## 2015BalsamPhenoMunging.R

## Audrey McCombs

Wed Jul 05 15:32:03 2017

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plot plantid treatment
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## 1496
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## 2450 CC6
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## 395
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## 713
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## 1190
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          CH5
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## 1349
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## 1508
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## 1826
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                                  H 2015-05-29
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## 1350
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## 1509
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## 1986
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## 2304
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## 2463
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         plot plantid treatment
                                           date BD FF SG SD TF
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                                  H 2015-05-24 12
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                                  H 2015-05-26 10
## 238
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## 397
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                                  H 2015-06-01
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## 1192
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                                  H 2015-06-09
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## 1351
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## 1510
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## 1828 CH5
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## 2146 CH5
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## 2305 CH5
            CH5-7
                        H 2015-06-23 0 0 2 9 11
## 2464 CH5
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## 244 CHSR8 CHSR8-2
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## 721 CHSR8 CHSR8-2
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## 1993 CHSR8 CHSR8-2
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## 2152 CHSR8 CHSR8-2
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## 2470 CHSR8 CHSR8-2
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                      H 2015-06-21 6 4 14 6 30
H 2015-06-23 5 1 11 11 28
## 2154 CHSR8 CHSR8-4
## 2313 CHSR8 CHSR8-4
                       H 2015-06-26 4 0
## 2472 CHSR8 CHSR8-4
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       plot plantid treatment date BD FF SG SD TF
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## 407 CHSR8 CHSR8-6
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## 566
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## 725 CHSR8 CHSR8-6 H 2015-06-03 5 3
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## 2315 CHSR8 CHSR8-6
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## 1046 CSR7 CSR7-1
                           C 2015-06-07 0
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## 1205 CSR7 CSR7-1
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## 1364 CSR7 CSR7-1
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## 1523 CSR7 CSR7-1
                           C 2015-06-13
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## 1682 CSR7 CSR7-1
                           C 2015-06-15 0
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## 1841 CSR7 CSR7-1
                           C 2015-06-17 0
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## 2000 CSR7 CSR7-1
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                           C 2015-06-19 0
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                           C 2015-06-21 0
## 2159 CSR7 CSR7-1
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## 2318 CSR7 CSR7-1
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## 2477 CSR7 CSR7-1
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       plot plantid treatment
##
                                   date BD FF SG SD TF
                           C 2015-05-24
## 100 CSR7 CSR7-9
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## 259
      CSR7 CSR7-9
                           C 2015-05-26
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## 418 CSR7 CSR7-9
                           C 2015-05-29
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## 577 CSR7 CSR7-9
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## 736 CSR7 CSR7-9
                           C 2015-06-03
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## 895 CSR7 CSR7-9
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                           C 2015-06-05
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## 1054 CSR7 CSR7-9
                           C 2015-06-07 0
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                           C 2015-06-09
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## 1213 CSR7 CSR7-9
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## 1372 CSR7 CSR7-9
                           C 2015-06-11 0
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## 1531 CSR7 CSR7-9
                           C 2015-06-13
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## 1690 CSR7 CSR7-9
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                           C 2015-06-15 0
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## 1849 CSR7 CSR7-9
                           C 2015-06-17 0
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## 2008 CSR7
             CSR7-9
                           C 2015-06-19 0
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## 2167 CSR7 CSR7-9
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                           C 2015-06-21 0
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## 2326 CSR7
             CSR7-9
                           C 2015-06-23
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## 2485 CSR7 CSR7-9
                           C 2015-06-26 0
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plot plantid treatment date BD FF SG SD TF
         EC3
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                               C 2015-05-24
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## 44
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                EC3-1
                               C 2015-05-26
## 203
         EC3
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## 362
                EC3-1
                               C 2015-05-29
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         EC3
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## 680
         EC3
                EC3-1
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## 839
                               C 2015-06-05
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## 1157
         EC3
                EC3-1
                               C 2015-06-09
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                                                       0
                                              0
## 1316
                               C 2015-06-11
         EC3
                EC3-1
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## 1634
         EC3
                               C 2015-06-15
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                EC3-1
                               C 2015-06-17
## 1793
        EC3
                EC3-1
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        plot plantid treatment
                                       date BD FF SG SD TF
##
## 204
         EC3
                EC3-2
                               C 2015-05-26
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## 363
         EC3
                EC3-2
                               C 2015-05-29
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                                                       0
                               C 2015-06-01
## 522
         EC3
                EC3-2
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## 681
         EC3
                               C 2015-06-03
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                                                       0
                EC3-2
                                              0
                               C 2015-06-11
## 1317 EC3
                EC3-2
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## 1476
        EC3
                EC3-2
                               C 2015-06-13
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## 2430 EC3
                EC3-2
                               C 2015-06-26
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##
        plot plantid treatment
                                       date BD FF SG SD TF
                               C 2015-05-24
## 46
         EC3
                EC3-3
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## 205
         EC3
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                               C 2015-05-26
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## 364
         EC3
                EC3-3
                               C 2015-05-29
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## 523
                               C 2015-06-01
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## 682
         EC3
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## 841
         EC3
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## 1000 EC3
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                               C 2015-06-09
## 1159
         EC3
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## 1318
         EC3
                EC3-3
                               C 2015-06-11
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                               C 2015-06-13
## 1477
         EC3
                EC3-3
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## 1636
         EC3
                EC3-3
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## 1795
         EC3
                               C 2015-06-17
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## 1954
         EC3
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## 2113
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## 2272 EC3
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## 2431 EC3
                EC3-3
                               C 2015-06-26
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        plot plantid treatment
                                       date BD FF SG SD TF
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## 51
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## 210
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                               C 2015-05-26
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## 369
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                               C 2015-05-29
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## 528
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## 687
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                               C 2015-06-05
## 846
         EC3
                EC3-8
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                                                           1
## 1005
         EC3
                               C 2015-06-07
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                EC3-8
## 1164
         EC3
                EC3-8
                              C 2015-06-09 0
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## 1323
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## 1482
          EC3
                                C 2015-06-13
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                 EC3-8
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## 1641
          EC3
                 EC3-8
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## 1800
                EC3-8
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         EC3
## 1959
          EC3
                 EC3-8
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## 2118
                                C 2015-06-21
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## 2277
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## 2436
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                 EC3-8
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         plot plantid treatment
                                         date BD FF SG SD TF
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## 191
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## 350
          EH4
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## 668
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## 1145
          EH4
               EH4-11
                                H 2015-06-09
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## 1304
          EH4
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## 1463
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## 1622
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          EH4
               EH4-11
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## 1781
          EH4
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## 1940
               EH4-11
                                H 2015-06-19
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          EH4
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## 2099
          EH4
               EH4-11
                                H 2015-06-21
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## 2258
                                H 2015-06-23
          EH4
               EH4-11
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## 2417
          EH4
               EH4-11
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         plot plantid treatment
                                         date BD FF SG SD TF
##
                EH4-3
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## 24
          EH4
## 183
          EH4
                 EH4-3
                                H 2015-05-26
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                EH4-3
## 342
          EH4
                                H 2015-05-29
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## 501
                EH4-3
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## 660
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## 819
          EH4
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## 978
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                                H 2015-06-07
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## 1137
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                EH4-3
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## 1296
                                H 2015-06-11
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## 1455
          EH4
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## 1614
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## 1773
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## 1932
          EH4
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## 2091
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## 2250
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## 2409
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##
         plot plantid treatment
                                         date BD FF SG SD TF
## 25
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## 184
          EH4
                 EH4-4
                                H 2015-05-26
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## 343
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## 502
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## 661
          EH4
                EH4-4
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## 820
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## 979
                 EH4-4
                                 H 2015-06-07
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## 1138
          EH4
                 EH4-4
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## 1297
                 EH4-4
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          EH4
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## 1456
          EH4
                 EH4-4
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## 1615
                 EH4-4
                                H 2015-06-15
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## 1774
          EH4
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## 1933
          EH4
                 EH4-4
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## 2092
          EH4
                 EH4-4
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## 2251
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## 2410
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##
         plot plantid treatment
                                         date BD FF SG SD TF
## 26
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## 185
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                                 H 2015-05-26
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## 344
          EH4
                 EH4-5
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## 503
          EH4
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## 662
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                 EH4-5
## 821
                                 H 2015-06-05
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          EH4
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## 980
          EH4
                 EH4-5
                                H 2015-06-07
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## 1139
                                H 2015-06-09
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                 EH4-5
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## 1298
          EH4
                 EH4-5
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## 1457
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                 EH4-5
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## 1616
          EH4
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## 1775
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## 1934
          EH4
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                                H 2015-06-19
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## 2093
          EH4
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                                H 2015-06-21
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## 2252
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## 2411
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##
         plot plantid treatment
                                          date BD FF SG SD TF
## 27
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## 186
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## 345
          EH4
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## 504
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## 822
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## 981
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## 1299
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## 1458
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## 1617
                                 H 2015-06-15
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## 1776
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## 1935
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## 2094
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## 2253
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## 2412
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date BD FF SG SD TF
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                                                             1
          EH4
                                               1
                                                   0
                                                      0
## 664
          EH4
                EH4-7
                                H 2015-06-03
                                               0
                                                   1
                                                      0
                                                          0
                                                             1
## 823
                                H 2015-06-05
          EH4
                EH4-7
                                                0
                                                   1
                                                      0
                                                          0
                                                             1
## 982
          EH4
                EH4-7
                                H 2015-06-07
                                                   1
                                                          0
                                                0
                                                      0
                                                             1
## 1141
          EH4
                EH4-7
                                H 2015-06-09
                                               0
                                                   1
                                                      0
                                                          0
                                                             1
## 1300
                EH4-7
                                                          0
                                                             1
          EH4
                                H 2015-06-11
                                                   1
                                                      0
## 1459
          EH4
                EH4-7
                                H 2015-06-13
                                                0
                                                   1
                                                      0
                                                          0
                                                             1
## 1618
          EH4
                EH4-7
                                H 2015-06-15
                                                0
                                                   1
                                                      0
                                                          0
                                                             1
## 1777
                                H 2015-06-17
          EH4
                EH4-7
                                                0
                                                   0
                                                      1
                                                          0
                                                             1
## 1936
          EH4
                EH4-7
                                H 2015-06-19
                                               0
                                                   0
                                                      1
                                                          0
                                                             1
## 2095
          EH4
                EH4-7
                                H 2015-06-21
                                                0
                                                   0
                                                      1
                                                          0
                                                             1
## 2254
          EH4
                EH4-7
                                H 2015-06-23
                                                0
                                                   0
                                                          0
                                                             1
                                                      1
## 2413
          EH4
                EH4-7
                                H 2015-06-26
                                                0
                                                   0
         plot plantid treatment
                                         date BD FF SG SD TF
##
## 188
          EH4
                EH4-8
                                H 2015-05-26
                                                2
                                                      0
                                                          0
                                                             2
                                                   0
## 347
          EH4
                EH4-8
                                H 2015-05-29
                                                3
                                                   0
                                                      0
                                                          0
                                                             3
## 506
          EH4
                EH4-8
                                H 2015-06-01
                                                1
                                                   1
                                                      0
                                                          0
                                                             2
                EH4-8
## 665
          EH4
                                H 2015-06-03
                                                2
                                                   1
                                                      0
                                                          0
                                                             3
                                                2
                                                             3
## 824
          EH4
                EH4-8
                                H 2015-06-05
                                                   1
                                                      0
                                                          0
                                                2
## 983
                                H 2015-06-07
                                                   2
                                                          0
                                                             4
          EH4
                EH4-8
                                                      0
## 1142
                                                2
                                                   2
                                                             4
          EH4
                EH4-8
                                H 2015-06-09
                                                      0
                                                          0
## 1301
          EH4
                EH4-8
                                H 2015-06-11
                                                0
                                                   4
                                                      0
                                                          0
                                                             4
## 1460
          EH4
                EH4-8
                                H 2015-06-13
                                                0
                                                   3
                                                      1
                                                          0
                                                             4
## 1619
          EH4
                EH4-8
                                H 2015-06-15
                                               0
                                                   3
                                                      1
                                                          0
                                                             4
## 1778
          EH4
                EH4-8
                                H 2015-06-17
                                                0
                                                   1
                                                      3
                                                          0
                                                             4
## 1937
                EH4-8
                                H 2015-06-19
                                               0
                                                   0
                                                      2
                                                          2
          EH4
## 2096
          EH4
                EH4-8
                                H 2015-06-21
                                               0
                                                   0
                                                      2
                                                          2
                                                             4
## 2255
          EH4
                EH4-8
                                H 2015-06-23
                                               0
                                                   0
                                                      2
                                                          2
                                                             4
                                H 2015-06-26
## 2414
          EH4
                EH4-8
                                               0
                                                   0
                                                      0
                                                          3
                                                             3
##
         plot plantid treatment
                                          date BD FF SG SD TF
## 16
         EHSR1 EHSR1-2
                                 H 2015-05-24
                                                 8
                                                    1
                                                       0
                                                           0
                                                              9
## 175
         EHSR1 EHSR1-2
                                 H 2015-05-26
                                                 8
                                                    0
                                                       0
                                                              8
                                                           0
                                                 5
                                                              9
## 334
         EHSR1 EHSR1-2
                                 H 2015-05-29
                                                    4
                                                       0
                                                           0
## 493
         EHSR1 EHSR1-2
                                 H 2015-06-01
                                                 2
                                                    4
                                                       0
                                                              6
                                                 2
                                                    5
                                                              7
## 652
         EHSR1 EHSR1-2
                                 H 2015-06-03
                                                       0
                                                           0
                                                    5
                                                              7
## 811
         EHSR1 EHSR1-2
                                 H 2015-06-05
                                                 1
                                                       1
                                                           0
                                                    5
                                                              7
## 970
         EHSR1 EHSR1-2
                                 H 2015-06-07
                                                 1
                                                       1
                                                           0
## 1129 EHSR1 EHSR1-2
                                 H 2015-06-09
                                                 0
                                                    3
                                                       2
                                                           2
                                                              7
                                                    3
## 1288 EHSR1 EHSR1-2
                                 H 2015-06-11
                                                 0
                                                       3
                                                          1
                                                              7
## 1447 EHSR1 EHSR1-2
                                 H 2015-06-13
                                                 0
                                                    0
                                                       3
                                                          4
                                                              7
## 1606 EHSR1 EHSR1-2
                                 H 2015-06-15
                                                    0
                                                           5
                                                              7
                                                           7
                                                              7
## 1765 EHSR1 EHSR1-2
                                 H 2015-06-17
                                                 0
                                                    0
                                                       0
## 1924 EHSR1 EHSR1-2
                               H 2015-06-19
                                                 0
                                                    0
                                                       0
                                                         7
                                                              7
```

```
## 2083 EHSR1 EHSR1-2
                            H 2015-06-21 0 0 0 7 7
## 2242 EHSR1 EHSR1-2
                          H 2015-06-23 0 0 0 7 7
                           H 2015-06-26
## 2401 EHSR1 EHSR1-2
                                          0
                                            0
                                               0
                                                  7 7
       plot plantid treatment
                                   date BD FF SG SD TF
##
                           C 2015-05-24
## 1
       ESR2 ESR2-1
                                        1
                                           0
                                                 0
                                                    1
## 160 ESR2 ESR2-1
                           C 2015-05-26
                                        2
                                            0
                                                 0
                           C 2015-05-29
## 319 ESR2 ESR2-1
                                         1
                                            0
                                              0
                                                 0
                                                    1
## 478
      ESR2 ESR2-1
                           C 2015-06-01
                                        0
                                            0
                                              0
                                                 0
                                                    0
                           C 2015-06-03
## 637 ESR2 ESR2-1
                                                 0
                                        0
                                            0
                                              0
                                                    0
## 796
      ESR2 ESR2-1
                           C 2015-06-05
                                        0
                                           0
                                              0
                                                 0
                                                    0
## 955 ESR2 ESR2-1
                           C 2015-06-07 0
                                           0
                                              0
                                                 0
## 1432 ESR2 ESR2-1
                           C 2015-06-13
                                        0
                                           0
                                              0
                                                 0
                                                    0
## 1591 ESR2 ESR2-1
                           C 2015-06-15
                                       0
                                           0
                                              0
                                                 0
## 1750 ESR2 ESR2-1
                           C 2015-06-17 0
                                            0
                                              0
                                                 0
                                                    0
## 1909 ESR2 ESR2-1
                           C 2015-06-19
                                        0 0
                                              0
                                                 0
                           C 2015-06-21 0
## 2068 ESR2 ESR2-1
                                           0
                                              0
                                                 0
                                                    0
## 2227 ESR2 ESR2-1
                           C 2015-06-23 0
                                           0
                                              0
                                                 0
                                                    0
## 2386 ESR2 ESR2-1
                           C 2015-06-26 0
                                                 0
                                            0
                                                    0
##
       plot plantid treatment
                                   date BD FF SG SD TF
                           C 2015-05-24
## 2
       ESR2 ESR2-2
                                              0
                                        6
                                           0
                                                 0
                                                    6
## 161 ESR2 ESR2-2
                           C 2015-05-26
                                        5
                                              0
                                                 0
                                                    5
## 320 ESR2 ESR2-2
                           C 2015-05-29
                                        5
                                           0
                                              0
                                                 0
                                                    5
## 479 ESR2 ESR2-2
                           C 2015-06-01
                                        3
                                           0
                                                 0
                                                    3
                                              0
## 638
      ESR2 ESR2-2
                           C 2015-06-03
                                        2
                                           1
                                              0
                                                 0
                                                    3
## 797
       ESR2 ESR2-2
                           C 2015-06-05
                                        2
                                            1
                                              0
                                                 0
                                                    3
## 956 ESR2 ESR2-2
                           C 2015-06-07 0
                                           2
                                              0
                                                 0
                                                    2
                           C 2015-06-09
## 1115 ESR2 ESR2-2
                                                    3
                                        0
                                            3
                                              0
                                                 0
## 1274 ESR2 ESR2-2
                           C 2015-06-11 0
                                           3
                                                 0
                                                    3
                           C 2015-06-13
## 1433 ESR2 ESR2-2
                                            2
                                              1
                                                 0
                                                    3
                                        0
## 1592 ESR2 ESR2-2
                           C 2015-06-15
                                        0
                                            2
                                              1
                                                 0
                                                    3
## 1751 ESR2 ESR2-2
                           C 2015-06-17 0
                                              3
                                                 0
                                                    3
                                           0
## 1910 ESR2 ESR2-2
                           C 2015-06-19 0
                                           0
                                              3
                                                 0
                                                    3
## 2069 ESR2 ESR2-2
                           C 2015-06-21 0 0 1
                                                 2
                                                   3
## 2228 ESR2 ESR2-2
                           C 2015-06-23 0
                                              2
                                           0
                                                 1
                                                    3
## 2387 ESR2 ESR2-2
                           C 2015-06-26 0
                                            0
       plot plantid treatment
                                   date BD FF SG SD TF
##
## 3
       ESR2 ESR2-3
                           C 2015-05-24
                                        0
                                           0
                                              0
                                                 0
                                                    0
## 162 ESR2 ESR2-3
                           C 2015-05-26
                                         0
                                            0
                                              0
                                                 0
                                                    0
## 321
       ESR2 ESR2-3
                           C 2015-05-29
                                        0
                                            0
                                              0
                                                 0
## 480
       ESR2 ESR2-3
                           C 2015-06-01
                                         0
                                            0
                                              0
                                                 0
                                                    0
## 639
       ESR2 ESR2-3
                           C 2015-06-03
                                        0
                                           0
                                                 0
                           C 2015-06-05
## 798
       ESR2 ESR2-3
                                        0
                                            0
                                              0
                                                 0
                                                    0
## 957
       ESR2 ESR2-3
                           C 2015-06-07 0
                                           0
                                              0
                                                 0
                                                    0
## 1116 ESR2 ESR2-3
                    C 2015-06-09 0
                                           0
                                                 0
                                              0
                                                    0
```

```
## 1275 ESR2 ESR2-3
                             C 2015-06-11 0
                                                 0
                                                    0
                                                       0
                                              0
## 1434 ESR2 ESR2-3
                             C 2015-06-13
                                                       0
                                           0
                                              0
                                                 0
                                                    0
                             C 2015-06-15
## 1593 ESR2 ESR2-3
                                           0
                                              0
                                                 0
                                                    0
                                                       0
## 1752 ESR2 ESR2-3
                             C 2015-06-17
                                           0
                                              0
                                                    0
                                                       0
                                                 0
## 1911 ESR2 ESR2-3
                             C 2015-06-19
                                          0
                                              0
                                                 0
                                                    0
                                                       0
## 2070 ESR2
             ESR2-3
                             C 2015-06-21
                                           0
                                              0
                                                 0
                                                    0
                                                       0
## 2229 ESR2 ESR2-3
                             C 2015-06-23
                                           0
                                              0
                                                    0
                                                 0
                             C 2015-06-26
## 2388 ESR2 ESR2-3
                                           0
                                              0
                                                 0
                                                    0
                                                       0
        plot plantid treatment
##
                                     date BD FF SG SD TF
## 4
        ESR2 ESR2-4
                             C 2015-05-24
                                           2
                                              0
                                                 0
                                                    0
                                                       2
## 163 ESR2 ESR2-4
                             C 2015-05-26
                                           2
                                              0
                                                 0
                                                    0
                                                       2
## 322 ESR2 ESR2-4
                             C 2015-05-29
                                           2
                                              0
                                                 0
                                                    0
                                                       2
                                           2
                                                       3
## 481
       ESR2 ESR2-4
                             C 2015-06-01
                                              1
                                                 0
                                                    0
                             C 2015-06-03
                                           2
                                                       3
## 640 ESR2 ESR2-4
                                              1
                                                 0
                                                    0
## 799 ESR2 ESR2-4
                                           1
                                              2
                                                    0
                                                       3
                             C 2015-06-05
                             C 2015-06-07
## 958 ESR2 ESR2-4
                                              2
                                                       3
                                           1
                                                 0
                                                    0
## 1117 ESR2 ESR2-4
                             C 2015-06-09
                                          0
                                              3
                                                 0
                                                    0
                                                       3
## 1276 ESR2 ESR2-4
                             C 2015-06-11
                                          0
                                              3
                                                    0
                                                       3
                                                 0
## 1435 ESR2 ESR2-4
                             C 2015-06-13 0
                                              1
                                                 2
                                                    0
                                                       3
## 1594 ESR2 ESR2-4
                             C 2015-06-15
                                          0
                                              0
                                                 3
                                                    0
                                                       3
## 1753 ESR2
             ESR2-4
                             C 2015-06-17
                                           0
                                              0
                                                 0
                                                    3
                                                       3
                                                    3
                                                       3
## 1912 ESR2 ESR2-4
                             C 2015-06-19
                                          0
                                              0
                                                 0
                             C 2015-06-21
                                                    3
                                                       3
## 2071 ESR2 ESR2-4
                                           0
                                              0
                                                 0
                                              0
                                                 2
                                                    1
                                                       3
## 2230 ESR2 ESR2-4
                             C 2015-06-23
                                           0
                             C 2015-06-26 0
## 2389 ESR2 ESR2-4
                                              0
                                                 0
                                                    3
                                                       3
        plot plantid treatment date BD FF SG SD TF
##
                             C 2015-05-24
## 6
        ESR2 ESR2-6
                                           2
                                              0
                                                 0
                                                    0
                                                       2
## 165 ESR2 ESR2-6
                             C 2015-05-26
                                           3
                                              0
                                                 0
                                                    0
                                                       3
                             C 2015-05-29
## 324
      ESR2 ESR2-6
                                           3
                                                    0
                                                       3
                                              0
                                                 0
## 483
       ESR2 ESR2-6
                             C 2015-06-01
                                           3
                                              0
                                                 0
                                                    0
                                                       3
## 642
       ESR2 ESR2-6
                             C 2015-06-03
                                           3
                                                    0
                                                       4
                                              1
                                                 0
## 801
       ESR2 ESR2-6
                             C 2015-06-05
                                           2
                                              2
                                                 0
                                                    0
                                                       4
## 960 ESR2 ESR2-6
                             C 2015-06-07
                                           2
                                              2
                                                 0
                                                    0
                                                       4
## 1119 ESR2 ESR2-6
                                              2
                             C 2015-06-09
                                           1
                                                 0
                                                    0
                                                       3
## 1278 ESR2 ESR2-6
                             C 2015-06-11
                                           1
                                              3
                                                 0
                                                    0
                             C 2015-06-13
## 1437 ESR2 ESR2-6
                                                    0
                                                       3
                                           0
                                              1
                                                 2
## 1596 ESR2 ESR2-6
                             C 2015-06-15
                                          0
                                              1
                                                 2
                                                    0
                                                       3
                             C 2015-06-17
## 1755 ESR2 ESR2-6
                                                    2
                                                       3
                                           0
                                              0
                                                 1
                                                    2
                                                       3
## 1914 ESR2
             ESR2-6
                             C 2015-06-19
                                          0
                                              0
                                                 1
## 2073 ESR2 ESR2-6
                             C 2015-06-21
                                                    2
                                                       3
                                           0
                                              0
                                                 1
## 2232 ESR2
             ESR2-6
                             C 2015-06-23
                                           0
                                              0
                                                 1
                                                    2
                                                       3
## 2391 ESR2 ESR2-6
                           C 2015-06-26 0
                                              0
```

```
plot plantid treatment date BD FF SG SD TF
        ESR2 ESR2-8
                             C 2015-05-24
                                               0
                                                     0
## 8
                                           6
                                                  0
                                                       6
        ESR2 ESR2-8
                             C 2015-05-26 12
## 167
                                               1
                                                  0
                                                     0 13
## 326
       ESR2 ESR2-8
                             C 2015-05-29 14
                                                     0 15
                                               1
                                                  0
## 485
       ESR2 ESR2-8
                             C 2015-06-01 10
                                               3
                                                  0
                                                     0 13
## 644
       ESR2 ESR2-8
                             C 2015-06-03 10
                                               3
                                                  0
                                                     0 13
## 803
       ESR2 ESR2-8
                             C 2015-06-05
                                               5
                                                     0 11
                                           6
                                                  0
                             C 2015-06-07
## 962
       ESR2
             ESR2-8
                                            7
                                               6
                                                  0
                                                     0 13
                             C 2015-06-09
## 1121 ESR2 ESR2-8
                                               8
                                                     0 13
                                           4
                                                  1
                             C 2015-06-11
## 1280 ESR2 ESR2-8
                                            1
                                               7
                                                  2
                                                     0 10
## 1439 ESR2
                                               4
                                                  4
             ESR2-8
                             C 2015-06-13
                                           1
                                                     1 10
## 1598 ESR2 ESR2-8
                             C 2015-06-15
                                               3
                                           0
                                                  6
                                                     2 11
## 1757 ESR2
              ESR2-8
                             C 2015-06-17
                                           0
                                               3
                                                  1
                                                     6 10
## 1916 ESR2 ESR2-8
                             C 2015-06-19
                                          0
                                               2
                                                  2
                                                     7 11
## 2075 ESR2 ESR2-8
                             C 2015-06-21
                                            0
                                               0
                                                  3
                                                     9 12
## 2234 ESR2 ESR2-8
                             C 2015-06-23
                                            0
                                               0
                                                  3
                                                     8 11
## 2393 ESR2 ESR2-8
                             C 2015-06-26
                                            0
                                               0
                                                  0 11 11
                                     date BD FF SG SD TF
##
        plot plantid treatment
## 133
       WC11 WC11-1
                             C 2015-05-24
                                            1
                                               0
                                                  0
                                                     0
                                                        1
## 292 WC11 WC11-1
                             C 2015-05-26
                                            1
                                               0
                                                  0
                                                     0
                                                        1
## 451
       WC11
              WC11-1
                             C 2015-05-29
                                            1
                                               0
                                                  0
                                                     0
                                                        1
                                                        1
## 610
      WC11
              WC11-1
                             C 2015-06-01
                                            1
                                                  0
                                                     0
                             C 2015-06-03
                                                        2
## 769 WC11
              WC11-1
                                            2
                                                     0
                                               0
                                                  0
## 928 WC11 WC11-1
                                               0
                                                        1
                             C 2015-06-05
                                            1
                                                  0
                                                     0
                             C 2015-06-07
## 1087 WC11 WC11-1
                                            2
                                               0
                                                  0
                                                     0
                                                        2
## 1246 WC11
              WC11-1
                             C 2015-06-09
                                            2
                                               0
                                                  0
                                                     0
                                                        2
## 1405 WC11
              WC11-1
                             C 2015-06-11
                                            1
                                               0
                                                  0
                                                     0
                                                        1
## 1564 WC11
              WC11-1
                             C 2015-06-13
                                            1
                                               0
                                                  0
                                                     0
                                                        1
## 1723 WC11
              WC11-1
                             C 2015-06-15
                                               1
                                                     0
                                            0
                                                  0
                                                        1
                             C 2015-06-17
## 1882 WC11
              WC11-1
                                            0
                                               1
                                                  0
                                                     0
                                                        1
## 2041 WC11
              WC11-1
                             C 2015-06-19
                                            0
                                               0
                                                  1
                                                     0
                                                        1
                             C 2015-06-21
                                                        1
## 2200 WC11
              WC11-1
                                            0
                                               0
                                                  1
                                                     0
## 2359 WC11
              WC11-1
                             C 2015-06-23
                                               0
                                                     1
                                                        1
                                            0
                                                  0
## 2518 WC11 WC11-1
                             C 2015-06-26
                                               0
                                                     1
                                            0
                                                  0
##
        plot plantid treatment
                                     date BD FF SG SD TF
       WC11 WC11-2
                             C 2015-05-24
## 134
                                            1
                                               0
                                                  0
                                                     0
                                                        1
## 293
       WC11 WC11-2
                             C 2015-05-26
                                            1
                                               0
                                                  0
                                                     0
## 452 WC11 WC11-2
                             C 2015-05-29
                                            1
                                               0
                                                     0
                                                        1
                                                  0
## 611
       WC11
             WC11-2
                             C 2015-06-01
                                            1
                                               0
                                                  0
                                                     0
                                                        1
## 770 WC11
              WC11-2
                             C 2015-06-03
                                                     0
                                                        0
                                            0
                                               0
                                                  0
## 1088 WC11
              WC11-2
                             C 2015-06-07
                                            0
                                               0
                                                  0
                                                     0
                                                        0
## 1247 WC11
              WC11-2
                             C 2015-06-09
                                               0
                                                     0
                                            0
                                                  0
## 1406 WC11
              WC11-2
                             C 2015-06-11
                                            0
                                               0
                                                  0
                                                     0
                                                        0
## 1724 WC11
              WC11-2
                             C 2015-06-15
                                               0
                                                     0
                             C 2015-06-17
## 1883 WC11
              WC11-2
                                            0
                                               0
                                                  0
                                                     0
                                                        0
                      C 2015-06-19
## 2042 WC11 WC11-2
                                            0
                                               0
                                                  0
                                                     0
```

```
## 2201 WC11 WC11-2
                             C 2015-06-21 0 0
                                                 0
                                                    0
                                                       0
## 2360 WC11 WC11-2
                             C 2015-06-23 0
                                                       0
                                              0
                                                 0
                                                    0
                            C 2015-06-26
## 2519 WC11 WC11-2
                                          0
                                              0
                                                 0
                                                    0
                                                       0
        plot plantid treatment
                                    date BD FF SG SD TF
##
## 135
       WC11 WC11-3
                             C 2015-05-24
                                           6
                                              0
                                                    0
                                                       6
## 294
       WC11 WC11-3
                             C 2015-05-26
                                           7
                                                       7
                                              0
                                                    0
                             C 2015-05-29
## 453 WC11 WC11-3
                                          6
                                              0
                                                 0
                                                    0
                                                       6
## 612 WC11 WC11-3
                             C 2015-06-01
                                          3
                                              0
                                                 0
                                                    0
                                                       3
                             C 2015-06-03
## 771 WC11 WC11-3
                                                       3
                                          2
                                              1
                                                 0
                                                    0
## 930 WC11 WC11-3
                             C 2015-06-05
                                          1
                                              2
                                                 0
                                                    0
                                                       3
## 1089 WC11 WC11-3
                             C 2015-06-07
                                           0
                                              3
                                                 0
                                                    0
                                                       3
## 1248 WC11 WC11-3
                             C 2015-06-09
                                          0
                                              3
                                                 0
                                                    0
                                                       3
                                              3
## 1407 WC11 WC11-3
                            C 2015-06-11
                                          0
                                                 0
                                                    0
## 1566 WC11
             WC11-3
                             C 2015-06-13
                                              3
                                                       3
                                           0
                                                 0
                                                    0
## 1725 WC11 WC11-3
                             C 2015-06-15
                                          0
                                              1
                                                 2
                                                    0
                                                       3
                             C 2015-06-17
## 1884 WC11 WC11-3
                                                 2
                                                    1
                                                       3
                                          0
                                              0
## 2043 WC11
             WC11-3
                            C 2015-06-19
                                          0
                                              0
                                                 2
                                                    1
                                                       3
## 2202 WC11 WC11-3
                            C 2015-06-21
                                          0
                                              0
                                                    2
                                                       3
                                                 1
## 2361 WC11 WC11-3
                             C 2015-06-23
                                          0
                                              0
                                                 0
                                                    3
                                                       3
## 2520 WC11 WC11-3
                             C 2015-06-26
                                              0
                                           0
                                                 0
##
        plot plantid treatment
                                     date BD FF SG SD TF
## 136 WC11 WC11-4
                             C 2015-05-24
                                          1
                                              0
                                                 0
                                                    0
                                                       1
## 295
      WC11 WC11-4
                             C 2015-05-26
                                              0
                                                    0
                                          1
                                                 0
                                                       1
## 454 WC11 WC11-4
                             C 2015-05-29
                                          1
                                              0
                                                 0
                                                    0
                                                       1
## 613
      WC11 WC11-4
                             C 2015-06-01
                                          1
                                              0
                                                 0
                                                    0
                                                       1
## 772 WC11 WC11-4
                            C 2015-06-03
                                          0
                                              1
                                                 0
                                                    0
                             C 2015-06-05
## 931 WC11
             WC11-4
                                           0
                                              1
                                                 0
                                                    0
## 1090 WC11 WC11-4
                            C 2015-06-07
                                              1
                                                    0
                                                       1
                            C 2015-06-09
## 1249 WC11 WC11-4
                                              1
                                                    0
                                                       1
                                          0
                                                 0
## 1408 WC11
             WC11-4
                            C 2015-06-11
                                          0
                                              1
                                                 0
                                                    0
                                                       1
## 1567 WC11 WC11-4
                            C 2015-06-13
                                                    0
                                                       1
                                          0
                                              0
                                                 1
## 1726 WC11 WC11-4
                            C 2015-06-15
                                          0
                                              0
                                                 1
                                                    0
                                                       1
## 1885 WC11 WC11-4
                            C 2015-06-17
                                           0
                                              0
                                                 0
                                                    1
                                                       1
## 2044 WC11
                            C 2015-06-19
                                          0
                                              0
             WC11-4
                                                 0
                                                    1
                                                       1
## 2203 WC11
             WC11-4
                            C 2015-06-21
                                                 0
                                                    1
                                                       1
                             C 2015-06-23
## 2362 WC11
             WC11-4
                                          0
                                              0
                                                 0
                                                    1
                                                       1
## 2521 WC11 WC11-4
                             C 2015-06-26
                                           0
##
        plot plantid treatment
                                    date BD FF SG SD TF
## 139
       WC11 WC11-7
                             C 2015-05-24
                                          4
                                              0
                                                 0
                                                    0
## 298
       WC11 WC11-7
                             C 2015-05-26
                                          4
                                              0
                                                 0
                                                    0
                                                       4
## 457
       WC11 WC11-7
                            C 2015-05-29
                                          4
                                              0
                                                    0
                             C 2015-06-01
                                                       3
## 616
       WC11 WC11-7
                                          3
                                              0
                                                 0
                                                    0
## 775
       WC11 WC11-7
                            C 2015-06-03
                                          0
                                              2
                                                 0
                                                    0
                                                       2
                     C 2015-06-05 0
## 934
       WC11 WC11-7
                                              2
                                                    0
                                                       2
                                                 0
```

```
## 1093 WC11 WC11-7
                               C 2015-06-07 0 2 0 0 2
## 1252 WC11 WC11-7
                               C 2015-06-09 0
                                                2
                                                       0 2
                                                    0
                               C 2015-06-11 0
                                                2
                                                       0 2
## 1411 WC11 WC11-7
                                                    0
## 1570 WC11 WC11-7
                              C 2015-06-13 0 2
                                                    0
                                                       0 2
                              C 2015-06-15 0 0 2 0
## 1729 WC11 WC11-7
                                                          2
## 1888 WC11 WC11-7
                              C 2015-06-17 0
                                                    2
                                                       0
                                                          2
                                                0
## 2047 WC11 WC11-7
                              C 2015-06-19 0 0
                                                    0 2 2
## 2206 WC11 WC11-7
                             C 2015-06-21 0
                                                       2
                                                          2
                                                0
                                                    0
                          C 2015-06-23 0
C 2015-06-26 0
                                                      2
                                                          2
## 2365 WC11 WC11-7
                                                0
                                                    0
## 2524 WC11 WC11-7
                                                0
                                                    0
                                                       2
                                                          2
         plot plantid treatment
                                       date BD FF SG SD TF
## 108 WHSR9 WHSR9-1 H 2015-05-24 2 0
                                                     0
                                                        0
                                                          2
                              H 2015-05-26 2 0
                                                        0 2
## 267 WHSR9 WHSR9-1
                                                     0
                              H 2015-05-29 2 0
                                                           2
## 426 WHSR9 WHSR9-1
                                                     0
                                                        0
                                                        0 2
## 585 WHSR9 WHSR9-1
                              H 2015-06-01 1 1 0
## 744 WHSR9 WHSR9-1
## 903 WHSR9 WHSR9-1
## 1062 WHSR9 WHSR9-1
## 1221 WHSR9 WHSR9-1
                             H 2015-06-03 1 1 0
H 2015-06-05 0 2 0
H 2015-06-07 0 2 0
H 2015-06-09 0 2 0
                                                        0 2
                                                        0 2
                                                        0 2
## 1221 WHSR9 WHSR9-1
## 1380 WHSR9 WHSR9-1
## 1539 WHSR9 WHSR9-1
## 1698 WHSR9 WHSR9-1
                                                        0 2
                             H 2015-06-11 0 2 0 0 2
H 2015-06-13 0 1 1 0 2
H 2015-06-15 0 1 0 1 2
                             H 2015-06-17 0 0
                                                           2
                                                     1 1
## 2016 WHSR9 WHSR9-1
                              H 2015-06-19 0 0 1 1 2
                             H 2015-06-21 0 0 0 2 2
plot plantid treatment date BD FF SG SD TF
##
## 109 WHSR9 WHSR9-2 H 2015-05-24 3 0
                                                     0
                                                           3
                                                        0
## 268 WHSR9 WHSR9-2
## 427 WHSR9 WHSR9-2
## 586 WHSR9 WHSR9-2
                                                        0 2
                              H 2015-05-26 2
                                                  0
                                                     0
                              H 2015-05-29 2 0
                                                        0 2
                                                     0
                                                        0 2
                              H 2015-06-01 1 1
                                                     0
                              H 2015-06-03 0 2 0
                                                        0 2
## 745 WHSR9 WHSR9-2
                              H 2015-06-05 0 2
## 904 WHSR9 WHSR9-2
## 1063 WHSR9 WHSR9-2
## 1222 WHSR9 WHSR9-2
                                                     0
                                                        0 2
                              H 2015-06-07 0 2 0
                                                        0 2
                              H 2015-06-09 0 2
                                                        0 2
                                                     0
                                                        0 2
## 1381 WHSR9 WHSR9-2
                              H 2015-06-11 0 2 0
## 1540 WHSR9 WHSR9-2
## 1699 WHSR9 WHSR9-2
## 1858 WHSR9 WHSR9-2
## 2017 WHSR9 WHSR9-2
                             H 2015-06-13 0 2
                                                        0 2
                                                     0
                              H 2015-06-15 0 0
                                                     2
                                                        0 2
                              H 2015-06-17 0 0
                                                     2
                                                        0 2
                              H 2015-06-19 0 0
                                                     1 1 2
## 2176 WHSR9 WHSR9-2
                              H 2015-06-21 0 0 1 1 2
## 2335 WHSR9 WHSR9-2 H 2015-06-23 0 
## 2494 WHSR9 WHSR9-2 H 2015-06-26 0
                              H 2015-06-23 0 0
                                                     0 2 2
                                                     0 2 2
                                                  0
```

```
plot plantid treatment date BD FF SG SD TF
## 110 WHSR9 WHSR9-3
                            H 2015-05-24 14
                                                   0 14
                                             0
                                                0
## 269 WHSR9 WHSR9-3
                            H 2015-05-26 17
                                             0
                                                0
                                                   0 17
## 428
       WHSR9 WHSR9-3
                            H 2015-05-29 14
                                                0
                                                   0 14
                                             a
## 587
       WHSR9 WHSR9-3
                            H 2015-06-01 18
                                             0
                                                0
                                                   0 18
## 746
       WHSR9 WHSR9-3
                            H 2015-06-03 14
                                             3
                                                0
                                                   0 17
## 905 WHSR9 WHSR9-3
                            H 2015-06-05 10
                                             7
                                                   0 17
## 1064 WHSR9 WHSR9-3
                            H 2015-06-07
                                          9 8
                                                0
                                                   0 17
                                          8 12
## 1223 WHSR9 WHSR9-3
                                                0
                            H 2015-06-09
                                                   0 20
## 1382 WHSR9 WHSR9-3
                           H 2015-06-11
                                          2 15
                                                0
                                                   0 17
## 1541 WHSR9 WHSR9-3
                            H 2015-06-13
                                          2 14
                                                2
                                                   0 18
## 1700 WHSR9 WHSR9-3
                            H 2015-06-15 3 15
                                                0
                                                   0 18
                            H 2015-06-17
## 1859 WHSR9 WHSR9-3
                                          2
                                             3 13
                                                   0 18
## 2018 WHSR9 WHSR9-3
                            H 2015-06-19 0
                                             0 18
                                                   0 18
## 2177 WHSR9 WHSR9-3
                            H 2015-06-21 0
                                             0 17
                                                   0 17
## 2336 WHSR9 WHSR9-3
                           H 2015-06-23 0
                                             0 4 11 15
## 2495 WHSR9 WHSR9-3
                           H 2015-06-26 0 0 0 17 17
##
        plot plantid treatment
                                   date BD FF SG SD TF
## 116 WHSR9 WHSR9-4
                             H 2015-05-24
                                          1
                                             0
                                                0
                                                   0
                                                      1
                            H 2015-05-26
## 275 WHSR9 WHSR9-4
                                           2
                                             0
                                                0
                                                      2
## 434 WHSR9 WHSR9-4
                            H 2015-05-29
                                           2
                                             0
                                                0
                                                   0
                                                      2
## 593 WHSR9 WHSR9-4
                                                      1
                            H 2015-06-01 1
                                                0
                                                      2
## 752 WHSR9 WHSR9-4
                           H 2015-06-03
                                                0
                                           1
                                             1
                                                   0
## 911 WHSR9 WHSR9-4
                                                      2
                           H 2015-06-05
                                           1
                                             1
                                                0
## 1070 WHSR9 WHSR9-4
                           H 2015-06-07
                                           1
                                             1
                                                0
                                                   0
                                                      2
## 1229 WHSR9 WHSR9-4
                           H 2015-06-09 1
                                             1
                                                0
                                                   0
                                                      2
## 1388 WHSR9 WHSR9-4
                           H 2015-06-11 0
                                             2
                                                0
                                                   0
                                                      2
## 1547 WHSR9 WHSR9-4
                           H 2015-06-13 0
                                             2
                                                0
                                                   0
                                                      2
                                                   0 2
## 1706 WHSR9 WHSR9-4
                                            2
                                                0
                           H 2015-06-15
                                          0
                                                      2
## 1865 WHSR9 WHSR9-4
                            H 2015-06-17
                                          0
                                             1
                                                1
                                                   0
## 2024 WHSR9 WHSR9-4
                            H 2015-06-19 0
                                             0
                                                2
                                                      2
                                                      2
## 2183 WHSR9 WHSR9-4
                            H 2015-06-21
                                          0
                                             0
                                                2
                                                   0
## 2342 WHSR9 WHSR9-4
                           H 2015-06-23
                                                   2 2
                                          0
                                             0
                                                0
                           H 2015-06-26
## 2501 WHSR9 WHSR9-4
                                                0
                                                   2
                                                      2
                                          0
                                             0
        plot plantid treatment
                                   date BD FF SG SD TF
                      C 2015-05-24
       WSR10 WSR10-1
                                                      5
## 112
                                           5
                                             0
                                                0
                                                   0
                            C 2015-05-26
## 271
       WSR10 WSR10-1
                                           4
                                             0
                                                0
                                                      4
## 430
                            C 2015-05-29
                                                      3
      WSR10 WSR10-1
                                           3
                                             0
                                                0
                                                   0
## 589
                                             2
                                                0
                                                      2
       WSR10 WSR10-1
                            C 2015-06-01
                                          0
                                                   0
## 748
                            C 2015-06-03
                                             2
                                                      2
       WSR10 WSR10-1
                                          0
                                                0
                                                   0
                                                      2
## 907
       WSR10 WSR10-1
                            C 2015-06-05
                                          0
                                             2
                                                0
                                                   0
## 1066 WSR10 WSR10-1
                                             2
                                                0
                                                     2
                            C 2015-06-07
                                          0
## 1225 WSR10 WSR10-1
                            C 2015-06-09
                                          0
                                             0
                                                2
                                                   0
                                                      2
## 1384 WSR10 WSR10-1
                            C 2015-06-11 0
                                              0
                                                2
                                                      2
                            C 2015-06-13
                                                      2
## 1543 WSR10 WSR10-1
                                           0
                                             0
                                                1
                                                   1
## 1702 WSR10 WSR10-1
                        C 2015-06-15 0
                                             0
                                                1
                                                   1
                                                      2
```

```
## 1861 WSR10 WSR10-1 C 2015-06-17 0 0 0
                                              2
                                                 2
## 2020 WSR10 WSR10-1
                        C 2015-06-19 0 0 0 2 2
                         C 2015-06-21 0 0 0 2 2
## 2179 WSR10 WSR10-1
                        C 2015-06-23 0 0 0 2 2
## 2338 WSR10 WSR10-1
                        C 2015-06-26 0 0 0 2 2
## 2497 WSR10 WSR10-1
                                date BD FF SG SD TF
       plot plantid treatment
##
## 103 WSR10 WSR10-7 C 2015-05-24 7 0
                                                7
## 262 WSR10 WSR10-7
                         C 2015-05-26 2
                                           0
                                              0
                                                2
## 421 WSR10 WSR10-7
                         C 2015-05-29 5 0
                                              0 5
                                           0
## 580 WSR10 WSR10-7
                         C 2015-06-01 1 1 0
                                              0 2
## 739 WSR10 WSR10-7
                         C 2015-06-03 0 1 0
                                              0 1
                         C 2015-06-05 0 1
## 898 WSR10 WSR10-7
                                           0
                                              0 1
## 1057 WSR10 WSR10-7
                        C 2015-06-07 0 1
                                           0
                                              0 1
                       C 2015-06-09 0 1
## 1216 WSR10 WSR10-7
                                           0
                                              0 1
## 1375 WSR10 WSR10-7
                        C 2015-06-11 0 0 1
                                              0 1
                        C 2015-06-13 0 0 1
                                              0 1
## 1534 WSR10 WSR10-7
## 1693 WSR10 WSR10-7
                        C 2015-06-15 0 0 1
                                              0 1
## 1852 WSR10 WSR10-7
                        C 2015-06-17 0 0 0 1 1
                        C 2015-06-19 0 0 0 1 1
## 2011 WSR10 WSR10-7
## 2170 WSR10 WSR10-7
                         C 2015-06-21 0 0 0 1 1
                         C 2015-06-23 0 0 0 1 1
## 2329 WSR10 WSR10-7
                   C 2015-06-23 0 0 0 1 1 C 2015-06-26 0 0 0 1 1
## 2488 WSR10 WSR10-7
       plot plantid treatment date BD FF SG SD TF
##
## 105 WSR10 WSR10-9 C 2015-05-24 3 0
                                           0
                                                 3
                                              0
                         C 2015-05-26 2
## 264 WSR10 WSR10-9
                                        1
                                           0
                                              0
                                                 3
## 423 WSR10 WSR10-9
                         C 2015-05-29 2 1
                                           0
                                              0 3
                                              0 2
## 582 WSR10 WSR10-9
                         C 2015-06-01 0 2
                                           0
## 741 WSR10 WSR10-9
                         C 2015-06-03 0 2 0
                                              0 2
## 900 WSR10 WSR10-9
                         C 2015-06-05 0 2 0
                                              0 2
                                              0 2
## 1059 WSR10 WSR10-9
                        C 2015-06-07 0 2
                                           0
## 1218 WSR10 WSR10-9
                         C 2015-06-09 0 2 0
                                              0 2
                                              0 2
## 1377 WSR10 WSR10-9
                        C 2015-06-11 0 1 1
                        C 2015-06-13 0 0 2 0 2
## 1536 WSR10 WSR10-9
## 1695 WSR10 WSR10-9
                        C 2015-06-15 0 0
                                           2 0 2
## 1854 WSR10 WSR10-9
                         C 2015-06-17 0 0 0 2 2
                         C 2015-06-19 0 0
                                           0 2 2
## 2013 WSR10 WSR10-9
                        C 2015-06-21 0 0 0 2 2
## 2172 WSR10 WSR10-9
                        C 2015-06-23 0 0 0 2 2
## 2331 WSR10 WSR10-9
## 2490 WSR10 WSR10-9 C 2015-06-26 0 0 0 2 2
```