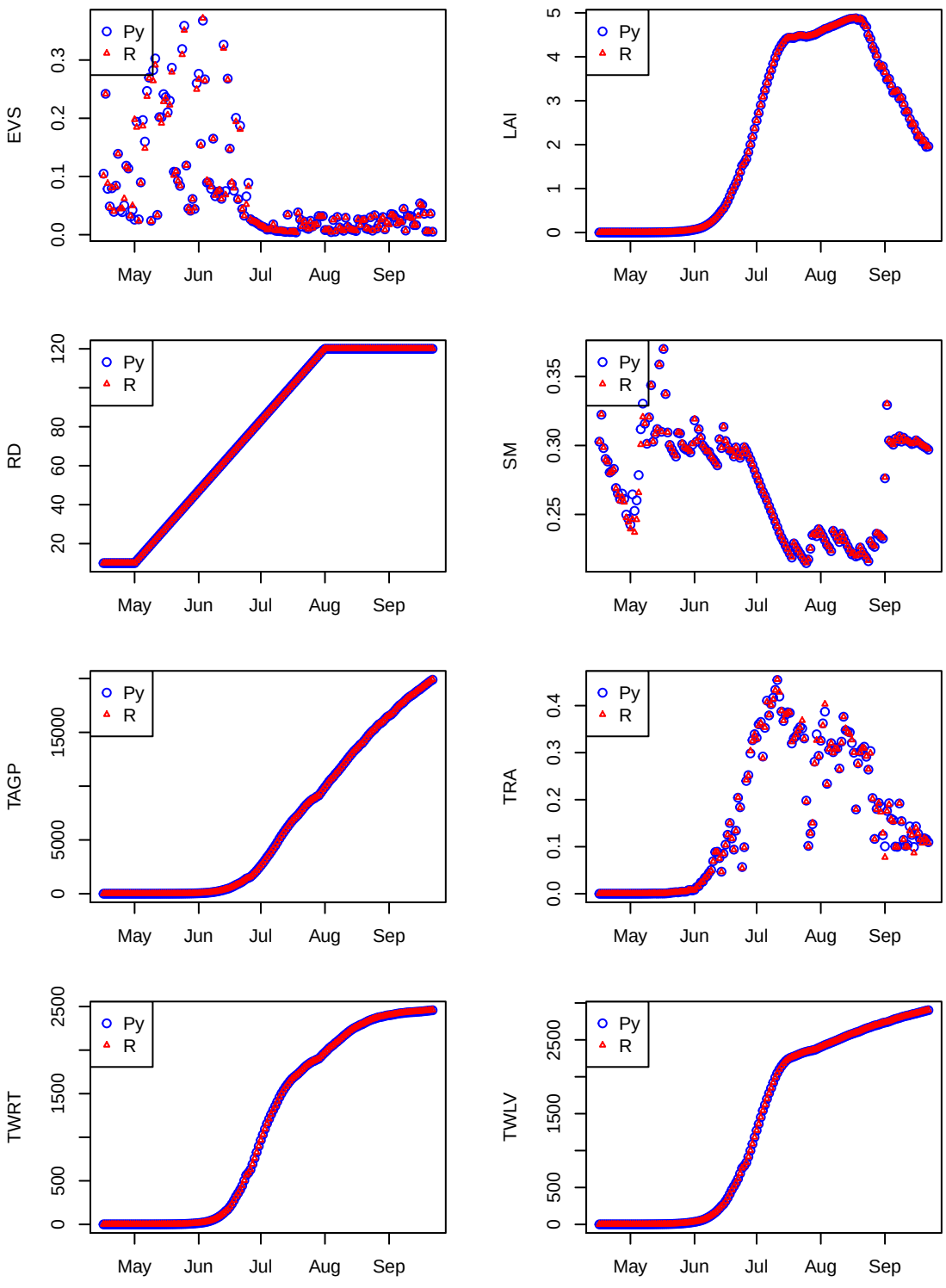

```
## [1] "waterlimitedproduction 2"
```

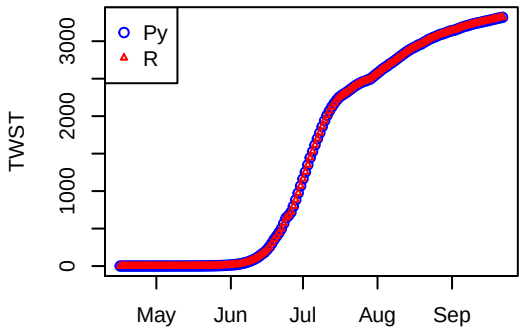

EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
Apr
May
Jun
Jul
Aug

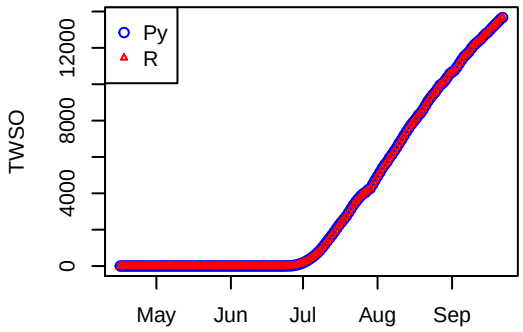




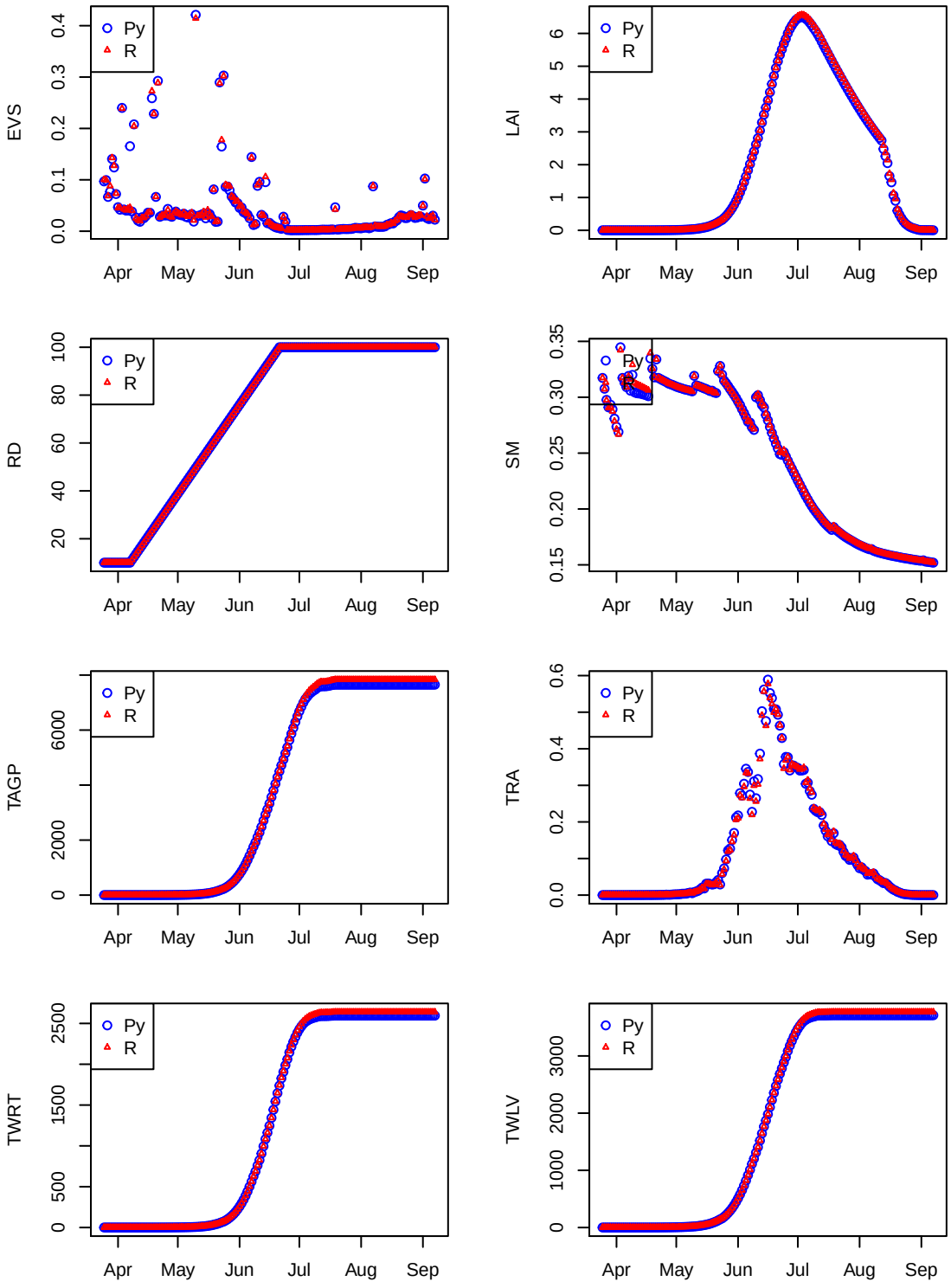

```
## [1] "waterlimitedproduction 3"
```

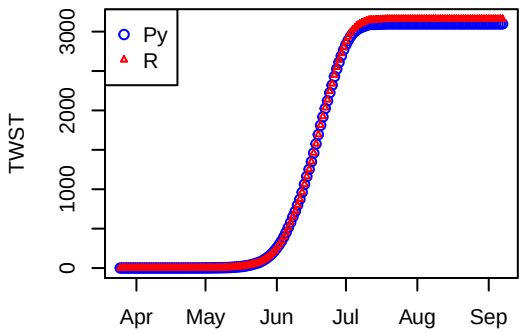

EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
May
Jun
Jul
Aug
Sep

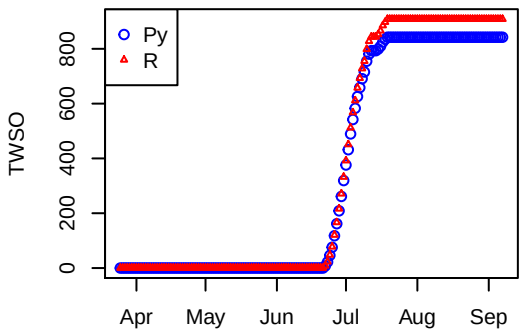




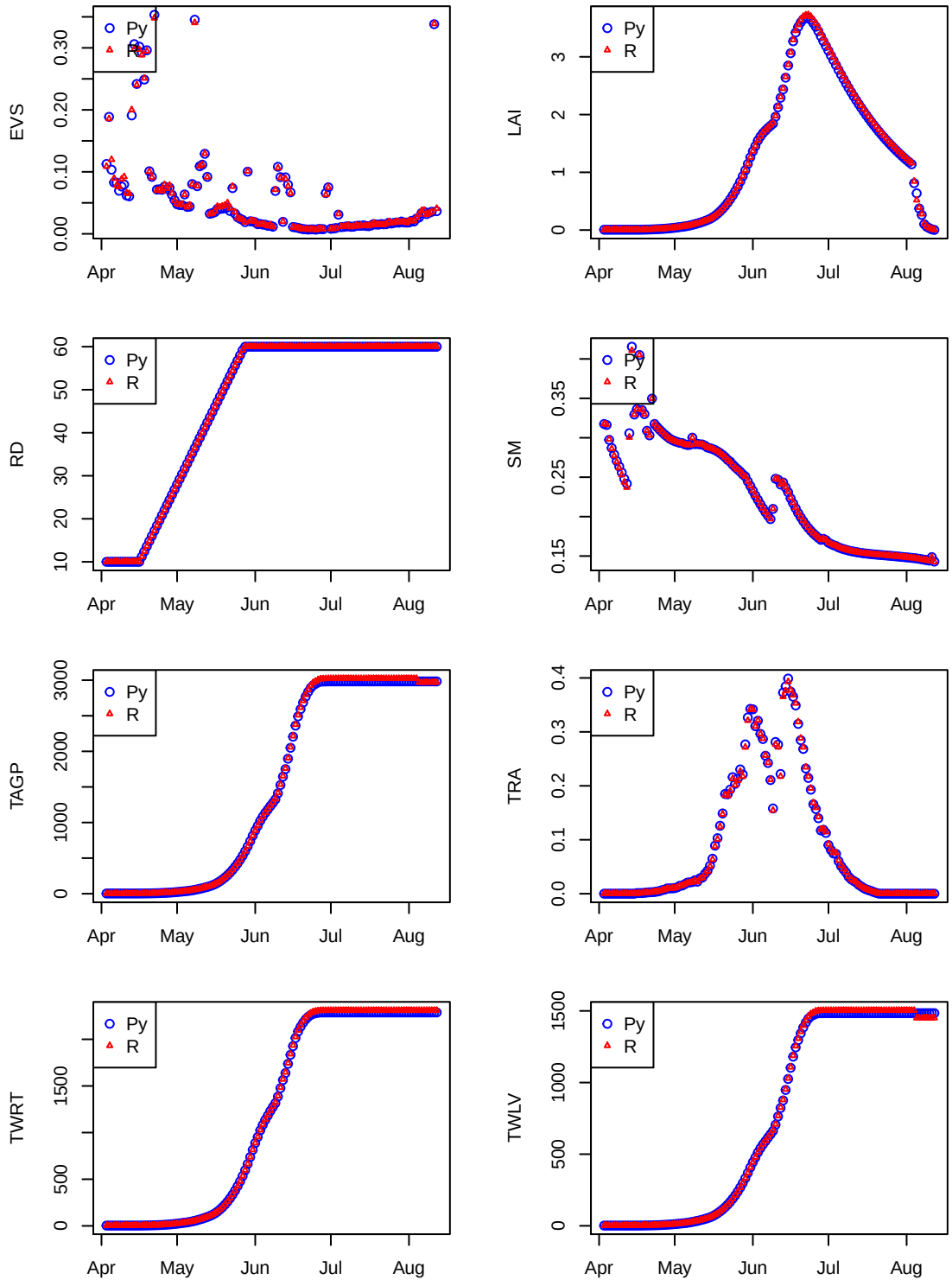

```
## [1] "waterlimitedproduction 4"
```

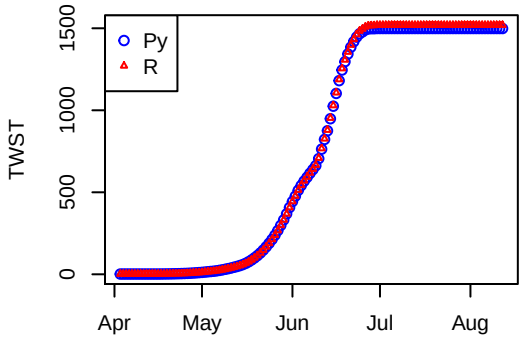

EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
Apr
May
Jun
Jul
Aug
Sep

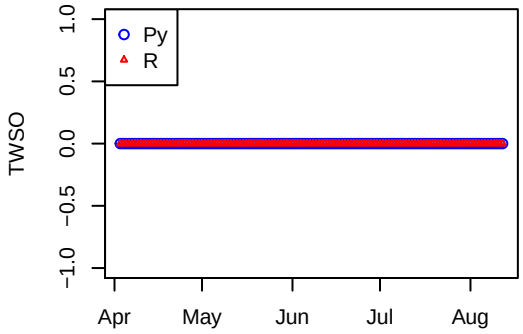




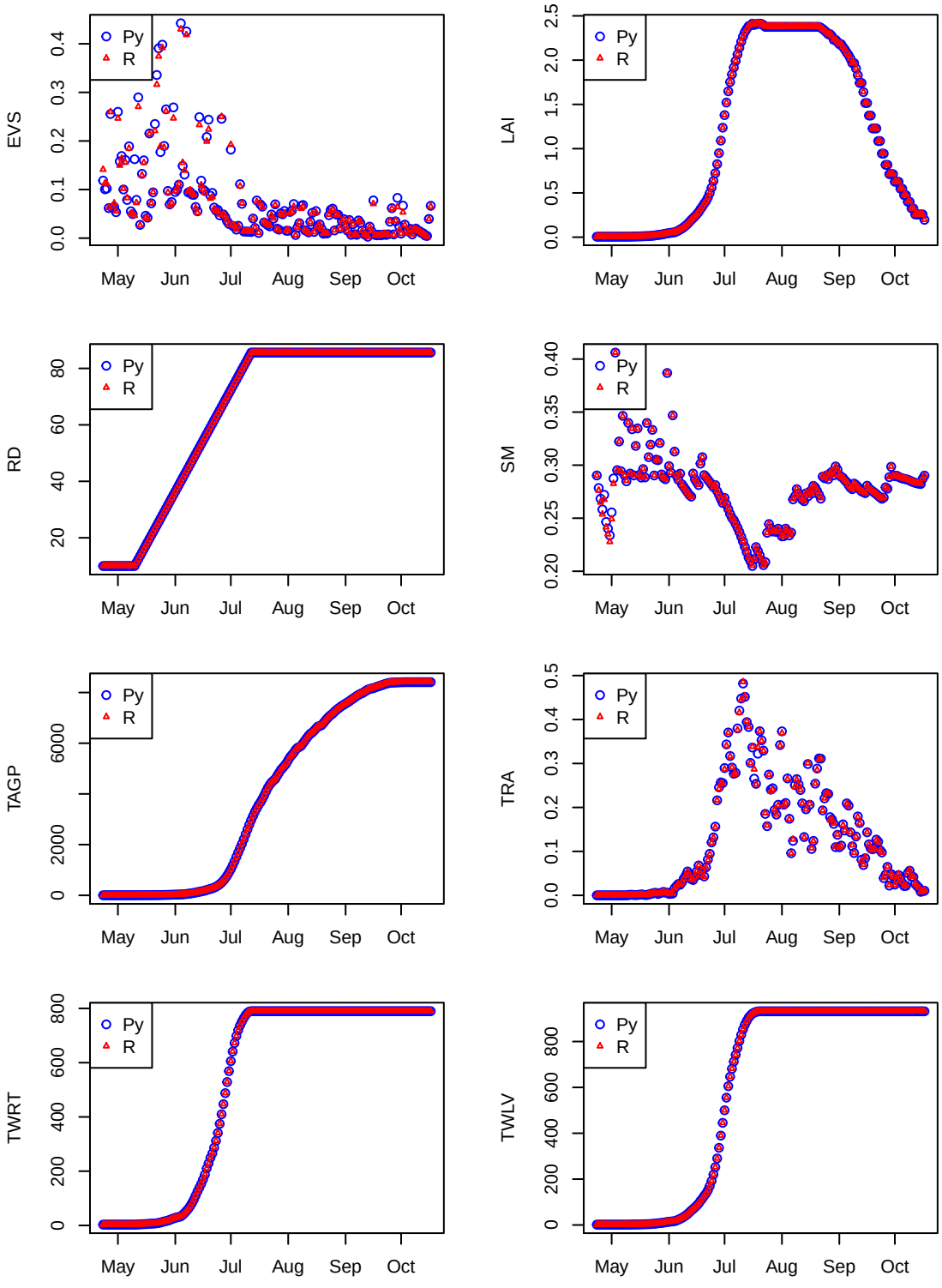

```
## [1] "waterlimitedproduction 5"
```

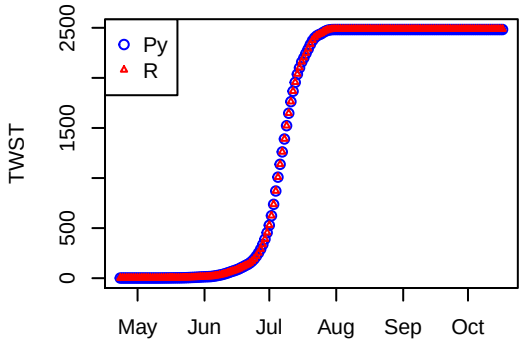

EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
Apr
May
Jun
Jul
Aug

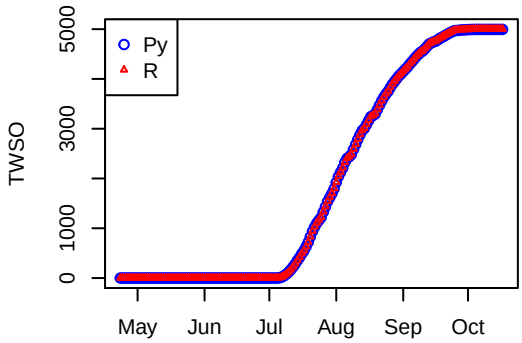




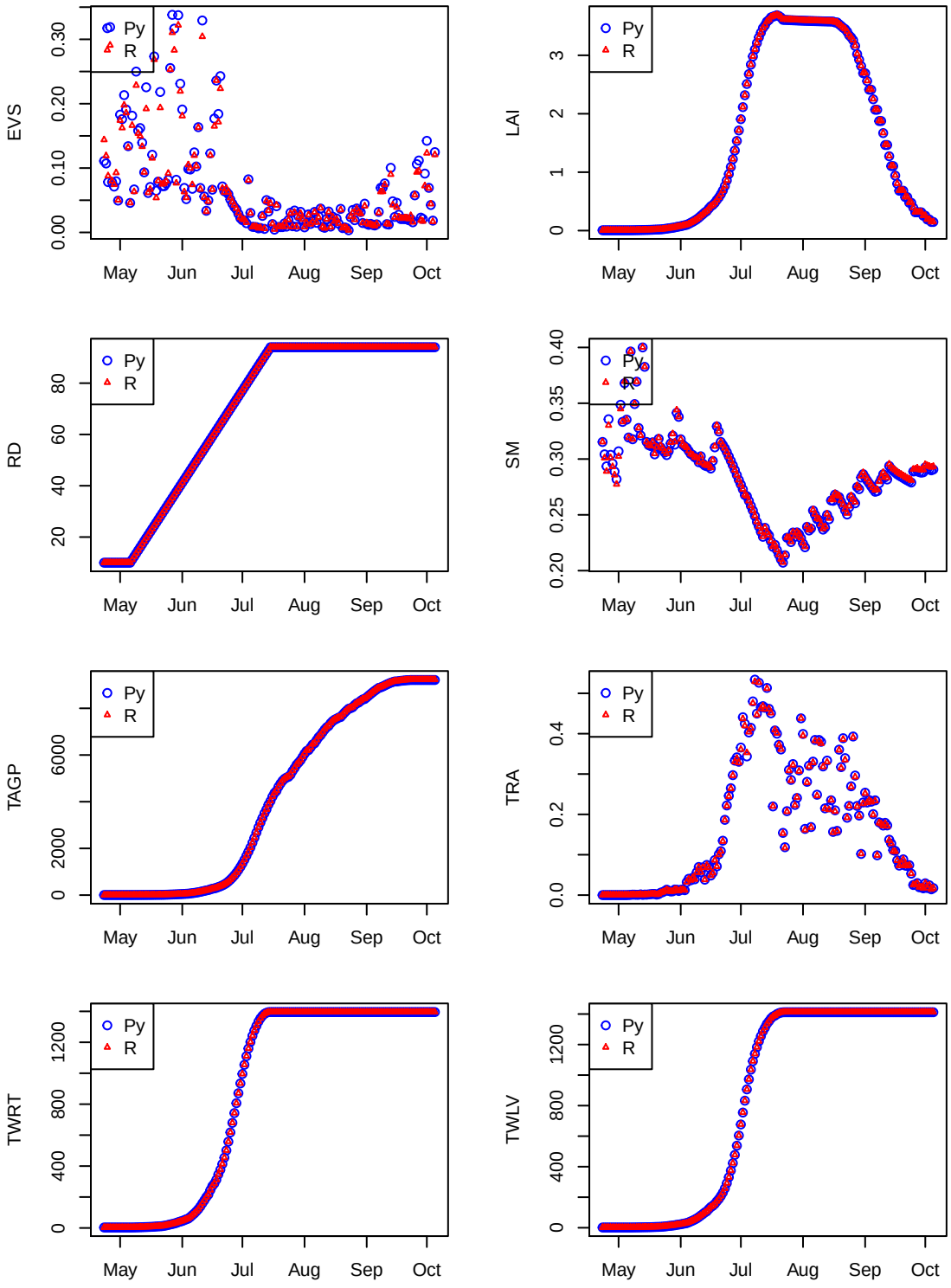

```
## [1] "waterlimitedproduction 6"
```

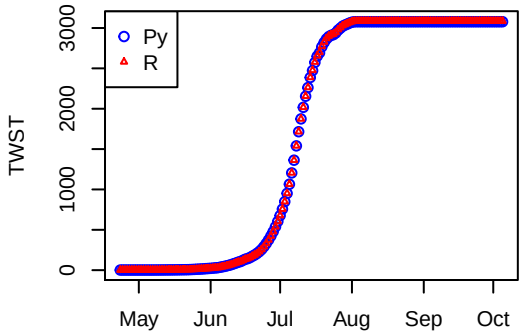

EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
May
Jun
Jul
Aug
Sep
Oct

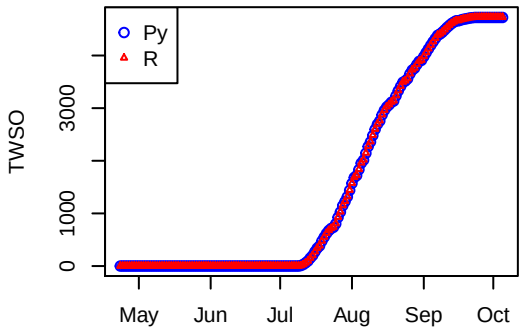




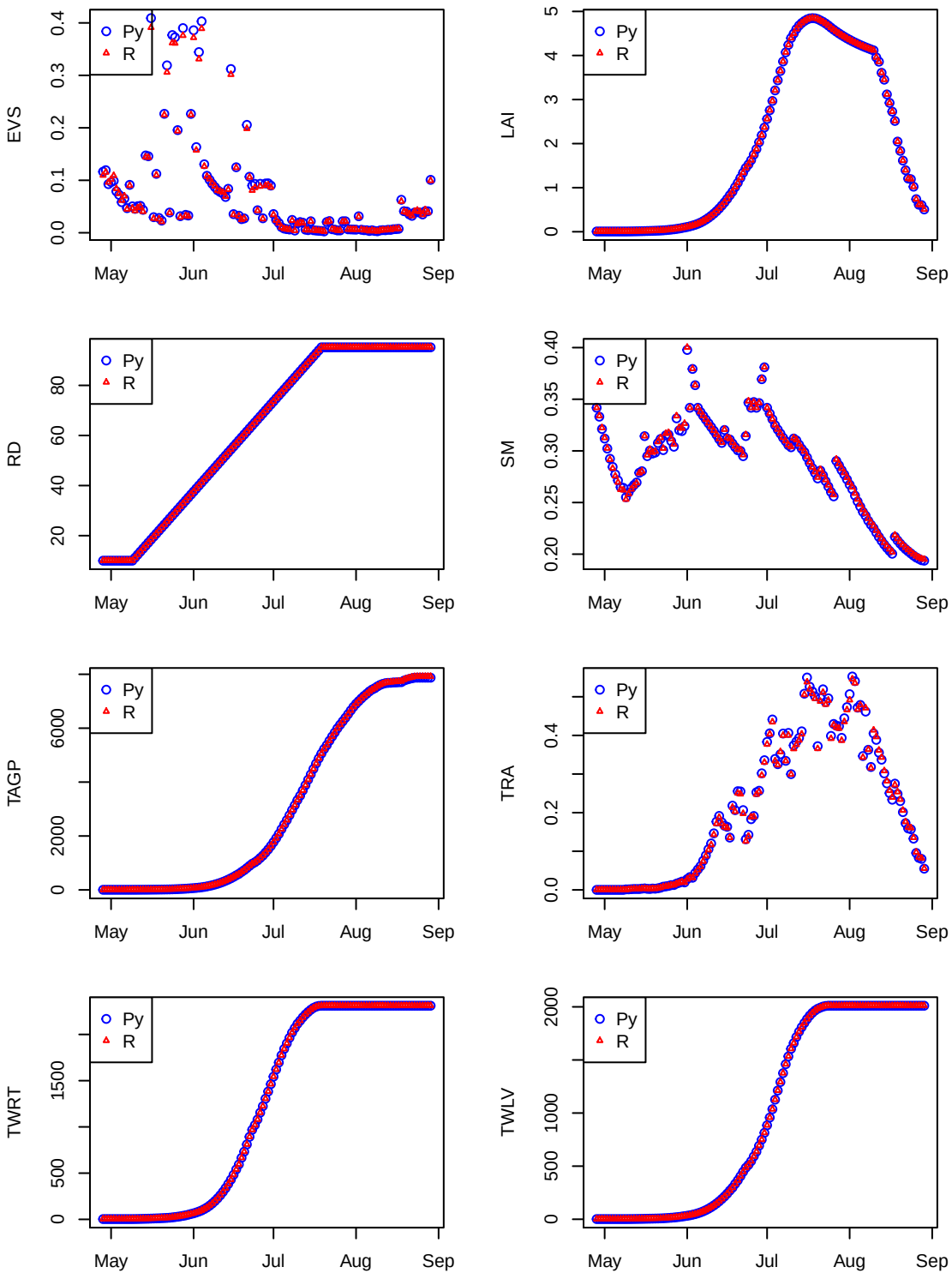

```
## [1] "waterlimitedproduction 7"
```

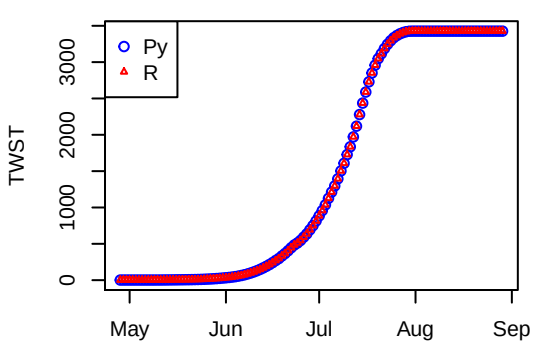

EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
May
Jun
Jul
Aug
Sep
Oct

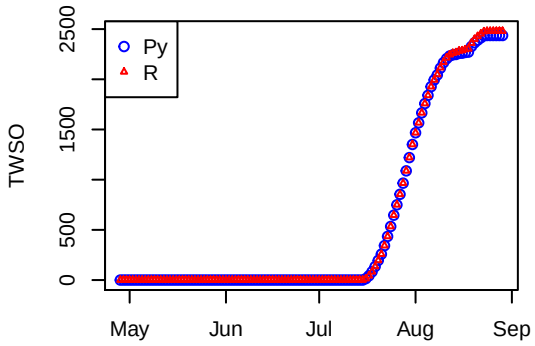




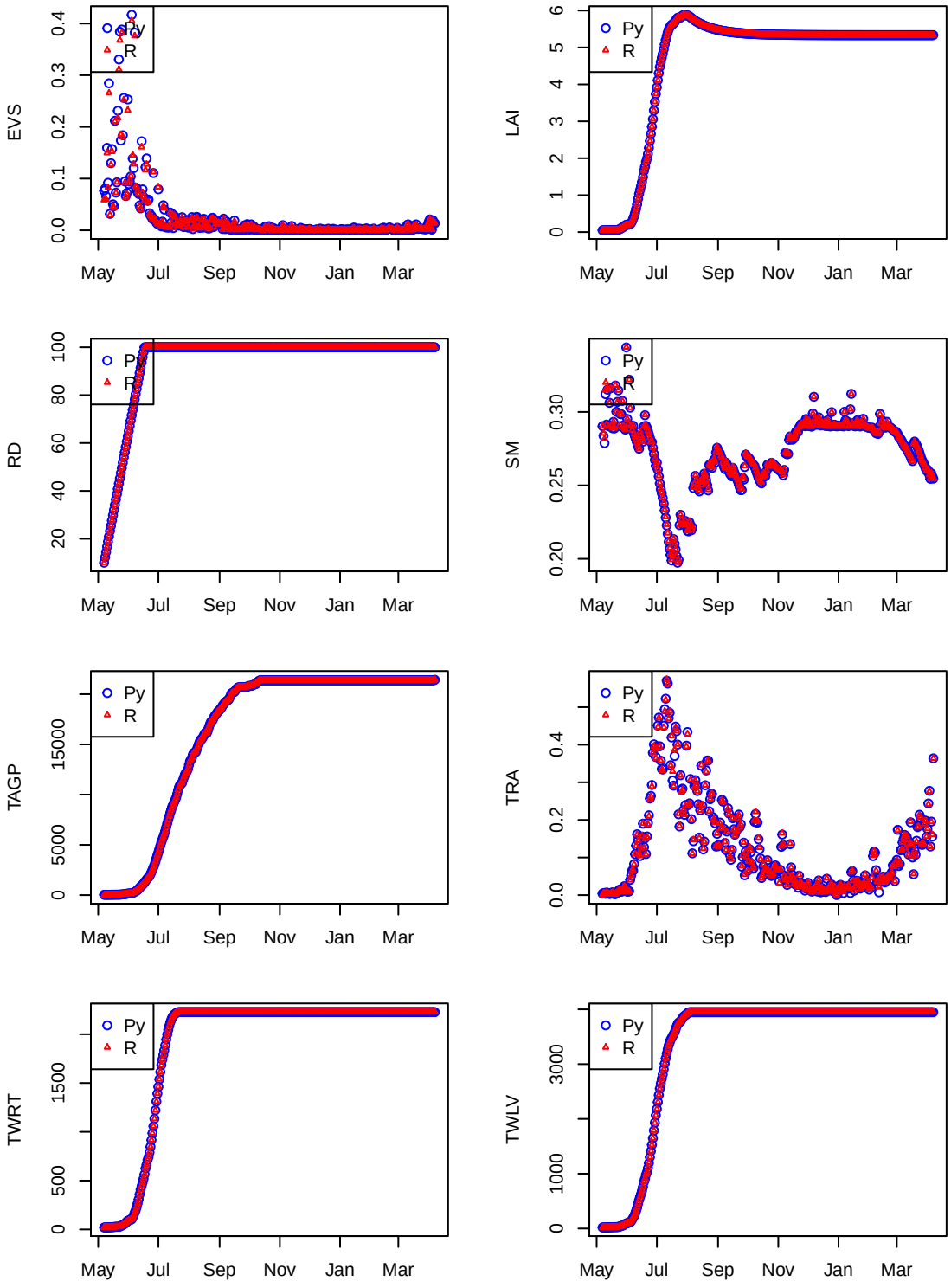

```
## [1] "waterlimitedproduction 8"
```

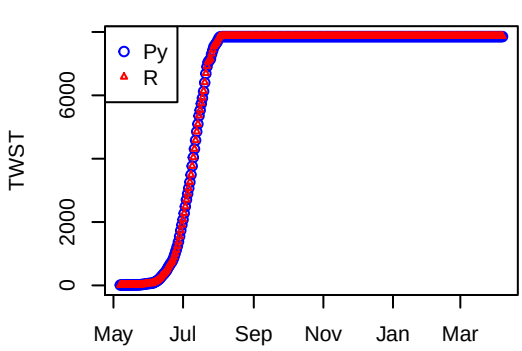

EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
May
Jun
Jul
Aug
Sep

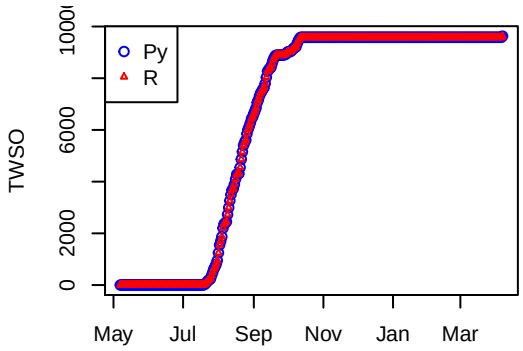




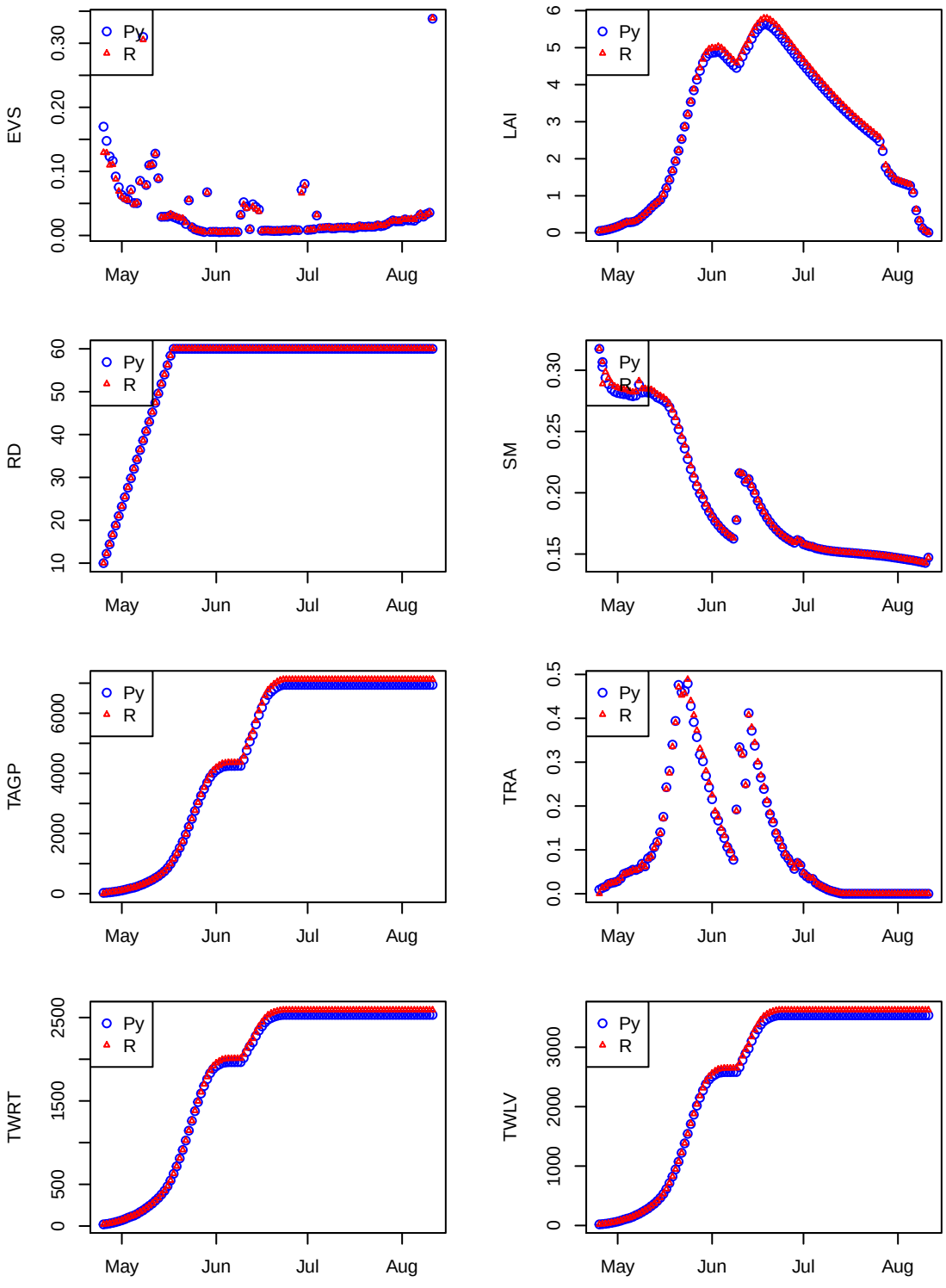

```
## [1] "waterlimitedproduction 9"
```

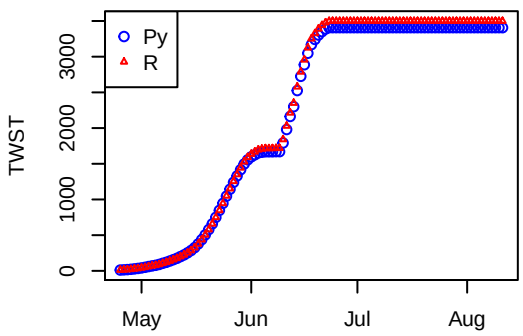

EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
May
Jul
Sep
Nov
Jan
Mar

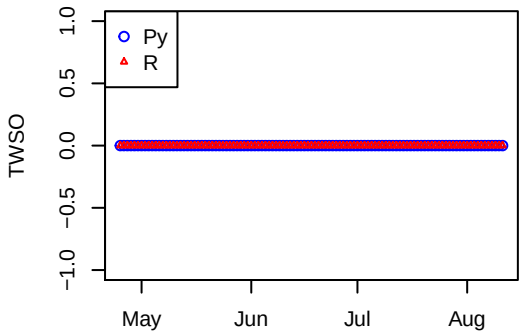




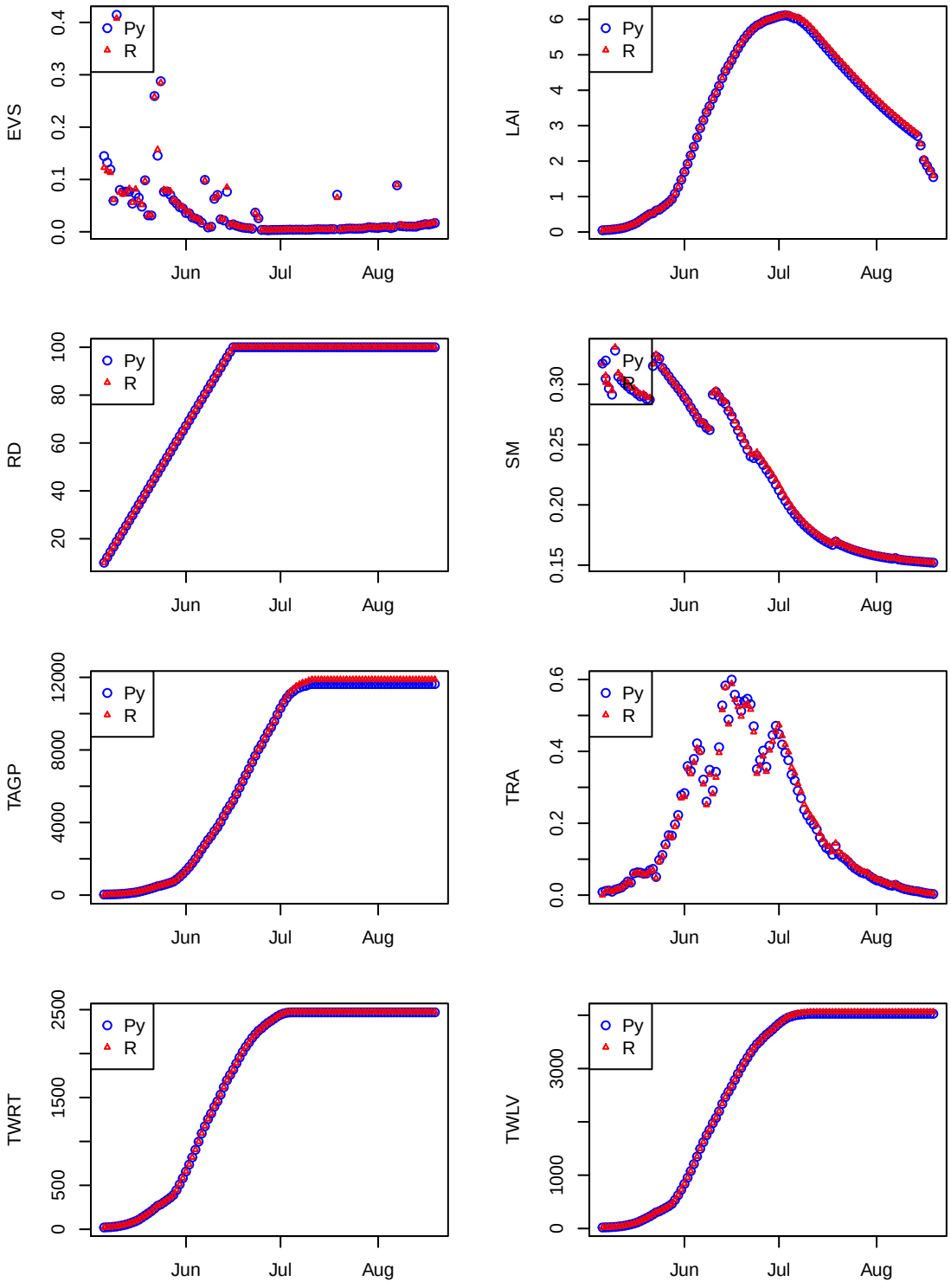

```
## [1] "waterlimitedproduction 10"
```

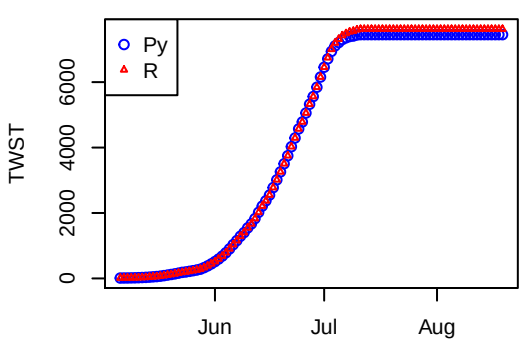

EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
May
Jun
Jul
Aug

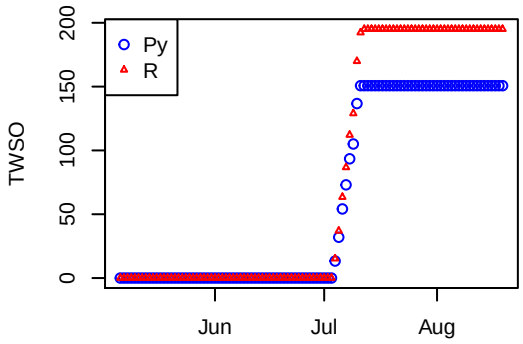




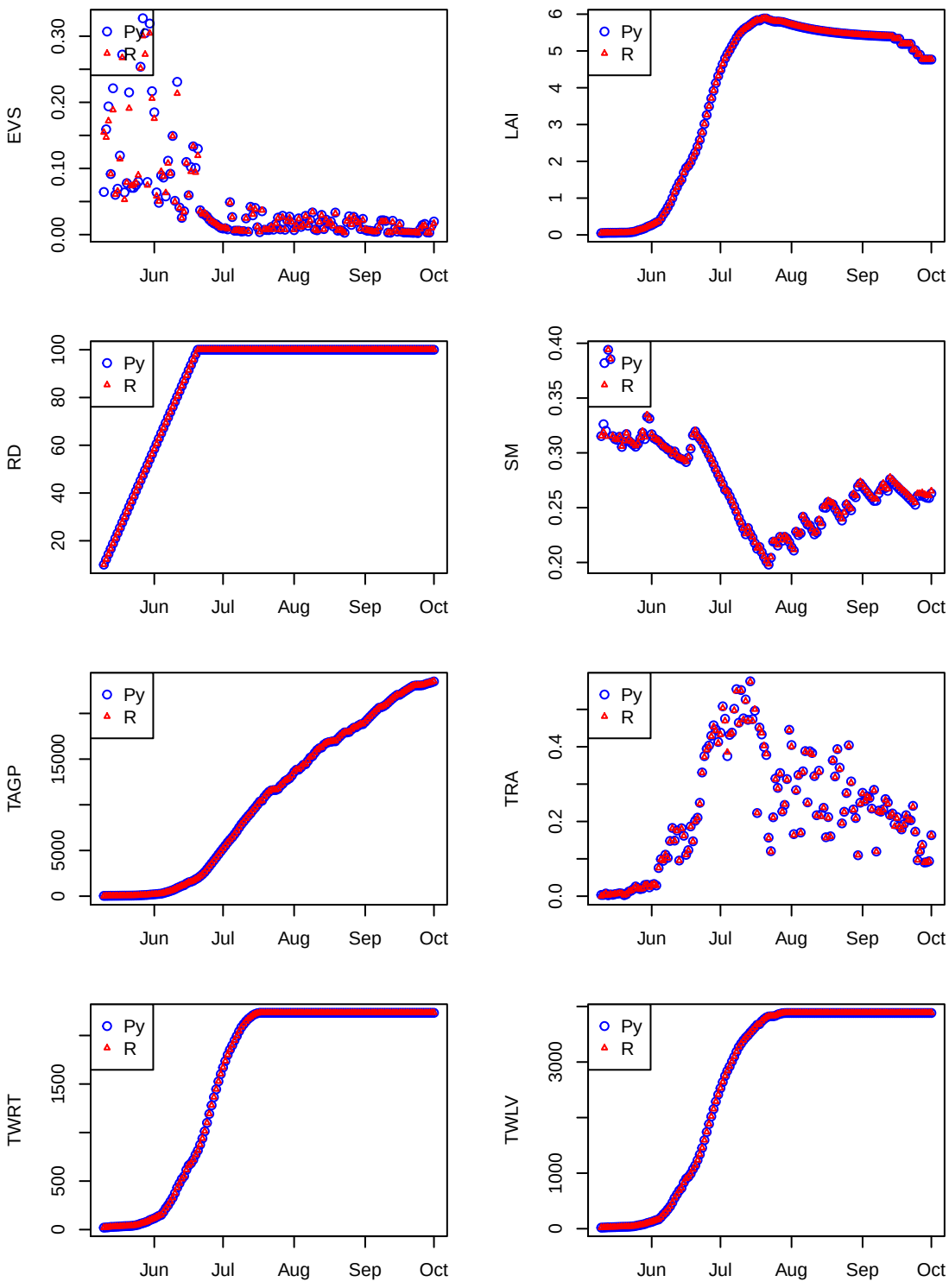

```
## [1] "waterlimitedproduction 11"
```

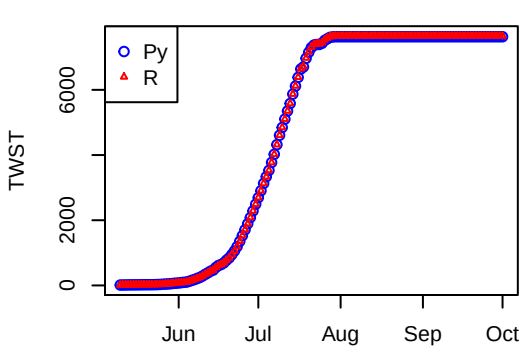

EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
Jun
Jul
Aug

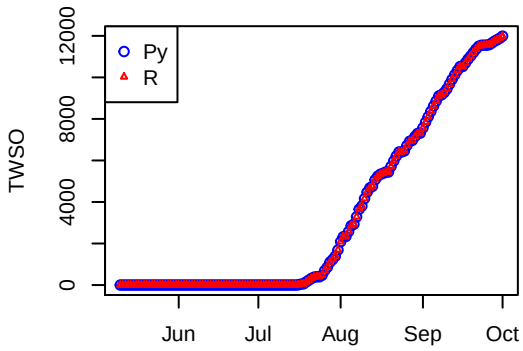




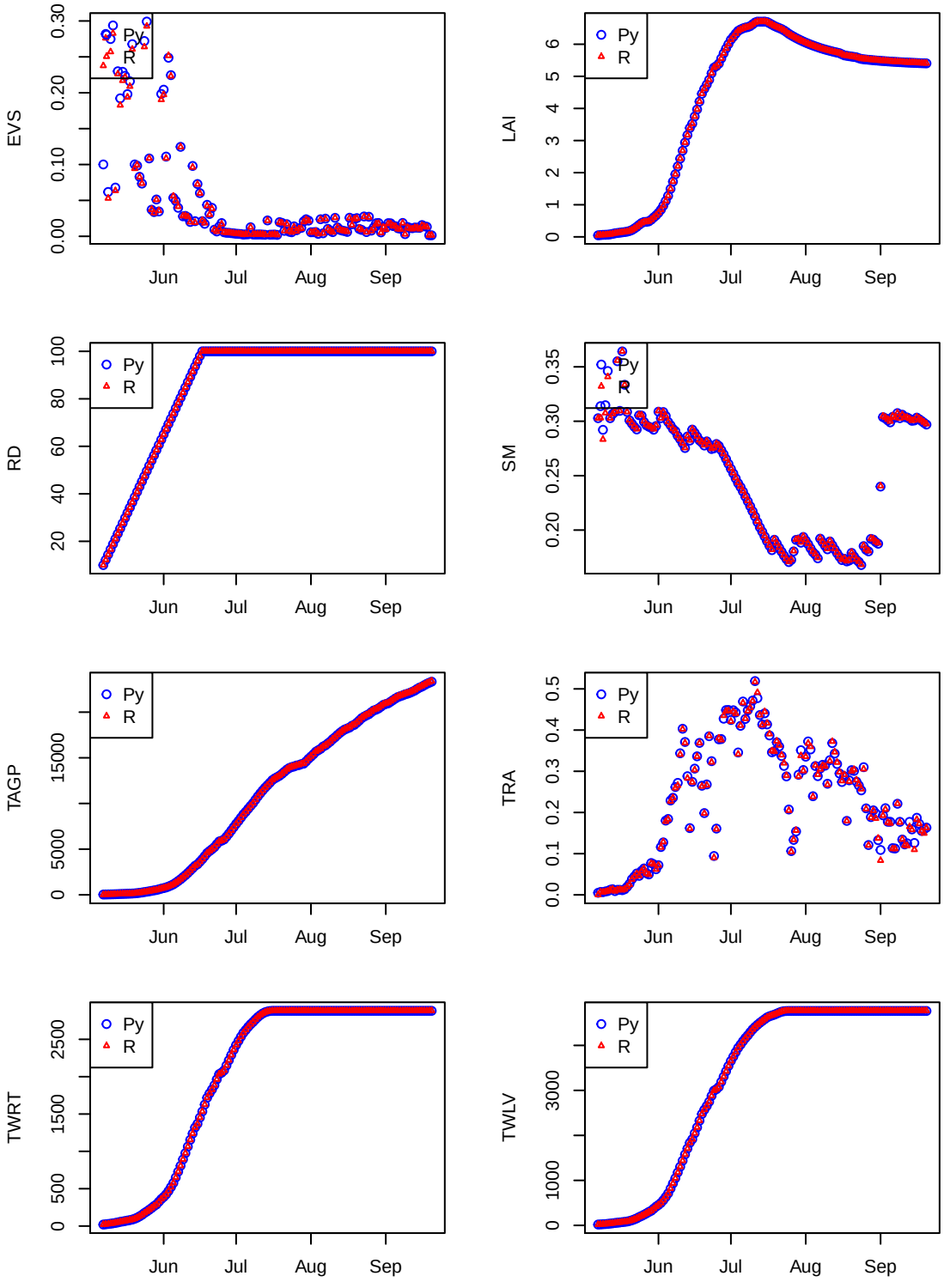

```
## [1] "waterlimitedproduction 12"
```

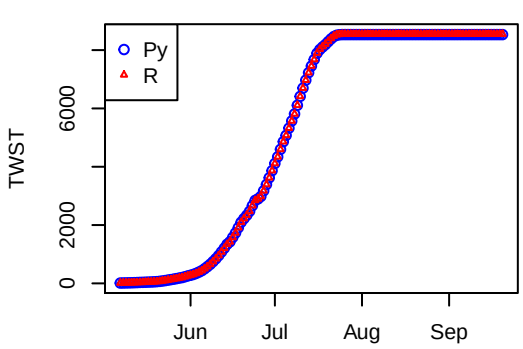

EVS
0.00
0.10
0.20
0.30
LAI
0
1
2
3
4
5
6
RD
20
40
60
80
100
SM
0.20
0.25
0.30
0.35
0.40
TAGP
0
5000
15000
TRA
0.0
0.2
0.4
TWRT
0
500
1500
TWLV
0
1000
3000
Py
R
Jun
Jul
Aug
Sep
Oct

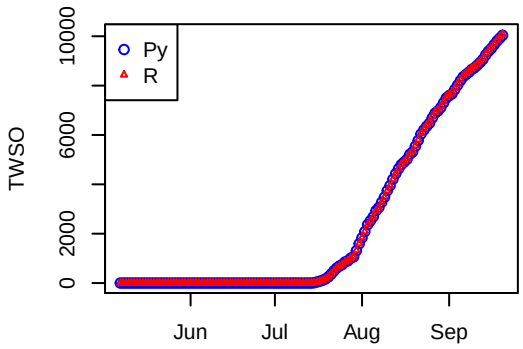




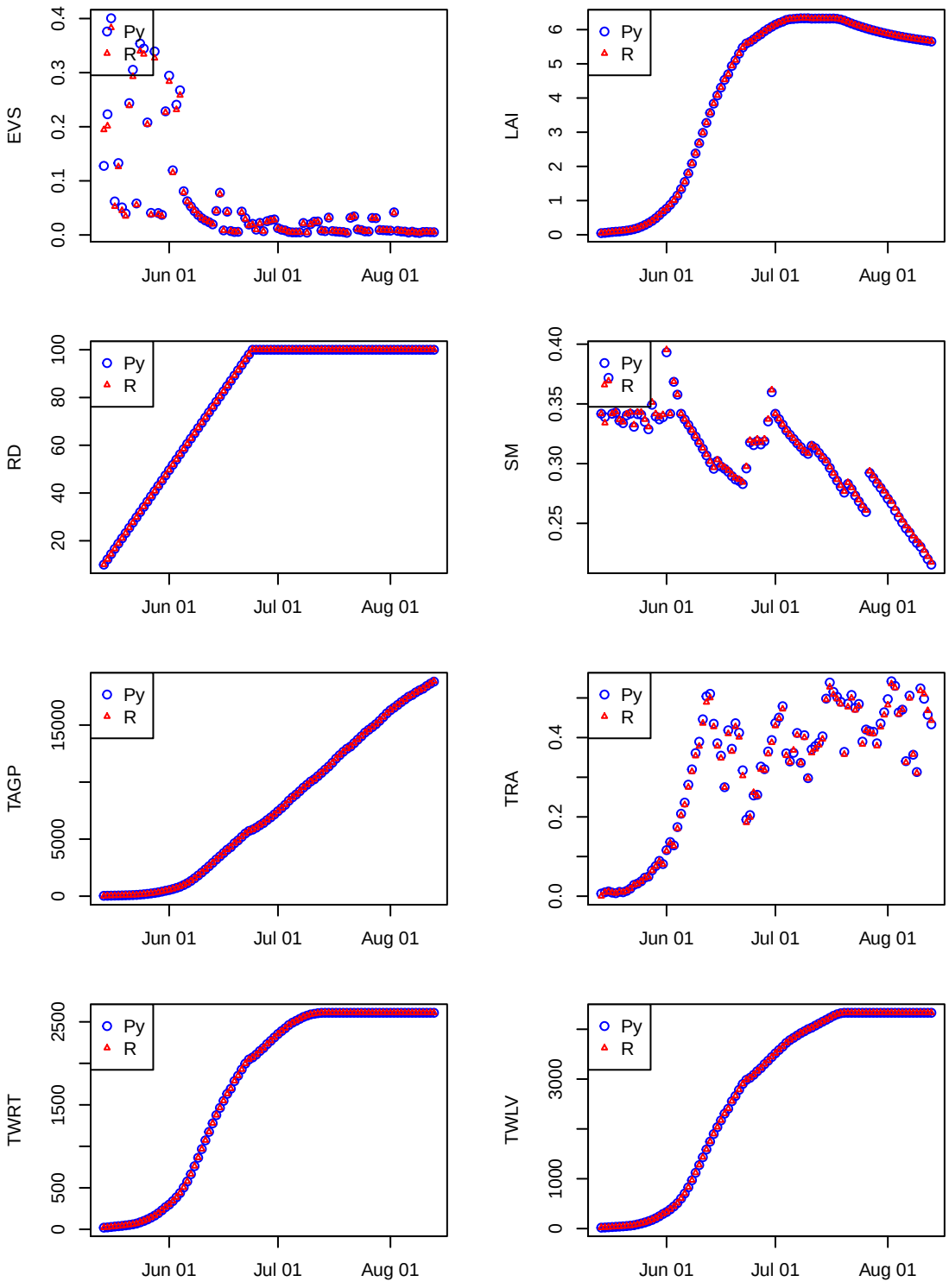

```
## [1] "waterlimitedproduction 13"
```

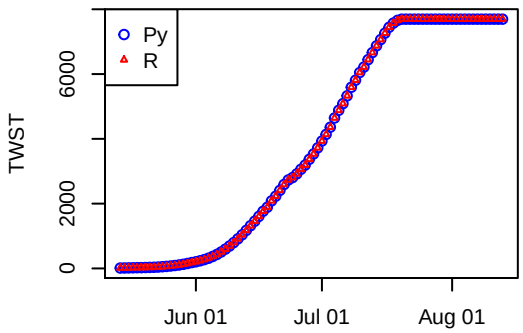

EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
Jun
Jul
Aug
Sep

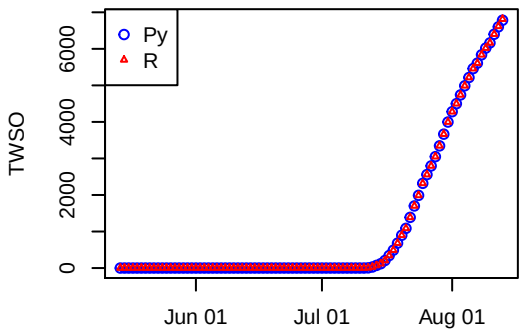




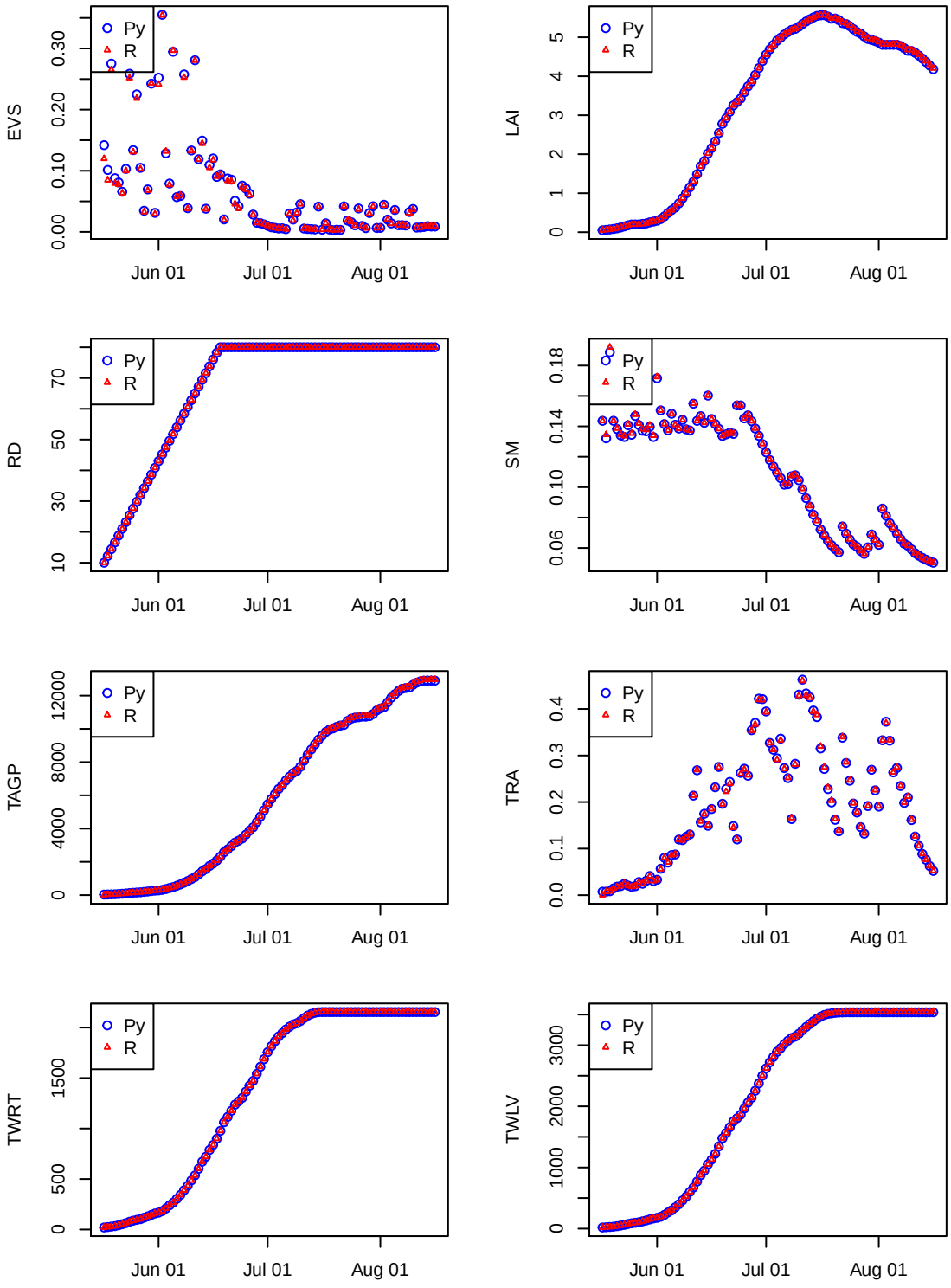

```
## [1] "waterlimitedproduction 14"
```

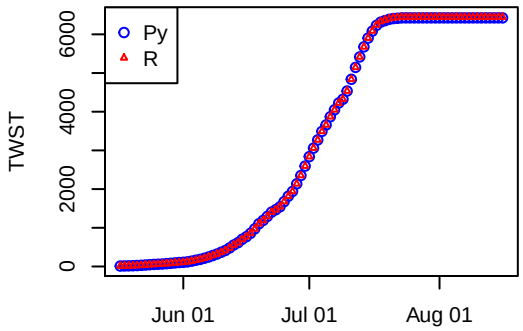

EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
Jun 01
Jul 01
Aug 01

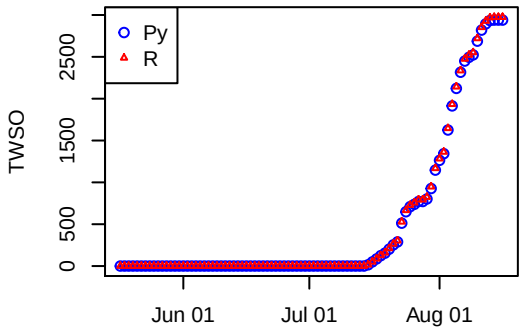




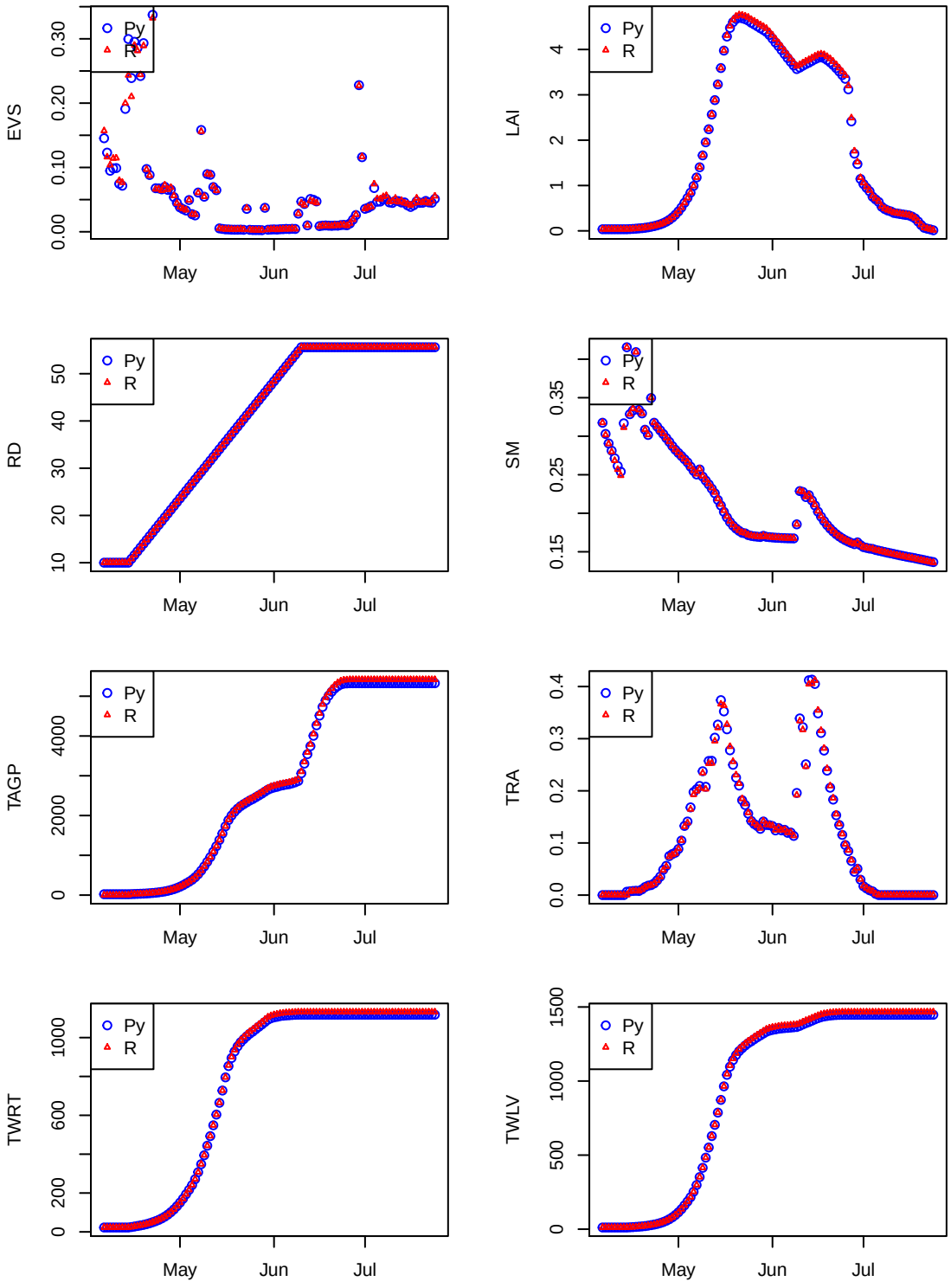

```
## [1] "waterlimitedproduction 15"
```

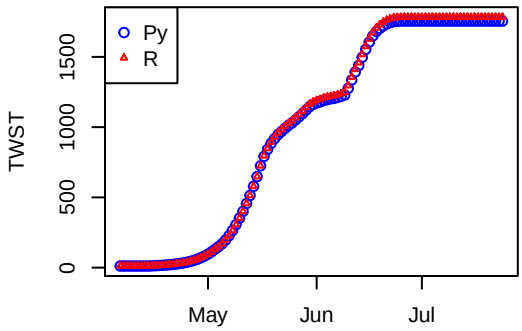

EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
Jun 01
Jul 01
Aug 01

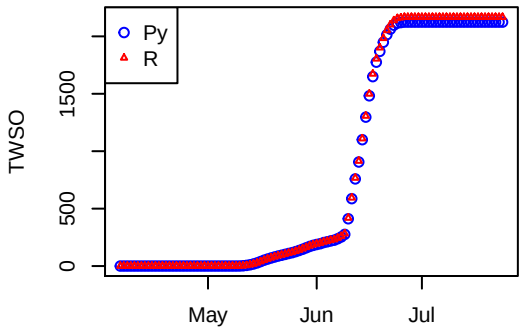




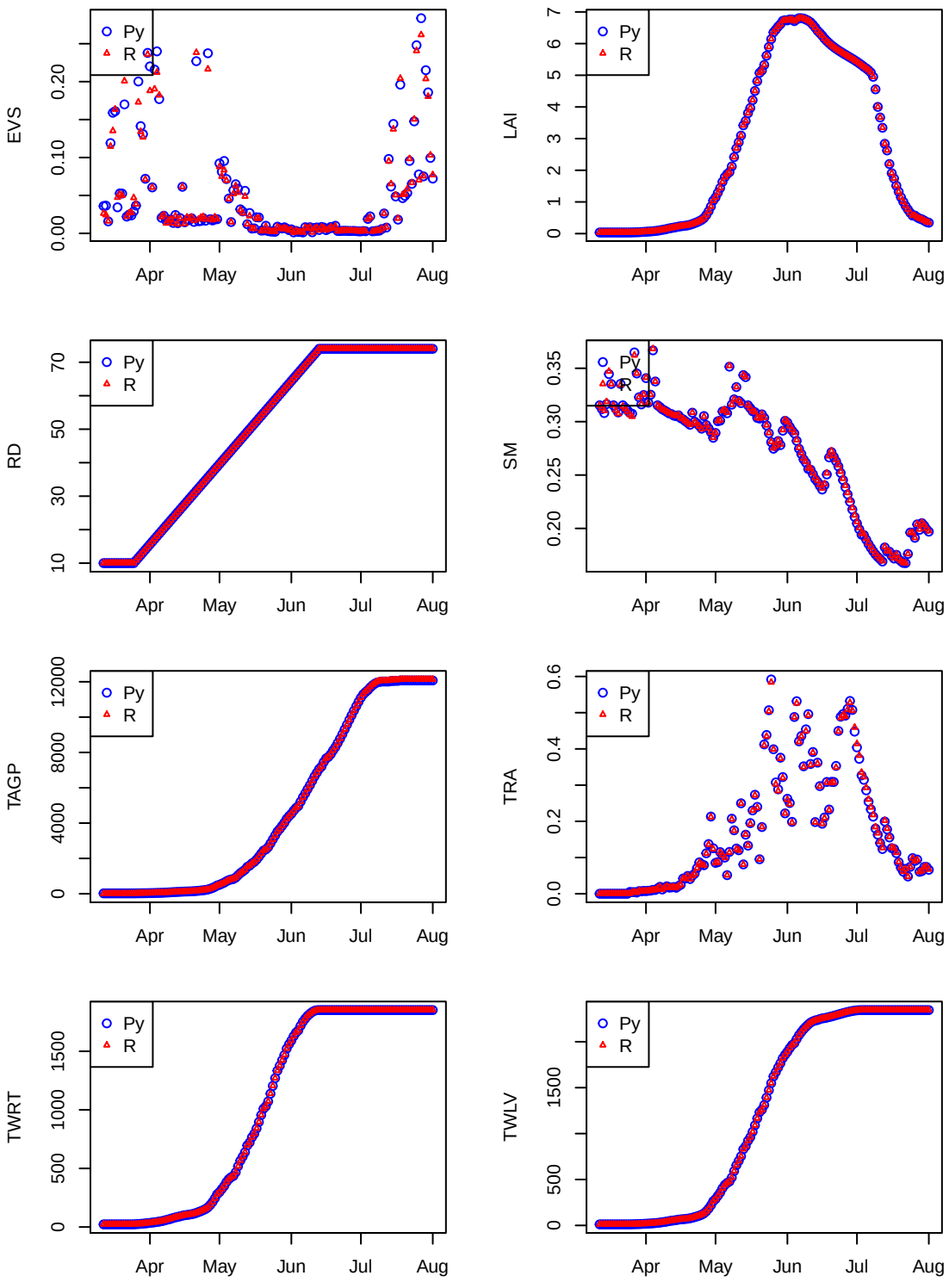

```
## [1] "waterlimitedproduction 16"
```

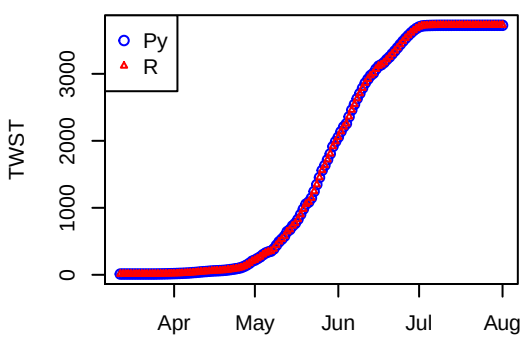

EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
May
Jun
Jul

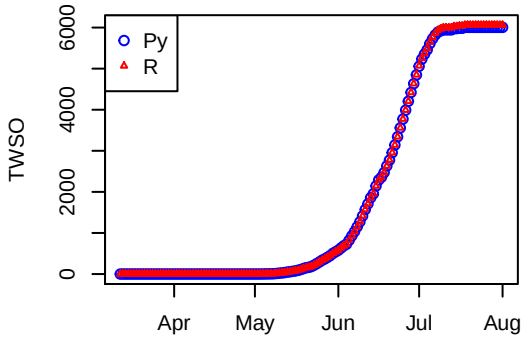




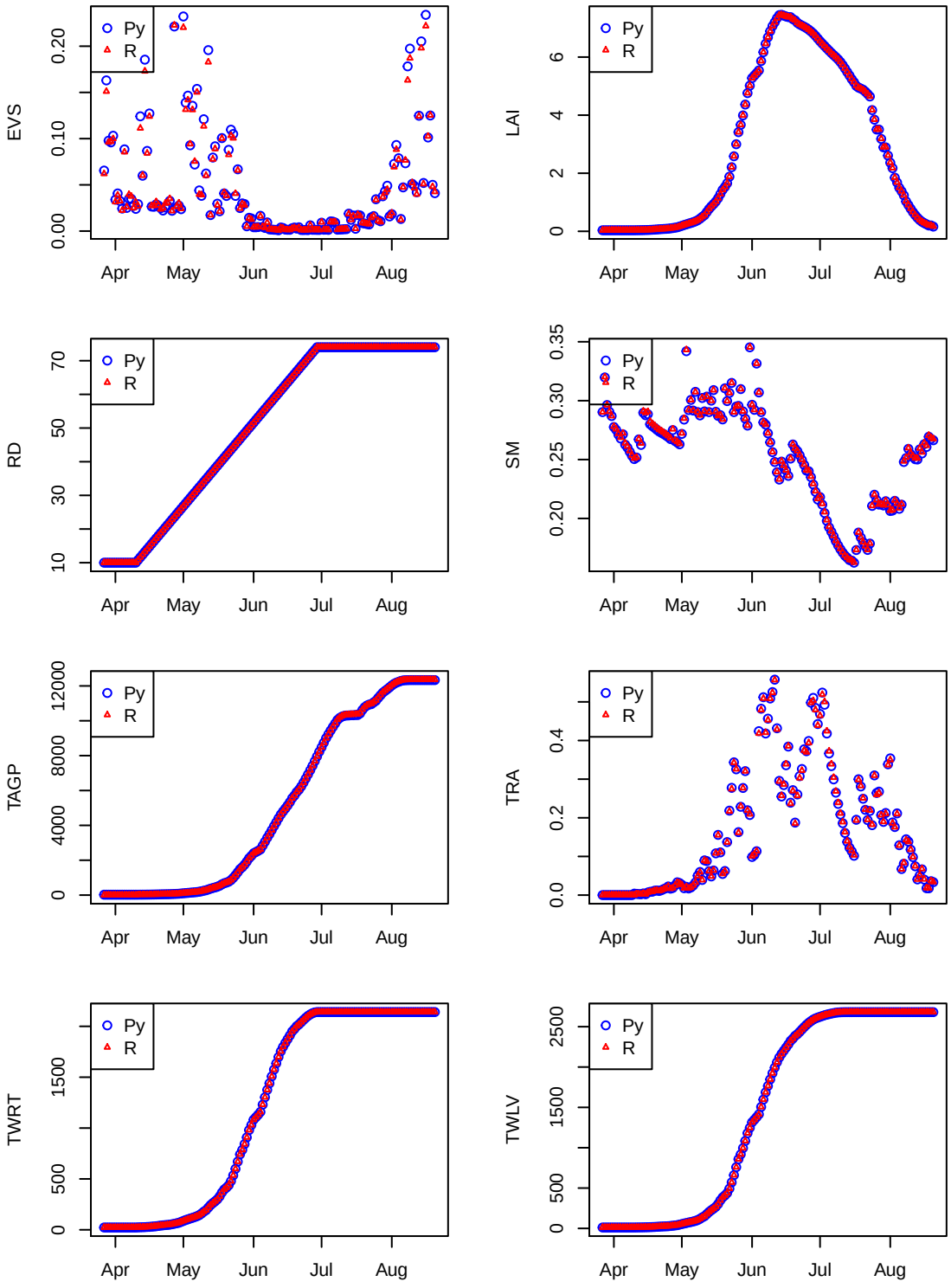

```
## [1] "waterlimitedproduction 27"
```

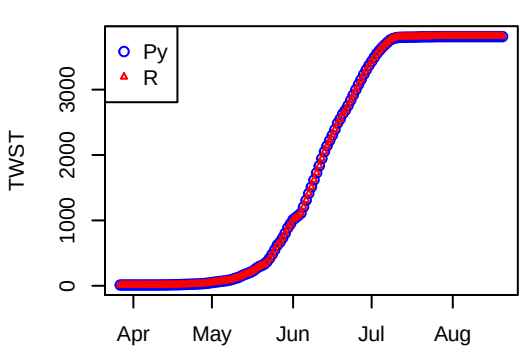

EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
Apr
May
Jun
Jul
Aug

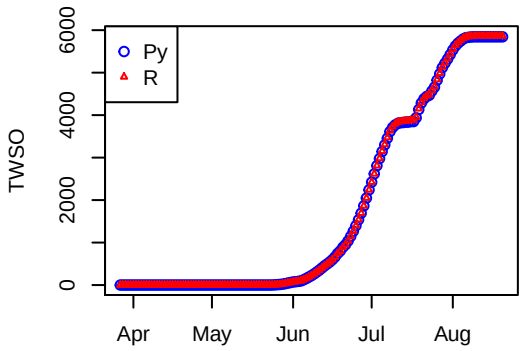




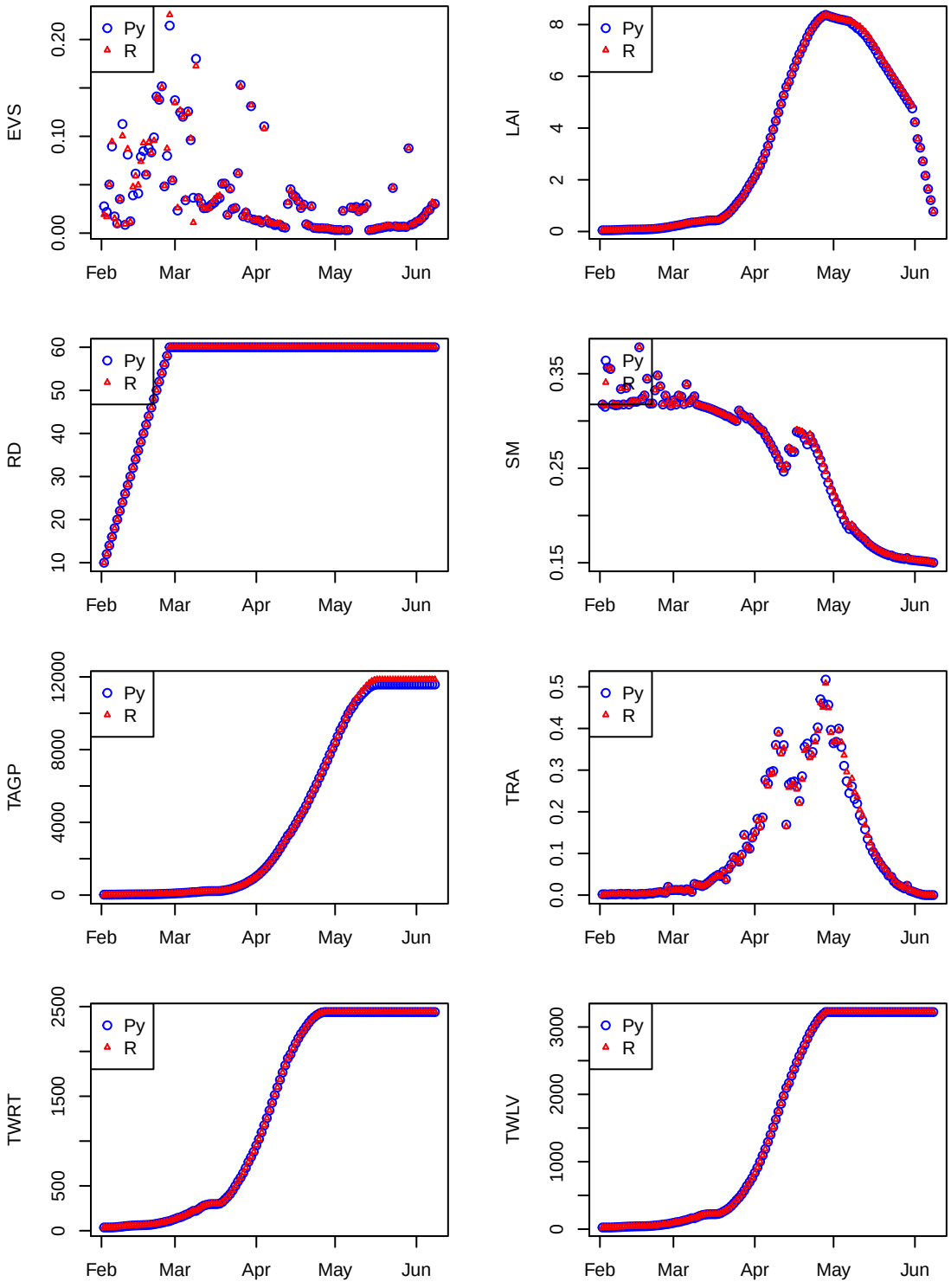

```
## [1] "waterlimitedproduction 28"
```

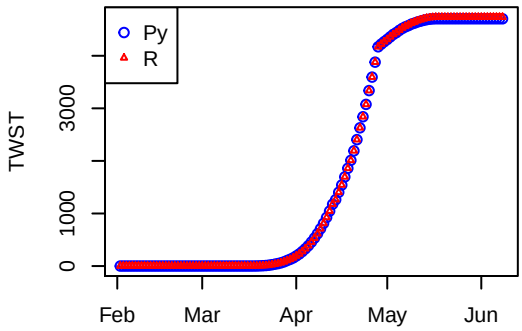

EVS
0.00
0.10
0.20
LAI
0
2
4
6
RD
10
30
50
70
SM
0.20
0.25
0.30
0.35
TAGP
0
4000
8000
12000
TRA
0.0
0.2
0.4
TWRT
0
500
1500
TWLV
0
500
1500
2500
Py
R
Apr
May
Jun
Jul
Aug

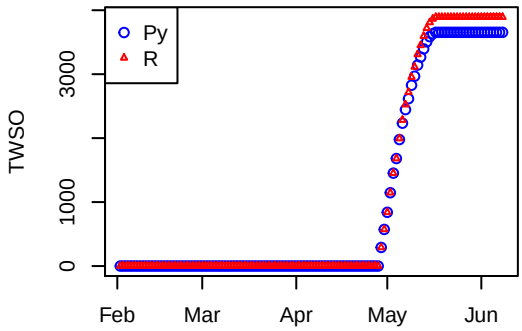




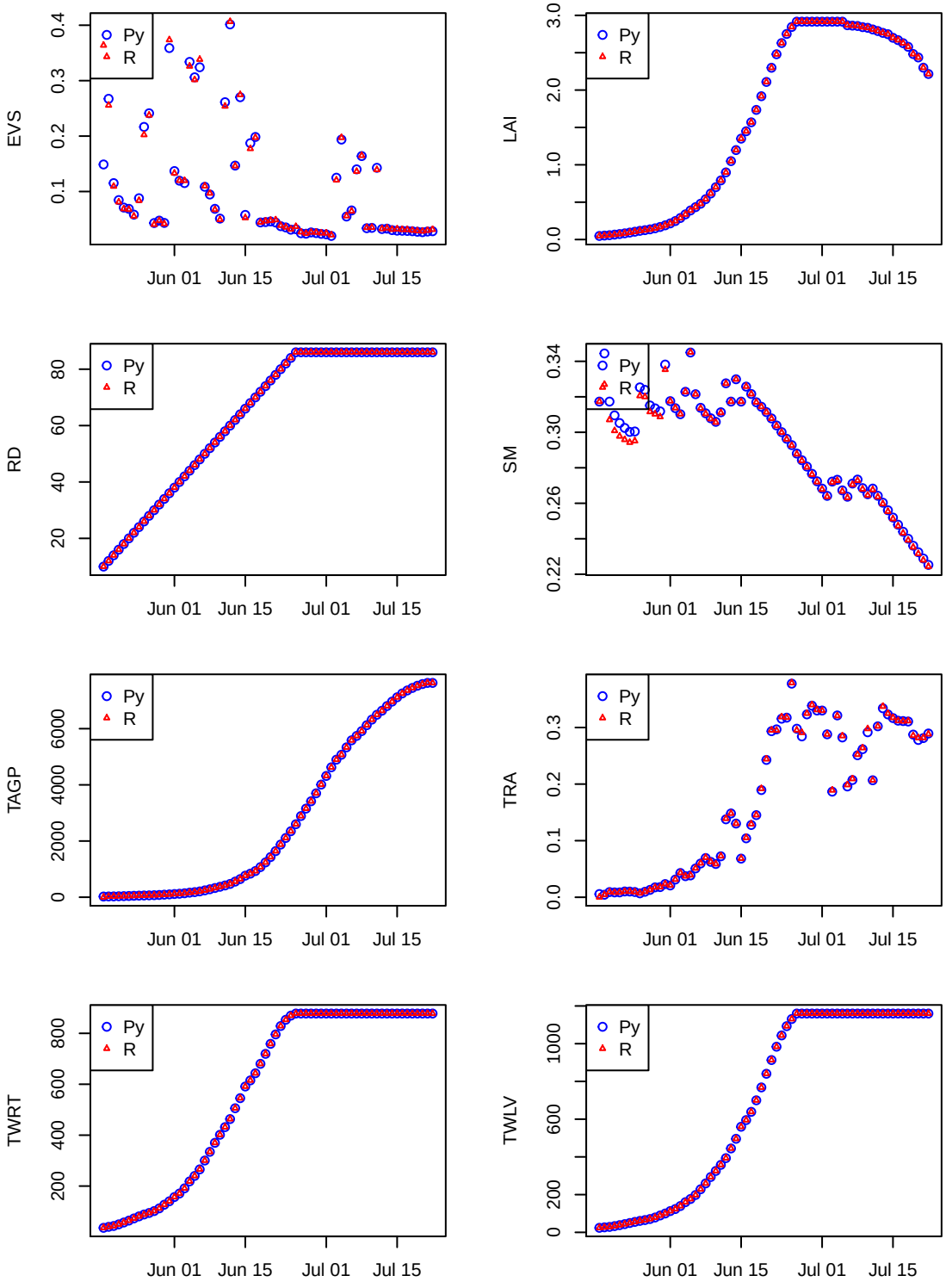

```
## [1] "waterlimitedproduction 29"
```

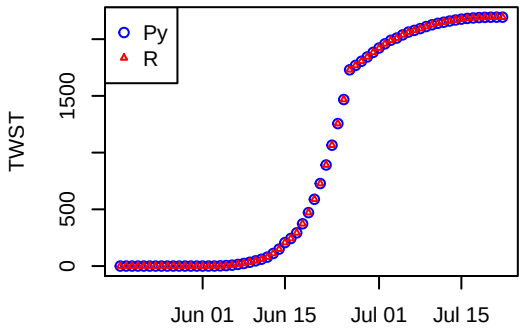

EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
Feb
Mar
Apr
May
Jun

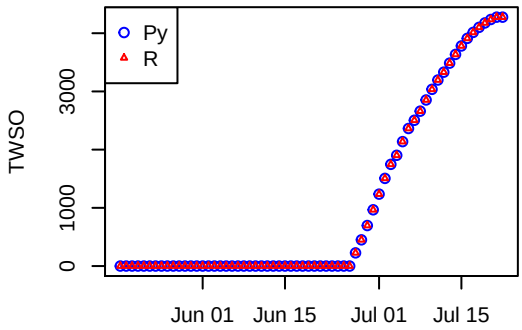




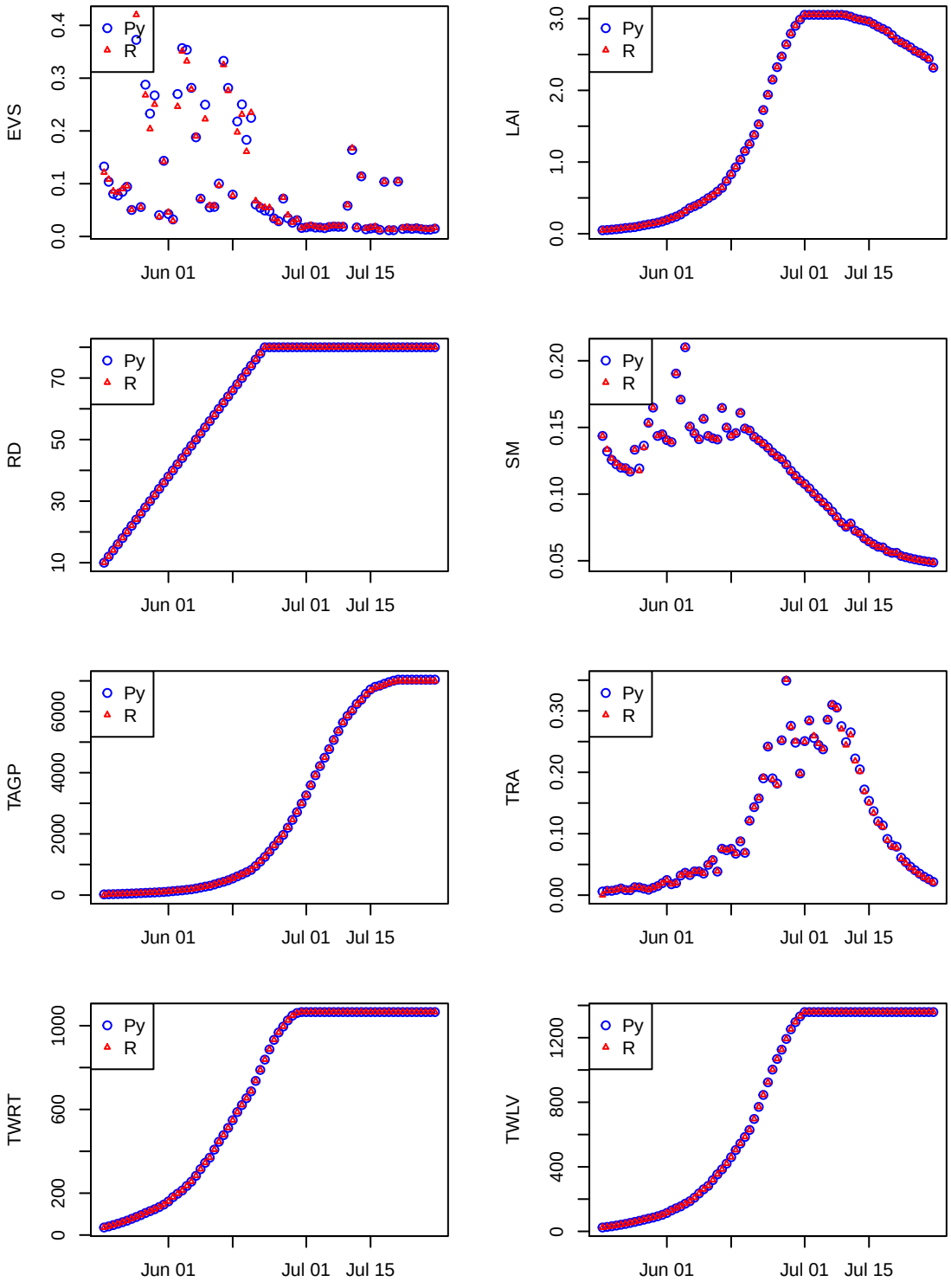

```
## [1] "waterlimitedproduction 30"
```

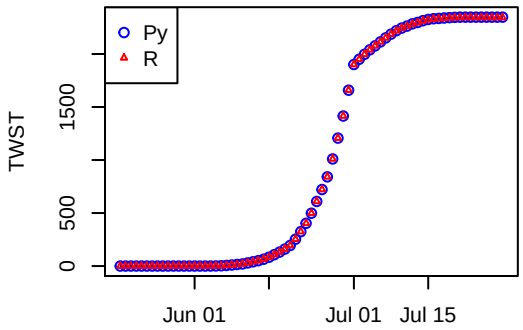

EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
Jun 01
Jun 15
Jul 01
Jul 15

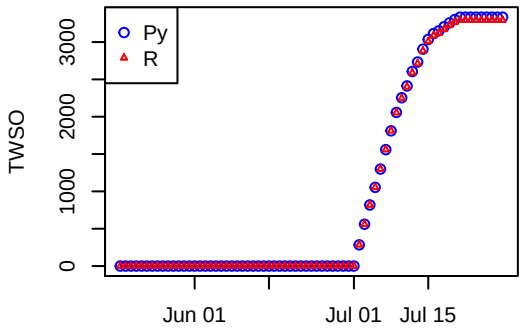




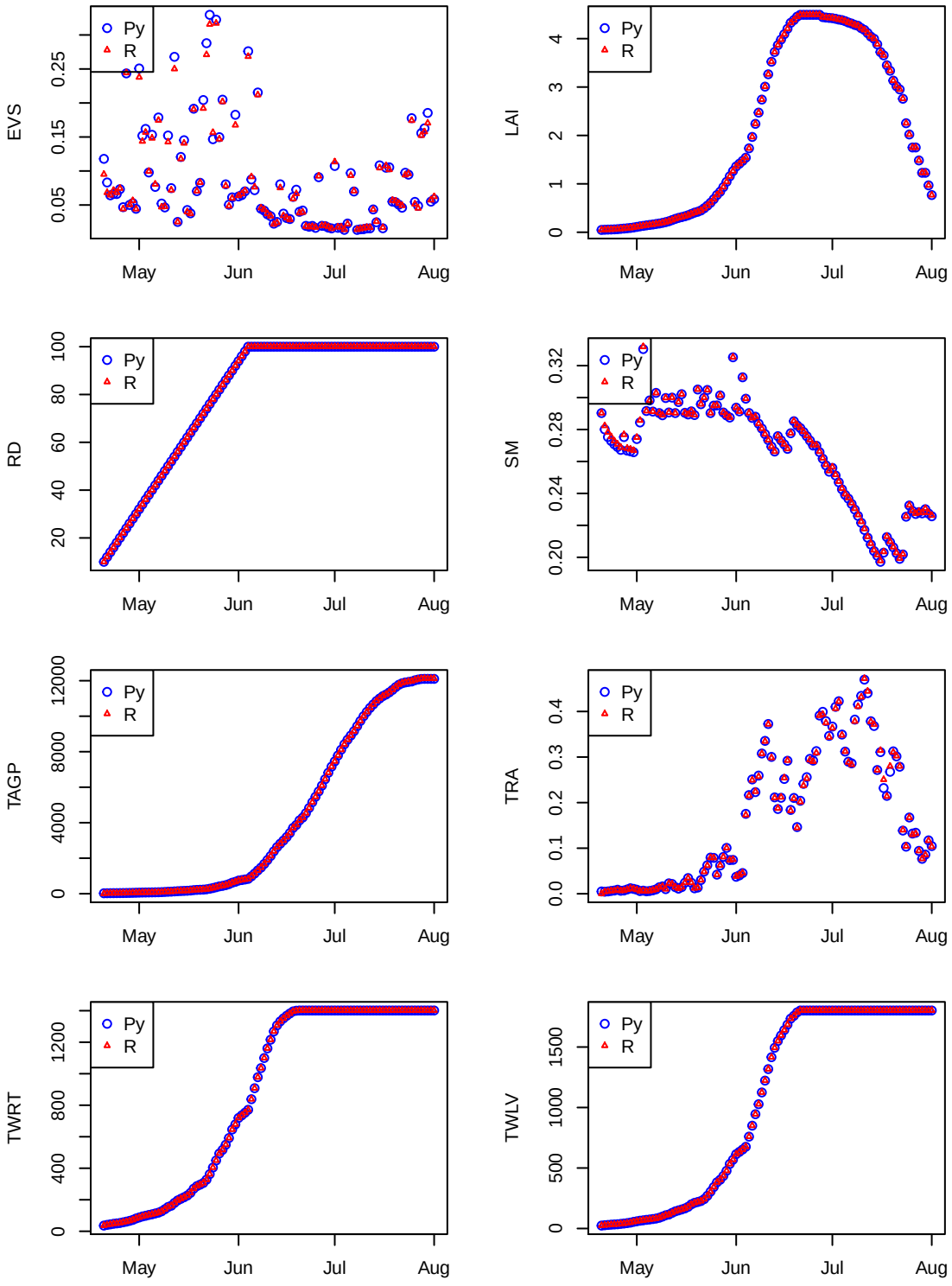

```
## [1] "waterlimitedproduction 31"
```

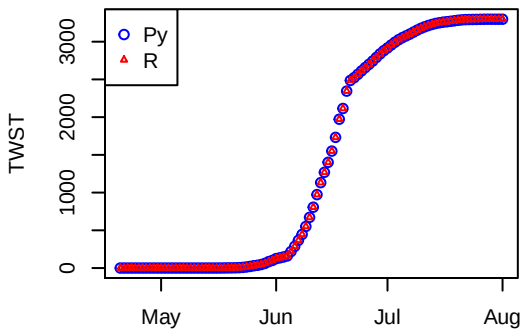

EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
Jun 01
Jul 01
Jul 15

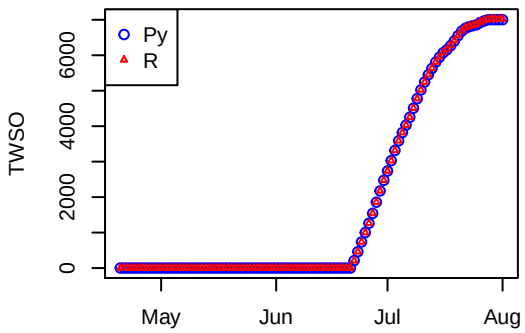




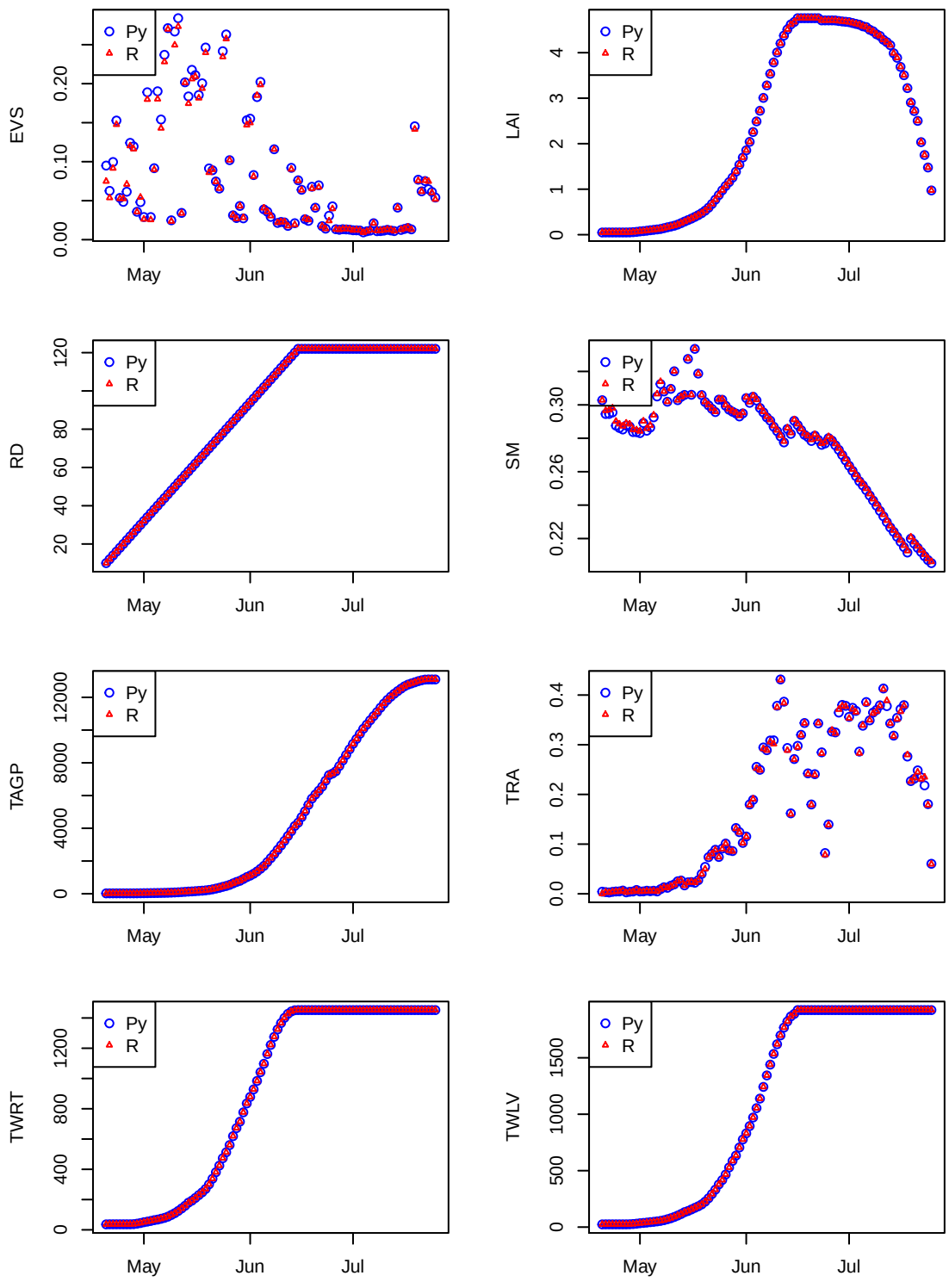

```
## [1] "waterlimitedproduction 32"
```

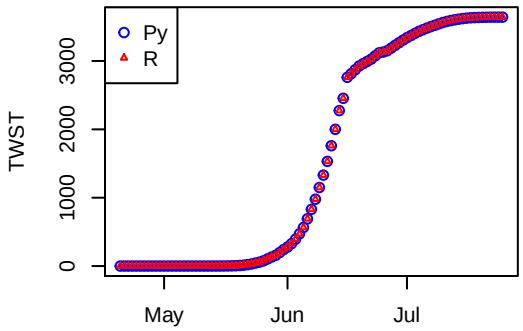

EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
May
Jun
Jul
Aug

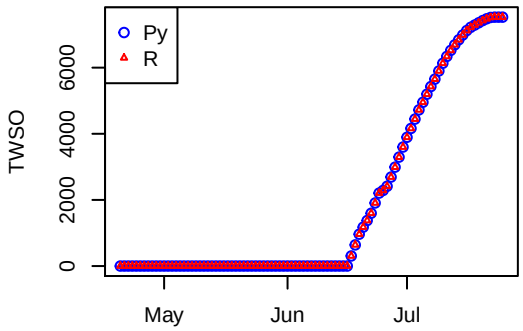




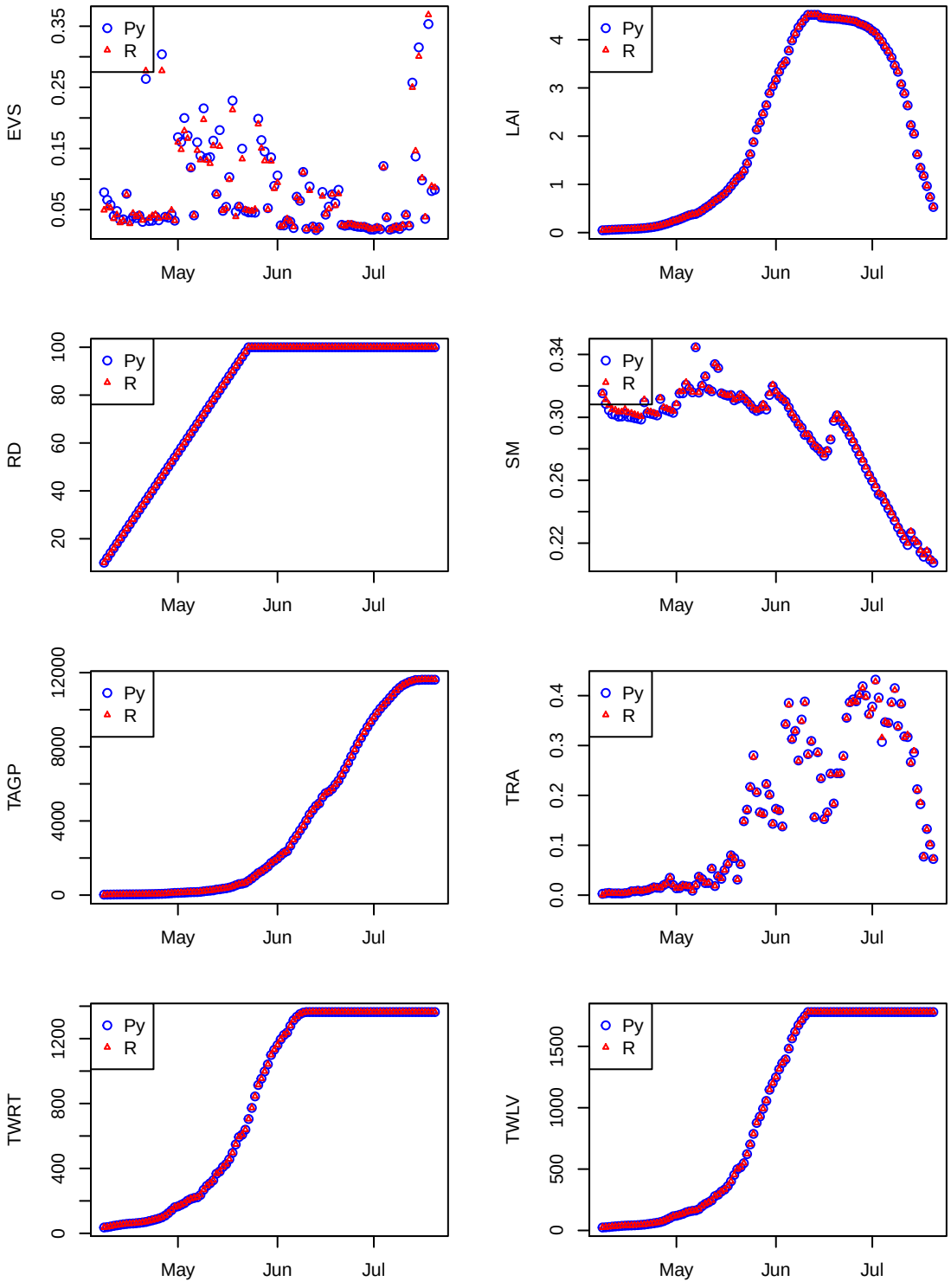

```
## [1] "waterlimitedproduction 33"
```

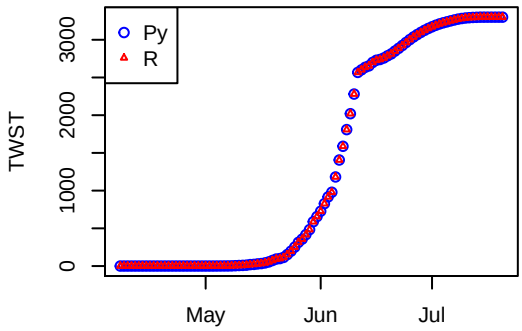

EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
May
Jun
Jul

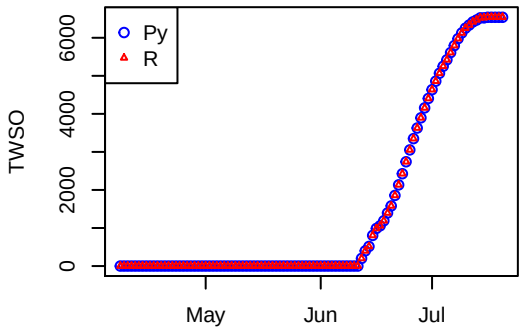




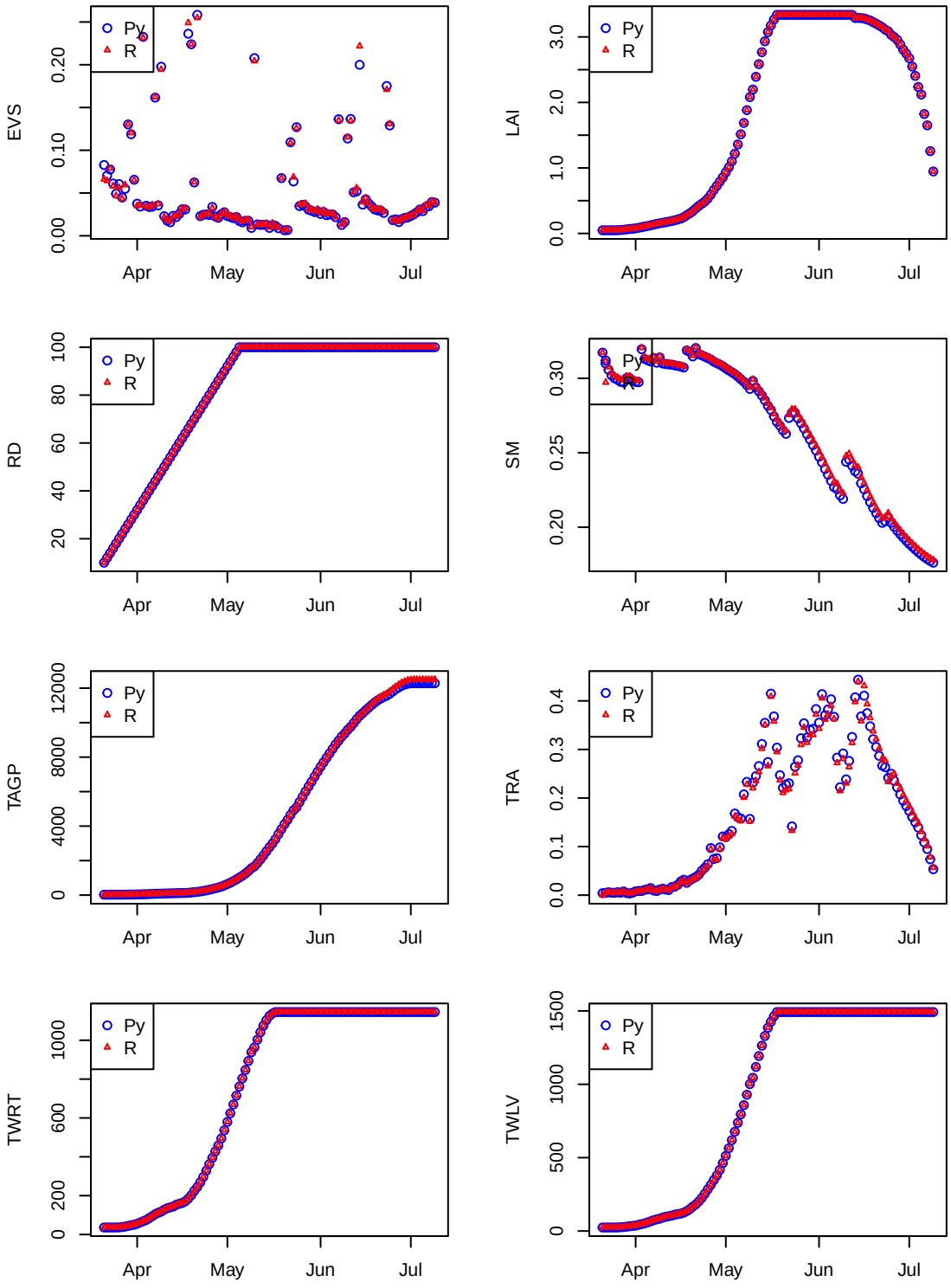

```
## [1] "waterlimitedproduction 34"
```

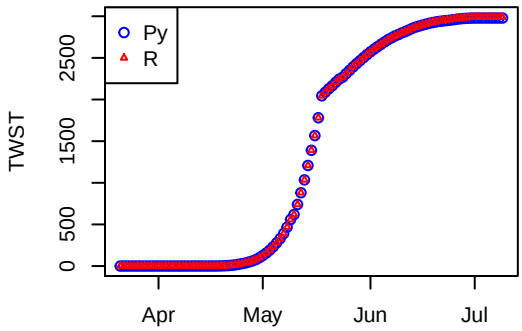

EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
May
Jun
Jul

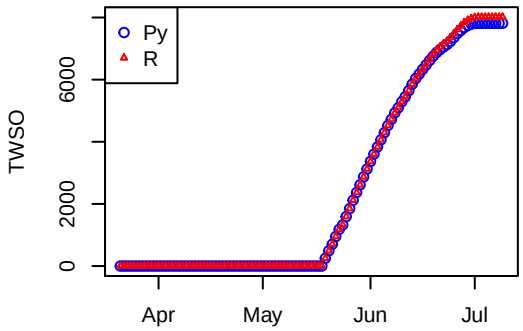




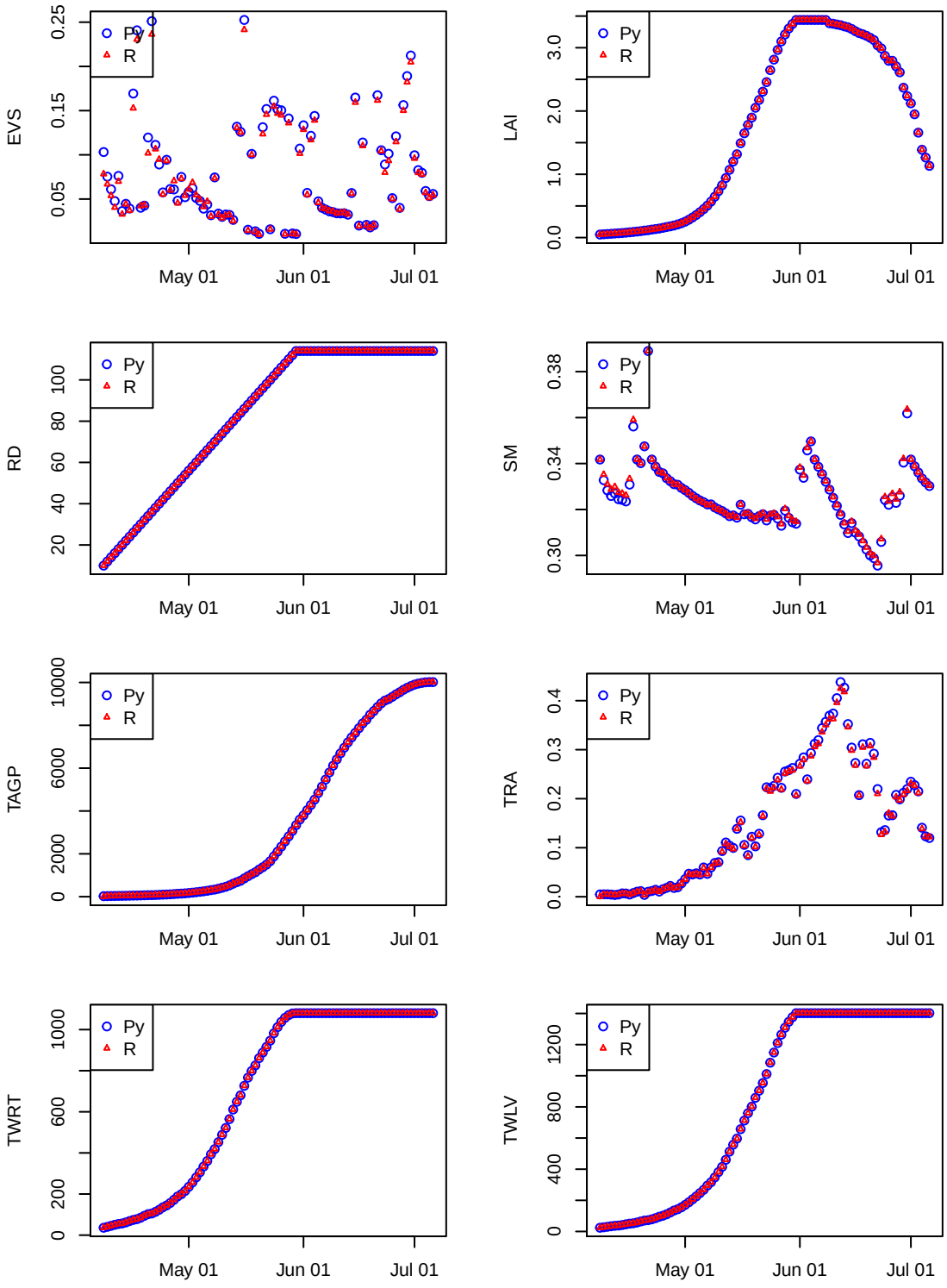

```
## [1] "waterlimitedproduction 35"
```

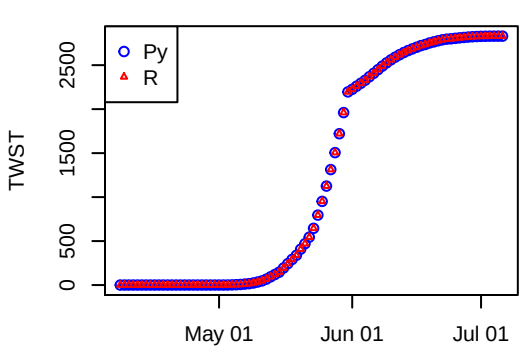

EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
Apr
May
Jun
Jul

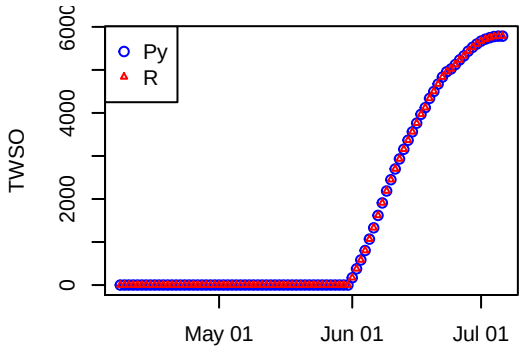




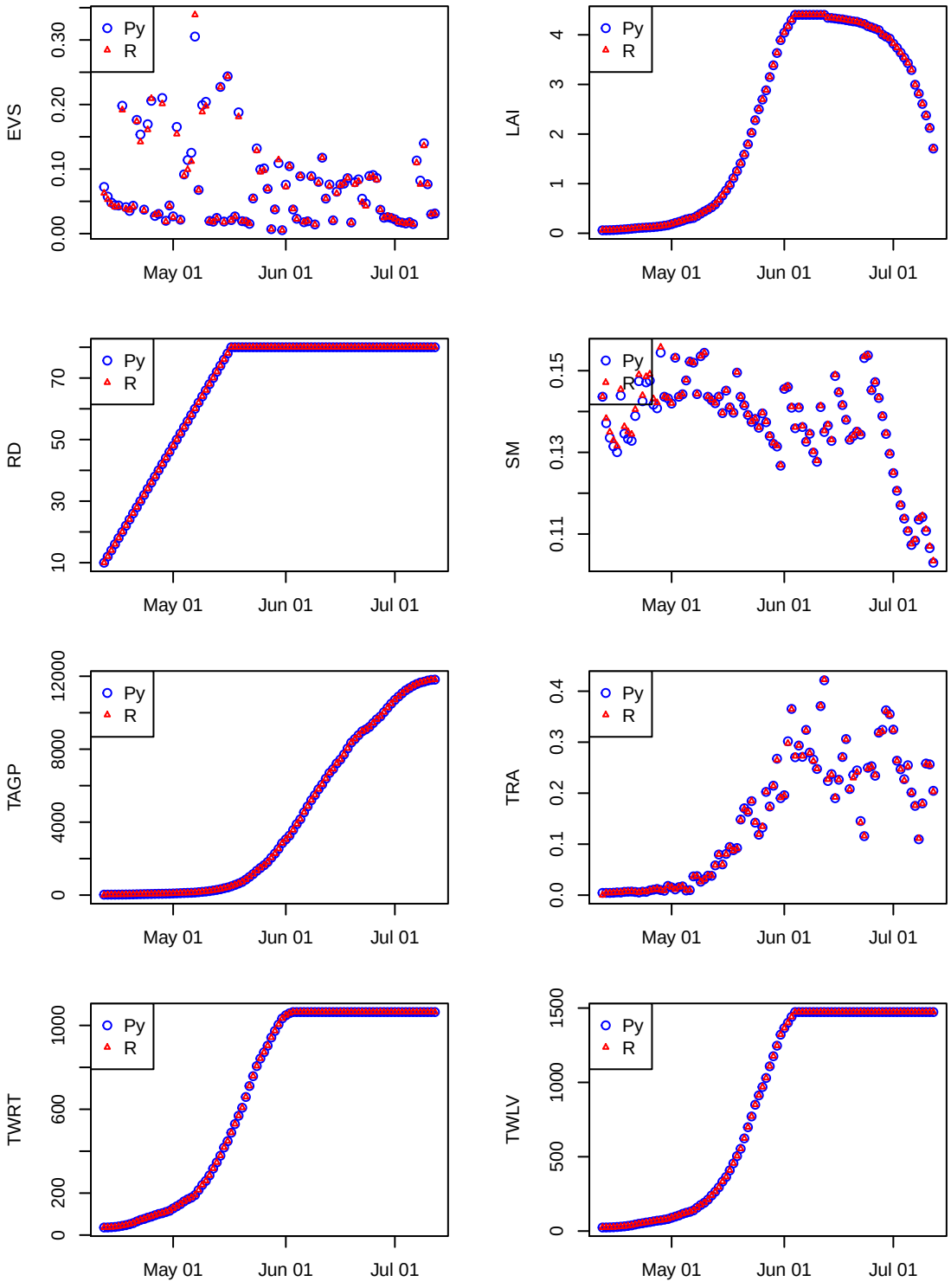

```
## [1] "waterlimitedproduction 36"
```

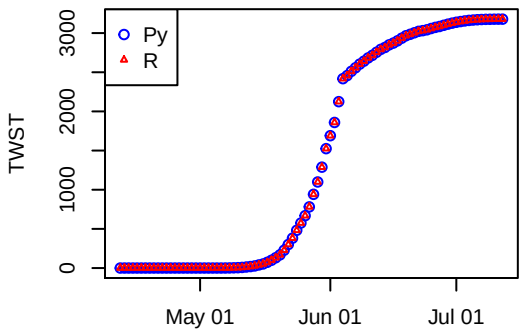

EVS
0.05
0.15
0.25
LAI
0.0
1.0
2.0
3.0
RD
20
40
60
80
100
SM
0.30
0.34
0.38
TAGP
0
2000
6000
10000
TRA
0.0
0.1
0.2
0.3
0.4
TWRT
0
200
600
1000
TWLV
0
400
800
1200
Py
R
May 01
Jun 01
Jul 01

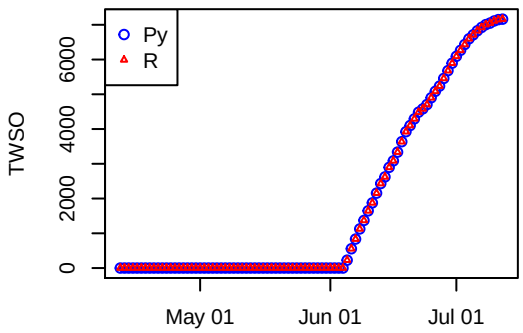




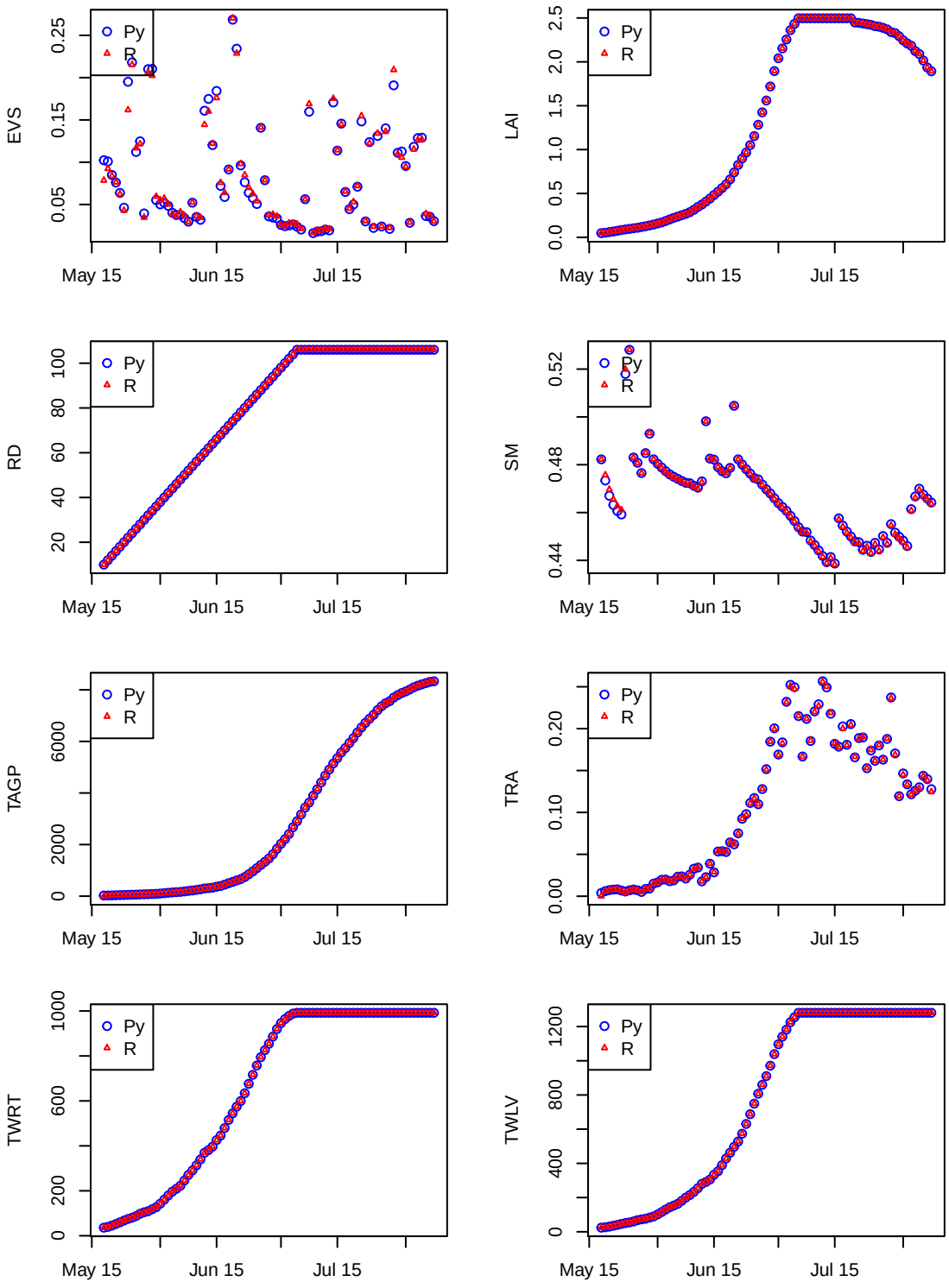

```
## [1] "waterlimitedproduction 37"
```

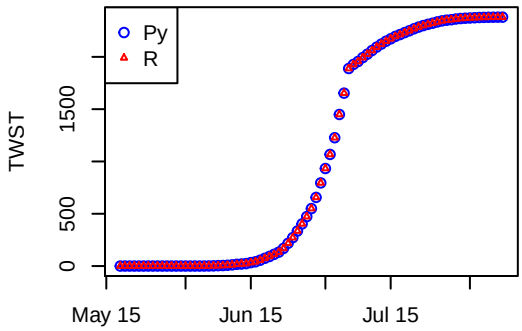

EVS
0.00
0.10
0.20
0.30
LAI
0
1
2
3
4
RD
10
30
50
70
SM
0.11
0.13
0.15
TAGP
0
4000
8000
12000
TRA
0.0
0.1
0.2
0.3
0.4
TWRT
0
200
600
1000
TWLV
0
500
1000
1500
Py
R
May 01
Jun 01
Jul 01

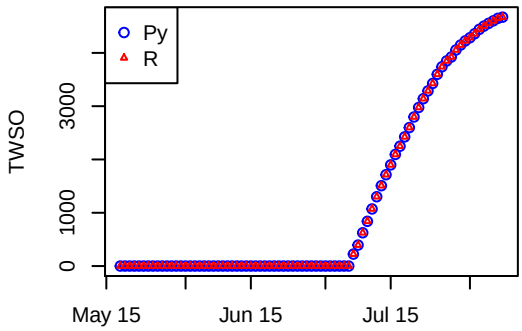




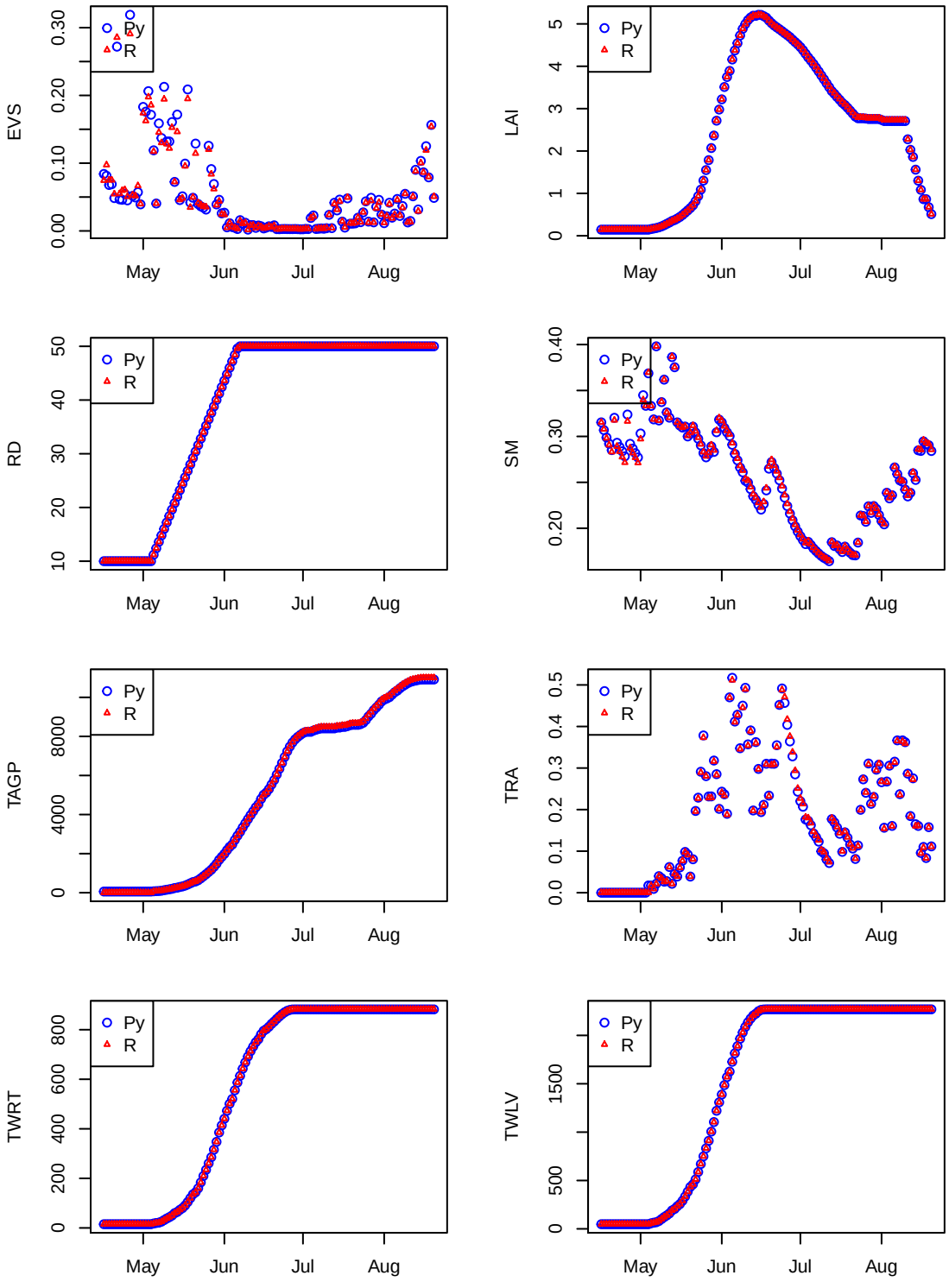

```
## [1] "waterlimitedproduction 38"
```

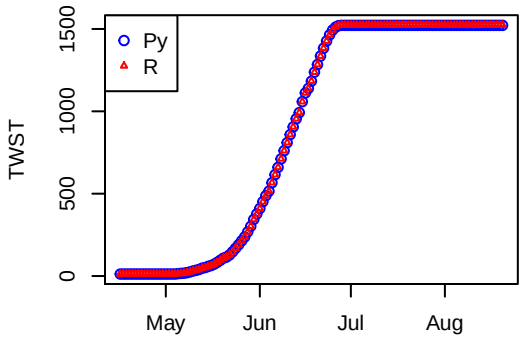

EVS
0.05
0.15
0.25
LAI
0.0
0.5
1.0
1.5
2.0
2.5
RD
20
40
60
80
100
SM
0.44
0.48
0.52
TAGP
0
2000
6000
TRA
0.00
0.10
0.20
TWRT
0
200
600
1000
TWLV
0
400
800
1200
Py
R
May 15
Jun 15
Jul 15

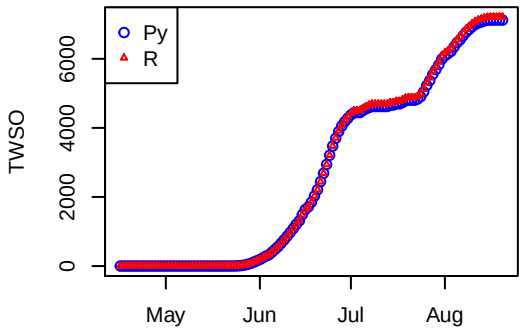




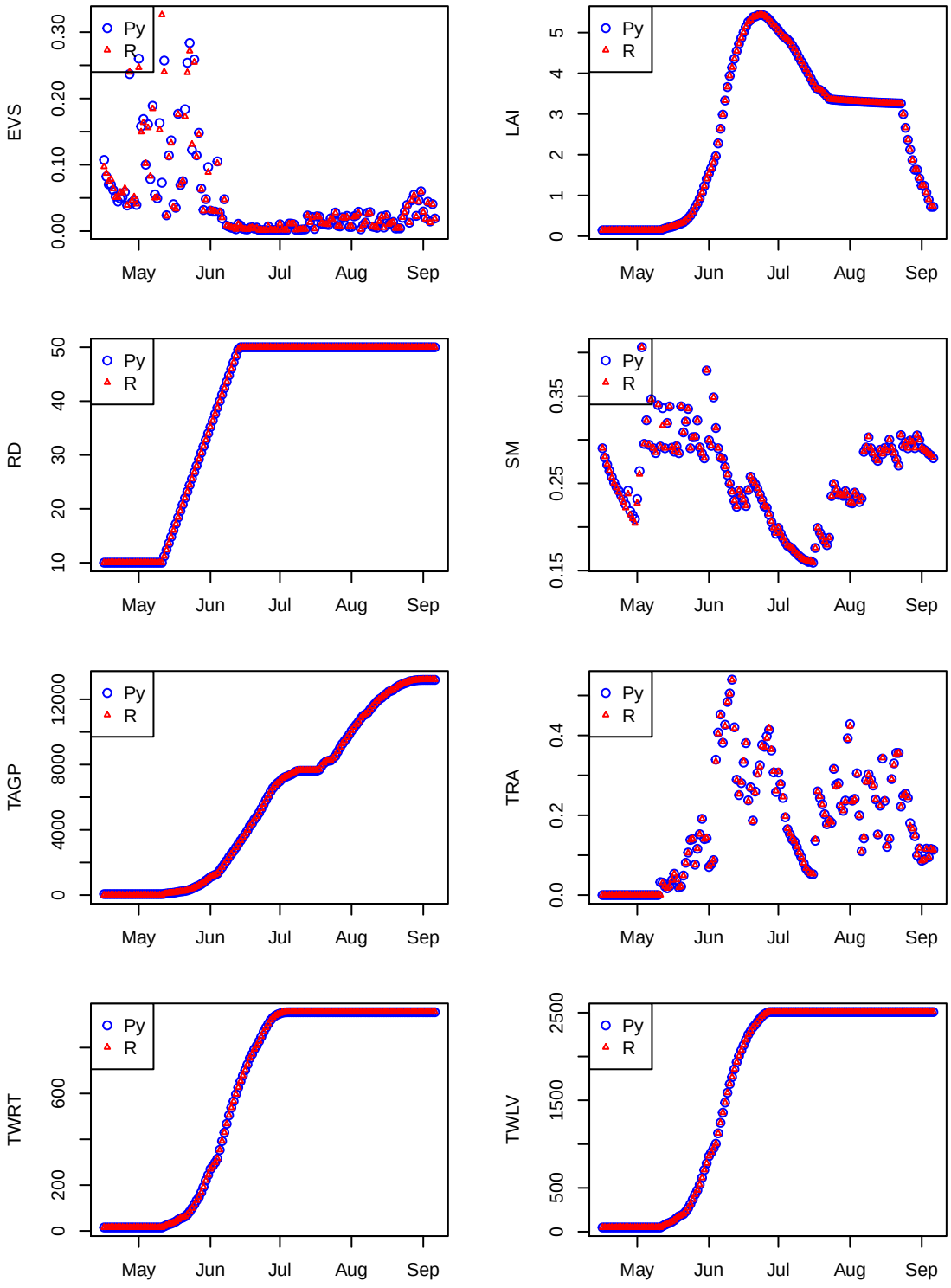

```
## [1] "waterlimitedproduction 39"
```

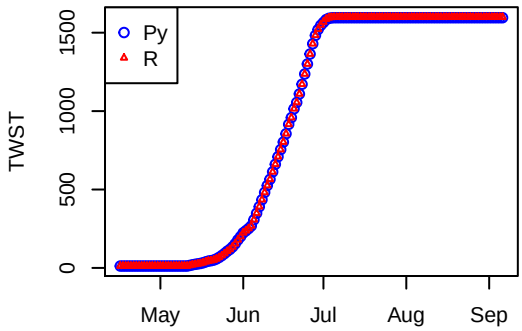

EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
May
Jun
Jul
Aug

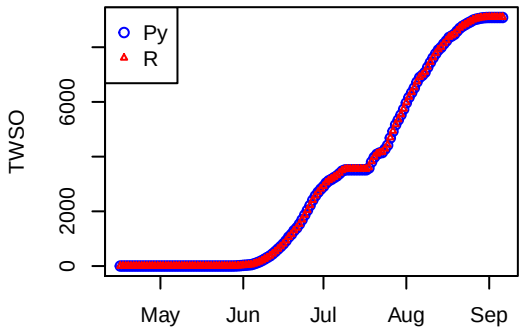




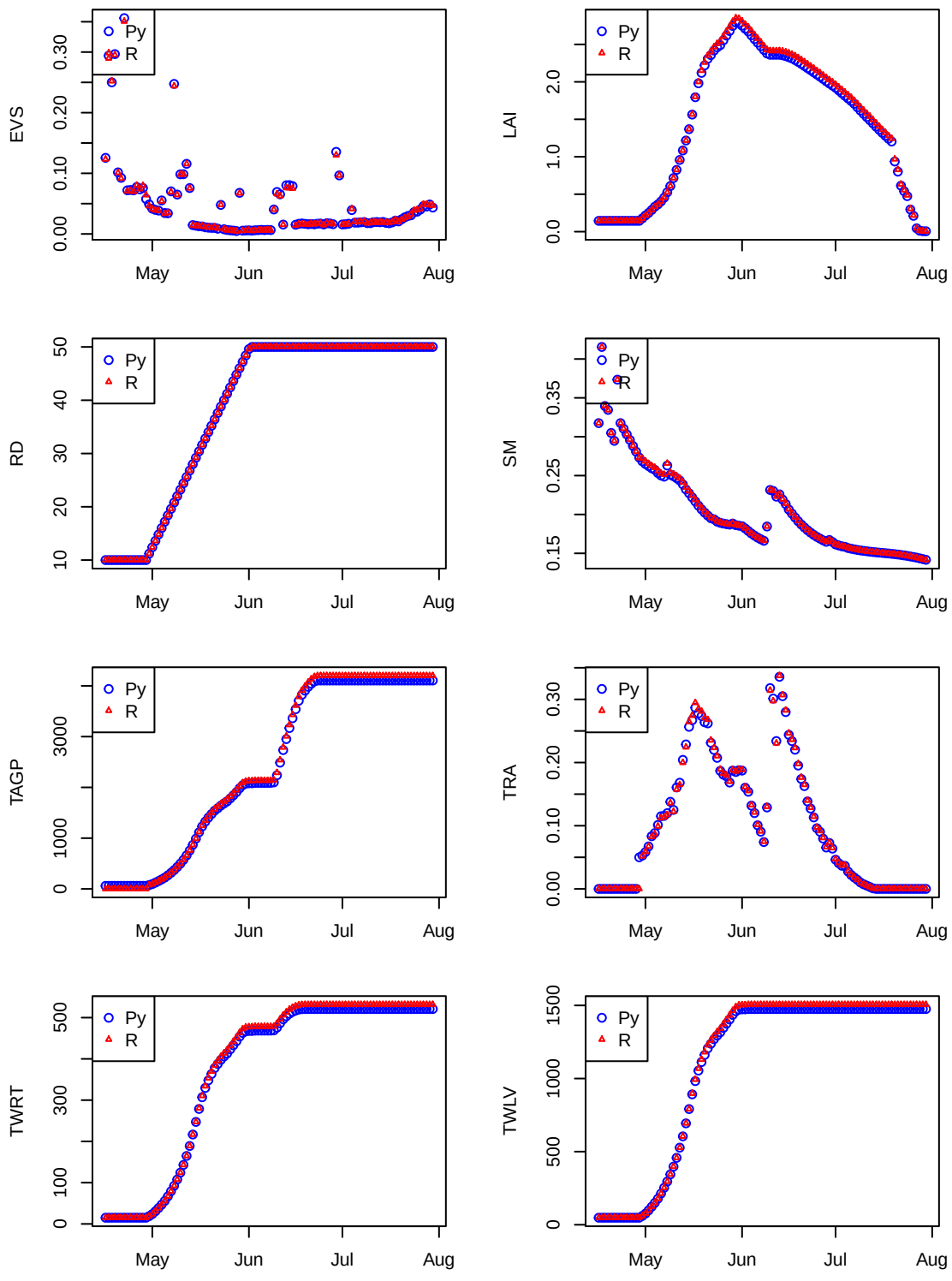

```
## [1] "waterlimitedproduction 40"
```

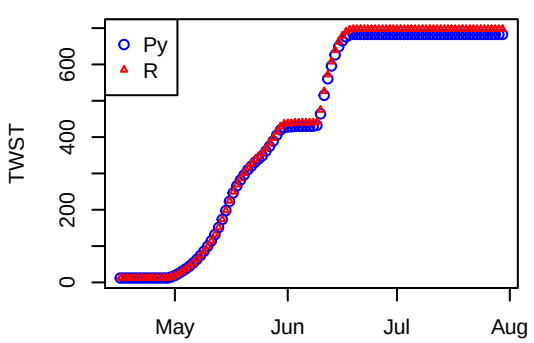

EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
May
Jun
Jul
Aug
Sep

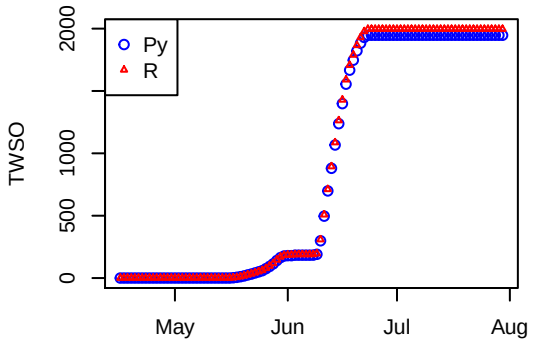




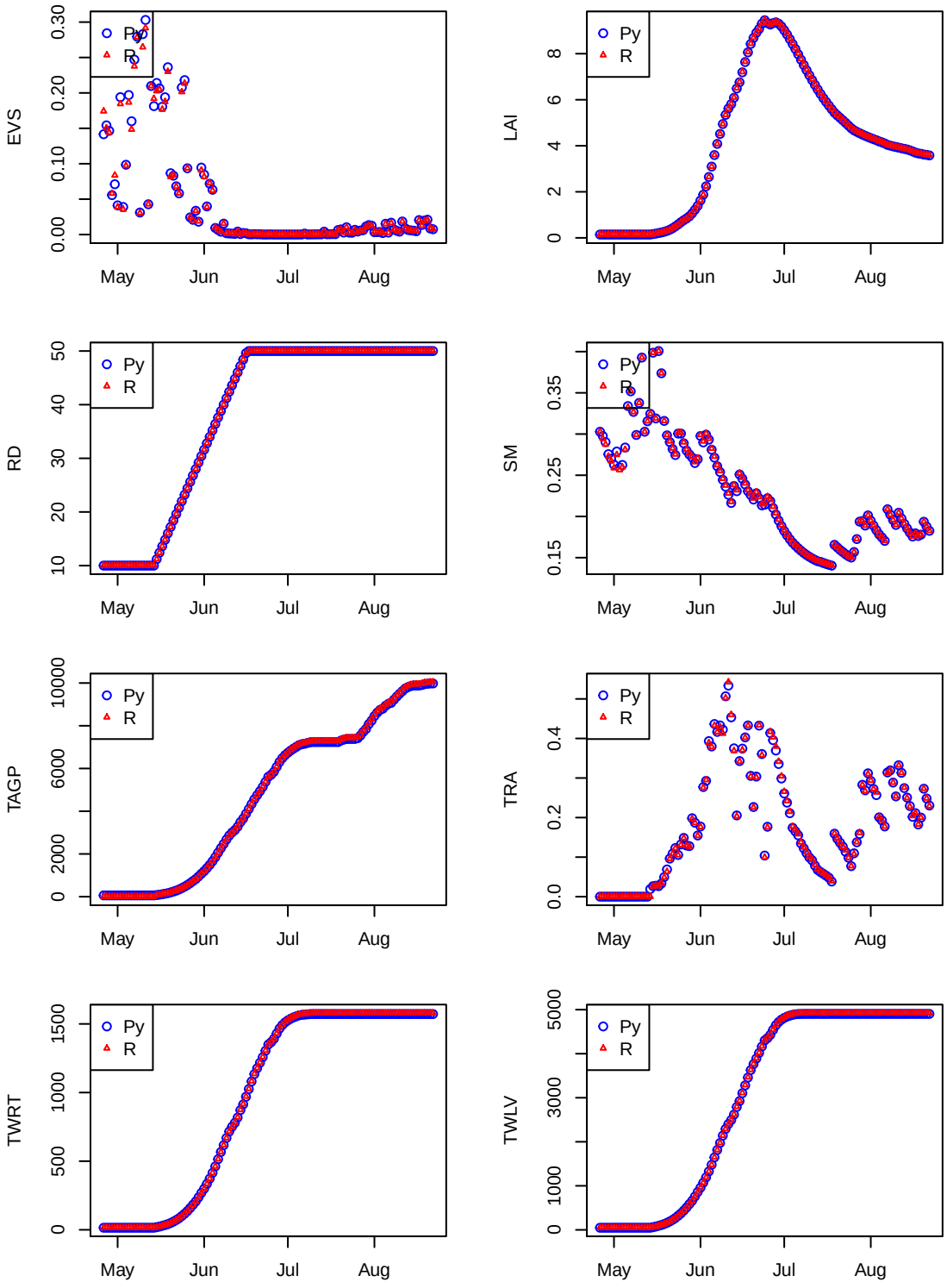

```
## [1] "waterlimitedproduction 41"
```

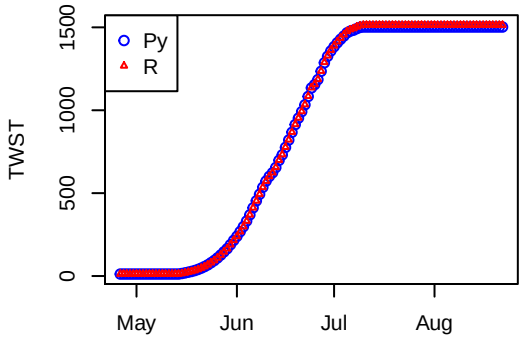

EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
May
Jun
Jul
Aug

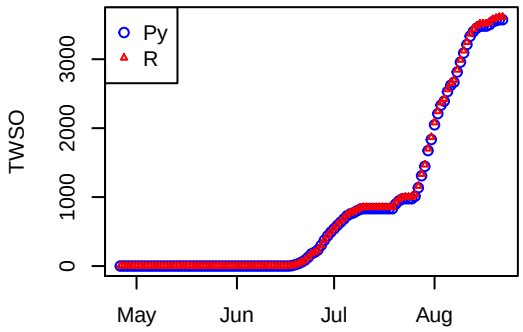




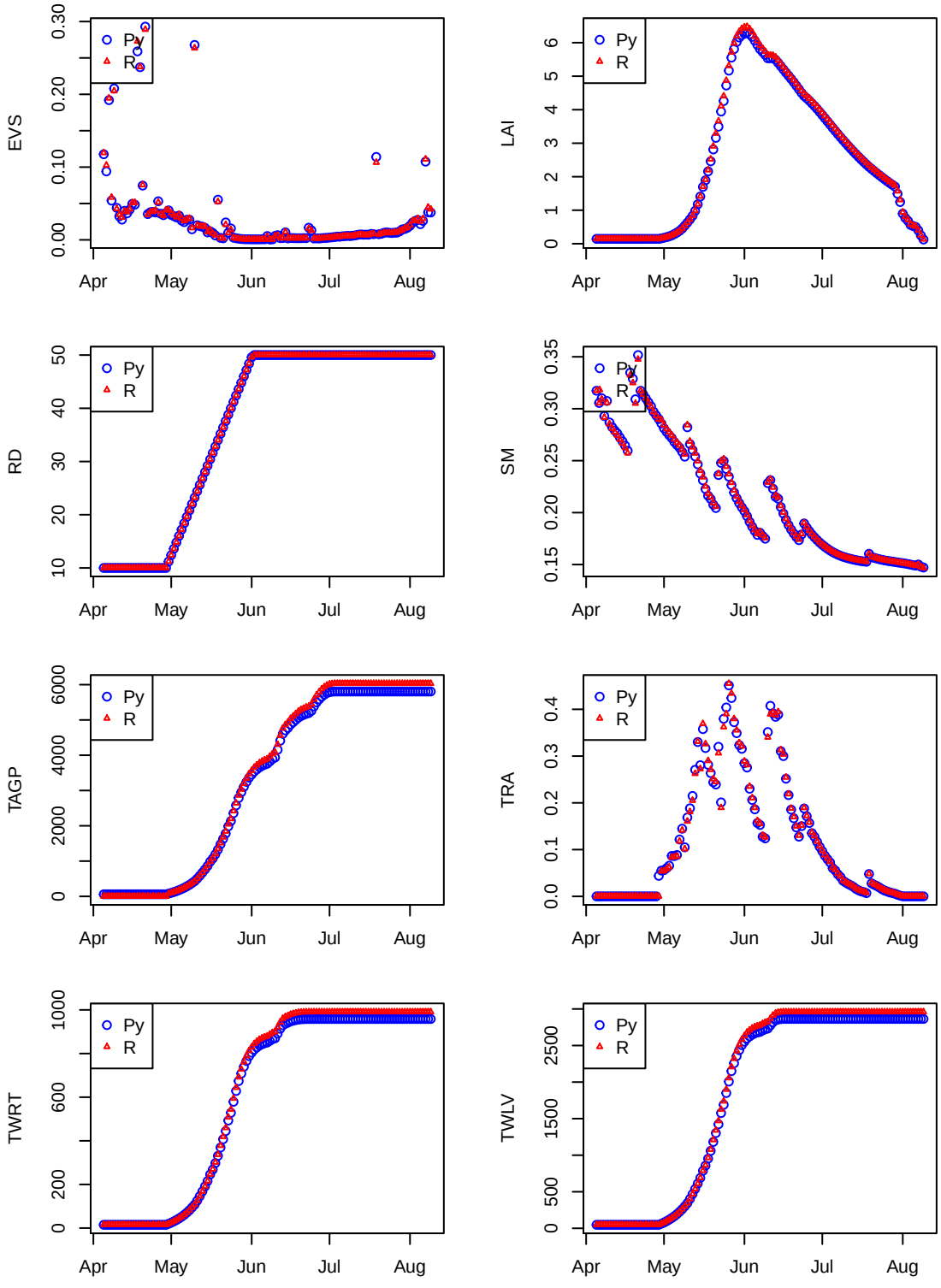

```
## [1] "waterlimitedproduction 42"
```


EVS
LAI
RD
SM
TAGP
TRA
TWRT
TWLV
Py
R
May
Jun
Jul
Aug

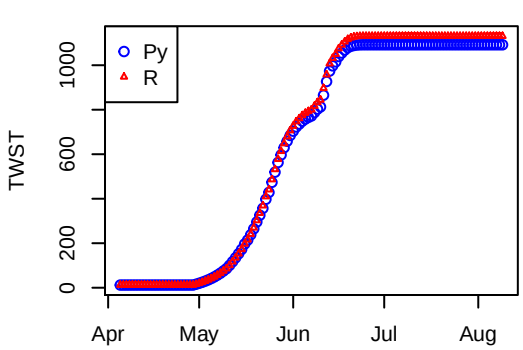


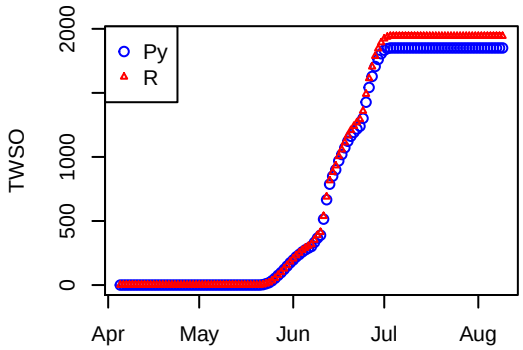



```
## [1] "waterlimitedproduction 43"
```




```
## [1] "waterlimitedproduction 44"
```


TWST
0
200
600
1000
Py
R
Apr
May
Jun
Jul
Aug


TWSO
0
500
1000
2000
Py
R
Apr
May
Jun
Jul
Aug