

movement__ssf.R

bebs0001

2019-10-16

Loading movement and background data

First of all, we load the data that was already organized and cleaned in another step. We're working here with data from four white-lipped peccary individuals (from four different groups) from the Parque Nacional das Emmas, within the Brazilian Cerrado. We also load land use maps (that will be used here for the habitat selection analysis), rasterize and merge them in two rasters: one with land use classes, and another with the date when the sugarcane and corn plantations were cropped.

```
# Set up

# Clean everything before beginning
rm(list = ls())

# Load packages
install.load::install_load('tidyverse', 'ggribes', 'lubridate')
install.load::install_load('sf', 'fasterize', 'raster')
install.load::install_load('broom')
install.load::install_load('amt')
```

Load movement data

```
# Load movement data
load('data/movement_data_loaded.RData')
```

Load spatial data

```
# land use classes
lu.classes <- c('Campo Seco', 'Campo Úmido', 'Cana-de-Açúcar',
               'Cerrado', 'Mata de Galeria', 'Milho - Safrinha',
               'Solo Exposto', 'Não Disponível - Vala')

# alto formoso
map.alto.formoso <- sf::st_read(dsn = 'maps/Alto_Formoso', layer = 'alto_formoso') %>%
  dplyr::rename(uso_terra = CLASS_D_19) %>%
  dplyr::mutate(data.colheita = lubridate::ymd(DATA_COLHE) + days(1),
               julian = julian(data.colheita),
               name = 'Alto Formoso',
               classe = factor(uso_terra, levels = lu.classes),
               classe.num = factor(classe, levels = lu.classes, labels = 1:length(lu.classes)) %>% as.numeric())
dplyr::select(-DATA_COLHE)

## Reading layer `alto_formoso' from data source `C:\Users\bebs0001\Documents\Movimento_Queixadas_PNEma
## Simple feature collection with 3833 features and 2 fields
## geometry type:  MULTIPOLYGON
## dimension:      XY
## bbox:           xmin: 305195.3 ymin: 7967433 xmax: 327427.9 ymax: 7982940
```

```
## epsg (SRID):      NA
## proj4string:      +proj=utm +zone=22 +south +ellps=GRS80 +units=m +no_defs
```

```
# Check
```

```
map.alto.formoso$uso_terra
```

##	[1]	Cerrado	Cerrado	Campo Seco	Campo Seco
##	[5]	Cerrado	Cerrado	Cerrado	Campo Úmido
##	[9]	Mata de Galeria	Cerrado	Milho - Safrinha	Cerrado
##	[13]	Cerrado	Cerrado	Cerrado	Cerrado
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## [1073]	Campo Seco	Campo Seco	Campo Úmido	Campo Seco
## [1077]	Cerrado	Campo Úmido	Campo Seco	Campo Seco
## [1081]	Cerrado	Campo Úmido	Cerrado	Campo Seco
## [1085]	Cerrado	Campo Seco	Cana-de-Açúcar	Cerrado
## [1089]	Campo Seco	Campo Úmido	Campo Seco	Cerrado
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## [1105]	Mata de Galeria	Campo Seco	Cerrado	Campo Úmido
## [1109]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
## [1113]	Campo Úmido	Campo Seco	Cerrado	Cerrado
## [1117]	Campo Úmido	Mata de Galeria	Campo Seco	Mata de Galeria
## [1121]	Campo Úmido	Campo Seco	Campo Úmido	Campo Seco
## [1125]	Cerrado	Campo Seco	Campo Seco	Cerrado
## [1129]	Campo Seco	Campo Úmido	Campo Úmido	Campo Úmido
## [1133]	Campo Úmido	Mata de Galeria	Campo Seco	Campo Seco
## [1137]	Campo Seco	Campo Úmido	Campo Seco	Cerrado
## [1141]	Cerrado	Campo Seco	Campo Seco	Campo Seco
## [1145]	Campo Seco	Campo Úmido	Campo Seco	Cerrado
## [1149]	Campo Úmido	Campo Seco	Campo Seco	Mata de Galeria
## [1153]	Mata de Galeria	Cerrado	Campo Seco	Campo Úmido
## [1157]	Cerrado	Campo Seco	Campo Úmido	Campo Seco
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## [1165]	Campo Seco	Cerrado	Campo Seco	Campo Seco
## [1169]	Cerrado	Cerrado	Campo Úmido	Campo Seco
## [1173]	Cerrado	Campo Seco	Campo Seco	Campo Seco
## [1177]	Campo Seco	Mata de Galeria	Cerrado	Cerrado
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## [1189]	Campo Seco	Campo Seco	Campo Úmido	Campo Seco
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## [1197]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
## [1201]	Campo Úmido	Cerrado	Milho - Safrinha	Campo Seco
## [1205]	Campo Úmido	Campo Úmido	Campo Úmido	Campo Seco
## [1209]	Campo Seco	Campo Seco	Campo Seco	Campo Úmido
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## [1229]	Campo Seco	Campo Seco	Campo Seco	Campo Úmido
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## [1237]	Campo Seco	Campo Seco	Campo Úmido	Campo Seco
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## [1253]	Campo Seco	Campo Úmido	Campo Seco	Campo Seco
## [1257]	Campo Seco	Cerrado	Campo Seco	Cerrado
## [1261]	Campo Úmido	Campo Seco	Mata de Galeria	Cerrado
## [1265]	Campo Seco	Campo Seco	Campo Seco	Campo Úmido
## [1269]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
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## [1277]	Cerrado	Campo Seco	Campo Seco	Campo Seco
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## [1293]	Campo Seco	Campo Seco	Cana-de-Açúcar	Cerrado
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## [1309]	Campo Seco	Cerrado	Campo Seco	Campo Seco
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## [1345]	Campo Seco	Campo Seco	Campo Seco	Campo Úmido
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## [1353]	Campo Úmido	Campo Úmido	Campo Seco	Campo Seco
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## [1385]	Cana-de-Açúcar	Campo Seco	Campo Seco	Campo Úmido
## [1389]	Campo Seco	Campo Seco	Campo Seco	Campo Úmido
## [1393]	Campo Úmido	Campo Seco	Mata de Galeria	Campo Úmido
## [1397]	Campo Úmido	Campo Seco	Campo Seco	Campo Seco
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## [1405]	Campo Seco	Campo Seco	Campo Úmido	Campo Seco
## [1409]	Campo Úmido	Campo Úmido	Campo Seco	Campo Seco
## [1413]	Campo Úmido	Campo Úmido	Mata de Galeria	Campo Seco
## [1417]	Campo Seco	Campo Seco	Campo Seco	Campo Úmido
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## [1425]	Campo Seco	Campo Úmido	Cerrado	Campo Seco
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## [1437]	Campo Seco	Campo Seco	Campo Seco	Campo Úmido
## [1441]	Campo Úmido	Campo Úmido	Campo Seco	Cana-de-Açúcar
## [1445]	Campo Úmido	Campo Seco	Campo Seco	Campo Seco
## [1449]	Campo Seco	Campo Seco	Campo Úmido	Campo Seco
## [1453]	Campo Úmido	Campo Úmido	Campo Seco	Campo Seco
## [1457]	Campo Seco	Campo Úmido	Cerrado	Cana-de-Açúcar
## [1461]	Campo Seco	Campo Úmido	Campo Úmido	Campo Úmido
## [1465]	Campo Seco	Cana-de-Açúcar	Campo Úmido	Campo Úmido
## [1469]	Campo Úmido	Campo Úmido	Campo Úmido	Campo Seco
## [1473]	Cana-de-Açúcar	Campo Úmido	Campo Úmido	Campo Seco
## [1477]	Campo Úmido	Campo Úmido	Campo Úmido	Campo Seco
## [1481]	Campo Úmido	Mata de Galeria	Cerrado	Campo Úmido
## [1485]	Campo Seco	Campo Seco	Campo Seco	Campo Úmido
## [1489]	Campo Úmido	Campo Seco	Campo Seco	Campo Úmido

## [1493]	Campo Seco	Campo Úmido	Campo Seco	Campo Úmido
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## [1505]	Campo Úmido	Campo Seco	Campo Seco	Campo Seco
## [1509]	Campo Seco	Campo Seco	Campo Úmido	Campo Seco
## [1513]	Campo Seco	Campo Seco	Campo Seco	Campo Úmido
## [1517]	Campo Úmido	Campo Úmido	Cerrado	Campo Seco
## [1521]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
## [1525]	Campo Seco	Campo Úmido	Campo Úmido	Campo Seco
## [1529]	Cana-de-Açúcar	Cerrado	Campo Úmido	Campo Úmido
## [1533]	Campo Úmido	Campo Seco	Campo Úmido	Campo Seco
## [1537]	Campo Úmido	Campo Seco	Campo Seco	Campo Seco
## [1541]	Campo Seco	Cerrado	Campo Seco	Campo Úmido
## [1545]	Campo Úmido	Campo Úmido	Campo Seco	Campo Seco
## [1549]	Campo Úmido	Milho - Safrinha	Campo Seco	Campo Úmido
## [1553]	Campo Úmido	Campo Seco	Campo Seco	Campo Seco
## [1557]	Campo Úmido	Campo Seco	Campo Seco	Campo Seco
## [1561]	Mata de Galeria	Campo Seco	Campo Seco	Cerrado
## [1565]	Campo Seco	Campo Úmido	Campo Seco	Campo Seco
## [1569]	Campo Seco	Campo Úmido	Campo Seco	Campo Seco
## [1573]	Campo Úmido	Campo Seco	Campo Seco	Campo Seco
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## [1585]	Campo Seco	Campo Seco	Campo Seco	Cerrado
## [1589]	Campo Úmido	Campo Seco	Campo Seco	Cana-de-Açúcar
## [1593]	Campo Seco	Campo Seco	Milho - Safrinha	Campo Seco
## [1597]	Campo Úmido	Campo Seco	Campo Úmido	Cerrado
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## [1641]	Campo Seco	Campo Úmido	Campo Seco	Campo Úmido
## [1645]	Cerrado	Campo Úmido	Cerrado	Cerrado
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## [1689]	Campo Seco	Campo Úmido	Campo Seco	Campo Seco
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## [1697]	Campo Úmido	Campo Seco	Campo Seco	Campo Seco
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## [1705]	Campo Seco	Campo Seco	Campo Seco	Campo Seco

## [1709]	Campo Seco	Campo Úmido	Campo Seco	Campo Seco
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## [1717]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
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## [1725]	Solo Exposto	Campo Úmido	Campo Úmido	Campo Seco
## [1729]	Campo Úmido	Campo Seco	Campo Seco	Campo Seco
## [1733]	Campo Seco	Campo Úmido	Campo Úmido	Campo Úmido
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## [1741]	Campo Seco	Milho - Safrinha	Campo Seco	Campo Seco
## [1745]	Campo Seco	Cerrado	Campo Úmido	Campo Seco
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## [1769]	Campo Seco	Campo Seco	Campo Úmido	Campo Úmido
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## [1793]	Campo Seco	Campo Seco	Campo Úmido	Cerrado
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## [1833]	Campo Seco	Campo Seco	Campo Úmido	Campo Seco
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## [1841]	Campo Seco	Campo Seco	Campo Úmido	Campo Úmido
## [1845]	Milho - Safrinha	Campo Seco	Campo Seco	Campo Seco
## [1849]	Campo Seco	Campo Úmido	Campo Seco	Campo Seco
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## [1873]	Campo Seco	Campo Seco	Campo Seco	Campo Úmido
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## [1897]	Campo Seco	Campo Seco	Campo Úmido	Campo Úmido
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## [1913]	Campo Úmido	Campo Úmido	Campo Seco	Cerrado
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## [2017]	Campo Seco	Cana-de-Açúcar	Campo Seco	Campo Úmido
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## [2129]	Campo Seco	Campo Seco	Cerrado	Campo Seco
## [2133]	Campo Úmido	Campo Úmido	Campo Seco	Campo Seco
## [2137]	Campo Seco	Campo Seco	Campo Seco	Cerrado

## [2141]	Campo Seco	Campo Seco	Campo Úmido	Cerrado
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## [2165]	Campo Seco	Solo Exposto	Cerrado	Mata de Galeria
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## [2193]	Campo Seco	Campo Seco	Solo Exposto	Cerrado
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## [2217]	Campo Seco	Campo Seco	Campo Seco	Cerrado
## [2221]	Solo Exposto	Campo Seco	Cerrado	Campo Seco
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## [2229]	Cerrado	Cerrado	Campo Seco	Campo Seco
## [2233]	Campo Úmido	Solo Exposto	Solo Exposto	Solo Exposto
## [2237]	Cerrado	Cerrado	Campo Seco	Campo Seco
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## [2245]	Solo Exposto	Campo Seco	Campo Úmido	Campo Seco
## [2249]	Solo Exposto	Solo Exposto	Solo Exposto	Campo Seco
## [2253]	Campo Seco	Campo Seco	Solo Exposto	Solo Exposto
## [2257]	Cerrado	Solo Exposto	Solo Exposto	Milho - Safrinha
## [2261]	Campo Úmido	Solo Exposto	Solo Exposto	Campo Seco
## [2265]	Campo Seco	Mata de Galeria	Solo Exposto	Cerrado
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## [2281]	Solo Exposto	Campo Seco	Campo Seco	Campo Seco
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## [2293]	Milho - Safrinha	Campo Seco	Campo Seco	Campo Seco
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## [2313]	Campo Úmido	Campo Seco	Campo Úmido	Campo Úmido
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## [2357]	Campo Seco	Campo Seco	Solo Exposto	Campo Seco
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## [2389]	Campo Úmido	Campo Úmido	Campo Úmido	Campo Seco
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## [2541]	Campo Seco	Campo Seco	Campo Úmido	Campo Úmido
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## [2557]	Campo Úmido	Campo Seco	Campo Seco	Campo Seco
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## [2581]	Campo Seco	Campo Seco	Campo Úmido	Campo Úmido
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## [2613]	Campo Seco	Solo Exposto	Campo Seco	Cerrado
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## [2625]	Campo Seco	Campo Seco	Campo Úmido	Cerrado
## [2629]	Campo Úmido	Campo Seco	Campo Seco	Campo Seco
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## [2649]	Campo Seco	Campo Seco	Campo Úmido	Cerrado
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## [2657]	Campo Seco	Campo Úmido	Campo Seco	Campo Seco
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## [2665]	Campo Úmido	Campo Seco	Campo Seco	Cerrado
## [2669]	Campo Seco	Cerrado	Campo Seco	Cana-de-Açúcar
## [2673]	Cerrado	Campo Seco	Campo Seco	Campo Seco
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## [2681]	Campo Seco	Milho - Safrinha	Cerrado	Cerrado
## [2685]	Campo Seco	Campo Úmido	Campo Seco	Campo Seco
## [2689]	Campo Seco	Cana-de-Açúcar	Campo Seco	Campo Seco
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## [2729]	Cerrado	Cana-de-Açúcar	Campo Seco	Campo Seco
## [2733]	Campo Seco	Campo Seco	Cerrado	Cerrado
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## [2741]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
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## [2761]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
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## [2789]	Campo Seco	Campo Seco	Cana-de-Açúcar	Campo Seco
## [2793]	Campo Seco	Campo Seco	Cana-de-Açúcar	Campo Seco
## [2797]	Campo Seco	Mata de Galeria	Campo Úmido	Campo Seco
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## [2809]	Campo Úmido	Campo Seco	Cerrado	Campo Seco
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## [2817]	Campo Seco	Cana-de-Açúcar	Cerrado	Campo Úmido
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## [2825]	Cerrado	Campo Seco	Campo Seco	Campo Seco
## [2829]	Campo Seco	Mata de Galeria	Cana-de-Açúcar	Campo Seco
## [2833]	Campo Seco	Cerrado	Campo Seco	Campo Seco
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## [2841]	Cerrado	Campo Seco	Cerrado	Campo Seco
## [2845]	Campo Seco	Cana-de-Açúcar	Campo Seco	Campo Seco
## [2849]	Campo Seco	Cerrado	Campo Seco	Mata de Galeria
## [2853]	Campo Seco	Cerrado	Campo Seco	Campo Seco
## [2857]	Cerrado	Campo Seco	Campo Seco	Campo Seco
## [2861]	Campo Úmido	Mata de Galeria	Cana-de-Açúcar	Campo Seco
## [2865]	Mata de Galeria	Cerrado	Campo Seco	Cana-de-Açúcar
## [2869]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
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## [2877]	Campo Seco	Cerrado	Campo Úmido	Campo Seco
## [2881]	Campo Seco	Cana-de-Açúcar	Campo Úmido	Campo Seco
## [2885]	Campo Seco	Campo Seco	Cerrado	Cerrado
## [2889]	Campo Seco	Campo Seco	Campo Seco	Cerrado
## [2893]	Campo Úmido	Mata de Galeria	Cana-de-Açúcar	Solo Exposto
## [2897]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
## [2901]	Cana-de-Açúcar	Campo Seco	Solo Exposto	Cerrado
## [2905]	Campo Seco	Cana-de-Açúcar	Solo Exposto	Cana-de-Açúcar
## [2909]	Campo Seco	Campo Seco	Campo Úmido	Cerrado
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## [2917]	Campo Seco	Campo Seco	Cerrado	Campo Úmido
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## [2929]	Cerrado	Campo Seco	Cana-de-Açúcar	Cerrado
## [2933]	Campo Seco	Campo Úmido	Cerrado	Campo Úmido
## [2937]	Campo Seco	Solo Exposto	Cana-de-Açúcar	Cana-de-Açúcar
## [2941]	Campo Úmido	Campo Úmido	Cana-de-Açúcar	Campo Seco
## [2945]	Campo Seco	Campo Úmido	Campo Seco	Cana-de-Açúcar
## [2949]	Campo Seco	Campo Seco	Cana-de-Açúcar	Campo Úmido
## [2953]	Milho - Safrinha	Mata de Galeria	Cerrado	Campo Seco
## [2957]	Campo Úmido	Cerrado	Campo Úmido	Solo Exposto
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## [2965]	Campo Seco	Cerrado	Campo Seco	Cerrado
## [2969]	Campo Úmido	Mata de Galeria	Campo Seco	Campo Seco
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## [2993]	Campo Seco	Mata de Galeria	Campo Úmido	Campo Úmido
## [2997]	Milho - Safrinha	Campo Seco	Campo Seco	Campo Seco
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## [3005]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
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## [3017]	Cerrado	Mata de Galeria	Campo Seco	Campo Úmido
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## [3029]	Cerrado	Campo Seco	Campo Seco	Campo Seco
## [3033]	Cerrado	Cerrado	Cerrado	Cana-de-Açúcar
## [3037]	Campo Seco	Campo Úmido	Campo Úmido	Campo Seco
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## [3045]	Campo Úmido	Campo Seco	Campo Seco	Cerrado
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## [3053]	Campo Seco	Campo Seco	Campo Úmido	Campo Seco
## [3057]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
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## [3065]	Campo Seco	Campo Úmido	Mata de Galeria	Cerrado
## [3069]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
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## [3093]	Cerrado	Campo Seco	Mata de Galeria	Campo Seco
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## [3129]	Campo Úmido	Campo Seco	Cerrado	Cerrado
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## [3137]	Campo Seco	Cerrado	Campo Seco	Campo Seco
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## [3149]	Campo Seco	Mata de Galeria	Cerrado	Mata de Galeria
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## [3157]	Campo Seco	Campo Úmido	Cana-de-Açúcar	Cerrado
## [3161]	Campo Seco	Campo Úmido	Cerrado	Campo Seco
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## [3169]	Campo Seco	Campo Úmido	Campo Seco	Campo Úmido
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## [3177]	Mata de Galeria	Campo Úmido	Campo Seco	Mata de Galeria
## [3181]	Cana-de-Açúcar	Campo Seco	Campo Seco	Campo Úmido
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## [3189]	Cerrado	Campo Seco	Campo Úmido	Cerrado
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## [3197]	Campo Seco	Campo Seco	Mata de Galeria	Campo Seco
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## [3209]	Campo Seco	Campo Seco	Campo Seco	Mata de Galeria
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## [3217]	Campo Seco	Campo Seco	Campo Seco	Cerrado

## [3221]	Cerrado	Campo Seco	Campo Seco	Cerrado
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## [3229]	Campo Seco	Campo Seco	Cana-de-Açúcar	Cerrado
## [3233]	Cerrado	Mata de Galeria	Cerrado	Cerrado
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## [3241]	Mata de Galeria	Campo Úmido	Mata de Galeria	Cerrado
## [3245]	Campo Seco	Cerrado	Campo Seco	Cerrado
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## [3265]	Cerrado	Cerrado	Campo Úmido	Campo Seco
## [3269]	Campo Úmido	Cerrado	Cana-de-Açúcar	Cana-de-Açúcar
## [3273]	Campo Seco	Campo Seco	Cerrado	Mata de Galeria
## [3277]	Cerrado	Campo Seco	Cerrado	Campo Seco
## [3281]	Campo Úmido	Campo Seco	Campo Úmido	Cerrado
## [3285]	Cerrado	Cerrado	Cerrado	Campo Úmido
## [3289]	Cerrado	Milho - Safrinha	Solo Exposto	Cerrado
## [3293]	Campo Seco	Cerrado	Mata de Galeria	Milho - Safrinha
## [3297]	Campo Seco	Campo Úmido	Cana-de-Açúcar	Solo Exposto
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## [3321]	Solo Exposto	Solo Exposto	Cerrado	Solo Exposto
## [3325]	Campo Úmido	Solo Exposto	Campo Úmido	Mata de Galeria
## [3329]	Solo Exposto	Cerrado	Solo Exposto	Cerrado
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## [3337]	Campo Seco	Cerrado	Campo Seco	Solo Exposto
## [3341]	Solo Exposto	Campo Seco	Campo Seco	Solo Exposto
## [3345]	Cerrado	Campo Seco	Solo Exposto	Campo Seco
## [3349]	Solo Exposto	Solo Exposto	Solo Exposto	Campo Seco
## [3353]	Campo Seco	Solo Exposto	Cerrado	Solo Exposto
## [3357]	Solo Exposto	Cerrado	Solo Exposto	Solo Exposto
## [3361]	Campo Seco	Solo Exposto	Solo Exposto	Solo Exposto
## [3365]	Campo Seco	Campo Seco	Solo Exposto	Cerrado
## [3369]	Solo Exposto	Milho - Safrinha	Solo Exposto	Solo Exposto
## [3373]	Solo Exposto	Cerrado	Milho - Safrinha	Campo Seco
## [3377]	Cerrado	Milho - Safrinha	Milho - Safrinha	Milho - Safrinha
## [3381]	Solo Exposto	Cana-de-Açúcar	Milho - Safrinha	Campo Seco
## [3385]	Solo Exposto	Solo Exposto	Campo Seco	Solo Exposto
## [3389]	Solo Exposto	Solo Exposto	Solo Exposto	Campo Seco
## [3393]	Milho - Safrinha	Campo Seco	Campo Seco	Solo Exposto
## [3397]	Cana-de-Açúcar	Solo Exposto	Campo Úmido	Cerrado
## [3401]	Campo Seco	Campo Úmido	Cana-de-Açúcar	Mata de Galeria
## [3405]	Solo Exposto	Solo Exposto	Cerrado	Mata de Galeria
## [3409]	Campo Seco	Solo Exposto	Mata de Galeria	Campo Úmido
## [3413]	Solo Exposto	Campo Seco	Campo Seco	Cana-de-Açúcar
## [3417]	Campo Úmido	Cana-de-Açúcar	Solo Exposto	Campo Seco
## [3421]	Cerrado	Mata de Galeria	Solo Exposto	Solo Exposto
## [3425]	Cerrado	Solo Exposto	Campo Úmido	Solo Exposto
## [3429]	Milho - Safrinha	Solo Exposto	Solo Exposto	Solo Exposto
## [3433]	Solo Exposto	Solo Exposto	Solo Exposto	Milho - Safrinha

##	[3437]	Milho - Safrinha	Solo Exposto	Solo Exposto	Milho - Safrinha
##	[3441]	Mata de Galeria	Solo Exposto	Solo Exposto	Solo Exposto
##	[3445]	Solo Exposto	Milho - Safrinha	Milho - Safrinha	Solo Exposto
##	[3449]	Solo Exposto	Solo Exposto	Milho - Safrinha	Milho - Safrinha
##	[3453]	Solo Exposto	Milho - Safrinha	Campo Úmido	Milho - Safrinha
##	[3457]	Solo Exposto	Milho - Safrinha	Solo Exposto	Solo Exposto
##	[3461]	Milho - Safrinha	Milho - Safrinha	Milho - Safrinha	Milho - Safrinha
##	[3465]	Milho - Safrinha	Milho - Safrinha	Solo Exposto	Milho - Safrinha
##	[3469]	Milho - Safrinha	Milho - Safrinha	Milho - Safrinha	Cerrado
##	[3473]	Milho - Safrinha	Solo Exposto	Solo Exposto	Solo Exposto
##	[3477]	Milho - Safrinha	Milho - Safrinha	Milho - Safrinha	Solo Exposto
##	[3481]	Mata de Galeria	Cerrado	Milho - Safrinha	Solo Exposto
##	[3485]	Milho - Safrinha	Cerrado	Solo Exposto	Solo Exposto
##	[3489]	Cerrado	Milho - Safrinha	Solo Exposto	Solo Exposto
##	[3493]	Solo Exposto	Campo Úmido	Mata de Galeria	Solo Exposto
##	[3497]	Milho - Safrinha	Solo Exposto	Milho - Safrinha	Campo Seco
##	[3501]	Solo Exposto	Solo Exposto	Cerrado	Cerrado
##	[3505]	Mata de Galeria	Campo Seco	Mata de Galeria	Solo Exposto
##	[3509]	Campo Seco	Campo Úmido	Campo Seco	Campo Seco
##	[3513]	Campo Seco	Campo Seco	Milho - Safrinha	Campo Seco
##	[3517]	Cerrado	Mata de Galeria	Solo Exposto	Solo Exposto
##	[3521]	Cerrado	Solo Exposto	Campo Úmido	Cerrado
##	[3525]	Milho - Safrinha	Campo Seco	Campo Úmido	Milho - Safrinha
##	[3529]	Campo Úmido	Cerrado	Solo Exposto	Milho - Safrinha
##	[3533]	Campo Seco	Campo Seco	Solo Exposto	Campo Seco
##	[3537]	Campo Úmido	Milho - Safrinha	Mata de Galeria	Campo Seco
##	[3541]	Campo Seco	Cerrado	Campo Seco	Cerrado
##	[3545]	Milho - Safrinha	Milho - Safrinha	Campo Seco	Mata de Galeria
##	[3549]	Campo Seco	Cerrado	Mata de Galeria	Campo Úmido
##	[3553]	Cerrado	Solo Exposto	Mata de Galeria	Campo Seco
##	[3557]	Campo Seco	Campo Seco	Cerrado	Campo Seco
##	[3561]	Campo Seco	Campo Úmido	Campo Seco	Campo Úmido
##	[3565]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
##	[3569]	Cerrado	Campo Úmido	Campo Seco	Campo Seco
##	[3573]	Campo Seco	Campo Seco	Milho - Safrinha	Cerrado
##	[3577]	Campo Seco	Campo Úmido	Campo Úmido	Campo Úmido
##	[3581]	Campo Úmido	Campo Seco	Campo Seco	Campo Úmido
##	[3585]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
##	[3589]	Campo Seco	Campo Seco	Campo Seco	Mata de Galeria
##	[3593]	Campo Seco	Cerrado	Campo Seco	Campo Seco
##	[3597]	Campo Seco	Campo Seco	Campo Seco	Campo Úmido
##	[3601]	Mata de Galeria	Campo Seco	Campo Seco	Campo Seco
##	[3605]	Campo Úmido	Campo Seco	Campo Seco	Cerrado
##	[3609]	Campo Seco	Campo Seco	Cerrado	Campo Seco
##	[3613]	Campo Seco	Cerrado	Cerrado	Cerrado
##	[3617]	Milho - Safrinha	Campo Úmido	Campo Seco	Campo Seco
##	[3621]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
##	[3625]	Campo Úmido	Campo Seco	Campo Seco	Campo Seco
##	[3629]	Campo Seco	Campo Seco	Cerrado	Campo Seco
##	[3633]	Cerrado	Campo Seco	Campo Seco	Campo Úmido
##	[3637]	Campo Úmido	Solo Exposto	Solo Exposto	Solo Exposto
##	[3641]	Solo Exposto	Milho - Safrinha	Campo Úmido	Campo Úmido
##	[3645]	Cana-de-Açúcar	Milho - Safrinha	Milho - Safrinha	Cana-de-Açúcar
##	[3649]	Campo Seco	Campo Úmido	Milho - Safrinha	Milho - Safrinha

```
## [3653] Milho - Safrinha Milho - Safrinha Campo Úmido Campo Úmido
## [3657] Campo Úmido Campo Úmido Campo Úmido Cana-de-Açúcar
## [3661] Solo Exposto Solo Exposto Mata de Galeria Mata de Galeria
## [3665] Mata de Galeria Mata de Galeria Mata de Galeria Mata de Galeria
## [3669] Mata de Galeria Mata de Galeria Mata de Galeria Mata de Galeria
## [3673] Mata de Galeria Mata de Galeria Mata de Galeria Mata de Galeria
## [3677] Mata de Galeria Mata de Galeria Mata de Galeria Mata de Galeria
## [3681] Mata de Galeria Mata de Galeria Mata de Galeria Mata de Galeria
## [3685] Mata de Galeria Mata de Galeria Mata de Galeria Mata de Galeria
## [3689] Mata de Galeria Mata de Galeria Mata de Galeria Mata de Galeria
## [3693] Mata de Galeria Mata de Galeria Mata de Galeria Mata de Galeria
## [3697] Cerrado Cana-de-Açúcar Cana-de-Açúcar Cana-de-Açúcar
## [3701] Cana-de-Açúcar Cana-de-Açúcar Cana-de-Açúcar Cana-de-Açúcar
## [3705] Cana-de-Açúcar Cana-de-Açúcar Cana-de-Açúcar Cana-de-Açúcar
## [3709] Solo Exposto Cana-de-Açúcar Solo Exposto Solo Exposto
## [3713] Solo Exposto Solo Exposto Solo Exposto Campo Seco
## [3717] Milho - Safrinha Milho - Safrinha Solo Exposto Milho - Safrinha
## [3721] Milho - Safrinha Milho - Safrinha Milho - Safrinha Milho - Safrinha
## [3725] Milho - Safrinha Solo Exposto Solo Exposto Solo Exposto
## [3729] Solo Exposto Milho - Safrinha Solo Exposto Milho - Safrinha
## [3733] Solo Exposto Solo Exposto Milho - Safrinha Campo Seco
## [3737] Solo Exposto Cana-de-Açúcar Cana-de-Açúcar Campo Seco
## [3741] Cana-de-Açúcar Cana-de-Açúcar Milho - Safrinha Cana-de-Açúcar
## [3745] Milho - Safrinha Milho - Safrinha Solo Exposto Solo Exposto
## [3749] Solo Exposto Solo Exposto Cana-de-Açúcar Cana-de-Açúcar
## [3753] Cana-de-Açúcar Cana-de-Açúcar Cana-de-Açúcar Cana-de-Açúcar
## [3757] Cana-de-Açúcar Cana-de-Açúcar Cana-de-Açúcar Cana-de-Açúcar
## [3761] Cana-de-Açúcar Cana-de-Açúcar Cana-de-Açúcar Cana-de-Açúcar
## [3765] Cana-de-Açúcar Cana-de-Açúcar Cana-de-Açúcar Cana-de-Açúcar
## [3769] Cana-de-Açúcar Cana-de-Açúcar Cana-de-Açúcar Cana-de-Açúcar
## [3773] Cana-de-Açúcar Cana-de-Açúcar Cana-de-Açúcar Cana-de-Açúcar
## [3777] Milho - Safrinha Milho - Safrinha Milho - Safrinha Milho - Safrinha
## [3781] Milho - Safrinha Milho - Safrinha Milho - Safrinha Milho - Safrinha
## [3785] Cerrado Cerrado Mata de Galeria Cerrado
## [3789] Cerrado Cerrado Cerrado Cerrado
## [3793] Cerrado Cerrado Cerrado Cerrado
## [3797] Cerrado Mata de Galeria Milho - Safrinha Milho - Safrinha
## [3801] Milho - Safrinha Milho - Safrinha Milho - Safrinha Milho - Safrinha
## [3805] Milho - Safrinha Milho - Safrinha Milho - Safrinha Milho - Safrinha
## [3809] Milho - Safrinha Milho - Safrinha Milho - Safrinha Milho - Safrinha
## [3813] Milho - Safrinha Milho - Safrinha Milho - Safrinha Milho - Safrinha
## [3817] Milho - Safrinha Milho - Safrinha Milho - Safrinha Milho - Safrinha
## [3821] Milho - Safrinha Milho - Safrinha Milho - Safrinha Milho - Safrinha
## [3825] Milho - Safrinha Milho - Safrinha Milho - Safrinha Milho - Safrinha
## [3829] Milho - Safrinha Milho - Safrinha Milho - Safrinha Cana-de-Açúcar
## [3833] Milho - Safrinha
```

```
## 7 Levels: Campo Seco Campo Úmido Cana-de-Açúcar ... Solo Exposto
```

```
length(levels(map.alto.formoso$uso_terra))
```

```
## [1] 7
```

```
length(levels(map.alto.formoso$classe))
```

```
## [1] 8
```

```
map.alto.formoso$data.colheita[!is.na(map.alto.formoso$data.colheita)]
```

```
## [1] "2019-04-21" "2019-07-04" "2019-05-01" "2019-03-11" "2019-04-09"
## [6] "2019-04-24" "2019-04-27" "2019-04-04" "2019-04-04" "2019-04-04"
## [11] "2019-04-04" "2019-04-21" "2019-04-21" "2019-04-30" "2019-05-03"
## [16] "2019-04-30" "2019-05-11" "2019-05-11" "2019-05-09" "2019-05-11"
## [21] "2019-05-10" "2019-05-10" "2019-05-10" "2019-05-14" "2019-05-14"
## [26] "2019-05-19" "2019-05-19" "2019-06-13" "2019-06-18" "2019-06-18"
## [31] "2019-06-25" "2019-06-28" "2019-06-28" "2019-06-30" "2019-07-10"
## [36] "2019-06-30" "2019-06-30" "2019-06-22" "2019-06-25" "2019-06-20"
## [41] "2019-06-20" "2019-06-28" "2019-06-26" "2019-06-29" "2019-06-29"
## [46] "2019-07-04" "2019-07-04" "2019-07-04" "2019-07-04" "2019-07-04"
## [51] "2019-07-07" "2019-07-08" "2019-07-14" "2019-07-14" "2019-07-14"
## [56] "2019-07-14" "2019-07-14" "2019-07-11"
```

```
map.alto.formoso$julian[!is.na(map.alto.formoso$julian)]
```

```
## [1] 18007 18081 18017 17966 17995 18010 18013 17990 17990 17990 17990
## [12] 18007 18007 18016 18019 18016 18027 18027 18025 18027 18026 18026
## [23] 18026 18030 18030 18035 18035 18060 18065 18065 18072 18075 18075
## [34] 18077 18087 18077 18077 18069 18072 18067 18067 18075 18073 18076
## [45] 18076 18081 18081 18081 18081 18081 18084 18085 18091 18091 18091
## [56] 18091 18091 18088
```

```
str(map.alto.formoso)
```

```
## Classes 'sf' and 'data.frame': 3833 obs. of 7 variables:
## $ uso_terra : Factor w/ 7 levels "Campo Seco","Campo Úmido",...: 4 4 1 1 4 4 4 2 5 4 ...
## $ data.colheita: Date, format: NA NA ...
## $ julian : num NA NA NA NA NA NA NA NA NA NA ...
## ..- attr(*, "origin")= Date, format: "1970-01-01"
## $ name : chr "Alto Formoso" "Alto Formoso" "Alto Formoso" "Alto Formoso" ...
## $ classe : Factor w/ 8 levels "Campo Seco","Campo Úmido",...: 4 4 1 1 4 4 4 2 5 4 ...
## $ classe.num : num 4 4 1 1 4 4 4 2 5 4 ...
## $ geometry :sfc_MULTIPOLYGON of length 3833; first list element: List of 1
## ..$ :List of 1
## .. ..$ : num [1:5, 1:2] 314900 314910 314910 314900 314900 ...
## ..- attr(*, "class")= chr "XY" "MULTIPOLYGON" "sfg"
## - attr(*, "sf_column")= chr "geometry"
## - attr(*, "agr")= Factor w/ 3 levels "constant","aggregate",...: NA NA NA NA NA NA
## ..- attr(*, "names")= chr "uso_terra" "data.colheita" "julian" "name" ...
```

```
# olhos leste
```

```
map.olhos.leste <- sf::st_read(dsn = 'maps/Olhos_Leste', layer = 'Olhos_leste') %>%
  dplyr::rename(uso_terra = CLASS_C_19) %>%
  dplyr::mutate(data.colheita = lubridate::ymd(DATA_COLHE) + days(1),
               julian = julian(data.colheita),
               name = 'Olhos Leste',
               classe = factor(uso_terra, levels = lu.classes),
               classe.num = factor(classe, levels = lu.classes, labels = 1:length(lu.classes)) %>% as.numeric())
```

```
## Reading layer `Olhos_leste' from data source `C:\Users\bebs0001\Documents\Movimento_Queixadas_PNEmas'
## Simple feature collection with 539 features and 2 fields
## geometry type: MULTIPOLYGON
## dimension: XY
## bbox: xmin: 296041 ymin: 7970033 xmax: 302982.2 ymax: 7981820
```

```
## epsg (SRID):      NA
## proj4string:      +proj=utm +zone=22 +south +ellps=GRS80 +units=m +no_defs
```

```
# Check
```

```
map.olhos.leste$uso_terra
```

```
## [1] Campo Úmido      Campo Seco      Campo Seco      Campo Seco
## [5] Campo Seco      Campo Seco      Campo Úmido      Campo Úmido
## [9] Campo Úmido      Mata de Galeria Mata de Galeria Campo Seco
## [13] Mata de Galeria Campo Seco      Campo Seco      Campo Seco
## [17] Campo Úmido      Campo Seco      Campo Seco      Campo Úmido
## [21] Campo Seco      Campo Seco      Mata de Galeria Campo Úmido
## [25] Campo Seco      Mata de Galeria Campo Seco      Cerrado
## [29] Campo Úmido      Campo Seco      Cerrado      Mata de Galeria
## [33] Campo Seco      Cerrado      Mata de Galeria Campo Úmido
## [37] Campo Úmido      Campo Úmido      Campo Seco      Campo Seco
## [41] Campo Úmido      Campo Seco      Campo Seco      Mata de Galeria
## [45] Campo Seco      Campo Seco      Campo Seco      Campo Seco
## [49] Campo Seco      Campo Seco      Campo Úmido      Campo Seco
## [53] Campo Seco      Campo Seco      Campo Seco      Campo Úmido
## [57] Campo Seco      Campo Seco      Campo Seco      Campo Seco
## [61] Campo Úmido      Campo Seco      Campo Seco      Campo Úmido
## [65] Mata de Galeria Campo Úmido      Campo Úmido      Campo Seco
## [69] Campo Úmido      Campo Úmido      Campo Seco      Campo Seco
## [73] Campo Seco      Campo Seco      Campo Seco      Campo Úmido
## [77] Mata de Galeria Campo Seco      Campo Seco      Campo Seco
## [81] Campo Seco      Campo Úmido      Campo Úmido      Campo Seco
## [85] Campo Seco      Cerrado      Campo Seco      Campo Seco
## [89] Campo Úmido      Campo Seco      Campo Seco      Campo Úmido
## [93] Campo Seco      Campo Seco      Campo Úmido      Campo Úmido
## [97] Campo Úmido      Campo Seco      Campo Seco      Campo Úmido
## [101] Campo Seco      Campo Seco      Campo Úmido      Campo Seco
## [105] Campo Úmido      Campo Seco      Campo Seco      Mata de Galeria
## [109] Campo Seco      Mata de Galeria Campo Seco      Mata de Galeria
## [113] Campo Seco      Campo Úmido      Campo Seco      Campo Seco
## [117] Campo Úmido      Campo Seco      Campo Úmido      Campo Seco
## [121] Campo Seco      Campo Seco      Campo Úmido      Campo Seco
## [125] Campo Úmido      Campo Seco      Mata de Galeria Campo Seco
## [129] Campo Úmido      Campo Seco      Campo Úmido      Milho - Safrinha
## [133] Mata de Galeria Campo Seco      Campo Úmido      Campo Úmido
## [137] Mata de Galeria Campo Seco      Campo Úmido      Mata de Galeria
## [141] Campo Seco      Mata de Galeria Campo Úmido      Cerrado
## [145] Mata de Galeria Campo Seco      Campo Úmido      Mata de Galeria
## [149] Campo Seco      Mata de Galeria Campo Seco      Campo Seco
## [153] Cerrado      Campo Seco      Campo Seco      Cerrado
## [157] Mata de Galeria Campo Úmido      Mata de Galeria Campo Seco
## [161] Campo Seco      Campo Úmido      Campo Seco      Mata de Galeria
## [165] Campo Seco      Campo Úmido      Campo Úmido      Campo Seco
## [169] Campo Seco      Campo Seco      Campo Seco      Campo Seco
## [173] Campo Seco      Campo Úmido      Campo Seco      Campo Seco
## [177] Campo Seco      Campo Seco      Campo Seco      Campo Úmido
## [181] Campo Seco      Mata de Galeria Campo Seco      Campo Seco
## [185] Campo Seco      Campo Seco      Campo Seco      Mata de Galeria
## [189] Campo Seco      Campo Seco      Mata de Galeria Campo Seco
## [193] Campo Seco      Campo Seco      Campo Seco      Campo Seco
```

## [197]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
## [201]	Campo Úmido	Campo Seco	Campo Seco	Campo Seco
## [205]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
## [209]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
## [213]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
## [217]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
## [221]	Campo Seco	Cerrado	Campo Seco	Campo Seco
## [225]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
## [229]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
## [233]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
## [237]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
## [241]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
## [245]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
## [249]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
## [253]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
## [257]	Milho - Safrinha	Campo Seco	Campo Seco	Campo Seco
## [261]	Milho - Safrinha	Campo Seco	Milho - Safrinha	Cerrado
## [265]	Cerrado	Cerrado	Campo Seco	Milho - Safrinha
## [269]	Cerrado	Campo Seco	Milho - Safrinha	Campo Seco
## [273]	Campo Seco	Milho - Safrinha	Cerrado	Cerrado
## [277]	Campo Seco	Cerrado	Campo Seco	Cerrado
## [281]	Mata de Galeria	Milho - Safrinha	Mata de Galeria	Milho - Safrinha
## [285]	Cerrado	Milho - Safrinha	Milho - Safrinha	Campo Seco
## [289]	Cerrado	Milho - Safrinha	Cerrado	Campo Seco
## [293]	Campo Seco	Cerrado	Campo Úmido	Cerrado
## [297]	Campo Seco	Campo Seco	Milho - Safrinha	Cerrado
## [301]	Campo Seco	Campo Seco	Campo Seco	Campo Seco
## [305]	Cerrado	Campo Seco	Milho - Safrinha	Campo Seco
## [309]	Campo Seco	Cerrado	Mata de Galeria	Campo Seco
## [313]	Cerrado	Cerrado	Campo Úmido	Cerrado
## [317]	Milho - Safrinha	Mata de Galeria	Cerrado	Milho - Safrinha
## [321]	Cerrado	Cerrado	Cerrado	Cerrado
## [325]	Cerrado	Campo Seco	Campo Úmido	Mata de Galeria
## [329]	Cerrado	Campo Úmido	Mata de Galeria	Cerrado
## [333]	Campo Úmido	Campo Seco	Milho - Safrinha	Campo Seco
## [337]	Cerrado	Campo Úmido	Cerrado	Milho - Safrinha
## [341]	Campo Úmido	Campo Seco	Campo Seco	Mata de Galeria
## [345]	Cerrado	Campo Seco	Campo Seco	Campo Seco
## [349]	Mata de Galeria	Cerrado	Milho - Safrinha	Milho - Safrinha
## [353]	Cerrado	Mata de Galeria	Cerrado	Mata de Galeria
## [357]	Campo Úmido	Campo Seco	Mata de Galeria	Mata de Galeria
## [361]	Campo Seco	Campo Seco	Campo Seco	Campo Úmido
## [365]	Mata de Galeria	Mata de Galeria	Cerrado	Campo Seco
## [369]	Campo Seco	Campo Seco	Mata de Galeria	Mata de Galeria
## [373]	Mata de Galeria	Cerrado	Mata de Galeria	Campo Seco
## [377]	Campo Seco	Campo Seco	Campo Seco	Cerrado
## [381]	Mata de Galeria	Cerrado	Campo Seco	Campo Seco
## [385]	Campo Úmido	Mata de Galeria	Campo Seco	Campo Seco
## [389]	Campo Úmido	Campo Seco	Cerrado	Campo Úmido
## [393]	Mata de Galeria	Campo Seco	Cerrado	Mata de Galeria
## [397]	Campo Úmido	Campo Seco	Cerrado	Campo Úmido
## [401]	Cerrado	Campo Seco	Campo Seco	Mata de Galeria
## [405]	Campo Seco	Campo Úmido	Campo Úmido	Campo Seco
## [409]	Cerrado	Campo Seco	Campo Seco	Mata de Galeria

```

## [413] Campo Seco      Cerrado      Mata de Galeria Cerrado
## [417] Cerrado          Cerrado      Cerrado          Cerrado
## [421] Campo Seco      Cerrado      Cerrado          Cerrado
## [425] Campo Seco      Mata de Galeria Cerrado          Cerrado
## [429] Campo Seco      Cerrado      Cerrado          Cana-de-Açúcar
## [433] Mata de Galeria Cana-de-Açúcar Campo Seco        Campo Seco
## [437] Cana-de-Açúcar  Campo Seco    Cerrado          Mata de Galeria
## [441] Cerrado          Campo Seco    Cerrado          Cerrado
## [445] Campo Seco      Campo Seco    Mata de Galeria  Cana-de-Açúcar
## [449] Campo Seco      Campo Úmido   Mata de Galeria  Cerrado
## [453] Campo Seco      Cerrado       Campo Seco       Campo Seco
## [457] Campo Seco      Campo Úmido   Mata de Galeria  Campo Seco
## [461] Campo Seco      Campo Úmido   Mata de Galeria  Campo Úmido
## [465] Campo Úmido     Mata de Galeria Campo Seco        Campo Úmido
## [469] Campo Úmido     Campo Seco    Campo Úmido      Campo Seco
## [473] Campo Seco      Cerrado       Campo Seco       Cerrado
## [477] Campo Seco      Campo Seco    Cerrado          Campo Seco
## [481] Cana-de-Açúcar  Campo Seco    Campo Úmido      Campo Úmido
## [485] Campo Úmido     Campo Úmido   Campo Seco        Campo Úmido
## [489] Cerrado          Cerrado       Cerrado          Milho - Safrinha
## [493] Campo Seco      Milho - Safrinha Milho - Safrinha Milho - Safrinha
## [497] Milho - Safrinha Milho - Safrinha Milho - Safrinha Milho - Safrinha
## [501] Milho - Safrinha Milho - Safrinha Milho - Safrinha Milho - Safrinha
## [505] Milho - Safrinha Milho - Safrinha Milho - Safrinha Milho - Safrinha
## [509] Milho - Safrinha Campo Seco      Campo Seco        Cerrado
## [513] Campo Seco      Campo Seco     Mata de Galeria   Milho - Safrinha
## [517] Milho - Safrinha Milho - Safrinha Cerrado           Cerrado
## [521] Cerrado          Cerrado       Campo Seco        Campo Seco
## [525] Campo Seco      Cerrado       Milho - Safrinha Milho - Safrinha
## [529] Milho - Safrinha Milho - Safrinha Milho - Safrinha Milho - Safrinha
## [533] Milho - Safrinha Milho - Safrinha Milho - Safrinha Milho - Safrinha
## [537] Milho - Safrinha Milho - Safrinha Milho - Safrinha
## 6 Levels: Campo Seco Campo Úmido Cana-de-Açúcar ... Milho - Safrinha

length(levels(map.olhos.leste$uso_terra))

## [1] 6

length(levels(map.olhos.leste$classe))

## [1] 8

map.olhos.leste$data.colheita[!is.na(map.olhos.leste$data.colheita)]

## [1] "2019-08-05" "2019-08-05" "2019-08-05" "2019-07-31" "2019-08-05"
## [6] "2019-07-20" "2019-08-05"

str(map.olhos.leste)

## Classes 'sf' and 'data.frame': 539 obs. of 8 variables:
## $ uso_terra : Factor w/ 6 levels "Campo Seco","Campo Úmido",...: 2 1 1 1 1 1 2 2 2 5 ...
## $ DATA_COLHE : Date, format: NA NA ...
## $ geometry :sfc_MULTIPOLYGON of length 539; first list element: List of 1
## ..$ :List of 1
## .. ..$ : num [1:5, 1:2] 298293 298283 298283 298293 298293 ...
## ..- attr(*, "class")= chr "XY" "MULTIPOLYGON" "sfg"
## $ data.colheita: Date, format: NA NA ...

```

```
## $ julian      : num  NA NA NA NA NA NA NA NA NA NA ...
##   ..- attr(*, "origin")= Date, format: "1970-01-01"
## $ name        : chr  "Olhos Leste" "Olhos Leste" "Olhos Leste" "Olhos Leste" ...
## $ classe      : Factor w/ 8 levels "Campo Seco","Campo Úmido",...: 2 1 1 1 1 1 2 2 2 5 ...
## $ classe.num   : num  2 1 1 1 1 1 2 2 2 5 ...
## - attr(*, "sf_column")= chr "geometry"
## - attr(*, "agr")= Factor w/ 3 levels "constant","aggregate",...: NA NA NA NA NA NA NA NA
##   ..- attr(*, "names")= chr  "uso_terra" "DATA_COLHE" "data.colheita" "julian" ...
```

```
# olhos oeste
```

```
map.olhos.oeste <- sf::st_read(dsn = 'maps/Olhos_Oeste', layer = 'olhos_oeste') %>%
  dplyr::rename(uso_terra = CLASS_B_19) %>%
  dplyr::mutate(data.colheita = lubridate::ymd(NA) + days(1),
    julian = julian(data.colheita),
    name = 'Olhos Oeste',
    classe = factor(uso_terra, levels = lu.classes),
    classe.num = factor(classe, levels = lu.classes, labels = 1:length(lu.classes)) %>% as.numeric())
```

```
## Reading layer `olhos_oeste' from data source `C:\Users\bebs0001\Documents\Movimento_Queixadas_PNEmas'
## Simple feature collection with 778 features and 1 field
## geometry type:  MULTIPOLYGON
## dimension:      XY
## bbox:           xmin: 286705.4 ymin: 7970904 xmax: 296580.6 ymax: 7980844
## epsg (SRID):    NA
## proj4string:     +proj=utm +zone=22 +south +ellps=GRS80 +units=m +no_defs
```

```
# Check
```

```
map.olhos.oeste$uso_terra
```

```
## [1] Campo Seco          Campo Seco          Cerrado
## [4] Campo Seco          Campo Seco          Campo Seco
## [7] Campo Seco          Campo Seco          Campo Seco
## [10] Campo Seco          Mata de Galeria     Campo Seco
## [13] Campo Úmido         Campo Seco          Campo Seco
## [16] Campo Seco          Campo Seco          Cerrado
## [19] Campo Úmido         Campo Úmido         Campo Seco
## [22] Campo Seco          Campo Seco          Campo Seco
## [25] Campo Seco          Campo Seco          Campo Seco
## [28] Campo Seco          Campo Seco          Campo Seco
## [31] Campo Úmido         Campo Úmido         Campo Seco
## [34] Campo Seco          Campo Seco          Campo Úmido
## [37] Campo Seco          Campo Úmido         Cerrado
## [40] Cerrado             Campo Úmido         Campo Úmido
## [43] Campo Seco          Campo Seco          Campo Seco
## [46] Campo Seco          Cerrado             Campo Seco
## [49] Campo Úmido         Campo Seco          Campo Seco
## [52] Campo Seco          Campo Seco          Campo Seco
## [55] Campo Úmido         Campo Seco          Campo Seco
## [58] Mata de Galeria     Campo Seco          Campo Úmido
## [61] Campo Úmido         Campo Seco          Campo Úmido
## [64] Campo Seco          Campo Seco          Campo Seco
## [67] Campo Úmido         Campo Úmido         Campo Úmido
## [70] Campo Úmido         Campo Seco          Campo Úmido
## [73] Campo Seco          Campo Seco          Campo Seco
## [76] Campo Seco          Campo Úmido         Campo Seco
## [79] Campo Seco          Campo Úmido         Campo Úmido
```


## [82]	Campo Seco	Mata de Galeria	Campo Seco
## [85]	Campo Seco	Campo Seco	Campo Seco
## [88]	Campo Seco	Campo Seco	Campo Seco
## [91]	Campo Seco	Campo Seco	Campo Úmido
## [94]	Campo Seco	Campo Úmido	Campo Seco
## [97]	Campo Seco	Campo Seco	Campo Seco
## [100]	Campo Seco	Campo Seco	Cerrado
## [103]	Campo Seco	Campo Seco	Campo Seco
## [106]	Campo Úmido	Campo Seco	Campo Seco
## [109]	Campo Seco	Campo Seco	Campo Seco
## [112]	Campo Seco	Campo Seco	Campo Seco
## [115]	Campo Úmido	Campo Seco	Cerrado
## [118]	Campo Seco	Campo Seco	Campo Seco
## [121]	Cerrado	Campo Seco	Campo Seco
## [124]	Campo Seco	Campo Seco	Cerrado
## [127]	Campo Seco	Mata de Galeria	Campo Seco
## [130]	Campo Seco	Campo Seco	Campo Seco
## [133]	Cerrado	Campo Seco	Campo Seco
## [136]	Campo Seco	Campo Seco	Campo Úmido
## [139]	Campo Seco	Campo Seco	Campo Seco
## [142]	Campo Seco	Campo Seco	Campo Úmido
## [145]	Campo Seco	Campo Úmido	Campo Seco
## [148]	Campo Seco	Campo Seco	Campo Seco
## [151]	Campo Seco	Campo Seco	Campo Seco
## [154]	Campo Seco	Campo Seco	Campo Seco
## [157]	Campo Seco	Mata de Galeria	Campo Seco
## [160]	Campo Seco	Campo Seco	Campo Seco
## [163]	Campo Seco	Campo Seco	Campo Seco
## [166]	Campo Úmido	Campo Seco	Campo Seco
## [169]	Campo Seco	Campo Seco	Campo Seco
## [172]	Campo Úmido	Campo Úmido	Campo Seco
## [175]	Campo Seco	Campo Seco	Campo Seco
## [178]	Campo Seco	Campo Seco	Campo Seco
## [181]	Campo Seco	Campo Seco	Cerrado
## [184]	Campo Seco	Campo Seco	Campo Úmido
## [187]	Campo Seco	Campo Seco	Campo Úmido
## [190]	Mata de Galeria	Campo Úmido	Campo Seco
## [193]	Campo Úmido	Campo Seco	Campo Seco
## [196]	Campo Seco	Campo Seco	Campo Seco
## [199]	Campo Seco	Campo Úmido	Campo Seco
## [202]	Campo Seco	Campo Seco	Campo Seco
## [205]	Campo Seco	Campo Seco	Campo Seco
## [208]	Campo Seco	Campo Seco	Campo Seco
## [211]	Campo Seco	Campo Seco	Campo Seco
## [214]	Campo Seco	Campo Seco	Campo Seco
## [217]	Campo Seco	Campo Seco	Campo Seco
## [220]	Campo Seco	Cerrado	Campo Seco
## [223]	Campo Seco	Campo Úmido	Campo Seco
## [226]	Cerrado	Campo Seco	Campo Úmido
## [229]	Cerrado	Cerrado	Campo Seco
## [232]	Campo Seco	Campo Seco	Campo Seco
## [235]	Campo Seco	Campo Úmido	Campo Seco
## [238]	Campo Seco	Campo Seco	Campo Seco
## [241]	Campo Seco	Campo Seco	Campo Seco

## [244]	Campo Seco	Campo Seco	Campo Seco
## [247]	Campo Seco	Campo Seco	Campo Seco
## [250]	Campo Seco	Campo Seco	Campo Seco
## [253]	Campo Seco	Campo Seco	Campo Seco
## [256]	Campo Seco	Campo Seco	Campo Seco
## [259]	Campo Seco	Campo Seco	Campo Seco
## [262]	Campo Seco	Campo Seco	Campo Seco
## [265]	Campo Seco	Campo Seco	Campo Seco
## [268]	Campo Seco	Campo Seco	Campo Seco
## [271]	Campo Seco	Campo Seco	Campo Seco
## [274]	Campo Seco	Campo Seco	Campo Seco
## [277]	Campo Seco	Campo Seco	Campo Seco
## [280]	Campo Seco	Campo Seco	Campo Seco
## [283]	Campo Seco	Campo Seco	Campo Seco
## [286]	Campo Seco	Campo Seco	Campo Seco
## [289]	Campo Seco	Campo Seco	Campo Seco
## [292]	Campo Seco	Campo Seco	Campo Seco
## [295]	Campo Seco	Campo Seco	Campo Seco
## [298]	Campo Seco	Campo Seco	Campo Seco
## [301]	Campo Seco	Campo Seco	Campo Seco
## [304]	Campo Seco	Campo Seco	Campo Seco
## [307]	Campo Seco	Campo Seco	Campo Seco
## [310]	Campo Seco	Campo Seco	Campo Seco
## [313]	Campo Seco	Campo Seco	Campo Seco
## [316]	Campo Seco	Campo Seco	Campo Seco
## [319]	Campo Seco	Campo Seco	Campo Seco
## [322]	Campo Seco	Campo Seco	Campo Seco
## [325]	Campo Seco	Campo Seco	Campo Seco
## [328]	Campo Seco	Campo Seco	Campo Seco
## [331]	Cerrado	Campo Seco	Campo Seco
## [334]	Campo Seco	Campo Seco	Campo Seco
## [337]	Campo Seco	Campo Seco	Campo Úmido
## [340]	Campo Seco	Campo Úmido	Cerrado
## [343]	Campo Seco	Campo Seco	Campo Seco
## [346]	Campo Seco	Campo Seco	Campo Seco
## [349]	Campo Seco	Campo Seco	Campo Seco
## [352]	Campo Seco	Campo Seco	Campo Seco
## [355]	Cerrado	Campo Seco	Campo Seco
## [358]	Campo Seco	Campo Seco	Campo Seco
## [361]	Milho - Safrinha	Não Disponível - Vala	Campo Seco
## [364]	Campo Seco	Campo Seco	Mata de Galeria
## [367]	Campo Seco	Campo Seco	Campo Seco
## [370]	Não Disponível - Vala	Campo Seco	Campo Seco
## [373]	Não Disponível - Vala	Campo Seco	Campo Seco
## [376]	Campo Seco	Campo Seco	Campo Seco
## [379]	Campo Seco	Campo Seco	Campo Seco
## [382]	Campo Seco	Campo Seco	Campo Seco
## [385]	Campo Seco	Campo Seco	Campo Seco
## [388]	Campo Seco	Campo Seco	Campo Seco
## [391]	Campo Seco	Campo Seco	Campo Seco
## [394]	Campo Seco	Campo Seco	Campo Seco
## [397]	Campo Seco	Campo Seco	Campo Seco
## [400]	Campo Seco	Campo Seco	Campo Seco
## [403]	Campo Seco	Campo Seco	Campo Seco

## [406]	Milho - Safrinha	Campo Seco	Milho - Safrinha
## [409]	Campo Seco	Campo Seco	Campo Seco
## [412]	Campo Seco	Campo Seco	Campo Seco
## [415]	Campo Seco	Campo Seco	Campo Seco
## [418]	Campo Seco	Campo Seco	Campo Seco
## [421]	Milho - Safrinha	Campo Seco	Campo Seco
## [424]	Cana-de-Açúcar	Campo Seco	Campo Seco
## [427]	Campo Seco	Campo Seco	Campo Seco
## [430]	Campo Seco	Não Disponível - Vala	Campo Seco
## [433]	Campo Seco	Campo Seco	Campo Seco
## [436]	Campo Seco	Campo Seco	Campo Seco
## [439]	Campo Seco	Campo Seco	Milho - Safrinha
## [442]	Campo Seco	Campo Seco	Milho - Safrinha
## [445]	Milho - Safrinha	Campo Seco	Milho - Safrinha
## [448]	Milho - Safrinha	Campo Seco	Milho - Safrinha
## [451]	Cana-de-Açúcar	Milho - Safrinha	Milho - Safrinha
## [454]	Milho - Safrinha	Milho - Safrinha	Milho - Safrinha
## [457]	Milho - Safrinha	Milho - Safrinha	Milho - Safrinha
## [460]	Mata de Galeria	Milho - Safrinha	Milho - Safrinha
## [463]	Milho - Safrinha	Milho - Safrinha	Milho - Safrinha
## [466]	Milho - Safrinha	Milho - Safrinha	Milho - Safrinha
## [469]	Milho - Safrinha	Cerrado	Milho - Safrinha
## [472]	Campo Seco	Campo Seco	Campo Seco
## [475]	Milho - Safrinha	Campo Seco	Campo Seco
## [478]	Campo Seco	Milho - Safrinha	Milho - Safrinha
## [481]	Não Disponível - Vala	Campo Seco	Cana-de-Açúcar
## [484]	Cerrado	Milho - Safrinha	Campo Úmido
## [487]	Mata de Galeria	Campo Seco	Milho - Safrinha
## [490]	Cerrado	Cerrado	Cerrado
## [493]	Campo Seco	Campo Seco	Campo Seco
## [496]	Campo Úmido	Campo Seco	Campo Seco
## [499]	Campo Seco	Milho - Safrinha	Cerrado
## [502]	Campo Seco	Campo Seco	Campo Seco
## [505]	Campo Seco	Campo Seco	Cerrado
## [508]	Mata de Galeria	Cerrado	Milho - Safrinha
## [511]	Milho - Safrinha	Campo Seco	Campo Úmido
## [514]	Cerrado	Campo Seco	Milho - Safrinha
## [517]	Milho - Safrinha	Campo Seco	Campo Úmido
## [520]	Milho - Safrinha	Mata de Galeria	Campo Úmido
## [523]	Cerrado	Campo Úmido	Campo Úmido
## [526]	Campo Seco	Campo Úmido	Cerrado
## [529]	Campo Úmido	Milho - Safrinha	Cerrado
## [532]	Campo Úmido	Campo Seco	Campo Úmido
## [535]	Milho - Safrinha	Campo Seco	Milho - Safrinha
## [538]	Milho - Safrinha	Cerrado	Mata de Galeria
## [541]	Campo Seco	Milho - Safrinha	Campo Seco
## [544]	Campo Úmido	Campo Seco	Mata de Galeria
## [547]	Campo Seco	Campo Seco	Campo Seco
## [550]	Milho - Safrinha	Campo Seco	Cerrado
## [553]	Milho - Safrinha	Campo Seco	Campo Seco
## [556]	Campo Úmido	Campo Úmido	Milho - Safrinha
## [559]	Cerrado	Campo Úmido	Mata de Galeria
## [562]	Campo Úmido	Campo Seco	Campo Úmido
## [565]	Milho - Safrinha	Cerrado	Milho - Safrinha

## [568]	Milho - Safrinha	Milho - Safrinha	Campo Úmido
## [571]	Cerrado	Milho - Safrinha	Milho - Safrinha
## [574]	Campo Seco	Campo Úmido	Cerrado
## [577]	Milho - Safrinha	Mata de Galeria	Mata de Galeria
## [580]	Campo Úmido	Campo Úmido	Campo Úmido
## [583]	Campo Úmido	Campo Seco	Campo Úmido
## [586]	Milho - Safrinha	Milho - Safrinha	Campo Seco
## [589]	Milho - Safrinha	Cerrado	Milho - Safrinha
## [592]	Milho - Safrinha	Campo Seco	Campo Úmido
## [595]	Campo Úmido	Campo Seco	Campo Úmido
## [598]	Campo Úmido	Milho - Safrinha	Milho - Safrinha
## [601]	Milho - Safrinha	Campo Úmido	Campo Úmido
## [604]	Cerrado	Campo Seco	Campo Úmido
## [607]	Campo Seco	Campo Úmido	Campo Úmido
## [610]	Milho - Safrinha	Campo Úmido	Campo Úmido
## [613]	Campo Seco	Milho - Safrinha	Milho - Safrinha
## [616]	Campo Seco	Campo Seco	Campo Seco
## [619]	Cerrado	Campo Úmido	Cerrado
## [622]	Milho - Safrinha	Campo Úmido	Milho - Safrinha
## [625]	Campo Úmido	Campo Úmido	Campo Úmido
## [628]	Milho - Safrinha	Campo Seco	Campo Seco
## [631]	Campo Úmido	Cerrado	Cerrado
## [634]	Milho - Safrinha	Campo Seco	Campo Úmido
## [637]	Campo Úmido	Campo Úmido	Campo Seco
## [640]	Campo Seco	Campo Seco	Campo Seco
## [643]	Milho - Safrinha	Milho - Safrinha	Cana-de-Açúcar
## [646]	Campo Seco	Campo Seco	Milho - Safrinha
## [649]	Mata de Galeria	Mata de Galeria	Milho - Safrinha
## [652]	Não Disponível - Vala	Milho - Safrinha	Cerrado
## [655]	Campo Seco	Milho - Safrinha	Campo Úmido
## [658]	Campo Seco	Campo Úmido	Milho - Safrinha
## [661]	Milho - Safrinha	Milho - Safrinha	Milho - Safrinha
## [664]	Milho - Safrinha	Campo Seco	Campo Seco
## [667]	Campo Seco	Campo Seco	Campo Seco
## [670]	Mata de Galeria	Campo Seco	Milho - Safrinha
## [673]	Mata de Galeria	Campo Seco	Cerrado
## [676]	Mata de Galeria	Campo Seco	Cerrado
## [679]	Campo Seco	Campo Seco	Campo Úmido
## [682]	Milho - Safrinha	Milho - Safrinha	Campo Seco
## [685]	Milho - Safrinha	Campo Seco	Campo Seco
## [688]	Campo Seco	Campo Úmido	Campo Seco
## [691]	Campo Seco	Campo Úmido	Campo Seco
## [694]	Mata de Galeria	Campo Seco	Campo Úmido
## [697]	Cerrado	Campo Úmido	Campo Seco
## [700]	Campo Úmido	Milho - Safrinha	Cerrado
## [703]	Campo Seco	Cerrado	Campo Úmido
## [706]	Mata de Galeria	Campo Úmido	Campo Seco
## [709]	Milho - Safrinha	Campo Seco	Campo Úmido
## [712]	Mata de Galeria	Campo Seco	Milho - Safrinha
## [715]	Cerrado	Cerrado	Campo Seco
## [718]	Campo Seco	Campo Seco	Campo Seco
## [721]	Campo Seco	Cerrado	Mata de Galeria
## [724]	Campo Úmido	Campo Úmido	Cerrado
## [727]	Cerrado	Cerrado	Campo Seco

```

## [730] Milho - Safrinha      Milho - Safrinha      Campo Seco
## [733] Campo Seco                Cerrado               Campo Úmido
## [736] Campo Seco                Campo Seco            Campo Seco
## [739] Campo Seco                Campo Seco            Campo Úmido
## [742] Milho - Safrinha          Campo Seco            Campo Seco
## [745] Campo Seco                Campo Seco            Campo Seco
## [748] Campo Seco                Campo Úmido           Campo Úmido
## [751] Campo Seco                Campo Seco            Campo Seco
## [754] Campo Seco                Campo Seco            Campo Seco
## [757] Mata de Galeria           Campo Seco            Cerrado
## [760] Campo Seco                Campo Úmido           Milho - Safrinha
## [763] Milho - Safrinha          Campo Seco            Milho - Safrinha
## [766] Milho - Safrinha          Milho - Safrinha      Campo Úmido
## [769] Campo Seco                Milho - Safrinha      Campo Úmido
## [772] Campo Seco                Milho - Safrinha      Campo Úmido
## [775] Campo Seco                Campo Seco            Campo Seco
## [778] Campo Seco
## 7 Levels: Campo Seco Campo Úmido Cana-de-Açúcar ... Não Disponível - Vala
length(levels(map.olhos.oeste$uso_terra))

## [1] 7
length(levels(map.olhos.oeste$classe))

## [1] 8
map.olhos.oeste$data.colheita[!is.na(map.olhos.oeste$data.colheita)]

## Date of length 0
str(map.olhos.oeste)

## Classes 'sf' and 'data.frame': 778 obs. of 7 variables:
## $ uso_terra : Factor w/ 7 levels "Campo Seco","Campo Úmido",...: 1 1 4 1 1 1 1 1 1 1 ...
## $ geometry :sfc_MULTIPOLYGON of length 778; first list element: List of 1
## ..$ :List of 1
## .. ..$ : num [1:4, 1:2] 291505 291495 291505 291505 7980836 ...
## ..- attr(*, "class")= chr "XY" "MULTIPOLYGON" "sfg"
## $ data.colheita: Date, format: NA NA ...
## $ julian : num NA NA NA NA NA NA NA NA NA NA NA ...
## ..- attr(*, "origin")= Date, format: "1970-01-01"
## $ name : chr "Olhos Oeste" "Olhos Oeste" "Olhos Oeste" "Olhos Oeste" ...
## $ classe : Factor w/ 8 levels "Campo Seco","Campo Úmido",...: 1 1 4 1 1 1 1 1 1 1 ...
## $ classe.num : num 1 1 4 1 1 1 1 1 1 1 ...
## - attr(*, "sf_column")= chr "geometry"
## - attr(*, "agr")= Factor w/ 3 levels "constant","aggregate",...: NA NA NA NA NA NA
## ..- attr(*, "names")= chr "uso_terra" "data.colheita" "julian" "name" ...

# pontal
map.pontal <- sf::st_read(dsn = 'maps/Pontal', layer = 'pontal') %>%
  dplyr::rename(uso_terra = CLASS_A_19) %>%
  dplyr::mutate(data.colheita = lubridate::ymd(DATA_COLHE) + days(1),
    julian = julian(data.colheita),
    name = 'Pontal',
    classe = factor(uso_terra, levels = lu.classes),
    classe.num = factor(classe, levels = lu.classes, labels = 1:length(lu.classes)) %>% as.numeric())

```

```
## Reading layer `pontal' from data source `C:\Users\bebs0001\Documents\Movimento_Queixadas_PNEmas\maps'
## Simple feature collection with 370 features and 2 fields
## geometry type:  MULTIPOLYGON
## dimension:      XY
## bbox:           xmin: 285520.3 ymin: 7966430 xmax: 291981.5 ymax: 7972519
## epsg (SRID):    NA
## proj4string:     +proj=utm +zone=22 +south +ellps=GRS80 +units=m +no_defs
```

```
# Check
```

```
map.pontal$uso_terra
```

##	[1]	Campo Seco	Campo Seco	Campo Seco
##	[4]	Campo Seco	Campo Seco	Campo Úmido
##	[7]	Campo Seco	Campo Seco	Campo Seco
##	[10]	Campo Seco	Campo Seco	Campo Úmido
##	[13]	Cana-de-Açúcar	Campo Seco	Campo Seco
##	[16]	Campo Seco	Campo Seco	Mata de Galeria
##	[19]	Campo Seco	Campo Úmido	Campo Seco
##	[22]	Cerrado	Campo Úmido	Não Disponível - Vala
##	[25]	Campo Úmido	Campo Úmido	Cerrado
##	[28]	Campo Úmido	Cerrado	Campo Úmido
##	[31]	Campo Seco	Campo Seco	Cana-de-Açúcar
##	[34]	Campo Seco	Campo Seco	Mata de Galeria
##	[37]	Campo Úmido	Campo Seco	Milho - Safrinha
##	[40]	Campo Úmido	Cerrado	Campo Úmido
##	[43]	Campo Seco	Mata de Galeria	Campo Seco
##	[46]	Cerrado	Milho - Safrinha	Milho - Safrinha
##	[49]	Mata de Galeria	Cerrado	Mata de Galeria
##	[52]	Campo Seco	Mata de Galeria	Campo Úmido
##	[55]	Campo Úmido	Campo Seco	Campo Úmido
##	[58]	Mata de Galeria	Campo Úmido	Mata de Galeria
##	[61]	Campo Seco	Mata de Galeria	Mata de Galeria
##	[64]	Mata de Galeria	Mata de Galeria	Campo Seco
##	[67]	Mata de Galeria	Mata de Galeria	Campo Seco
##	[70]	Mata de Galeria	Mata de Galeria	Mata de Galeria
##	[73]	Mata de Galeria	Milho - Safrinha	Milho - Safrinha
##	[76]	Cerrado	Campo Úmido	Mata de Galeria
##	[79]	Cerrado	Campo Seco	Campo Úmido
##	[82]	Campo Seco	Campo Úmido	Cerrado
##	[85]	Campo Seco	Cerrado	Campo Seco
##	[88]	Campo Seco	Milho - Safrinha	Milho - Safrinha
##	[91]	Milho - Safrinha	Milho - Safrinha	Milho - Safrinha
##	[94]	Campo Úmido	Campo Seco	Milho - Safrinha
##	[97]	Campo Seco	Mata de Galeria	Cerrado
##	[100]	Campo Seco	Campo Úmido	Campo Seco
##	[103]	Campo Seco	Campo Seco	Campo Seco
##	[106]	Campo Seco	Campo Úmido	Campo Seco
##	[109]	Campo Úmido	Campo Úmido	Campo Seco
##	[112]	Cana-de-Açúcar	Cerrado	Campo Seco
##	[115]	Cerrado	Cerrado	Cerrado
##	[118]	Cerrado	Cerrado	Milho - Safrinha
##	[121]	Cerrado	Milho - Safrinha	Milho - Safrinha
##	[124]	Campo Úmido	Campo Úmido	Cerrado
##	[127]	Campo Úmido	Cerrado	Campo Seco
##	[130]	Campo Seco	Campo Seco	Campo Seco

## [133]	Cerrado	Campo Seco	Mata de Galeria
## [136]	Milho - Safrinha	Cerrado	Cerrado
## [139]	Campo Úmido	Milho - Safrinha	Campo Seco
## [142]	Cerrado	Cerrado	Cerrado
## [145]	Cerrado	Campo Seco	Cerrado
## [148]	Cerrado	Cerrado	Cerrado
## [151]	Cerrado	Campo Seco	Cerrado
## [154]	Cerrado	Campo Úmido	Campo Úmido
## [157]	Campo Úmido	Cerrado	Campo Seco
## [160]	Cerrado	Campo Seco	Cerrado
## [163]	Cerrado	Cerrado	Cerrado
## [166]	Campo Úmido	Campo Seco	Cerrado
## [169]	Cerrado	Campo Úmido	Cerrado
## [172]	Campo Úmido	Campo Seco	Cerrado
## [175]	Campo Seco	Cerrado	Campo Úmido
## [178]	Cerrado	Cerrado	Cerrado
## [181]	Campo Seco	Cana-de-Açúcar	Cerrado
## [184]	Campo Seco	Cerrado	Campo Seco
## [187]	Milho - Safrinha	Campo Úmido	Milho - Safrinha
## [190]	Campo Seco	Campo Seco	Cerrado
## [193]	Cerrado	Milho - Safrinha	Cerrado
## [196]	Cerrado	Cerrado	Cerrado
## [199]	Cerrado	Cerrado	Cerrado
## [202]	Milho - Safrinha	Milho - Safrinha	Cerrado
## [205]	Cerrado	Cerrado	Campo Úmido
## [208]	Cana-de-Açúcar	Campo Seco	Campo Úmido
## [211]	Campo Úmido	Campo Úmido	Cerrado
## [214]	Campo Úmido	Campo Úmido	Mata de Galeria
## [217]	Campo Úmido	Cerrado	Campo Úmido
## [220]	Cerrado	Cerrado	Mata de Galeria
## [223]	Cerrado	Cerrado	Mata de Galeria
## [226]	Cerrado	Mata de Galeria	Cerrado
## [229]	Campo Úmido	Cerrado	Mata de Galeria
## [232]	Campo Úmido	Mata de Galeria	Campo Úmido
## [235]	Cerrado	Campo Úmido	Cerrado
## [238]	Cerrado	Campo Úmido	Campo Úmido
## [241]	Cerrado	Campo Úmido	Cerrado
## [244]	Campo Seco	Cerrado	Campo Úmido
## [247]	Campo Seco	Cerrado	Campo Úmido
## [250]	Cana-de-Açúcar	Campo Úmido	Mata de Galeria
## [253]	Cerrado	Cerrado	Milho - Safrinha
## [256]	Cerrado	Cerrado	Cerrado
## [259]	Campo Úmido	Campo Seco	Cana-de-Açúcar
## [262]	Campo Úmido	Campo Úmido	Milho - Safrinha
## [265]	Cana-de-Açúcar	Cerrado	Campo Úmido
## [268]	Campo Seco	Cerrado	Campo Úmido
## [271]	Cerrado	Milho - Safrinha	Campo Úmido
## [274]	Campo Úmido	Campo Seco	Campo Úmido
## [277]	Campo Úmido	Campo Úmido	Campo Úmido
## [280]	Campo Úmido	Campo Úmido	Cerrado
## [283]	Campo Úmido	Campo Úmido	Cerrado
## [286]	Milho - Safrinha	Cerrado	Cerrado
## [289]	Campo Úmido	Cana-de-Açúcar	Mata de Galeria
## [292]	Campo Úmido	Campo Seco	Campo Úmido

```
## [295] Campo Úmido          Cerrado          Campo Úmido
## [298] Campo Úmido          Cerrado          Campo Seco
## [301] Campo Úmido          Cerrado          Mata de Galeria
## [304] Cerrado              Campo Úmido      Cerrado
## [307] Campo Úmido          Cerrado          Mata de Galeria
## [310] Campo Úmido          Mata de Galeria  Cerrado
## [313] Cerrado              Cerrado          Cerrado
## [316] Mata de Galeria      Cana-de-Açúcar   Cerrado
## [319] Cerrado              Campo Úmido      Cerrado
## [322] Cerrado              Campo Úmido      Cerrado
## [325] Campo Seco           Campo Seco        Campo Úmido
## [328] Cerrado              Cerrado          Campo Úmido
## [331] Mata de Galeria      Cerrado          Campo Úmido
## [334] Campo Úmido          Campo Seco        Campo Seco
## [337] Campo Úmido          Cana-de-Açúcar   Campo Seco
## [340] Cana-de-Açúcar       Cana-de-Açúcar   Milho - Safrinha
## [343] Cana-de-Açúcar       Milho - Safrinha Cana-de-Açúcar
## [346] Cerrado              Cerrado          Cana-de-Açúcar
## [349] Cana-de-Açúcar       Cana-de-Açúcar   Solo Exposto
## [352] Cerrado              Cerrado          Milho - Safrinha
## [355] Milho - Safrinha     Milho - Safrinha Milho - Safrinha
## [358] Cerrado              Cerrado          Cerrado
## [361] Milho - Safrinha     Milho - Safrinha Milho - Safrinha
## [364] Milho - Safrinha     Milho - Safrinha Milho - Safrinha
## [367] Milho - Safrinha     Milho - Safrinha Cana-de-Açúcar
## [370] Cana-de-Açúcar
## 8 Levels: Campo Seco Campo Úmido Cana-de-Açúcar ... Solo Exposto
```

```
length(levels(map.pontal$uso_terra))
```

```
## [1] 8
```

```
length(levels(map.pontal$classe))
```

```
## [1] 8
```

```
map.pontal$data.colheita[!is.na(map.pontal$data.colheita)]
```

```
## [1] "2019-06-16" "2019-07-04" "2019-07-28" "2019-06-24" "2019-06-28"
## [6] "2019-06-27" "2019-06-30" "2019-06-30" "2019-06-30" "2019-06-30"
## [11] "2019-07-10" "2019-07-23" "2019-07-31"
```

```
str(map.pontal)
```

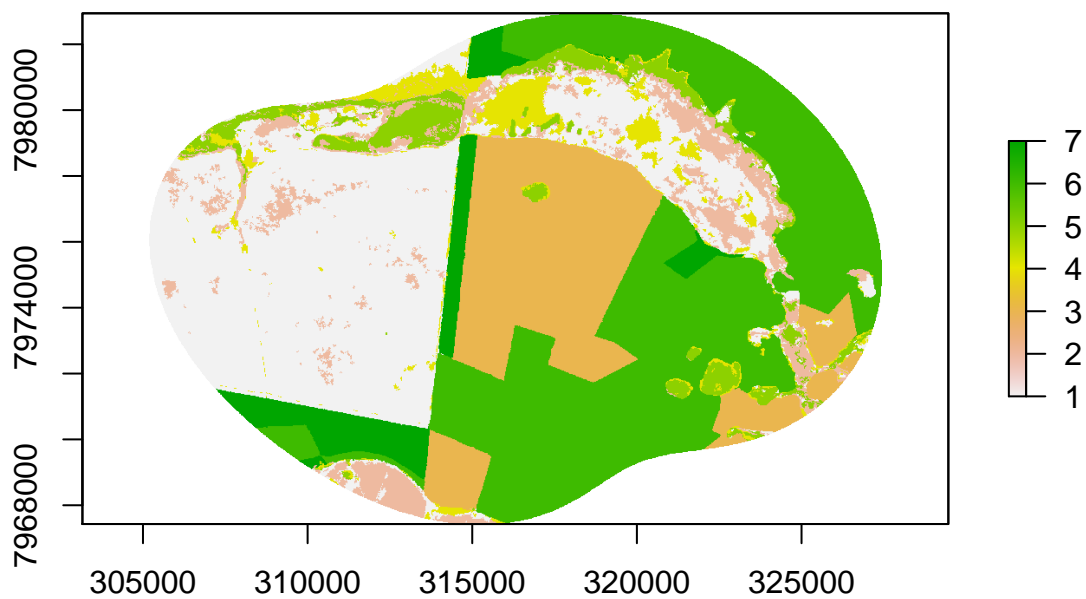
```
## Classes 'sf' and 'data.frame': 370 obs. of 8 variables:
## $ uso_terra : Factor w/ 8 levels "Campo Seco","Campo Úmido",...: 1 1 1 1 1 2 1 1 1 1 ...
## $ DATA_COLHE : Date, format: NA NA ...
## $ geometry :sfc_MULTIPOLYGON of length 370; first list element: List of 1
## ..$ :List of 1
## .. ..$ : num [1:25, 1:2] 289541 289541 289521 289521 289501 ...
## ..- attr(*, "class")= chr "XY" "MULTIPOLYGON" "sfg"
## $ data.colheita: Date, format: NA NA ...
## $ julian : num NA NA NA NA NA NA NA NA NA NA NA ...
## ..- attr(*, "origin")= Date, format: "1970-01-01"
## $ name : chr "Pontal" "Pontal" "Pontal" "Pontal" ...
## $ classe : Factor w/ 8 levels "Campo Seco","Campo Úmido",...: 1 1 1 1 1 2 1 1 1 1 ...
## $ classe.num : num 1 1 1 1 1 2 1 1 1 1 ...
```



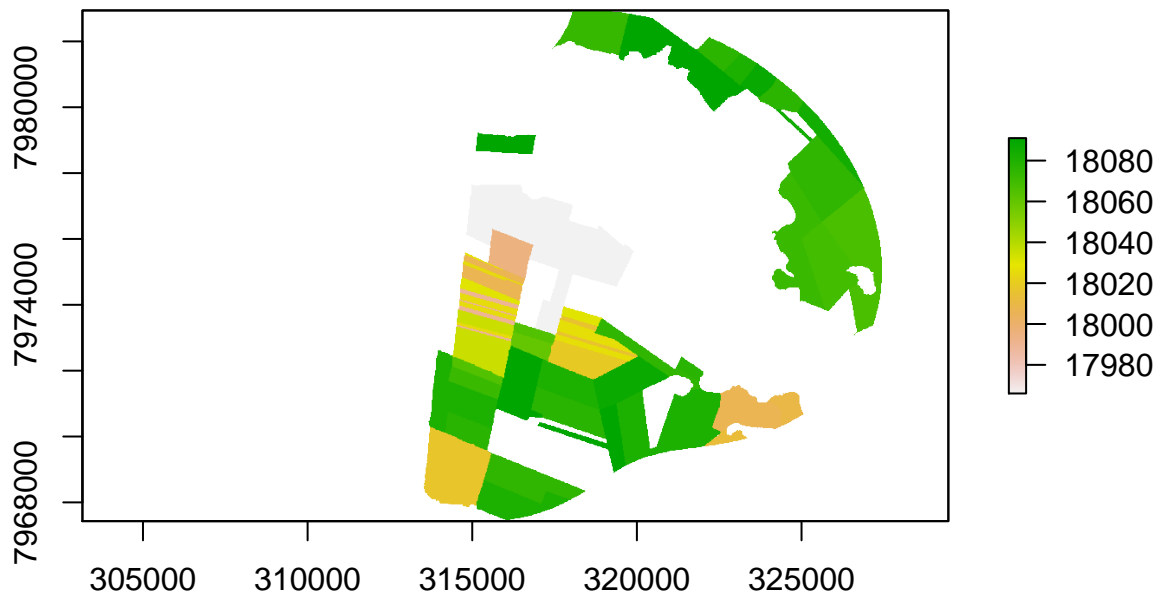
```
## - attr(*, "sf_column")= chr "geometry"
## - attr(*, "agr")= Factor w/ 3 levels "constant","aggregate",...: NA NA NA NA NA NA NA
##   ..- attr(*, "names")= chr  "uso_terra" "DATA_COLHE" "data.colheita" "julian" ...

# rasterize

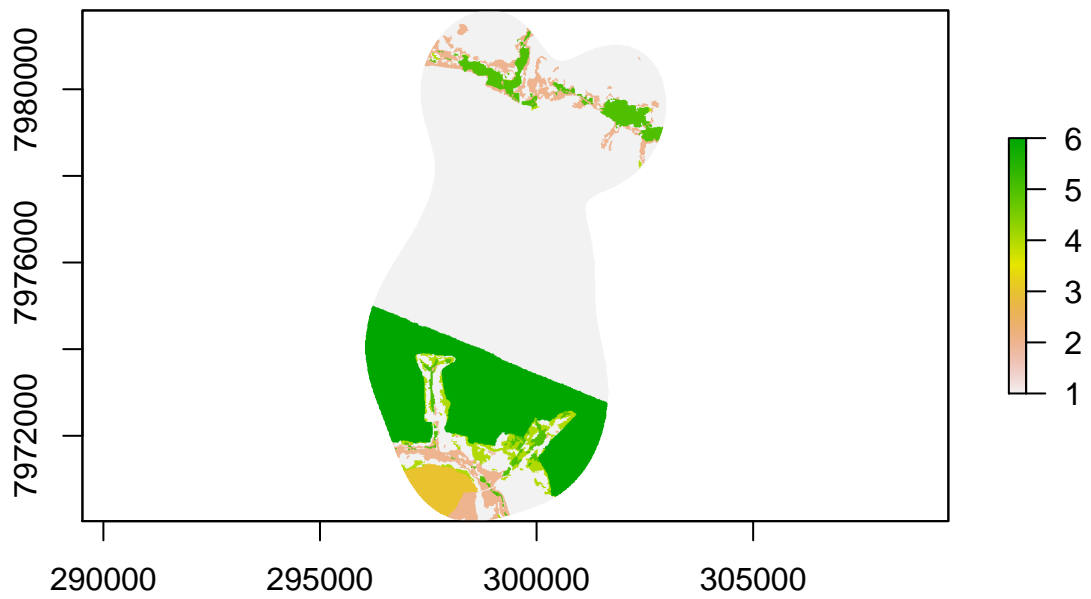
# alto formoso
r.af <- raster(map.alto.formoso, res = 10)
rast.alto.formoso.class <- fasterize::fasterize(sf = map.alto.formoso, raster = r.af, field = 'classe.m')
raster::plot(rast.alto.formoso.class)
```



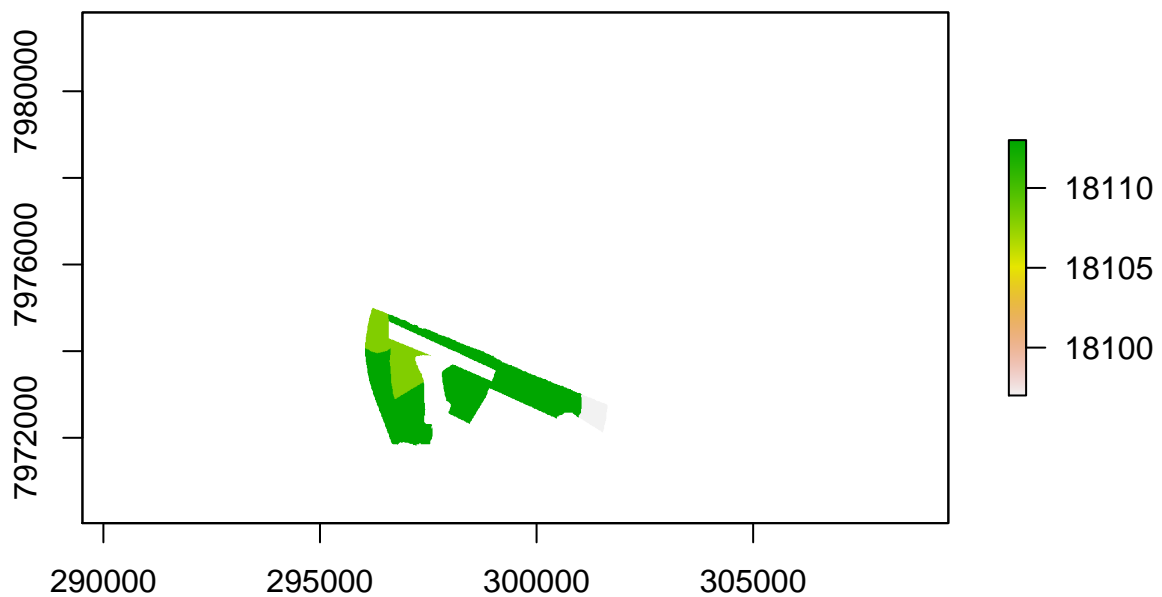
```
rast.alto.formoso.julian <- fasterize::fasterize(sf = map.alto.formoso, raster = r.af, field = 'julian')
raster::plot(rast.alto.formoso.julian)
```



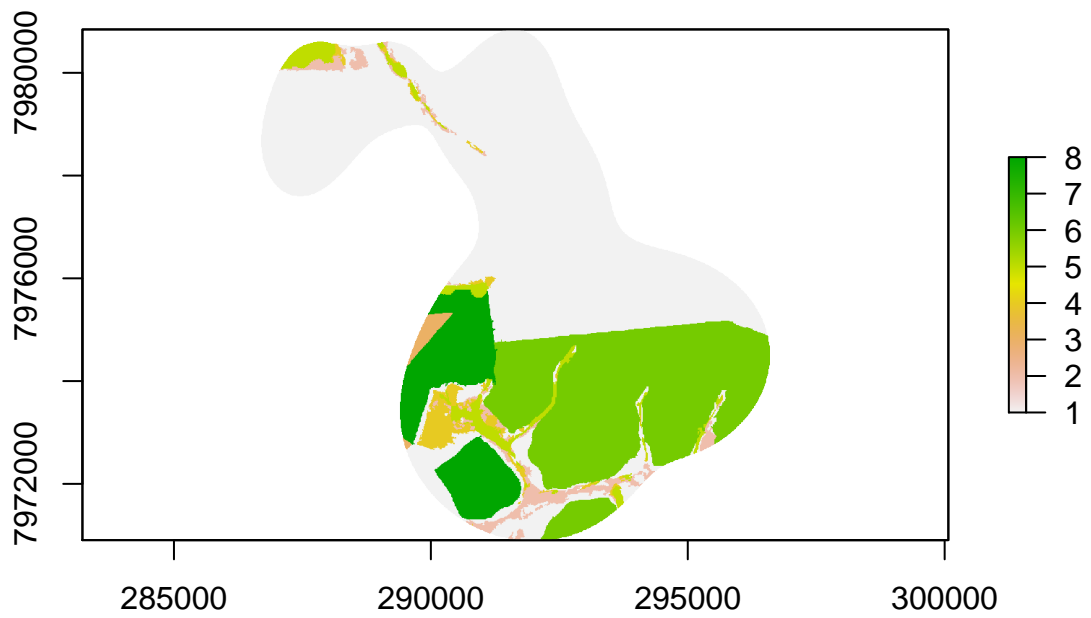
```
# olhos leste
r.ol <- raster(map.olhos.leste, res = 10)
rast.olhos.leste.class <- fasterize::fasterize(sf = map.olhos.leste, raster = r.ol, field = 'classe.num')
raster::plot(rast.olhos.leste.class)
```



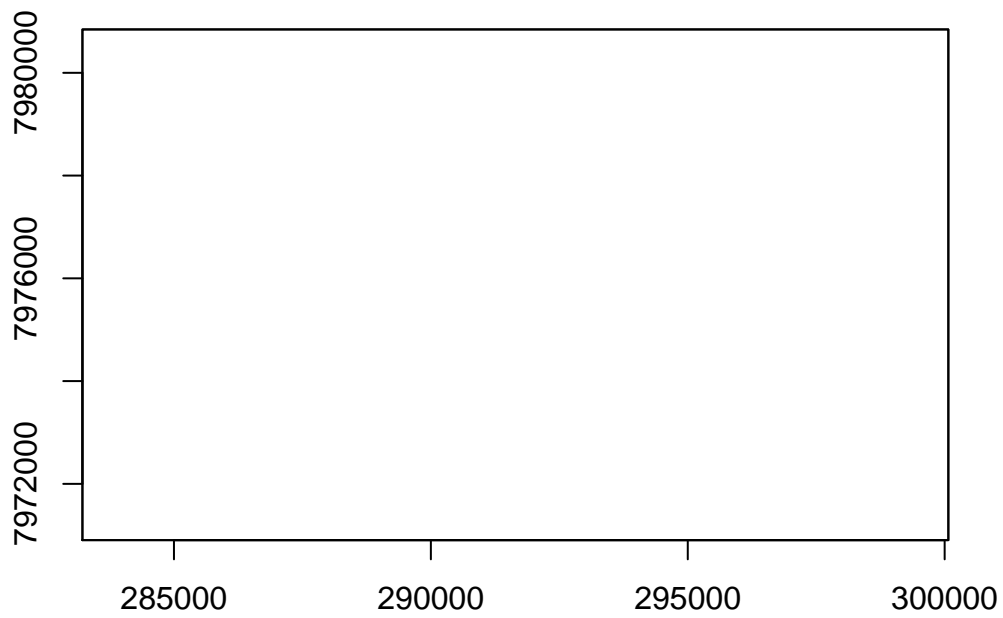
```
rast.olhos.leste.julian <- fasterize::fasterize(sf = map.olhos.leste, raster = r.ol, field = 'julian')
raster::plot(rast.olhos.leste.julian)
```



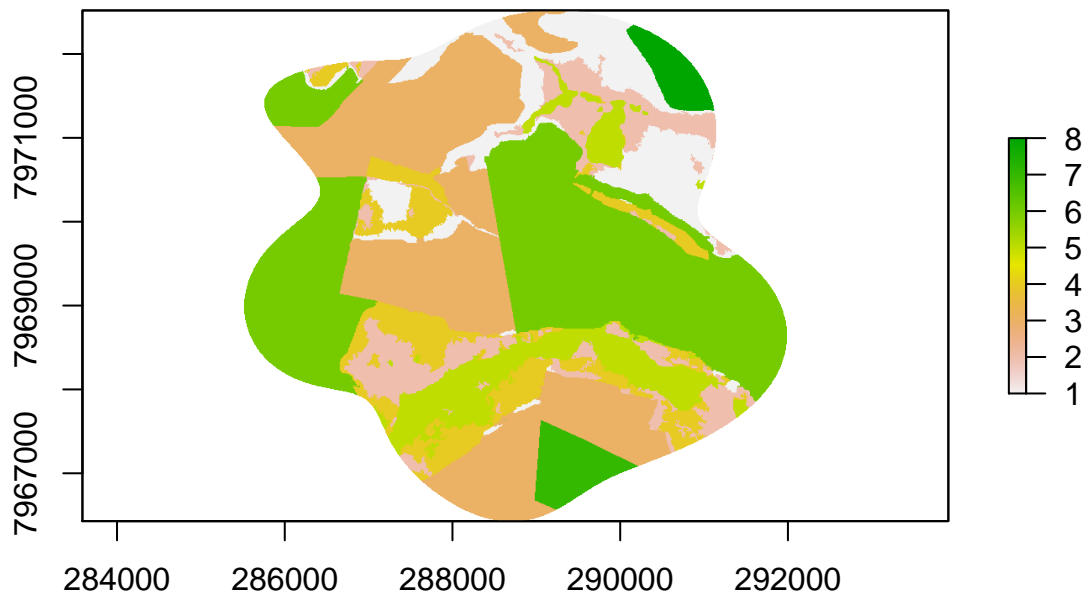
```
# olhos oeste
r.oo <- raster(map.olhos.oeste, res = 10)
rast.olhos.oeste.class <- fasterize::fasterize(sf = map.olhos.oeste, raster = r.oo, field = 'classe.num')
raster::plot(rast.olhos.oeste.class)
```



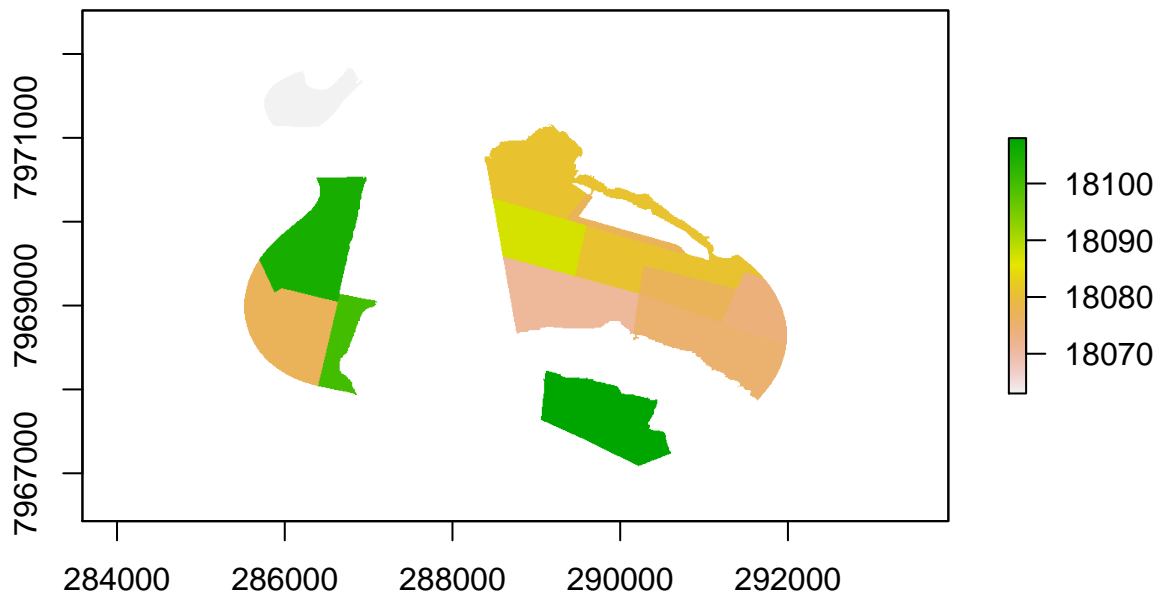
```
rast.olhos.oeste.julian <- fasterize::fasterize(sf = map.olhos.oeste, raster = r.oo, field = 'julian')  
raster::plot(rast.olhos.oeste.julian)
```



```
# pontal  
r.po <- raster(map.pontal, res = 10)  
rast.pontal.class <- fasterize::fasterize(sf = map.pontal, raster = r.po, field = 'classe.num')  
raster::plot(rast.pontal.class)
```



```
rast.pontal.julian <- fasterize::fasterize(sf = map.pontal, raster = r.po, field = 'julian')  
raster::plot(rast.pontal.julian)
```



```
# merge raster
origin(rast.alto.formoso.class)

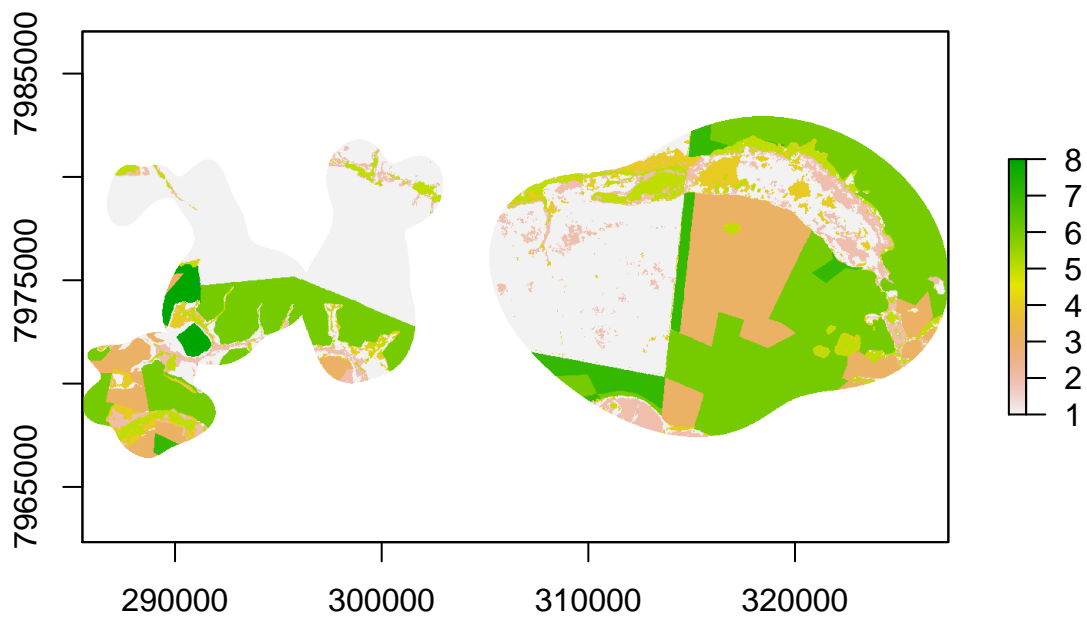
## [1] -4.6689803 -0.1740276
origin(rast.olhos.oeste.class)

## [1] -4.614977  4.232343
origin(rast.olhos.leste.class)

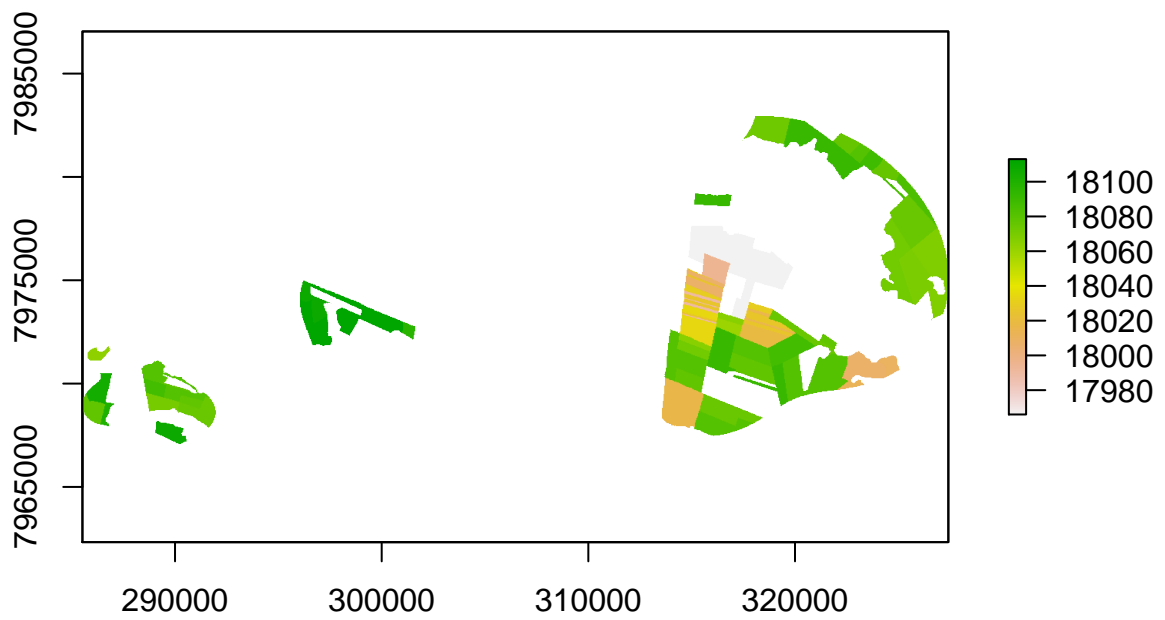
## [1]  0.9894084 -0.4828134
origin(rast.pontal.class)

## [1]  0.3395051 -0.8380321

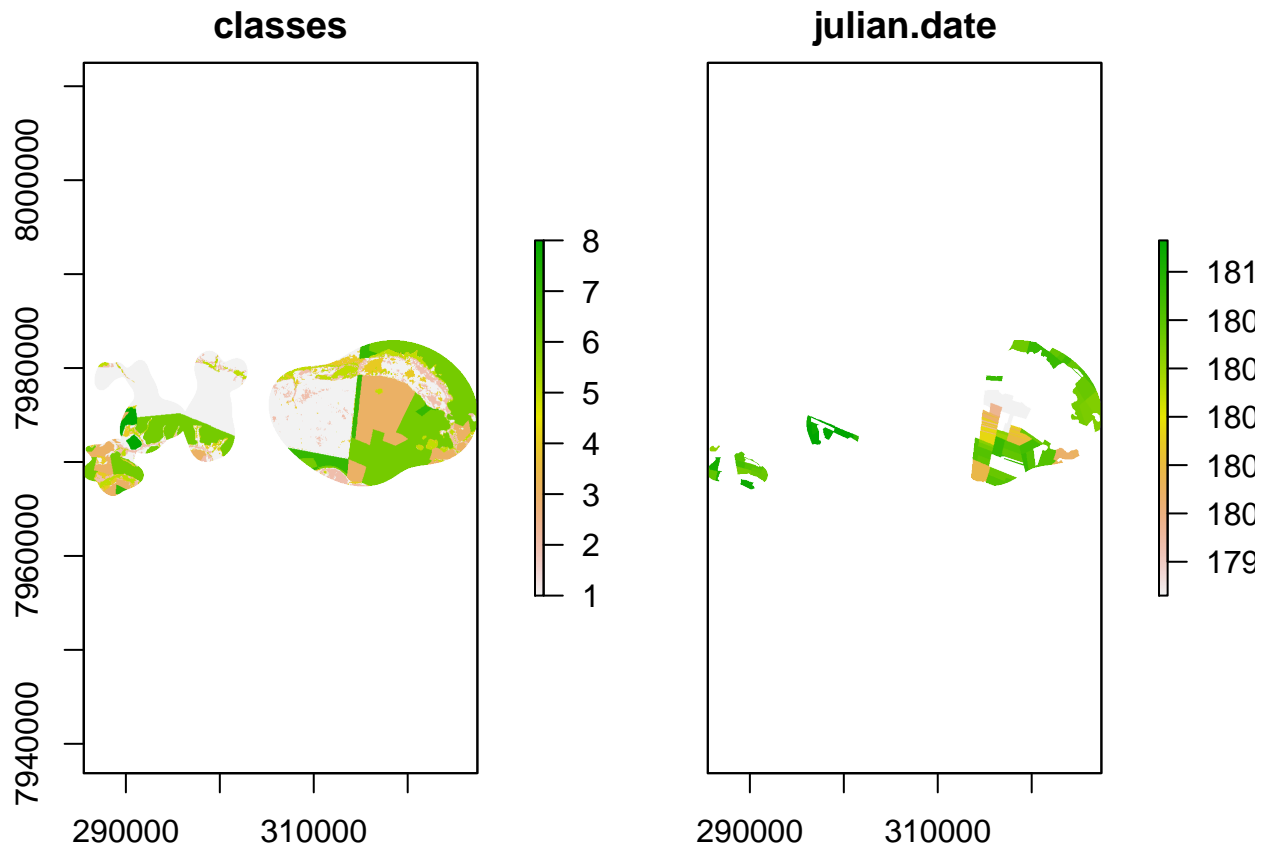
# class
rast.classes <- raster::merge(rast.alto.formoso.class, rast.olhos.oeste.class,
                             rast.olhos.leste.class, rast.pontal.class, tolerance = 4)
raster::plot(rast.classes)
```

```
# julian
rast.julian <- raster::merge(rast.alto.formoso.julian, rast.olhos.oeste.julian,
                             rast.olhos.leste.julian, rast.pontal.julian, tolerance = 4)
raster::plot(rast.julian)
```



```
# maps  
maps <- raster::stack(rast.classes, rast.julian)  
names(maps) <- c('classes', 'julian.date')  
raster::plot(maps)
```



Step-selection functions for a single individual

Now we perform a step selection analysis for a single individual, just to get some understanding of how it is responding to the habitat covariates. Then we do the same for all individuals

```
coord.system <- as.character(maps@crs)

# select individual
mov.track.1 <- mov.track %>%
  amt::transform_coords(crs_to = coord.system) %>%
  dplyr::filter(name == 'Alto Formoso')

# check regularity
mov.track.1 %>%
  amt::summarize_sampling_rate()

## # A tibble: 1 x 9
##   min    q1   median  mean    q3    max    sd    n unit
##   <table> <table> <table> <table> <table> <table> <dbl> <int> <chr>
## 1 27.25  29.8    30      30.89523 30.23333 181.7333 7.04  4524 min

# resample
stps <- mov.track.1 %>%
  amt::track_resample(rate = minutes(30), tolerance = minutes(10)) %>%
  amt::filter_min_n_burst(min_n = 3) %>%
  amt::steps_by_burst()
```

```

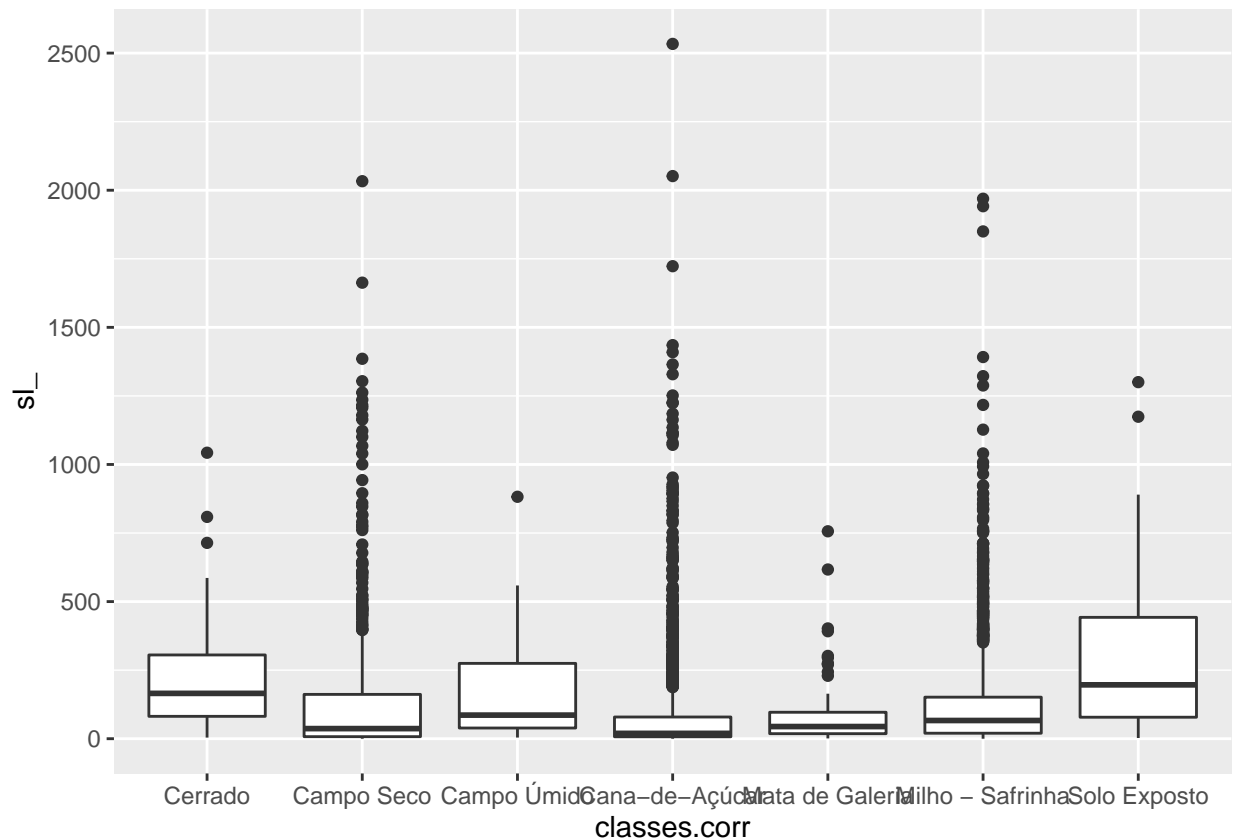
# explore covariates
eda1 <- stps %>%
  extract_covariates(maps, where = "start") %>%
  mutate(classes.lev = factor(classes, levels = 1:length(lu.classes), labels = lu.classes),
         dtm.harvest = ymd('1970-01-01') + days(julian.date),
         classes.corr = ifelse((classes.lev == lu.classes[3]) & (t1_ > dtm.harvest) & (t1_ < dtm.harvest),
                               lu.classes[7], as.character(classes.lev)),
         classes.corr = as.factor(ifelse((classes.corr == lu.classes[6]) & (t1_ > dtm.harvest) & !is.na(lu.classes[7]),
                                         lu.classes[7], as.character(classes.corr))),
         classes.corr = relevel(classes.corr, lu.classes[4])) %>%
  dplyr::filter(!is.na(classes.corr))

###
## Possibility: classificar o milho de maneira diferente apos a colheita; pode ser uma nova classe (dur

# Some plots to explore

# step length
eda1 %>%
  ggplot() +
  geom_boxplot(aes(x = classes.corr, y = sl_))

```



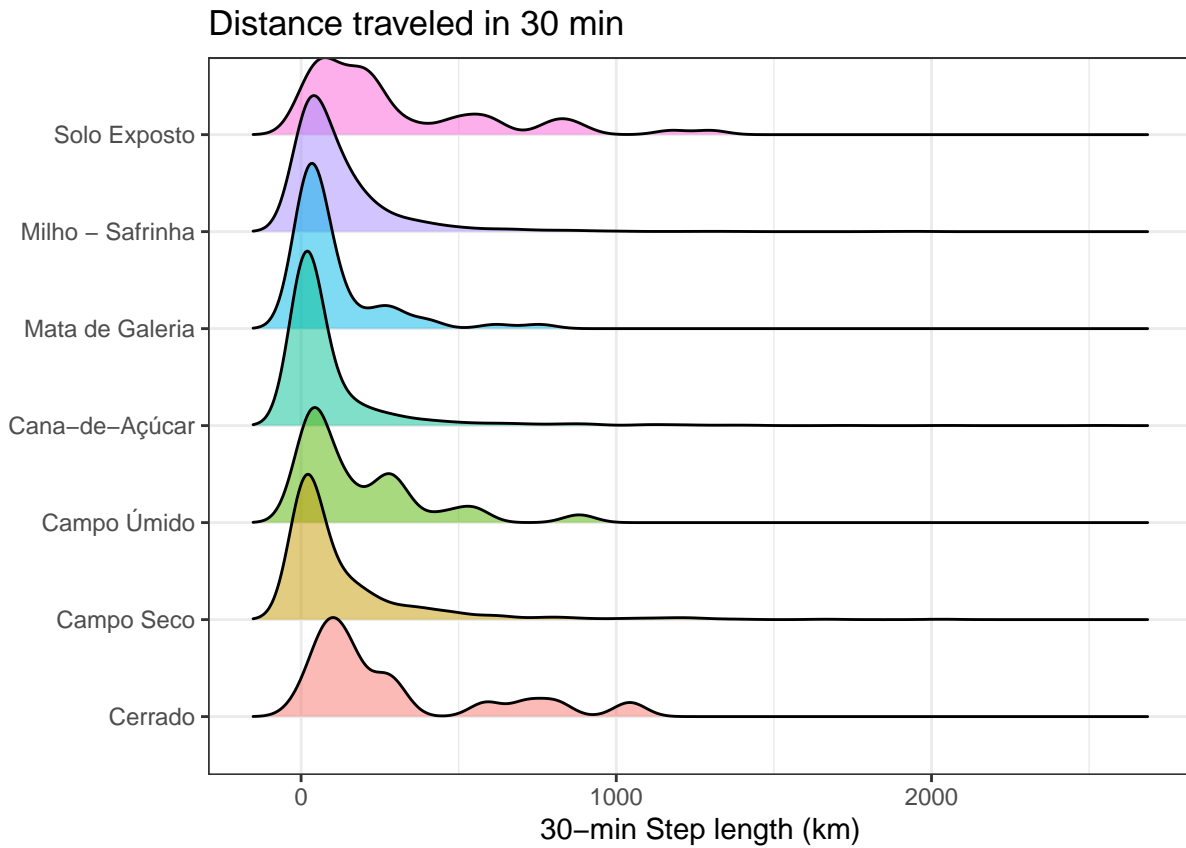
```

g1 <- ggplot(data = eda1, aes(x = sl_, y = classes.corr, fill = classes.corr)) +
  ggridges::geom_density_ridges(alpha = 0.5) +
  theme_bw() +

```

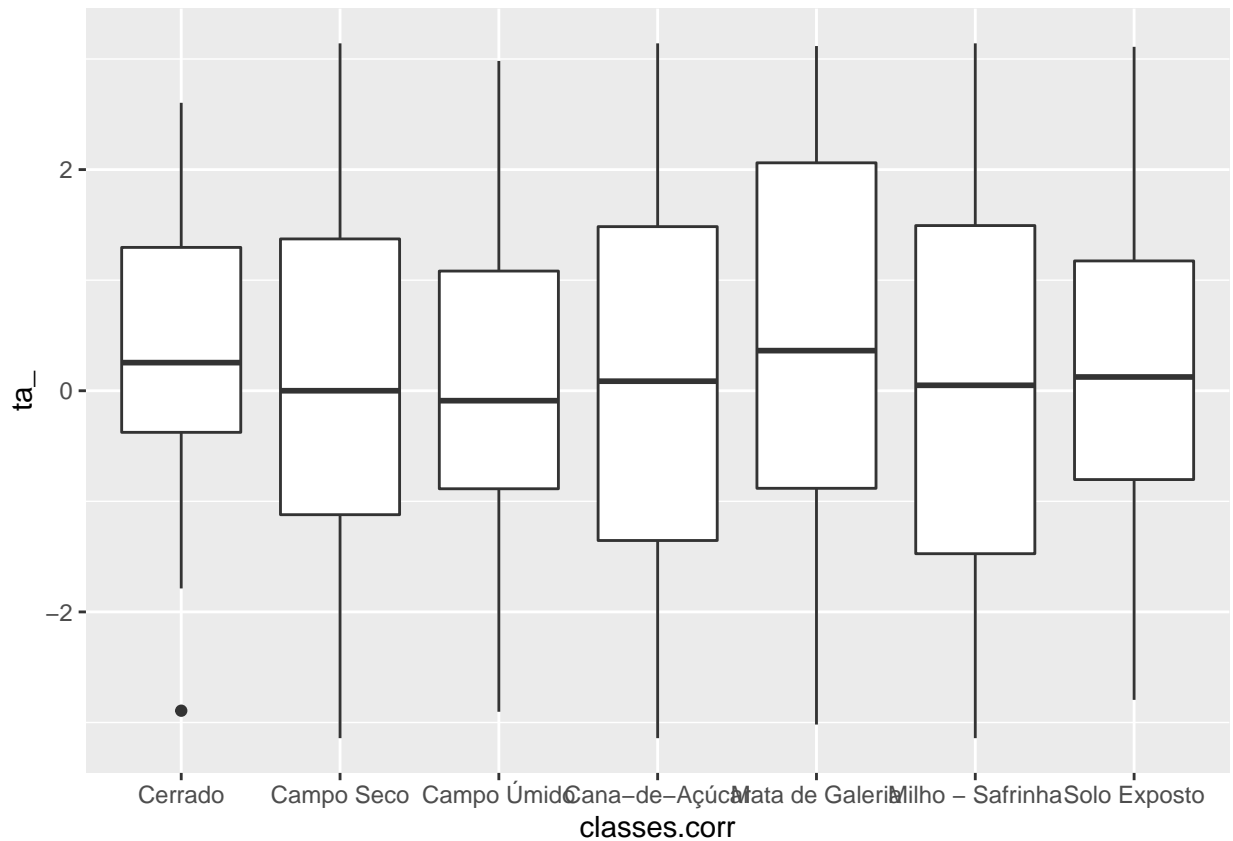
```
labs(x = '30-min Step length (km)', y = '',
     title = 'Distance traveled in 30 min') +
theme(legend.position = "none")
g1
```

```
## Picking joint bandwidth of 50.7
```



```
# turning angle
eda1 %>%
  ggplot() +
  geom_boxplot(aes(x = classes.corr, y = ta_))
```

```
## Warning: Removed 87 rows containing non-finite values (stat_boxplot).
```

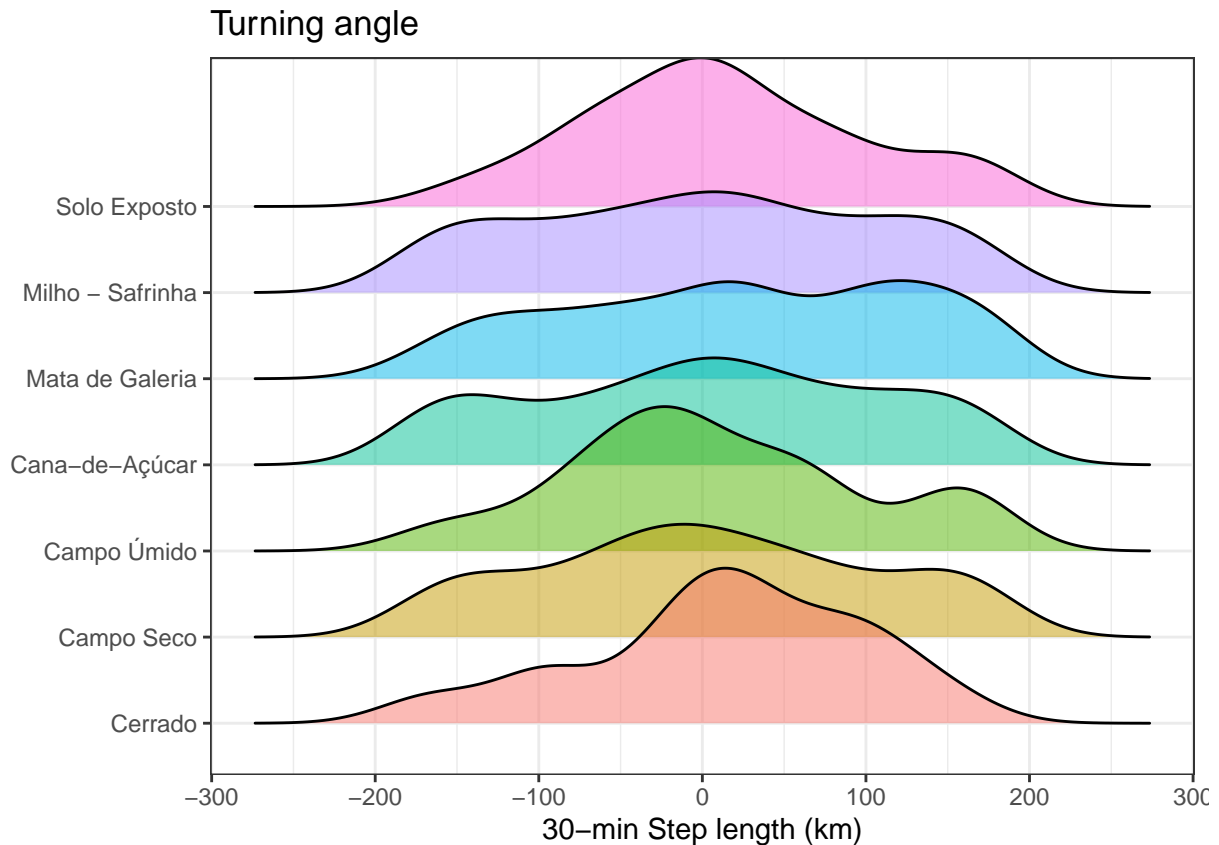


```
g2 <- ggplot(data = eda1, aes(x = ta_ * 180 / pi, y = classes.corr, fill = classes.corr)) +
  ggridges::geom_density_ridges(alpha = 0.5) +
  theme_bw() +
  labs(x = '30-min Step length (km)', y = '',
       title = 'Turning angle') +
  theme(legend.position = "none")
g2
```

```
## Picking joint bandwidth of 31.2
```

```
## Warning: Removed 87 rows containing non-finite values
```

```
## (stat_density_ridges).
```



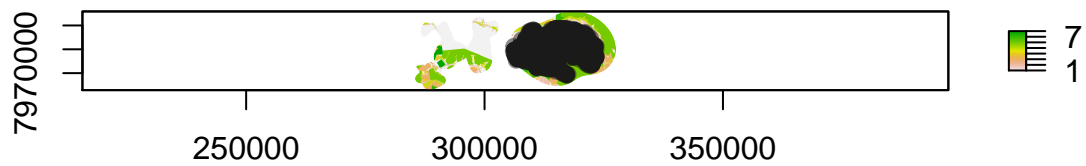
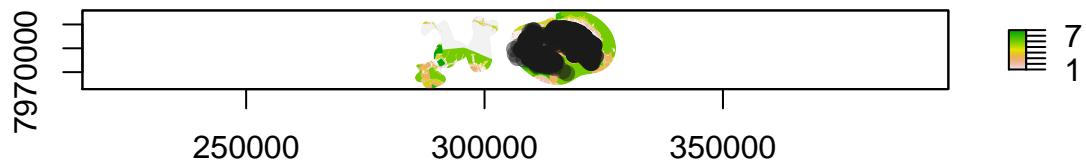
```
# ssf

# create random steps and extracting land use covariates
d1 <- stps %>%
  amt::random_steps(n = 9) %>%
  extract_covariates(maps, where = "end") %>%
  mutate(classes.lev = factor(classes, levels = 1:length(lu.classes), labels = lu.classes),
         dtm.harvest = ymd('1970-01-01') + days(julian.date),
         classes.corr = ifelse((classes.lev == lu.classes[3]) & (t2_ > dtm.harvest) & (t2_ < dtm.harvest),
                               lu.classes[7], as.character(classes.lev)),
         classes.corr = as.factor(ifelse((classes.corr == lu.classes[6]) & (t2_ > dtm.harvest) & !is.na(t2_),
                                         lu.classes[7], as.character(classes.corr))),
         classes.corr = relevel(classes.corr, lu.classes[4])) %>%
  dplyr::filter(!is.na(classes.corr)) %>%
  mutate(log_sl_ = log(sl_))
```

```
## Warning in random_steps.steps_xy(., n = 9): Step-lengths or turning angles
## contained NA, which were removed.
```

```
# plot

par(mfrow = c(2,1))
# used
plot(maps$classes)
points(stps$x2_, stps$y2_, pch = 19, col = grey(0.1, 0.5))
plot(maps$classes)
points(d1$x2_, d1$y2_, pch = 19, col = grey(0.1, 0.5))
```



```
# VERIFICAAAAAAR!
# clean steps for which the used or available steps go beyond the study area
# d1 %>%
#   nest(-step_id_) %>%
#   mutate(keep = ifelse(any(data)))

# check
d1 %>%
  dplyr::filter(!is.na(julian.date)) %>%
  .[5500:6500,] %>%
  print(width = Inf, n = 1000)
```

```
## # A tibble: 1,001 x 18
##   burst_ step_id_ case_   x1_   y1_   x2_   y2_
##   *   <dbl>   <int> <lg1>   <dbl>   <dbl>   <dbl>   <dbl>
## 1     14     1076 TRUE  314020. 7972242. 314020. 7972237.
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## 8     14     1077 TRUE  314020. 7972237. 314037. 7972254.
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##	537	15	1135	FALSE	314158.	7972297.	314158.	7972296.
##	538	15	1135	FALSE	314158.	7972297.	314177.	7972341.
##	539	15	1135	FALSE	314158.	7972297.	314098.	7972303.
##	540	15	1135	FALSE	314158.	7972297.	314167.	7972295.
##	541	15	1136	TRUE	314222.	7972296.	314209.	7972304.
##	542	15	1136	FALSE	314222.	7972296.	314222.	7972296.
##	543	15	1136	FALSE	314222.	7972296.	314228.	7972297.
##	544	15	1136	FALSE	314222.	7972296.	314222.	7972296.
##	545	15	1136	FALSE	314222.	7972296.	314071.	7972365.
##	546	15	1136	FALSE	314222.	7972296.	314224.	7972297.
##	547	15	1136	FALSE	314222.	7972296.	314225.	7972275.
##	548	15	1136	FALSE	314222.	7972296.	314221.	7972331.
##	549	15	1136	FALSE	314222.	7972296.	314072.	7971986.
##	550	15	1136	FALSE	314222.	7972296.	314222.	7972296.
##	551	15	1137	TRUE	314209.	7972304.	314234.	7972202.

##	552	15	1137	FALSE	314209.	7972304.	314342.	7972304.
##	553	15	1137	FALSE	314209.	7972304.	314148.	7972299.
##	554	15	1137	FALSE	314209.	7972304.	314220.	7972139.
##	555	15	1137	FALSE	314209.	7972304.	314194.	7972300.
##	556	15	1137	FALSE	314209.	7972304.	314207.	7972315.
##	557	15	1137	FALSE	314209.	7972304.	314240.	7972328.
##	558	15	1137	FALSE	314209.	7972304.	314208.	7972297.
##	559	15	1137	FALSE	314209.	7972304.	314116.	7972304.
##	560	15	1137	FALSE	314209.	7972304.	314400.	7972314.
##	561	15	1138	TRUE	314234.	7972202.	314241.	7972232.
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##	563	15	1138	FALSE	314234.	7972202.	313943.	7972487.
##	564	15	1138	FALSE	314234.	7972202.	314086.	7972152.
##	565	15	1138	FALSE	314234.	7972202.	314308.	7971703.
##	566	15	1138	FALSE	314234.	7972202.	314237.	7972203.
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##	568	15	1138	FALSE	314234.	7972202.	314173.	7971993.
##	569	15	1138	FALSE	314234.	7972202.	314233.	7972202.
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##	571	15	1139	TRUE	314241.	7972232.	314229.	7972295.
##	572	15	1139	FALSE	314241.	7972232.	314224.	7972261.
##	573	15	1139	FALSE	314241.	7972232.	314610.	7972770.
##	574	15	1139	FALSE	314241.	7972232.	314236.	7972230.
##	575	15	1139	FALSE	314241.	7972232.	314253.	7972258.
##	576	15	1139	FALSE	314241.	7972232.	314005.	7972100.
##	577	15	1139	FALSE	314241.	7972232.	314249.	7972239.
##	578	15	1139	FALSE	314241.	7972232.	314242.	7972257.
##	579	15	1139	FALSE	314241.	7972232.	314252.	7972250.
##	580	15	1139	FALSE	314241.	7972232.	314518.	7972335.
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##	583	15	1140	FALSE	314229.	7972295.	314205.	7972280.
##	584	15	1140	FALSE	314229.	7972295.	314153.	7972408.
##	585	15	1140	FALSE	314229.	7972295.	314211.	7972311.
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##	589	15	1140	FALSE	314229.	7972295.	314235.	7972311.
##	590	15	1140	FALSE	314229.	7972295.	314285.	7972157.
##	591	15	1141	TRUE	314170.	7972180.	314179.	7972152.
##	592	15	1141	FALSE	314170.	7972180.	314173.	7971922.
##	593	15	1141	FALSE	314170.	7972180.	314261.	7972147.
##	594	15	1141	FALSE	314170.	7972180.	314205.	7972182.
##	595	15	1141	FALSE	314170.	7972180.	314178.	7972202.
##	596	15	1141	FALSE	314170.	7972180.	314149.	7972191.
##	597	15	1141	FALSE	314170.	7972180.	314170.	7972193.
##	598	15	1141	FALSE	314170.	7972180.	314170.	7972181.
##	599	15	1141	FALSE	314170.	7972180.	314122.	7972177.
##	600	15	1141	FALSE	314170.	7972180.	314173.	7972179.
##	601	15	1142	TRUE	314179.	7972152.	314222.	7972128.
##	602	15	1142	FALSE	314179.	7972152.	314283.	7972275.
##	603	15	1142	FALSE	314179.	7972152.	314085.	7972115.
##	604	15	1142	FALSE	314179.	7972152.	314221.	7972083.
##	605	15	1142	FALSE	314179.	7972152.	314266.	7971919.

##	606	15	1142	FALSE	314179.	7972152.	315371.	7972247.
##	607	15	1142	FALSE	314179.	7972152.	314087.	7972263.
##	608	15	1142	FALSE	314179.	7972152.	314196.	7972152.
##	609	15	1142	FALSE	314179.	7972152.	314180.	7972149.
##	610	15	1142	FALSE	314179.	7972152.	314185.	7972164.
##	611	15	1143	TRUE	314222.	7972128.	314242.	7972144.
##	612	15	1143	FALSE	314222.	7972128.	314403.	7972307.
##	613	15	1143	FALSE	314222.	7972128.	314224.	7972121.
##	614	15	1143	FALSE	314222.	7972128.	314248.	7972156.
##	615	15	1143	FALSE	314222.	7972128.	314284.	7972130.
##	616	15	1143	FALSE	314222.	7972128.	314222.	7972131.
##	617	15	1143	FALSE	314222.	7972128.	314309.	7972155.
##	618	15	1143	FALSE	314222.	7972128.	314429.	7972179.
##	619	15	1143	FALSE	314222.	7972128.	314223.	7972162.
##	620	15	1144	TRUE	314242.	7972144.	314247.	7972075.
##	621	15	1144	FALSE	314242.	7972144.	314299.	7972201.
##	622	15	1144	FALSE	314242.	7972144.	314133.	7972075.
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##	624	15	1144	FALSE	314242.	7972144.	314254.	7972173.
##	625	15	1144	FALSE	314242.	7972144.	314229.	7972210.
##	626	15	1144	FALSE	314242.	7972144.	314213.	7972179.
##	627	15	1144	FALSE	314242.	7972144.	314226.	7972153.
##	628	15	1144	FALSE	314242.	7972144.	314242.	7972145.
##	629	15	1144	FALSE	314242.	7972144.	314242.	7972144.
##	630	15	1145	TRUE	314247.	7972075.	314251.	7972068.
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##	632	15	1145	FALSE	314247.	7972075.	314068.	7971797.
##	633	15	1145	FALSE	314247.	7972075.	314240.	7972165.
##	634	15	1145	FALSE	314247.	7972075.	314244.	7972080.
##	635	15	1145	FALSE	314247.	7972075.	314234.	7972069.
##	636	15	1145	FALSE	314247.	7972075.	314200.	7971999.
##	637	15	1145	FALSE	314247.	7972075.	314255.	7972076.
##	638	15	1145	FALSE	314247.	7972075.	314256.	7972072.
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##	640	16	1146	TRUE	314856.	7972263.	314946.	7972117.
##	641	16	1146	FALSE	314856.	7972263.	314864.	7972239.
##	642	16	1146	FALSE	314856.	7972263.	314814.	7972273.
##	643	16	1146	FALSE	314856.	7972263.	314842.	7972285.
##	644	16	1146	FALSE	314856.	7972263.	314867.	7972278.
##	645	16	1146	FALSE	314856.	7972263.	314738.	7972252.
##	646	16	1146	FALSE	314856.	7972263.	314929.	7972158.
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##	648	16	1146	FALSE	314856.	7972263.	314924.	7972250.
##	649	16	1146	FALSE	314856.	7972263.	315221.	7972324.
##	650	16	1147	TRUE	314946.	7972117.	314461.	7972322.
##	651	16	1147	FALSE	314946.	7972117.	314925.	7972086.
##	652	16	1147	FALSE	314946.	7972117.	314930.	7971886.
##	653	16	1147	FALSE	314946.	7972117.	314897.	7972119.
##	654	16	1147	FALSE	314946.	7972117.	315015.	7972076.
##	655	16	1147	FALSE	314946.	7972117.	314949.	7972037.
##	656	16	1147	FALSE	314946.	7972117.	314951.	7972114.
##	657	16	1147	FALSE	314946.	7972117.	314950.	7972132.
##	658	16	1147	FALSE	314946.	7972117.	314945.	7972115.
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##	660	17	1148	TRUE	314217.	7972377.	314222.	7972388.
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##	663	17	1148	FALSE	314217.	7972377.	314205.	7972167.
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##	666	17	1148	FALSE	314217.	7972377.	314312.	7972297.
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##	668	17	1148	FALSE	314217.	7972377.	314204.	7972361.
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##	670	17	1149	TRUE	314222.	7972388.	314221.	7972373.
##	671	17	1149	FALSE	314222.	7972388.	314182.	7972371.
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##	679	17	1150	TRUE	314221.	7972373.	314213.	7972373.
##	680	17	1150	FALSE	314221.	7972373.	314213.	7972377.
##	681	17	1150	FALSE	314221.	7972373.	314265.	7972337.
##	682	17	1150	FALSE	314221.	7972373.	314221.	7972363.
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##	688	17	1151	TRUE	314213.	7972373.	314203.	7972342.
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##	691	17	1151	FALSE	314213.	7972373.	314238.	7972275.
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##	698	17	1152	TRUE	314203.	7972342.	314202.	7972340.
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##	703	17	1152	FALSE	314203.	7972342.	314043.	7972228.
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##	722	17	1154	FALSE	314202.	7972339.	314212.	7972317.
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##	730	17	1155	FALSE	314196.	7972303.	314217.	7972314.
##	731	17	1155	FALSE	314196.	7972303.	313975.	7972018.
##	732	17	1155	FALSE	314196.	7972303.	314194.	7972289.
##	733	17	1155	FALSE	314196.	7972303.	314571.	7972240.
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##	749	17	1157	FALSE	314196.	7972301.	314360.	7972116.
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##	752	17	1157	FALSE	314196.	7972301.	314187.	7972305.
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##	757	17	1158	FALSE	314206.	7972298.	314164.	7972332.
##	758	17	1158	FALSE	314206.	7972298.	314234.	7972421.
##	759	17	1158	FALSE	314206.	7972298.	314187.	7972394.
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##	764	17	1159	TRUE	314202.	7972298.	314210.	7972275.
##	765	17	1159	FALSE	314202.	7972298.	314224.	7972412.
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##	767	17	1159	FALSE	314202.	7972298.	314149.	7972283.

##	768	17	1159	FALSE	314202.	7972298.	314110.	7972159.
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##	781	17	1160	FALSE	314210.	7972275.	314276.	7972349.
##	782	17	1160	FALSE	314210.	7972275.	314209.	7972275.
##	783	17	1160	FALSE	314210.	7972275.	314281.	7972170.
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##	798	17	1162	FALSE	314206.	7972276.	314204.	7972277.
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## 2 2019-05-01 07:00:47 2019-05-01 07:30:25 29.63333 mins 173.
## 3 2019-05-01 07:00:47 2019-05-01 07:30:25 29.63333 mins 249.
## 4 2019-05-01 07:00:47 2019-05-01 07:30:25 29.63333 mins 11.5
## 5 2019-05-01 07:00:47 2019-05-01 07:30:25 29.63333 mins 11.2
## 6 2019-05-01 07:00:47 2019-05-01 07:30:25 29.63333 mins 37.2
## 7 2019-05-01 07:00:47 2019-05-01 07:30:25 29.63333 mins 199.
## 8 2019-05-01 07:30:25 2019-05-01 08:00:47 30.36667 mins 24.5
## 9 2019-05-01 07:30:25 2019-05-01 08:00:47 30.36667 mins 16.7
## 10 2019-05-01 07:30:25 2019-05-01 08:00:47 30.36667 mins 81.4
## 11 2019-05-01 07:30:25 2019-05-01 08:00:47 30.36667 mins 145.
## 12 2019-05-01 07:30:25 2019-05-01 08:00:47 30.36667 mins 393.
## 13 2019-05-01 07:30:25 2019-05-01 08:00:47 30.36667 mins 278.
## 14 2019-05-01 07:30:25 2019-05-01 08:00:47 30.36667 mins 144.
## 15 2019-05-01 07:30:25 2019-05-01 08:00:47 30.36667 mins 53.5
## 16 2019-05-01 08:00:47 2019-05-01 08:30:46 29.98333 mins 26.4
## 17 2019-05-01 08:00:47 2019-05-01 08:30:46 29.98333 mins 135.
## 18 2019-05-01 08:00:47 2019-05-01 08:30:46 29.98333 mins 35.7
## 19 2019-05-01 08:00:47 2019-05-01 08:30:46 29.98333 mins 125.
## 20 2019-05-01 08:00:47 2019-05-01 08:30:46 29.98333 mins 169.
## 21 2019-05-01 08:00:47 2019-05-01 08:30:46 29.98333 mins 4.91
## 22 2019-05-01 08:00:47 2019-05-01 08:30:46 29.98333 mins 73.1
## 23 2019-05-01 08:00:47 2019-05-01 08:30:46 29.98333 mins 8.92
## 24 2019-05-01 08:00:47 2019-05-01 08:30:46 29.98333 mins 17.9
## 25 2019-05-01 08:00:47 2019-05-01 08:30:46 29.98333 mins 2.18
## 26 2019-05-01 08:30:46 2019-05-01 09:00:47 30.01667 mins 38.8
## 27 2019-05-01 08:30:46 2019-05-01 09:00:47 30.01667 mins 0.317
## 28 2019-05-01 08:30:46 2019-05-01 09:00:47 30.01667 mins 208.
## 29 2019-05-01 08:30:46 2019-05-01 09:00:47 30.01667 mins 27.9
## 30 2019-05-01 08:30:46 2019-05-01 09:00:47 30.01667 mins 2.86
## 31 2019-05-01 08:30:46 2019-05-01 09:00:47 30.01667 mins 138.
## 32 2019-05-01 08:30:46 2019-05-01 09:00:47 30.01667 mins 43.4
## 33 2019-05-01 08:30:46 2019-05-01 09:00:47 30.01667 mins 34.2
## 34 2019-05-01 08:30:46 2019-05-01 09:00:47 30.01667 mins 69.3
## 35 2019-05-01 08:30:46 2019-05-01 09:00:47 30.01667 mins 134.

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##	38	2019-05-01	09:00:47	2019-05-01	09:30:47	30.00000	mins	193.
##	39	2019-05-01	09:00:47	2019-05-01	09:30:47	30.00000	mins	0.534
##	40	2019-05-01	09:00:47	2019-05-01	09:30:47	30.00000	mins	76.8
##	41	2019-05-01	09:00:47	2019-05-01	09:30:47	30.00000	mins	32.3
##	42	2019-05-01	09:00:47	2019-05-01	09:30:47	30.00000	mins	29.2
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##	44	2019-05-01	09:00:47	2019-05-01	09:30:47	30.00000	mins	17.2
##	45	2019-05-01	09:00:47	2019-05-01	09:30:47	30.00000	mins	9.94
##	46	2019-05-01	09:30:47	2019-05-01	10:01:49	31.03333	mins	135.
##	47	2019-05-01	09:30:47	2019-05-01	10:01:49	31.03333	mins	24.7
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##	50	2019-05-01	09:30:47	2019-05-01	10:01:49	31.03333	mins	11.6
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##	58	2019-05-01	10:01:49	2019-05-01	10:30:47	28.96667	mins	37.2
##	59	2019-05-01	10:01:49	2019-05-01	10:30:47	28.96667	mins	44.3
##	60	2019-05-01	10:01:49	2019-05-01	10:30:47	28.96667	mins	48.1
##	61	2019-05-01	10:01:49	2019-05-01	10:30:47	28.96667	mins	102.
##	62	2019-05-01	10:01:49	2019-05-01	10:30:47	28.96667	mins	0.0281
##	63	2019-05-01	10:01:49	2019-05-01	10:30:47	28.96667	mins	35.5
##	64	2019-05-01	10:01:49	2019-05-01	10:30:47	28.96667	mins	1.08
##	65	2019-05-01	10:01:49	2019-05-01	10:30:47	28.96667	mins	0.675
##	66	2019-05-01	10:30:47	2019-05-01	11:00:46	29.98333	mins	57.4
##	67	2019-05-01	10:30:47	2019-05-01	11:00:46	29.98333	mins	46.1
##	68	2019-05-01	10:30:47	2019-05-01	11:00:46	29.98333	mins	0.148
##	69	2019-05-01	10:30:47	2019-05-01	11:00:46	29.98333	mins	3.33
##	70	2019-05-01	10:30:47	2019-05-01	11:00:46	29.98333	mins	14.0
##	71	2019-05-01	10:30:47	2019-05-01	11:00:46	29.98333	mins	71.5
##	72	2019-05-01	10:30:47	2019-05-01	11:00:46	29.98333	mins	4.02
##	73	2019-05-01	10:30:47	2019-05-01	11:00:46	29.98333	mins	83.5
##	74	2019-05-01	10:30:47	2019-05-01	11:00:46	29.98333	mins	159.
##	75	2019-05-01	10:30:47	2019-05-01	11:00:46	29.98333	mins	87.5
##	76	2019-05-01	11:00:46	2019-05-01	11:31:00	30.23333	mins	34.6
##	77	2019-05-01	11:00:46	2019-05-01	11:31:00	30.23333	mins	53.9
##	78	2019-05-01	11:00:46	2019-05-01	11:31:00	30.23333	mins	11.3
##	79	2019-05-01	11:00:46	2019-05-01	11:31:00	30.23333	mins	72.2
##	80	2019-05-01	11:00:46	2019-05-01	11:31:00	30.23333	mins	34.8
##	81	2019-05-01	11:00:46	2019-05-01	11:31:00	30.23333	mins	1.54
##	82	2019-05-01	11:00:46	2019-05-01	11:31:00	30.23333	mins	5.67
##	83	2019-05-01	11:00:46	2019-05-01	11:31:00	30.23333	mins	0.424
##	84	2019-05-01	11:00:46	2019-05-01	11:31:00	30.23333	mins	2.72
##	85	2019-05-01	11:00:46	2019-05-01	11:31:00	30.23333	mins	63.8
##	86	2019-05-01	13:00:46	2019-05-01	13:30:32	29.76667	mins	118.
##	87	2019-05-01	13:00:46	2019-05-01	13:30:32	29.76667	mins	32.8
##	88	2019-05-01	13:00:46	2019-05-01	13:30:32	29.76667	mins	63.8
##	89	2019-05-01	13:00:46	2019-05-01	13:30:32	29.76667	mins	48.5

##	90	2019-05-01	13:00:46	2019-05-01	13:30:32	29.76667 mins	41.8
##	91	2019-05-01	13:00:46	2019-05-01	13:30:32	29.76667 mins	15.8
##	92	2019-05-01	13:00:46	2019-05-01	13:30:32	29.76667 mins	39.2
##	93	2019-05-01	13:00:46	2019-05-01	13:30:32	29.76667 mins	261.
##	94	2019-05-01	13:00:46	2019-05-01	13:30:32	29.76667 mins	9.00
##	95	2019-05-01	13:30:32	2019-05-01	14:00:33	30.01667 mins	154.
##	96	2019-05-01	13:30:32	2019-05-01	14:00:33	30.01667 mins	599.
##	97	2019-05-01	13:30:32	2019-05-01	14:00:33	30.01667 mins	44.3
##	98	2019-05-01	13:30:32	2019-05-01	14:00:33	30.01667 mins	233.
##	99	2019-05-01	13:30:32	2019-05-01	14:00:33	30.01667 mins	43.6
##	100	2019-05-01	13:30:32	2019-05-01	14:00:33	30.01667 mins	60.8
##	101	2019-05-01	13:30:32	2019-05-01	14:00:33	30.01667 mins	164.
##	102	2019-05-01	13:30:32	2019-05-01	14:00:33	30.01667 mins	0.570
##	103	2019-05-01	13:30:32	2019-05-01	14:00:33	30.01667 mins	27.2
##	104	2019-05-01	13:30:32	2019-05-01	14:00:33	30.01667 mins	77.5
##	105	2019-05-01	14:00:33	2019-05-01	14:32:49	32.26667 mins	45.3
##	106	2019-05-01	14:00:33	2019-05-01	14:32:49	32.26667 mins	1.17
##	107	2019-05-01	14:00:33	2019-05-01	14:32:49	32.26667 mins	36.5
##	108	2019-05-01	14:00:33	2019-05-01	14:32:49	32.26667 mins	107.
##	109	2019-05-01	14:00:33	2019-05-01	14:32:49	32.26667 mins	51.5
##	110	2019-05-01	14:00:33	2019-05-01	14:32:49	32.26667 mins	7.74
##	111	2019-05-01	14:00:33	2019-05-01	14:32:49	32.26667 mins	37.0
##	112	2019-05-01	14:00:33	2019-05-01	14:32:49	32.26667 mins	0.293
##	113	2019-05-01	14:00:33	2019-05-01	14:32:49	32.26667 mins	38.5
##	114	2019-05-01	14:00:33	2019-05-01	14:32:49	32.26667 mins	11.1
##	115	2019-05-01	14:32:49	2019-05-01	15:00:19	27.50000 mins	29.5
##	116	2019-05-01	14:32:49	2019-05-01	15:00:19	27.50000 mins	28.4
##	117	2019-05-01	14:32:49	2019-05-01	15:00:19	27.50000 mins	1.11
##	118	2019-05-01	14:32:49	2019-05-01	15:00:19	27.50000 mins	72.2
##	119	2019-05-01	14:32:49	2019-05-01	15:00:19	27.50000 mins	0.149
##	120	2019-05-01	14:32:49	2019-05-01	15:00:19	27.50000 mins	19.6
##	121	2019-05-01	14:32:49	2019-05-01	15:00:19	27.50000 mins	503.
##	122	2019-05-01	14:32:49	2019-05-01	15:00:19	27.50000 mins	35.8
##	123	2019-05-01	14:32:49	2019-05-01	15:00:19	27.50000 mins	0.0489
##	124	2019-05-01	15:00:19	2019-05-01	15:30:14	29.91667 mins	42.1
##	125	2019-05-01	15:00:19	2019-05-01	15:30:14	29.91667 mins	401.
##	126	2019-05-01	15:00:19	2019-05-01	15:30:14	29.91667 mins	127.
##	127	2019-05-01	15:00:19	2019-05-01	15:30:14	29.91667 mins	30.4
##	128	2019-05-01	15:00:19	2019-05-01	15:30:14	29.91667 mins	53.3
##	129	2019-05-01	15:00:19	2019-05-01	15:30:14	29.91667 mins	10.7
##	130	2019-05-01	15:00:19	2019-05-01	15:30:14	29.91667 mins	120.
##	131	2019-05-01	15:00:19	2019-05-01	15:30:14	29.91667 mins	139.
##	132	2019-05-01	15:00:19	2019-05-01	15:30:14	29.91667 mins	17.9
##	133	2019-05-01	15:00:19	2019-05-01	15:30:14	29.91667 mins	8.41
##	134	2019-05-01	15:30:14	2019-05-01	16:00:48	30.56667 mins	50.2
##	135	2019-05-01	15:30:14	2019-05-01	16:00:48	30.56667 mins	79.8
##	136	2019-05-01	15:30:14	2019-05-01	16:00:48	30.56667 mins	42.9
##	137	2019-05-01	15:30:14	2019-05-01	16:00:48	30.56667 mins	0.0169
##	138	2019-05-01	15:30:14	2019-05-01	16:00:48	30.56667 mins	25.4
##	139	2019-05-01	15:30:14	2019-05-01	16:00:48	30.56667 mins	19.3
##	140	2019-05-01	15:30:14	2019-05-01	16:00:48	30.56667 mins	29.8
##	141	2019-05-01	15:30:14	2019-05-01	16:00:48	30.56667 mins	4.05
##	142	2019-05-01	15:30:14	2019-05-01	16:00:48	30.56667 mins	52.7
##	143	2019-05-01	15:30:14	2019-05-01	16:00:48	30.56667 mins	104.

##	144	2019-05-01	16:00:48	2019-05-01	16:30:47	29.98333	mins	20.1
##	145	2019-05-01	16:00:48	2019-05-01	16:30:47	29.98333	mins	97.3
##	146	2019-05-01	16:00:48	2019-05-01	16:30:47	29.98333	mins	15.6
##	147	2019-05-01	16:00:48	2019-05-01	16:30:47	29.98333	mins	511.
##	148	2019-05-01	16:00:48	2019-05-01	16:30:47	29.98333	mins	47.4
##	149	2019-05-01	16:00:48	2019-05-01	16:30:47	29.98333	mins	17.1
##	150	2019-05-01	16:00:48	2019-05-01	16:30:47	29.98333	mins	355.
##	151	2019-05-01	16:00:48	2019-05-01	16:30:47	29.98333	mins	215.
##	152	2019-05-01	16:00:48	2019-05-01	16:30:47	29.98333	mins	173.
##	153	2019-05-01	16:00:48	2019-05-01	16:30:47	29.98333	mins	59.6
##	154	2019-05-01	16:30:47	2019-05-01	17:00:47	30.00000	mins	8.19
##	155	2019-05-01	16:30:47	2019-05-01	17:00:47	30.00000	mins	2.71
##	156	2019-05-01	16:30:47	2019-05-01	17:00:47	30.00000	mins	134.
##	157	2019-05-01	16:30:47	2019-05-01	17:00:47	30.00000	mins	45.2
##	158	2019-05-01	16:30:47	2019-05-01	17:00:47	30.00000	mins	33.3
##	159	2019-05-01	16:30:47	2019-05-01	17:00:47	30.00000	mins	69.8
##	160	2019-05-01	16:30:47	2019-05-01	17:00:47	30.00000	mins	233.
##	161	2019-05-01	16:30:47	2019-05-01	17:00:47	30.00000	mins	211.
##	162	2019-05-01	16:30:47	2019-05-01	17:00:47	30.00000	mins	24.5
##	163	2019-05-01	16:30:47	2019-05-01	17:00:47	30.00000	mins	154.
##	164	2019-05-01	17:00:47	2019-05-01	17:30:10	29.38333	mins	12.0
##	165	2019-05-01	17:00:47	2019-05-01	17:30:10	29.38333	mins	174.
##	166	2019-05-01	17:00:47	2019-05-01	17:30:10	29.38333	mins	90.8
##	167	2019-05-01	17:00:47	2019-05-01	17:30:10	29.38333	mins	61.2
##	168	2019-05-01	17:00:47	2019-05-01	17:30:10	29.38333	mins	157.
##	169	2019-05-01	17:00:47	2019-05-01	17:30:10	29.38333	mins	0.492
##	170	2019-05-01	17:00:47	2019-05-01	17:30:10	29.38333	mins	19.4
##	171	2019-05-01	17:00:47	2019-05-01	17:30:10	29.38333	mins	34.4
##	172	2019-05-01	17:00:47	2019-05-01	17:30:10	29.38333	mins	0.00548
##	173	2019-05-01	17:00:47	2019-05-01	17:30:10	29.38333	mins	325.
##	174	2019-05-01	17:30:10	2019-05-01	18:00:47	30.61667	mins	53.7
##	175	2019-05-01	17:30:10	2019-05-01	18:00:47	30.61667	mins	140.
##	176	2019-05-01	17:30:10	2019-05-01	18:00:47	30.61667	mins	3.43
##	177	2019-05-01	17:30:10	2019-05-01	18:00:47	30.61667	mins	0.279
##	178	2019-05-01	17:30:10	2019-05-01	18:00:47	30.61667	mins	0.657
##	179	2019-05-01	17:30:10	2019-05-01	18:00:47	30.61667	mins	97.6
##	180	2019-05-01	17:30:10	2019-05-01	18:00:47	30.61667	mins	276.
##	181	2019-05-01	17:30:10	2019-05-01	18:00:47	30.61667	mins	100.
##	182	2019-05-01	17:30:10	2019-05-01	18:00:47	30.61667	mins	24.8
##	183	2019-05-01	17:30:10	2019-05-01	18:00:47	30.61667	mins	90.5
##	184	2019-05-01	18:00:47	2019-05-01	18:30:29	29.70000	mins	31.3
##	185	2019-05-01	18:00:47	2019-05-01	18:30:29	29.70000	mins	103.
##	186	2019-05-01	18:00:47	2019-05-01	18:30:29	29.70000	mins	210.
##	187	2019-05-01	18:00:47	2019-05-01	18:30:29	29.70000	mins	15.7
##	188	2019-05-01	18:00:47	2019-05-01	18:30:29	29.70000	mins	39.0
##	189	2019-05-01	18:00:47	2019-05-01	18:30:29	29.70000	mins	62.7
##	190	2019-05-01	18:00:47	2019-05-01	18:30:29	29.70000	mins	306.
##	191	2019-05-01	18:00:47	2019-05-01	18:30:29	29.70000	mins	0.339
##	192	2019-05-01	18:00:47	2019-05-01	18:30:29	29.70000	mins	0.00371
##	193	2019-05-01	18:00:47	2019-05-01	18:30:29	29.70000	mins	34.5
##	194	2019-05-01	18:30:29	2019-05-01	19:00:14	29.75000	mins	42.9
##	195	2019-05-01	18:30:29	2019-05-01	19:00:14	29.75000	mins	257.
##	196	2019-05-01	18:30:29	2019-05-01	19:00:14	29.75000	mins	42.0
##	197	2019-05-01	18:30:29	2019-05-01	19:00:14	29.75000	mins	2.86

##	198	2019-05-01	18:30:29	2019-05-01	19:00:14	29.75000	mins	12.2
##	199	2019-05-01	18:30:29	2019-05-01	19:00:14	29.75000	mins	96.5
##	200	2019-05-01	18:30:29	2019-05-01	19:00:14	29.75000	mins	4.12
##	201	2019-05-01	18:30:29	2019-05-01	19:00:14	29.75000	mins	11.0
##	202	2019-05-01	18:30:29	2019-05-01	19:00:14	29.75000	mins	130.
##	203	2019-05-01	18:30:29	2019-05-01	19:00:14	29.75000	mins	0.0433
##	204	2019-05-01	19:00:14	2019-05-01	19:30:11	29.95000	mins	69.1
##	205	2019-05-01	19:00:14	2019-05-01	19:30:11	29.95000	mins	22.8
##	206	2019-05-01	19:00:14	2019-05-01	19:30:11	29.95000	mins	136.
##	207	2019-05-01	19:00:14	2019-05-01	19:30:11	29.95000	mins	17.6
##	208	2019-05-01	19:00:14	2019-05-01	19:30:11	29.95000	mins	26.1
##	209	2019-05-01	19:00:14	2019-05-01	19:30:11	29.95000	mins	1.42
##	210	2019-05-01	19:00:14	2019-05-01	19:30:11	29.95000	mins	15.0
##	211	2019-05-01	19:00:14	2019-05-01	19:30:11	29.95000	mins	309.
##	212	2019-05-01	19:00:14	2019-05-01	19:30:11	29.95000	mins	113.
##	213	2019-05-01	19:00:14	2019-05-01	19:30:11	29.95000	mins	190.
##	214	2019-05-01	19:30:11	2019-05-01	20:00:47	30.60000	mins	181.
##	215	2019-05-01	19:30:11	2019-05-01	20:00:47	30.60000	mins	39.5
##	216	2019-05-01	19:30:11	2019-05-01	20:00:47	30.60000	mins	37.8
##	217	2019-05-01	19:30:11	2019-05-01	20:00:47	30.60000	mins	61.7
##	218	2019-05-01	19:30:11	2019-05-01	20:00:47	30.60000	mins	81.2
##	219	2019-05-01	19:30:11	2019-05-01	20:00:47	30.60000	mins	197.
##	220	2019-05-01	19:30:11	2019-05-01	20:00:47	30.60000	mins	7.23
##	221	2019-05-01	19:30:11	2019-05-01	20:00:47	30.60000	mins	1.89
##	222	2019-05-01	19:30:11	2019-05-01	20:00:47	30.60000	mins	4.61
##	223	2019-05-01	19:30:11	2019-05-01	20:00:47	30.60000	mins	66.8
##	224	2019-05-01	20:00:47	2019-05-01	20:31:01	30.23333	mins	159.
##	225	2019-05-01	20:00:47	2019-05-01	20:31:01	30.23333	mins	12.7
##	226	2019-05-01	20:00:47	2019-05-01	20:31:01	30.23333	mins	140.
##	227	2019-05-01	20:00:47	2019-05-01	20:31:01	30.23333	mins	202.
##	228	2019-05-01	20:00:47	2019-05-01	20:31:01	30.23333	mins	123.
##	229	2019-05-01	20:00:47	2019-05-01	20:31:01	30.23333	mins	7.54
##	230	2019-05-01	20:00:47	2019-05-01	20:31:01	30.23333	mins	12.1
##	231	2019-05-01	20:00:47	2019-05-01	20:31:01	30.23333	mins	0.355
##	232	2019-05-01	20:00:47	2019-05-01	20:31:01	30.23333	mins	19.3
##	233	2019-05-01	20:00:47	2019-05-01	20:31:01	30.23333	mins	44.9
##	234	2019-05-01	20:31:01	2019-05-01	21:00:47	29.76667	mins	25.0
##	235	2019-05-01	20:31:01	2019-05-01	21:00:47	29.76667	mins	58.2
##	236	2019-05-01	20:31:01	2019-05-01	21:00:47	29.76667	mins	32.9
##	237	2019-05-01	20:31:01	2019-05-01	21:00:47	29.76667	mins	17.7
##	238	2019-05-01	20:31:01	2019-05-01	21:00:47	29.76667	mins	36.4
##	239	2019-05-01	20:31:01	2019-05-01	21:00:47	29.76667	mins	40.2
##	240	2019-05-01	21:00:47	2019-05-01	21:31:55	31.13333	mins	72.5
##	241	2019-05-01	21:00:47	2019-05-01	21:31:55	31.13333	mins	5.77
##	242	2019-05-01	21:00:47	2019-05-01	21:31:55	31.13333	mins	11.8
##	243	2019-05-01	21:00:47	2019-05-01	21:31:55	31.13333	mins	30.7
##	244	2019-05-01	21:00:47	2019-05-01	21:31:55	31.13333	mins	32.8
##	245	2019-05-01	21:00:47	2019-05-01	21:31:55	31.13333	mins	4.67
##	246	2019-05-01	21:31:55	2019-05-01	22:00:10	28.25000	mins	12.4
##	247	2019-05-01	21:31:55	2019-05-01	22:00:10	28.25000	mins	8.26
##	248	2019-05-01	21:31:55	2019-05-01	22:00:10	28.25000	mins	0.965
##	249	2019-05-01	21:31:55	2019-05-01	22:00:10	28.25000	mins	6.98
##	250	2019-05-01	21:31:55	2019-05-01	22:00:10	28.25000	mins	64.0
##	251	2019-05-01	21:31:55	2019-05-01	22:00:10	28.25000	mins	4.37

##	252	2019-05-01	21:31:55	2019-05-01	22:00:10	28.25000	mins	3.39
##	253	2019-05-01	21:31:55	2019-05-01	22:00:10	28.25000	mins	0.611
##	254	2019-05-01	21:31:55	2019-05-01	22:00:10	28.25000	mins	0.0270
##	255	2019-05-01	21:31:55	2019-05-01	22:00:10	28.25000	mins	48.9
##	256	2019-05-01	22:00:10	2019-05-01	22:30:06	29.93333	mins	25.8
##	257	2019-05-01	22:00:10	2019-05-01	22:30:06	29.93333	mins	50.6
##	258	2019-05-01	22:00:10	2019-05-01	22:30:06	29.93333	mins	89.8
##	259	2019-05-01	22:00:10	2019-05-01	22:30:06	29.93333	mins	14.0
##	260	2019-05-01	22:00:10	2019-05-01	22:30:06	29.93333	mins	164.
##	261	2019-05-01	22:00:10	2019-05-01	22:30:06	29.93333	mins	13.7
##	262	2019-05-01	22:00:10	2019-05-01	22:30:06	29.93333	mins	192.
##	263	2019-05-01	22:30:06	2019-05-01	23:00:47	30.68333	mins	38.1
##	264	2019-05-01	22:30:06	2019-05-01	23:00:47	30.68333	mins	1.12
##	265	2019-05-01	22:30:06	2019-05-01	23:00:47	30.68333	mins	7.83
##	266	2019-05-01	22:30:06	2019-05-01	23:00:47	30.68333	mins	24.6
##	267	2019-05-01	22:30:06	2019-05-01	23:00:47	30.68333	mins	19.4
##	268	2019-05-01	23:00:47	2019-05-01	23:30:48	30.01667	mins	3.29
##	269	2019-05-01	23:00:47	2019-05-01	23:30:48	30.01667	mins	123.
##	270	2019-05-01	23:00:47	2019-05-01	23:30:48	30.01667	mins	0.0975
##	271	2019-05-01	23:00:47	2019-05-01	23:30:48	30.01667	mins	36.7
##	272	2019-05-01	23:00:47	2019-05-01	23:30:48	30.01667	mins	87.6
##	273	2019-05-01	23:00:47	2019-05-01	23:30:48	30.01667	mins	0.954
##	274	2019-05-01	23:00:47	2019-05-01	23:30:48	30.01667	mins	555.
##	275	2019-05-01	23:00:47	2019-05-01	23:30:48	30.01667	mins	96.9
##	276	2019-05-01	23:30:48	2019-05-02	00:00:47	29.98333	mins	52.3
##	277	2019-05-01	23:30:48	2019-05-02	00:00:47	29.98333	mins	41.9
##	278	2019-05-01	23:30:48	2019-05-02	00:00:47	29.98333	mins	0.0173
##	279	2019-05-01	23:30:48	2019-05-02	00:00:47	29.98333	mins	35.5
##	280	2019-05-01	23:30:48	2019-05-02	00:00:47	29.98333	mins	155.
##	281	2019-05-01	23:30:48	2019-05-02	00:00:47	29.98333	mins	210.
##	282	2019-05-01	23:30:48	2019-05-02	00:00:47	29.98333	mins	27.1
##	283	2019-05-01	23:30:48	2019-05-02	00:00:47	29.98333	mins	7.67
##	284	2019-05-01	23:30:48	2019-05-02	00:00:47	29.98333	mins	73.5
##	285	2019-05-01	23:30:48	2019-05-02	00:00:47	29.98333	mins	27.6
##	286	2019-05-02	00:00:47	2019-05-02	00:30:41	29.90000	mins	62.6
##	287	2019-05-02	00:00:47	2019-05-02	00:30:41	29.90000	mins	16.9
##	288	2019-05-02	00:00:47	2019-05-02	00:30:41	29.90000	mins	1.09
##	289	2019-05-02	00:00:47	2019-05-02	00:30:41	29.90000	mins	77.0
##	290	2019-05-02	00:00:47	2019-05-02	00:30:41	29.90000	mins	76.6
##	291	2019-05-02	00:00:47	2019-05-02	00:30:41	29.90000	mins	169.
##	292	2019-05-02	00:00:47	2019-05-02	00:30:41	29.90000	mins	78.9
##	293	2019-05-02	00:00:47	2019-05-02	00:30:41	29.90000	mins	45.8
##	294	2019-05-02	00:00:47	2019-05-02	00:30:41	29.90000	mins	14.2
##	295	2019-05-02	00:30:41	2019-05-02	01:00:46	30.08333	mins	46.9
##	296	2019-05-02	00:30:41	2019-05-02	01:00:46	30.08333	mins	3.80
##	297	2019-05-02	00:30:41	2019-05-02	01:00:46	30.08333	mins	134.
##	298	2019-05-02	00:30:41	2019-05-02	01:00:46	30.08333	mins	2.31
##	299	2019-05-02	00:30:41	2019-05-02	01:00:46	30.08333	mins	12.8
##	300	2019-05-02	00:30:41	2019-05-02	01:00:46	30.08333	mins	2.17
##	301	2019-05-02	01:00:46	2019-05-02	01:30:47	30.01667	mins	5.16
##	302	2019-05-02	01:00:46	2019-05-02	01:30:47	30.01667	mins	60.1
##	303	2019-05-02	01:00:46	2019-05-02	01:30:47	30.01667	mins	63.2
##	304	2019-05-02	01:00:46	2019-05-02	01:30:47	30.01667	mins	75.2
##	305	2019-05-02	01:00:46	2019-05-02	01:30:47	30.01667	mins	15.0

##	306	2019-05-02	01:00:46	2019-05-02	01:30:47	30.01667	mins	152.
##	307	2019-05-02	01:00:46	2019-05-02	01:30:47	30.01667	mins	3.78
##	308	2019-05-02	01:00:46	2019-05-02	01:30:47	30.01667	mins	18.5
##	309	2019-05-02	01:30:47	2019-05-02	02:00:46	29.98333	mins	104.
##	310	2019-05-02	01:30:47	2019-05-02	02:00:46	29.98333	mins	490.
##	311	2019-05-02	01:30:47	2019-05-02	02:00:46	29.98333	mins	97.5
##	312	2019-05-02	01:30:47	2019-05-02	02:00:46	29.98333	mins	9.53
##	313	2019-05-02	01:30:47	2019-05-02	02:00:46	29.98333	mins	54.2
##	314	2019-05-02	01:30:47	2019-05-02	02:00:46	29.98333	mins	17.4
##	315	2019-05-02	01:30:47	2019-05-02	02:00:46	29.98333	mins	3.18
##	316	2019-05-02	01:30:47	2019-05-02	02:00:46	29.98333	mins	142.
##	317	2019-05-02	01:30:47	2019-05-02	02:00:46	29.98333	mins	0.230
##	318	2019-05-02	02:00:46	2019-05-02	02:30:34	29.80000	mins	60.0
##	319	2019-05-02	02:00:46	2019-05-02	02:30:34	29.80000	mins	86.2
##	320	2019-05-02	02:00:46	2019-05-02	02:30:34	29.80000	mins	6.43
##	321	2019-05-02	02:00:46	2019-05-02	02:30:34	29.80000	mins	3.98
##	322	2019-05-02	02:00:46	2019-05-02	02:30:34	29.80000	mins	106.
##	323	2019-05-02	02:00:46	2019-05-02	02:30:34	29.80000	mins	421.
##	324	2019-05-02	02:00:46	2019-05-02	02:30:34	29.80000	mins	47.8
##	325	2019-05-02	02:00:46	2019-05-02	02:30:34	29.80000	mins	4.55
##	326	2019-05-02	02:00:46	2019-05-02	02:30:34	29.80000	mins	7.76
##	327	2019-05-02	02:30:34	2019-05-02	03:00:12	29.63333	mins	2.22
##	328	2019-05-02	02:30:34	2019-05-02	03:00:12	29.63333	mins	133.
##	329	2019-05-02	02:30:34	2019-05-02	03:00:12	29.63333	mins	139.
##	330	2019-05-02	02:30:34	2019-05-02	03:00:12	29.63333	mins	72.6
##	331	2019-05-02	02:30:34	2019-05-02	03:00:12	29.63333	mins	54.8
##	332	2019-05-02	02:30:34	2019-05-02	03:00:12	29.63333	mins	109.
##	333	2019-05-02	02:30:34	2019-05-02	03:00:12	29.63333	mins	70.6
##	334	2019-05-02	02:30:34	2019-05-02	03:00:12	29.63333	mins	70.0
##	335	2019-05-02	02:30:34	2019-05-02	03:00:12	29.63333	mins	0.0425
##	336	2019-05-02	02:30:34	2019-05-02	03:00:12	29.63333	mins	3.81
##	337	2019-05-02	03:00:12	2019-05-02	03:30:47	30.58333	mins	69.6
##	338	2019-05-02	03:00:12	2019-05-02	03:30:47	30.58333	mins	74.3
##	339	2019-05-02	03:00:12	2019-05-02	03:30:47	30.58333	mins	5.44
##	340	2019-05-02	03:00:12	2019-05-02	03:30:47	30.58333	mins	181.
##	341	2019-05-02	03:00:12	2019-05-02	03:30:47	30.58333	mins	73.0
##	342	2019-05-02	03:00:12	2019-05-02	03:30:47	30.58333	mins	25.7
##	343	2019-05-02	03:00:12	2019-05-02	03:30:47	30.58333	mins	64.5
##	344	2019-05-02	03:00:12	2019-05-02	03:30:47	30.58333	mins	18.3
##	345	2019-05-02	03:00:12	2019-05-02	03:30:47	30.58333	mins	32.6
##	346	2019-05-02	03:00:12	2019-05-02	03:30:47	30.58333	mins	7.87
##	347	2019-05-02	03:30:47	2019-05-02	04:00:36	29.81667	mins	1.61
##	348	2019-05-02	03:30:47	2019-05-02	04:00:36	29.81667	mins	2.93
##	349	2019-05-02	03:30:47	2019-05-02	04:00:36	29.81667	mins	0.293
##	350	2019-05-02	03:30:47	2019-05-02	04:00:36	29.81667	mins	0.754
##	351	2019-05-02	03:30:47	2019-05-02	04:00:36	29.81667	mins	89.9
##	352	2019-05-02	03:30:47	2019-05-02	04:00:36	29.81667	mins	34.2
##	353	2019-05-02	03:30:47	2019-05-02	04:00:36	29.81667	mins	214.
##	354	2019-05-02	03:30:47	2019-05-02	04:00:36	29.81667	mins	5.29
##	355	2019-05-02	03:30:47	2019-05-02	04:00:36	29.81667	mins	0.295
##	356	2019-05-02	03:30:47	2019-05-02	04:00:36	29.81667	mins	71.2
##	357	2019-05-02	04:00:36	2019-05-02	04:30:17	29.68333	mins	1.61
##	358	2019-05-02	04:00:36	2019-05-02	04:30:17	29.68333	mins	35.9
##	359	2019-05-02	04:00:36	2019-05-02	04:30:17	29.68333	mins	46.5

##	360	2019-05-02	04:00:36	2019-05-02	04:30:17	29.68333	mins	337.
##	361	2019-05-02	04:00:36	2019-05-02	04:30:17	29.68333	mins	170.
##	362	2019-05-02	04:00:36	2019-05-02	04:30:17	29.68333	mins	167.
##	363	2019-05-02	04:00:36	2019-05-02	04:30:17	29.68333	mins	5.15
##	364	2019-05-02	04:00:36	2019-05-02	04:30:17	29.68333	mins	75.1
##	365	2019-05-02	04:00:36	2019-05-02	04:30:17	29.68333	mins	104.
##	366	2019-05-02	04:30:17	2019-05-02	05:00:27	30.16667	mins	1.68
##	367	2019-05-02	04:30:17	2019-05-02	05:00:27	30.16667	mins	22.9
##	368	2019-05-02	04:30:17	2019-05-02	05:00:27	30.16667	mins	5.57
##	369	2019-05-02	04:30:17	2019-05-02	05:00:27	30.16667	mins	61.1
##	370	2019-05-02	04:30:17	2019-05-02	05:00:27	30.16667	mins	12.4
##	371	2019-05-02	04:30:17	2019-05-02	05:00:27	30.16667	mins	88.9
##	372	2019-05-02	04:30:17	2019-05-02	05:00:27	30.16667	mins	81.9
##	373	2019-05-02	04:30:17	2019-05-02	05:00:27	30.16667	mins	133.
##	374	2019-05-02	04:30:17	2019-05-02	05:00:27	30.16667	mins	117.
##	375	2019-05-02	05:00:27	2019-05-02	05:30:47	30.33333	mins	0.000918
##	376	2019-05-02	05:00:27	2019-05-02	05:30:47	30.33333	mins	94.5
##	377	2019-05-02	05:00:27	2019-05-02	05:30:47	30.33333	mins	16.5
##	378	2019-05-02	05:00:27	2019-05-02	05:30:47	30.33333	mins	37.7
##	379	2019-05-02	05:00:27	2019-05-02	05:30:47	30.33333	mins	5.42
##	380	2019-05-02	05:00:27	2019-05-02	05:30:47	30.33333	mins	67.1
##	381	2019-05-02	05:00:27	2019-05-02	05:30:47	30.33333	mins	25.8
##	382	2019-05-02	05:00:27	2019-05-02	05:30:47	30.33333	mins	47.5
##	383	2019-05-02	05:00:27	2019-05-02	05:30:47	30.33333	mins	25.7
##	384	2019-05-02	05:00:27	2019-05-02	05:30:47	30.33333	mins	166.
##	385	2019-05-02	05:30:47	2019-05-02	06:00:46	29.98333	mins	2.63
##	386	2019-05-02	05:30:47	2019-05-02	06:00:46	29.98333	mins	0.700
##	387	2019-05-02	05:30:47	2019-05-02	06:00:46	29.98333	mins	2.88
##	388	2019-05-02	05:30:47	2019-05-02	06:00:46	29.98333	mins	0.342
##	389	2019-05-02	05:30:47	2019-05-02	06:00:46	29.98333	mins	2.86
##	390	2019-05-02	05:30:47	2019-05-02	06:00:46	29.98333	mins	157.
##	391	2019-05-02	05:30:47	2019-05-02	06:00:46	29.98333	mins	22.8
##	392	2019-05-02	05:30:47	2019-05-02	06:00:46	29.98333	mins	23.9
##	393	2019-05-02	05:30:47	2019-05-02	06:00:46	29.98333	mins	160.
##	394	2019-05-02	06:00:46	2019-05-02	06:30:47	30.01667	mins	5.25
##	395	2019-05-02	06:00:46	2019-05-02	06:30:47	30.01667	mins	52.4
##	396	2019-05-02	06:00:46	2019-05-02	06:30:47	30.01667	mins	90.1
##	397	2019-05-02	06:00:46	2019-05-02	06:30:47	30.01667	mins	12.6
##	398	2019-05-02	06:00:46	2019-05-02	06:30:47	30.01667	mins	658.
##	399	2019-05-02	06:00:46	2019-05-02	06:30:47	30.01667	mins	68.9
##	400	2019-05-02	06:00:46	2019-05-02	06:30:47	30.01667	mins	1.11
##	401	2019-05-02	06:00:46	2019-05-02	06:30:47	30.01667	mins	109.
##	402	2019-05-02	06:00:46	2019-05-02	06:30:47	30.01667	mins	17.3
##	403	2019-05-02	06:30:47	2019-05-02	07:00:36	29.81667	mins	4.18
##	404	2019-05-02	06:30:47	2019-05-02	07:00:36	29.81667	mins	92.8
##	405	2019-05-02	06:30:47	2019-05-02	07:00:36	29.81667	mins	15.7
##	406	2019-05-02	06:30:47	2019-05-02	07:00:36	29.81667	mins	3.20
##	407	2019-05-02	06:30:47	2019-05-02	07:00:36	29.81667	mins	15.1
##	408	2019-05-02	06:30:47	2019-05-02	07:00:36	29.81667	mins	51.9
##	409	2019-05-02	06:30:47	2019-05-02	07:00:36	29.81667	mins	42.3
##	410	2019-05-02	07:00:36	2019-05-02	07:30:08	29.53333	mins	33.3
##	411	2019-05-02	07:00:36	2019-05-02	07:30:08	29.53333	mins	23.7
##	412	2019-05-02	07:00:36	2019-05-02	07:30:08	29.53333	mins	24.2
##	413	2019-05-02	07:00:36	2019-05-02	07:30:08	29.53333	mins	70.0

##	414	2019-05-02	07:00:36	2019-05-02	07:30:08	29.53333	mins	98.1
##	415	2019-05-02	07:00:36	2019-05-02	07:30:08	29.53333	mins	103.
##	416	2019-05-02	07:00:36	2019-05-02	07:30:08	29.53333	mins	6.65
##	417	2019-05-02	07:00:36	2019-05-02	07:30:08	29.53333	mins	106.
##	418	2019-05-02	07:00:36	2019-05-02	07:30:08	29.53333	mins	72.1
##	419	2019-05-02	07:30:08	2019-05-02	08:00:41	30.55000	mins	1.16
##	420	2019-05-02	07:30:08	2019-05-02	08:00:41	30.55000	mins	0.938
##	421	2019-05-02	07:30:08	2019-05-02	08:00:41	30.55000	mins	9.93
##	422	2019-05-02	07:30:08	2019-05-02	08:00:41	30.55000	mins	40.4
##	423	2019-05-02	07:30:08	2019-05-02	08:00:41	30.55000	mins	2.70
##	424	2019-05-02	07:30:08	2019-05-02	08:00:41	30.55000	mins	8.22
##	425	2019-05-02	07:30:08	2019-05-02	08:00:41	30.55000	mins	0.386
##	426	2019-05-02	08:00:41	2019-05-02	08:30:14	29.55000	mins	4.71
##	427	2019-05-02	08:00:41	2019-05-02	08:30:14	29.55000	mins	5.46
##	428	2019-05-02	08:00:41	2019-05-02	08:30:14	29.55000	mins	1049.
##	429	2019-05-02	08:00:41	2019-05-02	08:30:14	29.55000	mins	45.7
##	430	2019-05-02	08:00:41	2019-05-02	08:30:14	29.55000	mins	76.0
##	431	2019-05-02	08:00:41	2019-05-02	08:30:14	29.55000	mins	0.601
##	432	2019-05-02	08:00:41	2019-05-02	08:30:14	29.55000	mins	75.7
##	433	2019-05-02	08:00:41	2019-05-02	08:30:14	29.55000	mins	0.828
##	434	2019-05-02	08:00:41	2019-05-02	08:30:14	29.55000	mins	18.2
##	435	2019-05-02	08:30:14	2019-05-02	09:00:13	29.98333	mins	2.63
##	436	2019-05-02	08:30:14	2019-05-02	09:00:13	29.98333	mins	0.504
##	437	2019-05-02	08:30:14	2019-05-02	09:00:13	29.98333	mins	44.4
##	438	2019-05-02	08:30:14	2019-05-02	09:00:13	29.98333	mins	115.
##	439	2019-05-02	08:30:14	2019-05-02	09:00:13	29.98333	mins	20.8
##	440	2019-05-02	08:30:14	2019-05-02	09:00:13	29.98333	mins	3.49
##	441	2019-05-02	08:30:14	2019-05-02	09:00:13	29.98333	mins	195.
##	442	2019-05-02	08:30:14	2019-05-02	09:00:13	29.98333	mins	241.
##	443	2019-05-02	08:30:14	2019-05-02	09:00:13	29.98333	mins	18.1
##	444	2019-05-02	09:00:13	2019-05-02	09:30:46	30.55000	mins	58.9
##	445	2019-05-02	09:00:13	2019-05-02	09:30:46	30.55000	mins	64.8
##	446	2019-05-02	09:00:13	2019-05-02	09:30:46	30.55000	mins	45.9
##	447	2019-05-02	09:00:13	2019-05-02	09:30:46	30.55000	mins	2.31
##	448	2019-05-02	09:00:13	2019-05-02	09:30:46	30.55000	mins	119.
##	449	2019-05-02	09:00:13	2019-05-02	09:30:46	30.55000	mins	59.0
##	450	2019-05-02	09:00:13	2019-05-02	09:30:46	30.55000	mins	19.6
##	451	2019-05-02	09:30:46	2019-05-02	10:00:55	30.15000	mins	27.8
##	452	2019-05-02	09:30:46	2019-05-02	10:00:55	30.15000	mins	0.555
##	453	2019-05-02	09:30:46	2019-05-02	10:00:55	30.15000	mins	0.00382
##	454	2019-05-02	09:30:46	2019-05-02	10:00:55	30.15000	mins	53.9
##	455	2019-05-02	09:30:46	2019-05-02	10:00:55	30.15000	mins	1.48
##	456	2019-05-02	09:30:46	2019-05-02	10:00:55	30.15000	mins	51.6
##	457	2019-05-02	09:30:46	2019-05-02	10:00:55	30.15000	mins	7.95
##	458	2019-05-02	09:30:46	2019-05-02	10:00:55	30.15000	mins	216.
##	459	2019-05-02	09:30:46	2019-05-02	10:00:55	30.15000	mins	12.8
##	460	2019-05-02	10:00:55	2019-05-02	10:30:47	29.86667	mins	9.38
##	461	2019-05-02	10:00:55	2019-05-02	10:30:47	29.86667	mins	775.
##	462	2019-05-02	10:00:55	2019-05-02	10:30:47	29.86667	mins	48.5
##	463	2019-05-02	10:00:55	2019-05-02	10:30:47	29.86667	mins	1.24
##	464	2019-05-02	10:00:55	2019-05-02	10:30:47	29.86667	mins	191.
##	465	2019-05-02	10:00:55	2019-05-02	10:30:47	29.86667	mins	0.138
##	466	2019-05-02	10:00:55	2019-05-02	10:30:47	29.86667	mins	2.66
##	467	2019-05-02	10:00:55	2019-05-02	10:30:47	29.86667	mins	62.8

##	468	2019-05-02	10:00:55	2019-05-02	10:30:47	29.86667	mins	40.5
##	469	2019-05-02	10:00:55	2019-05-02	10:30:47	29.86667	mins	3.15
##	470	2019-05-02	10:30:47	2019-05-02	11:00:46	29.98333	mins	8.21
##	471	2019-05-02	10:30:47	2019-05-02	11:00:46	29.98333	mins	152.
##	472	2019-05-02	10:30:47	2019-05-02	11:00:46	29.98333	mins	1.35
##	473	2019-05-02	10:30:47	2019-05-02	11:00:46	29.98333	mins	25.1
##	474	2019-05-02	10:30:47	2019-05-02	11:00:46	29.98333	mins	25.7
##	475	2019-05-02	10:30:47	2019-05-02	11:00:46	29.98333	mins	49.6
##	476	2019-05-02	10:30:47	2019-05-02	11:00:46	29.98333	mins	109.
##	477	2019-05-02	10:30:47	2019-05-02	11:00:46	29.98333	mins	89.1
##	478	2019-05-02	10:30:47	2019-05-02	11:00:46	29.98333	mins	41.9
##	479	2019-05-02	11:00:46	2019-05-02	11:30:46	30.00000	mins	44.3
##	480	2019-05-02	11:00:46	2019-05-02	11:30:46	30.00000	mins	0.0998
##	481	2019-05-02	11:00:46	2019-05-02	11:30:46	30.00000	mins	223.
##	482	2019-05-02	11:00:46	2019-05-02	11:30:46	30.00000	mins	103.
##	483	2019-05-02	11:00:46	2019-05-02	11:30:46	30.00000	mins	385.
##	484	2019-05-02	11:00:46	2019-05-02	11:30:46	30.00000	mins	101.
##	485	2019-05-02	11:00:46	2019-05-02	11:30:46	30.00000	mins	86.7
##	486	2019-05-02	11:00:46	2019-05-02	11:30:46	30.00000	mins	46.1
##	487	2019-05-02	11:00:46	2019-05-02	11:30:46	30.00000	mins	0.867
##	488	2019-05-02	11:00:46	2019-05-02	11:30:46	30.00000	mins	128.
##	489	2019-05-02	11:30:46	2019-05-02	12:00:46	30.00000	mins	45.0
##	490	2019-05-02	11:30:46	2019-05-02	12:00:46	30.00000	mins	37.9
##	491	2019-05-02	11:30:46	2019-05-02	12:00:46	30.00000	mins	166.
##	492	2019-05-02	11:30:46	2019-05-02	12:00:46	30.00000	mins	26.0
##	493	2019-05-02	11:30:46	2019-05-02	12:00:46	30.00000	mins	443.
##	494	2019-05-02	11:30:46	2019-05-02	12:00:46	30.00000	mins	8.02
##	495	2019-05-02	11:30:46	2019-05-02	12:00:46	30.00000	mins	73.3
##	496	2019-05-02	11:30:46	2019-05-02	12:00:46	30.00000	mins	103.
##	497	2019-05-02	11:30:46	2019-05-02	12:00:46	30.00000	mins	23.5
##	498	2019-05-02	11:30:46	2019-05-02	12:00:46	30.00000	mins	87.7
##	499	2019-05-02	12:00:46	2019-05-02	12:31:06	30.33333	mins	3.21
##	500	2019-05-02	12:00:46	2019-05-02	12:31:06	30.33333	mins	5.41
##	501	2019-05-02	12:00:46	2019-05-02	12:31:06	30.33333	mins	12.3
##	502	2019-05-02	12:00:46	2019-05-02	12:31:06	30.33333	mins	196.
##	503	2019-05-02	12:00:46	2019-05-02	12:31:06	30.33333	mins	228.
##	504	2019-05-02	12:00:46	2019-05-02	12:31:06	30.33333	mins	48.3
##	505	2019-05-02	12:00:46	2019-05-02	12:31:06	30.33333	mins	15.7
##	506	2019-05-02	12:00:46	2019-05-02	12:31:06	30.33333	mins	166.
##	507	2019-05-02	12:00:46	2019-05-02	12:31:06	30.33333	mins	1.04
##	508	2019-05-02	12:00:46	2019-05-02	12:31:06	30.33333	mins	21.2
##	509	2019-05-02	12:31:06	2019-05-02	13:00:46	29.66667	mins	111.
##	510	2019-05-02	12:31:06	2019-05-02	13:00:46	29.66667	mins	73.9
##	511	2019-05-02	12:31:06	2019-05-02	13:00:46	29.66667	mins	48.5
##	512	2019-05-02	12:31:06	2019-05-02	13:00:46	29.66667	mins	21.9
##	513	2019-05-02	12:31:06	2019-05-02	13:00:46	29.66667	mins	27.2
##	514	2019-05-02	12:31:06	2019-05-02	13:00:46	29.66667	mins	198.
##	515	2019-05-02	12:31:06	2019-05-02	13:00:46	29.66667	mins	220.
##	516	2019-05-02	12:31:06	2019-05-02	13:00:46	29.66667	mins	190.
##	517	2019-05-02	13:00:46	2019-05-02	13:30:47	30.01667	mins	380.
##	518	2019-05-02	13:00:46	2019-05-02	13:30:47	30.01667	mins	27.2
##	519	2019-05-02	13:00:46	2019-05-02	13:30:47	30.01667	mins	15.2
##	520	2019-05-02	13:00:46	2019-05-02	13:30:47	30.01667	mins	33.5
##	521	2019-05-02	13:00:46	2019-05-02	13:30:47	30.01667	mins	18.0

##	522	2019-05-02	13:00:46	2019-05-02	13:30:47	30.01667	mins	277.
##	523	2019-05-02	13:00:46	2019-05-02	13:30:47	30.01667	mins	81.6
##	524	2019-05-02	13:30:47	2019-05-02	14:00:46	29.98333	mins	379.
##	525	2019-05-02	13:30:47	2019-05-02	14:00:46	29.98333	mins	24.8
##	526	2019-05-02	13:30:47	2019-05-02	14:00:46	29.98333	mins	19.8
##	527	2019-05-02	13:30:47	2019-05-02	14:00:46	29.98333	mins	28.8
##	528	2019-05-02	13:30:47	2019-05-02	14:00:46	29.98333	mins	0.0416
##	529	2019-05-02	13:30:47	2019-05-02	14:00:46	29.98333	mins	26.6
##	530	2019-05-02	13:30:47	2019-05-02	14:00:46	29.98333	mins	6.37
##	531	2019-05-02	14:00:46	2019-05-02	14:31:25	30.65000	mins	63.5
##	532	2019-05-02	14:00:46	2019-05-02	14:31:25	30.65000	mins	70.5
##	533	2019-05-02	14:00:46	2019-05-02	14:31:25	30.65000	mins	22.2
##	534	2019-05-02	14:00:46	2019-05-02	14:31:25	30.65000	mins	32.1
##	535	2019-05-02	14:00:46	2019-05-02	14:31:25	30.65000	mins	48.8
##	536	2019-05-02	14:00:46	2019-05-02	14:31:25	30.65000	mins	28.5
##	537	2019-05-02	14:00:46	2019-05-02	14:31:25	30.65000	mins	0.646
##	538	2019-05-02	14:00:46	2019-05-02	14:31:25	30.65000	mins	48.2
##	539	2019-05-02	14:00:46	2019-05-02	14:31:25	30.65000	mins	60.9
##	540	2019-05-02	14:00:46	2019-05-02	14:31:25	30.65000	mins	8.80
##	541	2019-05-02	14:31:25	2019-05-02	15:00:47	29.36667	mins	15.0
##	542	2019-05-02	14:31:25	2019-05-02	15:00:47	29.36667	mins	0.0000183
##	543	2019-05-02	14:31:25	2019-05-02	15:00:47	29.36667	mins	5.81
##	544	2019-05-02	14:31:25	2019-05-02	15:00:47	29.36667	mins	0.155
##	545	2019-05-02	14:31:25	2019-05-02	15:00:47	29.36667	mins	166.
##	546	2019-05-02	14:31:25	2019-05-02	15:00:47	29.36667	mins	2.49
##	547	2019-05-02	14:31:25	2019-05-02	15:00:47	29.36667	mins	21.0
##	548	2019-05-02	14:31:25	2019-05-02	15:00:47	29.36667	mins	34.5
##	549	2019-05-02	14:31:25	2019-05-02	15:00:47	29.36667	mins	345.
##	550	2019-05-02	14:31:25	2019-05-02	15:00:47	29.36667	mins	0.0105
##	551	2019-05-02	15:00:47	2019-05-02	15:30:33	29.76667	mins	105.
##	552	2019-05-02	15:00:47	2019-05-02	15:30:33	29.76667	mins	133.
##	553	2019-05-02	15:00:47	2019-05-02	15:30:33	29.76667	mins	61.8
##	554	2019-05-02	15:00:47	2019-05-02	15:30:33	29.76667	mins	165.
##	555	2019-05-02	15:00:47	2019-05-02	15:30:33	29.76667	mins	16.4
##	556	2019-05-02	15:00:47	2019-05-02	15:30:33	29.76667	mins	10.7
##	557	2019-05-02	15:00:47	2019-05-02	15:30:33	29.76667	mins	38.9
##	558	2019-05-02	15:00:47	2019-05-02	15:30:33	29.76667	mins	7.35
##	559	2019-05-02	15:00:47	2019-05-02	15:30:33	29.76667	mins	93.0
##	560	2019-05-02	15:00:47	2019-05-02	15:30:33	29.76667	mins	191.
##	561	2019-05-02	15:30:33	2019-05-02	16:00:49	30.26667	mins	30.6
##	562	2019-05-02	15:30:33	2019-05-02	16:00:49	30.26667	mins	0.705
##	563	2019-05-02	15:30:33	2019-05-02	16:00:49	30.26667	mins	407.
##	564	2019-05-02	15:30:33	2019-05-02	16:00:49	30.26667	mins	157.
##	565	2019-05-02	15:30:33	2019-05-02	16:00:49	30.26667	mins	505.
##	566	2019-05-02	15:30:33	2019-05-02	16:00:49	30.26667	mins	2.53
##	567	2019-05-02	15:30:33	2019-05-02	16:00:49	30.26667	mins	22.5
##	568	2019-05-02	15:30:33	2019-05-02	16:00:49	30.26667	mins	219.
##	569	2019-05-02	15:30:33	2019-05-02	16:00:49	30.26667	mins	1.25
##	570	2019-05-02	15:30:33	2019-05-02	16:00:49	30.26667	mins	33.3
##	571	2019-05-02	16:00:49	2019-05-02	16:30:46	29.95000	mins	63.9
##	572	2019-05-02	16:00:49	2019-05-02	16:30:46	29.95000	mins	33.1
##	573	2019-05-02	16:00:49	2019-05-02	16:30:46	29.95000	mins	652.
##	574	2019-05-02	16:00:49	2019-05-02	16:30:46	29.95000	mins	5.18
##	575	2019-05-02	16:00:49	2019-05-02	16:30:46	29.95000	mins	28.9

##	576	2019-05-02	16:00:49	2019-05-02	16:30:46	29.95000	mins	270.
##	577	2019-05-02	16:00:49	2019-05-02	16:30:46	29.95000	mins	10.4
##	578	2019-05-02	16:00:49	2019-05-02	16:30:46	29.95000	mins	24.8
##	579	2019-05-02	16:00:49	2019-05-02	16:30:46	29.95000	mins	21.1
##	580	2019-05-02	16:00:49	2019-05-02	16:30:46	29.95000	mins	296.
##	581	2019-05-02	16:30:46	2019-05-02	17:00:49	30.05000	mins	129.
##	582	2019-05-02	16:30:46	2019-05-02	17:00:49	30.05000	mins	34.8
##	583	2019-05-02	16:30:46	2019-05-02	17:00:49	30.05000	mins	28.4
##	584	2019-05-02	16:30:46	2019-05-02	17:00:49	30.05000	mins	136.
##	585	2019-05-02	16:30:46	2019-05-02	17:00:49	30.05000	mins	23.9
##	586	2019-05-02	16:30:46	2019-05-02	17:00:49	30.05000	mins	10.2
##	587	2019-05-02	16:30:46	2019-05-02	17:00:49	30.05000	mins	62.9
##	588	2019-05-02	16:30:46	2019-05-02	17:00:49	30.05000	mins	7.97
##	589	2019-05-02	16:30:46	2019-05-02	17:00:49	30.05000	mins	17.2
##	590	2019-05-02	16:30:46	2019-05-02	17:00:49	30.05000	mins	149.
##	591	2019-05-02	17:00:49	2019-05-02	17:30:45	29.93333	mins	29.9
##	592	2019-05-02	17:00:49	2019-05-02	17:30:45	29.93333	mins	259.
##	593	2019-05-02	17:00:49	2019-05-02	17:30:45	29.93333	mins	96.9
##	594	2019-05-02	17:00:49	2019-05-02	17:30:45	29.93333	mins	34.9
##	595	2019-05-02	17:00:49	2019-05-02	17:30:45	29.93333	mins	22.9
##	596	2019-05-02	17:00:49	2019-05-02	17:30:45	29.93333	mins	23.6
##	597	2019-05-02	17:00:49	2019-05-02	17:30:45	29.93333	mins	12.7
##	598	2019-05-02	17:00:49	2019-05-02	17:30:45	29.93333	mins	0.385
##	599	2019-05-02	17:00:49	2019-05-02	17:30:45	29.93333	mins	48.0
##	600	2019-05-02	17:00:49	2019-05-02	17:30:45	29.93333	mins	4.02
##	601	2019-05-02	17:30:45	2019-05-02	18:00:16	29.51667	mins	49.7
##	602	2019-05-02	17:30:45	2019-05-02	18:00:16	29.51667	mins	161.
##	603	2019-05-02	17:30:45	2019-05-02	18:00:16	29.51667	mins	101.
##	604	2019-05-02	17:30:45	2019-05-02	18:00:16	29.51667	mins	80.5
##	605	2019-05-02	17:30:45	2019-05-02	18:00:16	29.51667	mins	249.
##	606	2019-05-02	17:30:45	2019-05-02	18:00:16	29.51667	mins	1196.
##	607	2019-05-02	17:30:45	2019-05-02	18:00:16	29.51667	mins	144.
##	608	2019-05-02	17:30:45	2019-05-02	18:00:16	29.51667	mins	17.2
##	609	2019-05-02	17:30:45	2019-05-02	18:00:16	29.51667	mins	3.63
##	610	2019-05-02	17:30:45	2019-05-02	18:00:16	29.51667	mins	13.4
##	611	2019-05-02	18:00:16	2019-05-02	18:30:21	30.08333	mins	25.5
##	612	2019-05-02	18:00:16	2019-05-02	18:30:21	30.08333	mins	254.
##	613	2019-05-02	18:00:16	2019-05-02	18:30:21	30.08333	mins	6.73
##	614	2019-05-02	18:00:16	2019-05-02	18:30:21	30.08333	mins	38.3
##	615	2019-05-02	18:00:16	2019-05-02	18:30:21	30.08333	mins	61.5
##	616	2019-05-02	18:00:16	2019-05-02	18:30:21	30.08333	mins	3.20
##	617	2019-05-02	18:00:16	2019-05-02	18:30:21	30.08333	mins	91.3
##	618	2019-05-02	18:00:16	2019-05-02	18:30:21	30.08333	mins	213.
##	619	2019-05-02	18:00:16	2019-05-02	18:30:21	30.08333	mins	34.0
##	620	2019-05-02	18:30:21	2019-05-02	19:00:19	29.96667	mins	69.1
##	621	2019-05-02	18:30:21	2019-05-02	19:00:19	29.96667	mins	80.1
##	622	2019-05-02	18:30:21	2019-05-02	19:00:19	29.96667	mins	129.
##	623	2019-05-02	18:30:21	2019-05-02	19:00:19	29.96667	mins	127.
##	624	2019-05-02	18:30:21	2019-05-02	19:00:19	29.96667	mins	31.3
##	625	2019-05-02	18:30:21	2019-05-02	19:00:19	29.96667	mins	67.0
##	626	2019-05-02	18:30:21	2019-05-02	19:00:19	29.96667	mins	45.2
##	627	2019-05-02	18:30:21	2019-05-02	19:00:19	29.96667	mins	18.0
##	628	2019-05-02	18:30:21	2019-05-02	19:00:19	29.96667	mins	0.717
##	629	2019-05-02	18:30:21	2019-05-02	19:00:19	29.96667	mins	0.405

##	630	2019-05-02	19:00:19	2019-05-02	19:30:35	30.26667	mins	8.42
##	631	2019-05-02	19:00:19	2019-05-02	19:30:35	30.26667	mins	40.7
##	632	2019-05-02	19:00:19	2019-05-02	19:30:35	30.26667	mins	331.
##	633	2019-05-02	19:00:19	2019-05-02	19:30:35	30.26667	mins	89.7
##	634	2019-05-02	19:00:19	2019-05-02	19:30:35	30.26667	mins	5.36
##	635	2019-05-02	19:00:19	2019-05-02	19:30:35	30.26667	mins	14.6
##	636	2019-05-02	19:00:19	2019-05-02	19:30:35	30.26667	mins	89.7
##	637	2019-05-02	19:00:19	2019-05-02	19:30:35	30.26667	mins	8.05
##	638	2019-05-02	19:00:19	2019-05-02	19:30:35	30.26667	mins	9.55
##	639	2019-05-02	19:00:19	2019-05-02	19:30:35	30.26667	mins	96.4
##	640	2019-05-02	22:01:19	2019-05-02	22:30:47	29.46667	mins	172.
##	641	2019-05-02	22:01:19	2019-05-02	22:30:47	29.46667	mins	24.8
##	642	2019-05-02	22:01:19	2019-05-02	22:30:47	29.46667	mins	43.4
##	643	2019-05-02	22:01:19	2019-05-02	22:30:47	29.46667	mins	26.1
##	644	2019-05-02	22:01:19	2019-05-02	22:30:47	29.46667	mins	17.9
##	645	2019-05-02	22:01:19	2019-05-02	22:30:47	29.46667	mins	118.
##	646	2019-05-02	22:01:19	2019-05-02	22:30:47	29.46667	mins	128.
##	647	2019-05-02	22:01:19	2019-05-02	22:30:47	29.46667	mins	75.2
##	648	2019-05-02	22:01:19	2019-05-02	22:30:47	29.46667	mins	69.0
##	649	2019-05-02	22:01:19	2019-05-02	22:30:47	29.46667	mins	370.
##	650	2019-05-02	22:30:47	2019-05-02	23:00:46	29.98333	mins	527.
##	651	2019-05-02	22:30:47	2019-05-02	23:00:46	29.98333	mins	37.0
##	652	2019-05-02	22:30:47	2019-05-02	23:00:46	29.98333	mins	231.
##	653	2019-05-02	22:30:47	2019-05-02	23:00:46	29.98333	mins	49.5
##	654	2019-05-02	22:30:47	2019-05-02	23:00:46	29.98333	mins	79.7
##	655	2019-05-02	22:30:47	2019-05-02	23:00:46	29.98333	mins	79.8
##	656	2019-05-02	22:30:47	2019-05-02	23:00:46	29.98333	mins	5.09
##	657	2019-05-02	22:30:47	2019-05-02	23:00:46	29.98333	mins	15.9
##	658	2019-05-02	22:30:47	2019-05-02	23:00:46	29.98333	mins	2.33
##	659	2019-05-02	22:30:47	2019-05-02	23:00:46	29.98333	mins	354.
##	660	2019-05-03	00:30:47	2019-05-03	01:01:26	30.65000	mins	12.1
##	661	2019-05-03	00:30:47	2019-05-03	01:01:26	30.65000	mins	29.3
##	662	2019-05-03	00:30:47	2019-05-03	01:01:26	30.65000	mins	96.9
##	663	2019-05-03	00:30:47	2019-05-03	01:01:26	30.65000	mins	210.
##	664	2019-05-03	00:30:47	2019-05-03	01:01:26	30.65000	mins	326.
##	665	2019-05-03	00:30:47	2019-05-03	01:01:26	30.65000	mins	114.
##	666	2019-05-03	00:30:47	2019-05-03	01:01:26	30.65000	mins	124.
##	667	2019-05-03	00:30:47	2019-05-03	01:01:26	30.65000	mins	2.20
##	668	2019-05-03	00:30:47	2019-05-03	01:01:26	30.65000	mins	20.6
##	669	2019-05-03	00:30:47	2019-05-03	01:01:26	30.65000	mins	339.
##	670	2019-05-03	01:01:26	2019-05-03	01:30:45	29.31667	mins	14.3
##	671	2019-05-03	01:01:26	2019-05-03	01:30:45	29.31667	mins	43.0
##	672	2019-05-03	01:01:26	2019-05-03	01:30:45	29.31667	mins	675.
##	673	2019-05-03	01:01:26	2019-05-03	01:30:45	29.31667	mins	63.5
##	674	2019-05-03	01:01:26	2019-05-03	01:30:45	29.31667	mins	173.
##	675	2019-05-03	01:01:26	2019-05-03	01:30:45	29.31667	mins	34.2
##	676	2019-05-03	01:01:26	2019-05-03	01:30:45	29.31667	mins	16.5
##	677	2019-05-03	01:01:26	2019-05-03	01:30:45	29.31667	mins	49.6
##	678	2019-05-03	01:01:26	2019-05-03	01:30:45	29.31667	mins	197.
##	679	2019-05-03	01:30:45	2019-05-03	02:00:46	30.01667	mins	7.93
##	680	2019-05-03	01:30:45	2019-05-03	02:00:46	30.01667	mins	8.98
##	681	2019-05-03	01:30:45	2019-05-03	02:00:46	30.01667	mins	56.4
##	682	2019-05-03	01:30:45	2019-05-03	02:00:46	30.01667	mins	10.2
##	683	2019-05-03	01:30:45	2019-05-03	02:00:46	30.01667	mins	0.447

##	684	2019-05-03	01:30:45	2019-05-03	02:00:46	30.01667	mins	2.72
##	685	2019-05-03	01:30:45	2019-05-03	02:00:46	30.01667	mins	127.
##	686	2019-05-03	01:30:45	2019-05-03	02:00:46	30.01667	mins	159.
##	687	2019-05-03	01:30:45	2019-05-03	02:00:46	30.01667	mins	9.17
##	688	2019-05-03	02:00:46	2019-05-03	02:30:17	29.51667	mins	32.5
##	689	2019-05-03	02:00:46	2019-05-03	02:30:17	29.51667	mins	22.7
##	690	2019-05-03	02:00:46	2019-05-03	02:30:17	29.51667	mins	6.36
##	691	2019-05-03	02:00:46	2019-05-03	02:30:17	29.51667	mins	101.
##	692	2019-05-03	02:00:46	2019-05-03	02:30:17	29.51667	mins	18.6
##	693	2019-05-03	02:00:46	2019-05-03	02:30:17	29.51667	mins	102.
##	694	2019-05-03	02:00:46	2019-05-03	02:30:17	29.51667	mins	62.0
##	695	2019-05-03	02:00:46	2019-05-03	02:30:17	29.51667	mins	185.
##	696	2019-05-03	02:00:46	2019-05-03	02:30:17	29.51667	mins	107.
##	697	2019-05-03	02:00:46	2019-05-03	02:30:17	29.51667	mins	6.32
##	698	2019-05-03	02:30:17	2019-05-03	03:00:31	30.23333	mins	2.60
##	699	2019-05-03	02:30:17	2019-05-03	03:00:31	30.23333	mins	0.421
##	700	2019-05-03	02:30:17	2019-05-03	03:00:31	30.23333	mins	5.99
##	701	2019-05-03	02:30:17	2019-05-03	03:00:31	30.23333	mins	4.50
##	702	2019-05-03	02:30:17	2019-05-03	03:00:31	30.23333	mins	133.
##	703	2019-05-03	02:30:17	2019-05-03	03:00:31	30.23333	mins	197.
##	704	2019-05-03	02:30:17	2019-05-03	03:00:31	30.23333	mins	184.
##	705	2019-05-03	02:30:17	2019-05-03	03:00:31	30.23333	mins	2.26
##	706	2019-05-03	03:00:31	2019-05-03	03:30:17	29.76667	mins	1.22
##	707	2019-05-03	03:00:31	2019-05-03	03:30:17	29.76667	mins	93.5
##	708	2019-05-03	03:00:31	2019-05-03	03:30:17	29.76667	mins	17.0
##	709	2019-05-03	03:00:31	2019-05-03	03:30:17	29.76667	mins	9.94
##	710	2019-05-03	03:00:31	2019-05-03	03:30:17	29.76667	mins	28.3
##	711	2019-05-03	03:00:31	2019-05-03	03:30:17	29.76667	mins	14.1
##	712	2019-05-03	03:00:31	2019-05-03	03:30:17	29.76667	mins	0.258
##	713	2019-05-03	03:00:31	2019-05-03	03:30:17	29.76667	mins	58.7
##	714	2019-05-03	03:00:31	2019-05-03	03:30:17	29.76667	mins	4.07
##	715	2019-05-03	03:00:31	2019-05-03	03:30:17	29.76667	mins	252.
##	716	2019-05-03	03:30:17	2019-05-03	04:00:09	29.86667	mins	36.3
##	717	2019-05-03	03:30:17	2019-05-03	04:00:09	29.86667	mins	50.1
##	718	2019-05-03	03:30:17	2019-05-03	04:00:09	29.86667	mins	143.
##	719	2019-05-03	03:30:17	2019-05-03	04:00:09	29.86667	mins	96.3
##	720	2019-05-03	03:30:17	2019-05-03	04:00:09	29.86667	mins	77.6
##	721	2019-05-03	03:30:17	2019-05-03	04:00:09	29.86667	mins	46.4
##	722	2019-05-03	03:30:17	2019-05-03	04:00:09	29.86667	mins	23.9
##	723	2019-05-03	03:30:17	2019-05-03	04:00:09	29.86667	mins	62.0
##	724	2019-05-03	04:00:09	2019-05-03	04:30:21	30.20000	mins	5.68
##	725	2019-05-03	04:00:09	2019-05-03	04:30:21	30.20000	mins	16.6
##	726	2019-05-03	04:00:09	2019-05-03	04:30:21	30.20000	mins	76.5
##	727	2019-05-03	04:00:09	2019-05-03	04:30:21	30.20000	mins	197.
##	728	2019-05-03	04:00:09	2019-05-03	04:30:21	30.20000	mins	1.40
##	729	2019-05-03	04:00:09	2019-05-03	04:30:21	30.20000	mins	24.2
##	730	2019-05-03	04:00:09	2019-05-03	04:30:21	30.20000	mins	24.2
##	731	2019-05-03	04:00:09	2019-05-03	04:30:21	30.20000	mins	360.
##	732	2019-05-03	04:00:09	2019-05-03	04:30:21	30.20000	mins	13.6
##	733	2019-05-03	04:00:09	2019-05-03	04:30:21	30.20000	mins	380.
##	734	2019-05-03	04:30:21	2019-05-03	05:00:11	29.83333	mins	4.60
##	735	2019-05-03	04:30:21	2019-05-03	05:00:11	29.83333	mins	0.574
##	736	2019-05-03	04:30:21	2019-05-03	05:00:11	29.83333	mins	14.2
##	737	2019-05-03	04:30:21	2019-05-03	05:00:11	29.83333	mins	0.523

##	738	2019-05-03	04:30:21	2019-05-03	05:00:11	29.83333	mins	11.9
##	739	2019-05-03	04:30:21	2019-05-03	05:00:11	29.83333	mins	135.
##	740	2019-05-03	04:30:21	2019-05-03	05:00:11	29.83333	mins	0.00796
##	741	2019-05-03	04:30:21	2019-05-03	05:00:11	29.83333	mins	90.1
##	742	2019-05-03	04:30:21	2019-05-03	05:00:11	29.83333	mins	790.
##	743	2019-05-03	04:30:21	2019-05-03	05:00:11	29.83333	mins	2.16
##	744	2019-05-03	05:00:11	2019-05-03	05:30:47	30.60000	mins	10.5
##	745	2019-05-03	05:00:11	2019-05-03	05:30:47	30.60000	mins	139.
##	746	2019-05-03	05:00:11	2019-05-03	05:30:47	30.60000	mins	4.37
##	747	2019-05-03	05:00:11	2019-05-03	05:30:47	30.60000	mins	41.4
##	748	2019-05-03	05:00:11	2019-05-03	05:30:47	30.60000	mins	1.94
##	749	2019-05-03	05:00:11	2019-05-03	05:30:47	30.60000	mins	247.
##	750	2019-05-03	05:00:11	2019-05-03	05:30:47	30.60000	mins	1.35
##	751	2019-05-03	05:00:11	2019-05-03	05:30:47	30.60000	mins	352.
##	752	2019-05-03	05:00:11	2019-05-03	05:30:47	30.60000	mins	9.67
##	753	2019-05-03	05:00:11	2019-05-03	05:30:47	30.60000	mins	42.9
##	754	2019-05-03	05:30:47	2019-05-03	06:01:31	30.73333	mins	4.55
##	755	2019-05-03	05:30:47	2019-05-03	06:01:31	30.73333	mins	13.2
##	756	2019-05-03	05:30:47	2019-05-03	06:01:31	30.73333	mins	183.
##	757	2019-05-03	05:30:47	2019-05-03	06:01:31	30.73333	mins	53.8
##	758	2019-05-03	05:30:47	2019-05-03	06:01:31	30.73333	mins	126.
##	759	2019-05-03	05:30:47	2019-05-03	06:01:31	30.73333	mins	97.4
##	760	2019-05-03	05:30:47	2019-05-03	06:01:31	30.73333	mins	1.22
##	761	2019-05-03	05:30:47	2019-05-03	06:01:31	30.73333	mins	227.
##	762	2019-05-03	05:30:47	2019-05-03	06:01:31	30.73333	mins	180.
##	763	2019-05-03	05:30:47	2019-05-03	06:01:31	30.73333	mins	2.54
##	764	2019-05-03	06:01:31	2019-05-03	06:30:49	29.30000	mins	25.0
##	765	2019-05-03	06:01:31	2019-05-03	06:30:49	29.30000	mins	116.
##	766	2019-05-03	06:01:31	2019-05-03	06:30:49	29.30000	mins	22.4
##	767	2019-05-03	06:01:31	2019-05-03	06:30:49	29.30000	mins	55.1
##	768	2019-05-03	06:01:31	2019-05-03	06:30:49	29.30000	mins	166.
##	769	2019-05-03	06:01:31	2019-05-03	06:30:49	29.30000	mins	0.0767
##	770	2019-05-03	06:01:31	2019-05-03	06:30:49	29.30000	mins	122.
##	771	2019-05-03	06:01:31	2019-05-03	06:30:49	29.30000	mins	32.0
##	772	2019-05-03	06:01:31	2019-05-03	06:30:49	29.30000	mins	15.4
##	773	2019-05-03	06:01:31	2019-05-03	06:30:49	29.30000	mins	47.1
##	774	2019-05-03	06:30:49	2019-05-03	07:00:46	29.95000	mins	4.90
##	775	2019-05-03	06:30:49	2019-05-03	07:00:46	29.95000	mins	6.31
##	776	2019-05-03	06:30:49	2019-05-03	07:00:46	29.95000	mins	265.
##	777	2019-05-03	06:30:49	2019-05-03	07:00:46	29.95000	mins	168.
##	778	2019-05-03	06:30:49	2019-05-03	07:00:46	29.95000	mins	23.5
##	779	2019-05-03	06:30:49	2019-05-03	07:00:46	29.95000	mins	37.6
##	780	2019-05-03	06:30:49	2019-05-03	07:00:46	29.95000	mins	17.4
##	781	2019-05-03	06:30:49	2019-05-03	07:00:46	29.95000	mins	100.
##	782	2019-05-03	06:30:49	2019-05-03	07:00:46	29.95000	mins	0.226
##	783	2019-05-03	06:30:49	2019-05-03	07:00:46	29.95000	mins	127.
##	784	2019-05-03	07:00:46	2019-05-03	07:30:18	29.53333	mins	2.32
##	785	2019-05-03	07:00:46	2019-05-03	07:30:18	29.53333	mins	1.37
##	786	2019-05-03	07:00:46	2019-05-03	07:30:18	29.53333	mins	0.305
##	787	2019-05-03	07:00:46	2019-05-03	07:30:18	29.53333	mins	15.2
##	788	2019-05-03	07:00:46	2019-05-03	07:30:18	29.53333	mins	0.705
##	789	2019-05-03	07:00:46	2019-05-03	07:30:18	29.53333	mins	0.640
##	790	2019-05-03	07:00:46	2019-05-03	07:30:18	29.53333	mins	37.5
##	791	2019-05-03	07:00:46	2019-05-03	07:30:18	29.53333	mins	359.

##	792	2019-05-03	07:00:46	2019-05-03	07:30:18	29.53333	mins	87.6
##	793	2019-05-03	07:00:46	2019-05-03	07:30:18	29.53333	mins	148.
##	794	2019-05-03	07:30:18	2019-05-03	08:00:16	29.96667	mins	5.76
##	795	2019-05-03	07:30:18	2019-05-03	08:00:16	29.96667	mins	4.75
##	796	2019-05-03	07:30:18	2019-05-03	08:00:16	29.96667	mins	61.2
##	797	2019-05-03	07:30:18	2019-05-03	08:00:16	29.96667	mins	479.
##	798	2019-05-03	07:30:18	2019-05-03	08:00:16	29.96667	mins	2.65
##	799	2019-05-03	07:30:18	2019-05-03	08:00:16	29.96667	mins	7.94
##	800	2019-05-03	07:30:18	2019-05-03	08:00:16	29.96667	mins	51.2
##	801	2019-05-03	07:30:18	2019-05-03	08:00:16	29.96667	mins	136.
##	802	2019-05-03	07:30:18	2019-05-03	08:00:16	29.96667	mins	206.
##	803	2019-05-03	07:30:18	2019-05-03	08:00:16	29.96667	mins	73.6
##	804	2019-05-03	08:00:16	2019-05-03	08:30:17	30.01667	mins	3.73
##	805	2019-05-03	08:00:16	2019-05-03	08:30:17	30.01667	mins	37.4
##	806	2019-05-03	08:00:16	2019-05-03	08:30:17	30.01667	mins	159.
##	807	2019-05-03	08:00:16	2019-05-03	08:30:17	30.01667	mins	65.8
##	808	2019-05-03	08:00:16	2019-05-03	08:30:17	30.01667	mins	106.
##	809	2019-05-03	08:00:16	2019-05-03	08:30:17	30.01667	mins	96.9
##	810	2019-05-03	08:00:16	2019-05-03	08:30:17	30.01667	mins	68.7
##	811	2019-05-03	08:00:16	2019-05-03	08:30:17	30.01667	mins	319.
##	812	2019-05-03	08:00:16	2019-05-03	08:30:17	30.01667	mins	243.
##	813	2019-05-03	08:30:17	2019-05-03	09:00:18	30.01667	mins	24.8
##	814	2019-05-03	08:30:17	2019-05-03	09:00:18	30.01667	mins	206.
##	815	2019-05-03	08:30:17	2019-05-03	09:00:18	30.01667	mins	234.
##	816	2019-05-03	08:30:17	2019-05-03	09:00:18	30.01667	mins	91.6
##	817	2019-05-03	08:30:17	2019-05-03	09:00:18	30.01667	mins	16.7
##	818	2019-05-03	08:30:17	2019-05-03	09:00:18	30.01667	mins	2.94
##	819	2019-05-03	08:30:17	2019-05-03	09:00:18	30.01667	mins	27.6
##	820	2019-05-03	08:30:17	2019-05-03	09:00:18	30.01667	mins	149.
##	821	2019-05-03	08:30:17	2019-05-03	09:00:18	30.01667	mins	183.
##	822	2019-05-03	09:00:18	2019-05-03	09:30:33	30.25000	mins	38.1
##	823	2019-05-03	09:00:18	2019-05-03	09:30:33	30.25000	mins	68.2
##	824	2019-05-03	09:00:18	2019-05-03	09:30:33	30.25000	mins	131.
##	825	2019-05-03	09:00:18	2019-05-03	09:30:33	30.25000	mins	25.6
##	826	2019-05-03	09:00:18	2019-05-03	09:30:33	30.25000	mins	11.5
##	827	2019-05-03	09:00:18	2019-05-03	09:30:33	30.25000	mins	241.
##	828	2019-05-03	09:00:18	2019-05-03	09:30:33	30.25000	mins	35.8
##	829	2019-05-03	09:00:18	2019-05-03	09:30:33	30.25000	mins	165.
##	830	2019-05-03	09:00:18	2019-05-03	09:30:33	30.25000	mins	1.62
##	831	2019-05-03	09:00:18	2019-05-03	09:30:33	30.25000	mins	4.53
##	832	2019-05-03	11:00:46	2019-05-03	11:30:46	30.00000	mins	75.7
##	833	2019-05-03	11:00:46	2019-05-03	11:30:46	30.00000	mins	155.
##	834	2019-05-03	11:00:46	2019-05-03	11:30:46	30.00000	mins	33.9
##	835	2019-05-03	11:00:46	2019-05-03	11:30:46	30.00000	mins	2.40
##	836	2019-05-03	11:00:46	2019-05-03	11:30:46	30.00000	mins	3.65
##	837	2019-05-03	11:00:46	2019-05-03	11:30:46	30.00000	mins	0.0282
##	838	2019-05-03	11:00:46	2019-05-03	11:30:46	30.00000	mins	75.0
##	839	2019-05-03	11:00:46	2019-05-03	11:30:46	30.00000	mins	17.5
##	840	2019-05-03	11:00:46	2019-05-03	11:30:46	30.00000	mins	141.
##	841	2019-05-03	11:00:46	2019-05-03	11:30:46	30.00000	mins	7.19
##	842	2019-05-03	11:30:46	2019-05-03	12:00:47	30.01667	mins	150.
##	843	2019-05-03	11:30:46	2019-05-03	12:00:47	30.01667	mins	3.07
##	844	2019-05-03	11:30:46	2019-05-03	12:00:47	30.01667	mins	79.5
##	845	2019-05-03	11:30:46	2019-05-03	12:00:47	30.01667	mins	71.7

##	846	2019-05-03	11:30:46	2019-05-03	12:00:47	30.01667	mins	638.
##	847	2019-05-03	11:30:46	2019-05-03	12:00:47	30.01667	mins	29.9
##	848	2019-05-03	11:30:46	2019-05-03	12:00:47	30.01667	mins	186.
##	849	2019-05-03	11:30:46	2019-05-03	12:00:47	30.01667	mins	0.0880
##	850	2019-05-03	12:00:47	2019-05-03	12:31:59	31.20000	mins	36.4
##	851	2019-05-03	12:00:47	2019-05-03	12:31:59	31.20000	mins	22.1
##	852	2019-05-03	12:00:47	2019-05-03	12:31:59	31.20000	mins	1.81
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##	854	2019-05-03	12:00:47	2019-05-03	12:31:59	31.20000	mins	22.0
##	855	2019-05-03	12:00:47	2019-05-03	12:31:59	31.20000	mins	21.7
##	856	2019-05-03	12:00:47	2019-05-03	12:31:59	31.20000	mins	397.
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##	862	2019-05-03	12:31:59	2019-05-03	13:00:47	28.80000	mins	22.6
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##	868	2019-05-03	12:31:59	2019-05-03	13:00:47	28.80000	mins	0.472
##	869	2019-05-03	12:31:59	2019-05-03	13:00:47	28.80000	mins	14.8
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##	871	2019-05-03	13:00:47	2019-05-03	13:30:47	30.00000	mins	1.29
##	872	2019-05-03	13:00:47	2019-05-03	13:30:47	30.00000	mins	24.6
##	873	2019-05-03	13:00:47	2019-05-03	13:30:47	30.00000	mins	200.
##	874	2019-05-03	13:00:47	2019-05-03	13:30:47	30.00000	mins	78.0
##	875	2019-05-03	13:00:47	2019-05-03	13:30:47	30.00000	mins	45.1
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##	913	2019-05-03	15:00:12	2019-05-03	15:30:46	30.56667	mins	0.568
##	914	2019-05-03	15:00:12	2019-05-03	15:30:46	30.56667	mins	6.14
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##	952	2019-05-03	17:00:08	2019-05-03	17:30:07	29.98333	mins	24.5
##	953	2019-05-03	17:00:08	2019-05-03	17:30:07	29.98333	mins	2.45

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## 954 2019-05-03 17:00:08 2019-05-03 17:30:07 29.98333 mins 1.12
## 955 2019-05-03 17:00:08 2019-05-03 17:30:07 29.98333 mins 2.68
## 956 2019-05-03 17:30:07 2019-05-03 18:00:11 30.06667 mins 144.
## 957 2019-05-03 17:30:07 2019-05-03 18:00:11 30.06667 mins 0.0774
## 958 2019-05-03 17:30:07 2019-05-03 18:00:11 30.06667 mins 170.
## 959 2019-05-03 17:30:07 2019-05-03 18:00:11 30.06667 mins 4.85
## 960 2019-05-03 17:30:07 2019-05-03 18:00:11 30.06667 mins 13.0
## 961 2019-05-03 17:30:07 2019-05-03 18:00:11 30.06667 mins 11.9
## 962 2019-05-03 17:30:07 2019-05-03 18:00:11 30.06667 mins 18.6
## 963 2019-05-03 17:30:07 2019-05-03 18:00:11 30.06667 mins 591.
## 964 2019-05-03 17:30:07 2019-05-03 18:00:11 30.06667 mins 249.
## 965 2019-05-03 17:30:07 2019-05-03 18:00:11 30.06667 mins 0.101
## 966 2019-05-03 18:00:11 2019-05-03 18:30:14 30.05000 mins 24.6
## 967 2019-05-03 18:00:11 2019-05-03 18:30:14 30.05000 mins 95.5
## 968 2019-05-03 18:00:11 2019-05-03 18:30:14 30.05000 mins 189.
## 969 2019-05-03 18:00:11 2019-05-03 18:30:14 30.05000 mins 182.
## 970 2019-05-03 18:00:11 2019-05-03 18:30:14 30.05000 mins 1.52
## 971 2019-05-03 18:00:11 2019-05-03 18:30:14 30.05000 mins 67.0
## 972 2019-05-03 18:00:11 2019-05-03 18:30:14 30.05000 mins 35.8
## 973 2019-05-03 18:00:11 2019-05-03 18:30:14 30.05000 mins 82.3
## 974 2019-05-03 18:00:11 2019-05-03 18:30:14 30.05000 mins 743.
## 975 2019-05-03 18:30:14 2019-05-03 19:00:17 30.05000 mins 67.6
## 976 2019-05-03 18:30:14 2019-05-03 19:00:17 30.05000 mins 54.8
## 977 2019-05-03 18:30:14 2019-05-03 19:00:17 30.05000 mins 228.
## 978 2019-05-03 18:30:14 2019-05-03 19:00:17 30.05000 mins 157.
## 979 2019-05-03 18:30:14 2019-05-03 19:00:17 30.05000 mins 36.2
## 980 2019-05-03 18:30:14 2019-05-03 19:00:17 30.05000 mins 0.764
## 981 2019-05-03 18:30:14 2019-05-03 19:00:17 30.05000 mins 15.7
## 982 2019-05-03 18:30:14 2019-05-03 19:00:17 30.05000 mins 193.
## 983 2019-05-03 18:30:14 2019-05-03 19:00:17 30.05000 mins 68.9
## 984 2019-05-03 19:00:17 2019-05-03 19:30:34 30.28333 mins 136.
## 985 2019-05-03 19:00:17 2019-05-03 19:30:34 30.28333 mins 47.8
## 986 2019-05-03 19:00:17 2019-05-03 19:30:34 30.28333 mins 4.64
## 987 2019-05-03 19:00:17 2019-05-03 19:30:34 30.28333 mins 0.391
## 988 2019-05-03 19:00:17 2019-05-03 19:30:34 30.28333 mins 207.
## 989 2019-05-03 19:00:17 2019-05-03 19:30:34 30.28333 mins 83.1
## 990 2019-05-03 19:00:17 2019-05-03 19:30:34 30.28333 mins 30.2
## 991 2019-05-05 15:30:46 2019-05-05 16:00:47 30.01667 mins 108.
## 992 2019-05-05 16:00:47 2019-05-05 16:30:35 29.80000 mins 545.
## 993 2019-05-05 16:00:47 2019-05-05 16:30:35 29.80000 mins 363.
## 994 2019-05-05 16:30:35 2019-05-05 17:00:26 29.85000 mins 596.
## 995 2019-05-05 16:30:35 2019-05-05 17:00:26 29.85000 mins 8.56
## 996 2019-05-05 16:30:35 2019-05-05 17:00:26 29.85000 mins 7.59
## 997 2019-05-05 16:30:35 2019-05-05 17:00:26 29.85000 mins 28.0
## 998 2019-05-05 16:30:35 2019-05-05 17:00:26 29.85000 mins 19.3
## 999 2019-05-05 16:30:35 2019-05-05 17:00:26 29.85000 mins 10.0
## 1000 2019-05-05 16:30:35 2019-05-05 17:00:26 29.85000 mins 8.66
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##      2 -2.58          6      18081 Milho - Safrinha 2019-07-04
##      3 -1.17          6      18081 Milho - Safrinha 2019-07-04
##      4 -0.326         6      18081 Milho - Safrinha 2019-07-04
##      5 -2.42          6      18081 Milho - Safrinha 2019-07-04

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##	6	-0.958	6	18081	Milho	-	Safrinha	2019-07-04
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##	9	2.87	6	18081	Milho	-	Safrinha	2019-07-04
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##	13	2.82	6	18081	Milho	-	Safrinha	2019-07-04
##	14	-2.59	6	18081	Milho	-	Safrinha	2019-07-04
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##	79	-0.472	6	18081	Milho	-	Safrinha	2019-07-04
##	80	2.39	6	18081	Milho	-	Safrinha	2019-07-04
##	81	0.948	6	18081	Milho	-	Safrinha	2019-07-04
##	82	-1.35	6	18081	Milho	-	Safrinha	2019-07-04
##	83	-0.0596	6	18081	Milho	-	Safrinha	2019-07-04
##	84	2.63	6	18081	Milho	-	Safrinha	2019-07-04
##	85	0.689	6	18081	Milho	-	Safrinha	2019-07-04
##	86	-0.669	6	18081	Milho	-	Safrinha	2019-07-04
##	87	0.541	6	18081	Milho	-	Safrinha	2019-07-04
##	88	-0.619	6	18081	Milho	-	Safrinha	2019-07-04
##	89	1.33	6	18081	Milho	-	Safrinha	2019-07-04
##	90	2.02	6	18081	Milho	-	Safrinha	2019-07-04
##	91	2.78	6	18081	Milho	-	Safrinha	2019-07-04
##	92	0.0858	6	18081	Milho	-	Safrinha	2019-07-04
##	93	0.571	6	18081	Milho	-	Safrinha	2019-07-04
##	94	-0.631	6	18081	Milho	-	Safrinha	2019-07-04
##	95	-2.92	6	18081	Milho	-	Safrinha	2019-07-04
##	96	0.455	6	18081	Milho	-	Safrinha	2019-07-04
##	97	2.05	6	18081	Milho	-	Safrinha	2019-07-04
##	98	0.0495	6	18081	Milho	-	Safrinha	2019-07-04
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##	100	0.386	6	18081	Milho	-	Safrinha	2019-07-04
##	101	0.885	6	18081	Milho	-	Safrinha	2019-07-04
##	102	2.34	6	18081	Milho	-	Safrinha	2019-07-04
##	103	1.73	6	18081	Milho	-	Safrinha	2019-07-04
##	104	-0.0918	6	18081	Milho	-	Safrinha	2019-07-04
##	105	-2.27	6	18081	Milho	-	Safrinha	2019-07-04
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##	109	2.48	6	18081	Milho	-	Safrinha	2019-07-04
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##	119	2.08	6	18081	Milho	-	Safrinha	2019-07-04
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##	121	0.250	6	18072	Milho	-	Safrinha	2019-06-25
##	122	0.515	6	18081	Milho	-	Safrinha	2019-07-04
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##	130	-2.06	6	18081	Milho	-	Safrinha	2019-07-04
##	131	-0.0721	6	18081	Milho	-	Safrinha	2019-07-04
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##	133	1.93	6	18081	Milho	-	Safrinha	2019-07-04
##	134	-0.429	6	18081	Milho	-	Safrinha	2019-07-04
##	135	2.75	6	18081	Milho	-	Safrinha	2019-07-04
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##	147	-0.416	3	18035	Cana-de-Açúcar			2019-05-19
##	148	-0.315	6	18081	Milho	-	Safrinha	2019-07-04
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##	150	-2.03	6	18081	Milho	-	Safrinha	2019-07-04
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##	157	-0.589	6	18081	Milho	-	Safrinha	2019-07-04
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##	161	1.89	6	18065	Milho	-	Safrinha	2019-06-18
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##	164	-1.24	6	18081	Milho	-	Safrinha	2019-07-04
##	165	-1.34	6	18081	Milho	-	Safrinha	2019-07-04
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## 168 -1.87	6	18081 Milho - Safrinha 2019-07-04
## 169 -3.12	6	18081 Milho - Safrinha 2019-07-04
## 170 -0.978	6	18081 Milho - Safrinha 2019-07-04
## 171 2.78	6	18081 Milho - Safrinha 2019-07-04
## 172 3.11	6	18081 Milho - Safrinha 2019-07-04
## 173 -2.15	6	18065 Milho - Safrinha 2019-06-18
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## 177 -1.82	6	18081 Milho - Safrinha 2019-07-04
## 178 -0.300	6	18081 Milho - Safrinha 2019-07-04
## 179 -0.355	6	18081 Milho - Safrinha 2019-07-04
## 180 1.00	6	18081 Milho - Safrinha 2019-07-04
## 181 -0.418	6	18081 Milho - Safrinha 2019-07-04
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## 184 -2.60	6	18081 Milho - Safrinha 2019-07-04
## 185 0.991	6	18081 Milho - Safrinha 2019-07-04
## 186 1.64	6	18065 Milho - Safrinha 2019-06-18
## 187 -2.77	6	18081 Milho - Safrinha 2019-07-04
## 188 2.46	6	18081 Milho - Safrinha 2019-07-04
## 189 -2.05	6	18081 Milho - Safrinha 2019-07-04
## 190 -0.348	6	18072 Milho - Safrinha 2019-06-25
## 191 -0.147	6	18081 Milho - Safrinha 2019-07-04
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## 205 -0.235	6	18081 Milho - Safrinha 2019-07-04
## 206 -2.41	6	18081 Milho - Safrinha 2019-07-04
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## 208 2.67	6	18081 Milho - Safrinha 2019-07-04
## 209 0.178	6	18081 Milho - Safrinha 2019-07-04
## 210 -0.724	6	18081 Milho - Safrinha 2019-07-04
## 211 -2.41	6	18072 Milho - Safrinha 2019-06-25
## 212 -1.88	6	18081 Milho - Safrinha 2019-07-04
## 213 1.75	6	18081 Milho - Safrinha 2019-07-04
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## 215 1.13	6	18081 Milho - Safrinha 2019-07-04
## 216 2.45	6	18081 Milho - Safrinha 2019-07-04
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## 218 -0.256	6	18081 Milho - Safrinha 2019-07-04
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##	225	-2.11	6	18081	Milho	- Safrinha	2019-07-04
##	226	-2.71	6	18081	Milho	- Safrinha	2019-07-04
##	227	-3.02	6	18081	Milho	- Safrinha	2019-07-04
##	228	-1.29	6	18081	Milho	- Safrinha	2019-07-04
##	229	-0.335	6	18081	Milho	- Safrinha	2019-07-04
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##	232	0.387	6	18081	Milho	- Safrinha	2019-07-04
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##	238	-1.99	6	18081	Milho	- Safrinha	2019-07-04
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##	358	-1.14	6	18081	Milho	-	Safrinha	2019-07-04
##	359	0.611	6	18081	Milho	-	Safrinha	2019-07-04
##	360	1.64	6	18081	Milho	-	Safrinha	2019-07-04
##	361	1.25	6	18081	Milho	-	Safrinha	2019-07-04
##	362	-2.56	6	18081	Milho	-	Safrinha	2019-07-04
##	363	-0.0394	6	18081	Milho	-	Safrinha	2019-07-04
##	364	0.611	6	18081	Milho	-	Safrinha	2019-07-04
##	365	-0.650	6	18081	Milho	-	Safrinha	2019-07-04
##	366	0.0476	6	18081	Milho	-	Safrinha	2019-07-04
##	367	2.78	6	18081	Milho	-	Safrinha	2019-07-04
##	368	-2.46	6	18081	Milho	-	Safrinha	2019-07-04
##	369	0.517	6	18081	Milho	-	Safrinha	2019-07-04
##	370	-2.16	6	18081	Milho	-	Safrinha	2019-07-04
##	371	-1.06	6	18081	Milho	-	Safrinha	2019-07-04
##	372	0.382	6	18081	Milho	-	Safrinha	2019-07-04
##	373	-1.11	6	18081	Milho	-	Safrinha	2019-07-04
##	374	0.787	6	18081	Milho	-	Safrinha	2019-07-04
##	375	2.32	6	18081	Milho	-	Safrinha	2019-07-04
##	376	-0.338	6	18081	Milho	-	Safrinha	2019-07-04
##	377	0.810	6	18081	Milho	-	Safrinha	2019-07-04
##	378	2.35	6	18081	Milho	-	Safrinha	2019-07-04
##	379	2.70	6	18081	Milho	-	Safrinha	2019-07-04
##	380	-2.04	6	18081	Milho	-	Safrinha	2019-07-04
##	381	-1.44	6	18081	Milho	-	Safrinha	2019-07-04
##	382	2.50	6	18081	Milho	-	Safrinha	2019-07-04
##	383	0.602	6	18081	Milho	-	Safrinha	2019-07-04

##	384	1.93	6	18081	Milho	- Safrinha	2019-07-04
##	385	-0.473	6	18081	Milho	- Safrinha	2019-07-04
##	386	1.44	6	18081	Milho	- Safrinha	2019-07-04
##	387	0.189	6	18081	Milho	- Safrinha	2019-07-04
##	388	-1.27	6	18081	Milho	- Safrinha	2019-07-04
##	389	1.68	6	18081	Milho	- Safrinha	2019-07-04
##	390	-1.64	6	18081	Milho	- Safrinha	2019-07-04
##	391	2.47	6	18081	Milho	- Safrinha	2019-07-04
##	392	0.517	6	18081	Milho	- Safrinha	2019-07-04
##	393	-0.571	6	18081	Milho	- Safrinha	2019-07-04
##	394	1.62	6	18081	Milho	- Safrinha	2019-07-04
##	395	-1.51	6	18081	Milho	- Safrinha	2019-07-04
##	396	-0.343	6	18081	Milho	- Safrinha	2019-07-04
##	397	-1.46	6	18081	Milho	- Safrinha	2019-07-04
##	398	-0.0828	6	18065	Milho	- Safrinha	2019-06-18
##	399	2.75	6	18081	Milho	- Safrinha	2019-07-04
##	400	0.526	6	18081	Milho	- Safrinha	2019-07-04
##	401	-1.25	6	18081	Milho	- Safrinha	2019-07-04
##	402	0.698	6	18081	Milho	- Safrinha	2019-07-04
##	403	3.02	6	18081	Milho	- Safrinha	2019-07-04
##	404	1.37	6	18081	Milho	- Safrinha	2019-07-04
##	405	0.00975	6	18081	Milho	- Safrinha	2019-07-04
##	406	-1.77	6	18081	Milho	- Safrinha	2019-07-04
##	407	-1.35	6	18081	Milho	- Safrinha	2019-07-04
##	408	-2.95	6	18081	Milho	- Safrinha	2019-07-04
##	409	-1.45	6	18081	Milho	- Safrinha	2019-07-04
##	410	0.525	6	18081	Milho	- Safrinha	2019-07-04
##	411	-2.93	6	18081	Milho	- Safrinha	2019-07-04
##	412	1.74	6	18081	Milho	- Safrinha	2019-07-04
##	413	-2.84	6	18081	Milho	- Safrinha	2019-07-04
##	414	1.20	6	18081	Milho	- Safrinha	2019-07-04
##	415	2.12	6	18081	Milho	- Safrinha	2019-07-04
##	416	2.02	6	18081	Milho	- Safrinha	2019-07-04
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##	418	2.22	6	18081	Milho	- Safrinha	2019-07-04
##	419	1.61	6	18081	Milho	- Safrinha	2019-07-04
##	420	2.69	6	18081	Milho	- Safrinha	2019-07-04
##	421	-2.87	6	18081	Milho	- Safrinha	2019-07-04
##	422	0.562	6	18081	Milho	- Safrinha	2019-07-04
##	423	0.767	6	18081	Milho	- Safrinha	2019-07-04
##	424	0.189	6	18081	Milho	- Safrinha	2019-07-04
##	425	1.16	6	18081	Milho	- Safrinha	2019-07-04
##	426	0.262	6	18081	Milho	- Safrinha	2019-07-04
##	427	1.97	6	18081	Milho	- Safrinha	2019-07-04
##	428	0.289	3	18035	Cana-de-Açúcar		2019-05-19
##	429	-0.926	6	18081	Milho	- Safrinha	2019-07-04
##	430	0.753	6	18081	Milho	- Safrinha	2019-07-04
##	431	-1.87	6	18081	Milho	- Safrinha	2019-07-04
##	432	2.31	6	18081	Milho	- Safrinha	2019-07-04
##	433	-0.648	6	18081	Milho	- Safrinha	2019-07-04
##	434	0.575	6	18081	Milho	- Safrinha	2019-07-04
##	435	2.40	6	18081	Milho	- Safrinha	2019-07-04
##	436	-2.10	6	18081	Milho	- Safrinha	2019-07-04
##	437	-0.301	6	18081	Milho	- Safrinha	2019-07-04

##	438	-2.75	6	18081	Milho	-	Safrinha	2019-07-04
##	439	-0.418	6	18081	Milho	-	Safrinha	2019-07-04
##	440	0.639	6	18081	Milho	-	Safrinha	2019-07-04
##	441	-2.47	6	18081	Milho	-	Safrinha	2019-07-04
##	442	-1.60	6	18081	Milho	-	Safrinha	2019-07-04
##	443	-0.210	6	18081	Milho	-	Safrinha	2019-07-04
##	444	2.21	6	18081	Milho	-	Safrinha	2019-07-04
##	445	1.48	6	18081	Milho	-	Safrinha	2019-07-04
##	446	-3.11	6	18081	Milho	-	Safrinha	2019-07-04
##	447	-1.08	6	18081	Milho	-	Safrinha	2019-07-04
##	448	0.0322	6	18081	Milho	-	Safrinha	2019-07-04
##	449	1.36	6	18081	Milho	-	Safrinha	2019-07-04
##	450	2.18	6	18081	Milho	-	Safrinha	2019-07-04
##	451	1.77	6	18081	Milho	-	Safrinha	2019-07-04
##	452	1.20	6	18081	Milho	-	Safrinha	2019-07-04
##	453	-0.721	6	18081	Milho	-	Safrinha	2019-07-04
##	454	-1.56	6	18081	Milho	-	Safrinha	2019-07-04
##	455	-0.961	6	18081	Milho	-	Safrinha	2019-07-04
##	456	0.929	6	18081	Milho	-	Safrinha	2019-07-04
##	457	-2.66	6	18081	Milho	-	Safrinha	2019-07-04
##	458	2.32	6	18081	Milho	-	Safrinha	2019-07-04
##	459	-2.01	6	18081	Milho	-	Safrinha	2019-07-04
##	460	2.54	6	18081	Milho	-	Safrinha	2019-07-04
##	461	-1.73	6	18081	Milho	-	Safrinha	2019-07-04
##	462	-1.80	6	18081	Milho	-	Safrinha	2019-07-04
##	463	0.136	6	18081	Milho	-	Safrinha	2019-07-04
##	464	-2.01	6	18081	Milho	-	Safrinha	2019-07-04
##	465	-0.411	6	18081	Milho	-	Safrinha	2019-07-04
##	466	0.0589	6	18081	Milho	-	Safrinha	2019-07-04
##	467	1.88	6	18081	Milho	-	Safrinha	2019-07-04
##	468	2.77	6	18081	Milho	-	Safrinha	2019-07-04
##	469	0.409	6	18081	Milho	-	Safrinha	2019-07-04
##	470	0.852	6	18081	Milho	-	Safrinha	2019-07-04
##	471	-1.44	6	18081	Milho	-	Safrinha	2019-07-04
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##	473	-0.924	6	18081	Milho	-	Safrinha	2019-07-04
##	474	1.82	6	18081	Milho	-	Safrinha	2019-07-04
##	475	-2.22	6	18081	Milho	-	Safrinha	2019-07-04
##	476	-0.166	6	18081	Milho	-	Safrinha	2019-07-04
##	477	0.0809	6	18081	Milho	-	Safrinha	2019-07-04
##	478	-2.76	6	18081	Milho	-	Safrinha	2019-07-04
##	479	0.431	6	18081	Milho	-	Safrinha	2019-07-04
##	480	1.14	6	18081	Milho	-	Safrinha	2019-07-04
##	481	-2.55	6	18081	Milho	-	Safrinha	2019-07-04
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##	483	1.51	6	18081	Milho	-	Safrinha	2019-07-04
##	484	-0.221	6	18081	Milho	-	Safrinha	2019-07-04
##	485	-1.78	6	18081	Milho	-	Safrinha	2019-07-04
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##	487	2.46	6	18081	Milho	-	Safrinha	2019-07-04
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##	489	1.67	6	18081	Milho	-	Safrinha	2019-07-04
##	490	0.440	6	18081	Milho	-	Safrinha	2019-07-04
##	491	-0.769	6	18081	Milho	-	Safrinha	2019-07-04

##	492	-0.742	6	18081	Milho	-	Safrinha	2019-07-04
##	493	1.35	6	18072	Milho	-	Safrinha	2019-06-25
##	494	-1.51	6	18081	Milho	-	Safrinha	2019-07-04
##	495	-2.58	6	18081	Milho	-	Safrinha	2019-07-04
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##	497	1.07	6	18081	Milho	-	Safrinha	2019-07-04
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##	499	2.77	6	18081	Milho	-	Safrinha	2019-07-04
##	500	3.09	6	18081	Milho	-	Safrinha	2019-07-04
##	501	1.03	6	18081	Milho	-	Safrinha	2019-07-04
##	502	-0.364	6	18081	Milho	-	Safrinha	2019-07-04
##	503	-0.320	6	18081	Milho	-	Safrinha	2019-07-04
##	504	-1.04	6	18081	Milho	-	Safrinha	2019-07-04
##	505	-0.420	6	18081	Milho	-	Safrinha	2019-07-04
##	506	1.46	6	18081	Milho	-	Safrinha	2019-07-04
##	507	-0.954	6	18081	Milho	-	Safrinha	2019-07-04
##	508	-2.66	6	18081	Milho	-	Safrinha	2019-07-04
##	509	1.21	6	18081	Milho	-	Safrinha	2019-07-04
##	510	2.20	6	18081	Milho	-	Safrinha	2019-07-04
##	511	0.541	6	18081	Milho	-	Safrinha	2019-07-04
##	512	-2.47	6	18081	Milho	-	Safrinha	2019-07-04
##	513	-0.333	6	18081	Milho	-	Safrinha	2019-07-04
##	514	2.41	6	18081	Milho	-	Safrinha	2019-07-04
##	515	2.32	6	18081	Milho	-	Safrinha	2019-07-04
##	516	-2.68	6	18081	Milho	-	Safrinha	2019-07-04
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##	518	-2.37	6	18081	Milho	-	Safrinha	2019-07-04
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##	520	-2.19	6	18081	Milho	-	Safrinha	2019-07-04
##	521	-0.981	6	18081	Milho	-	Safrinha	2019-07-04
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##	523	3.03	6	18081	Milho	-	Safrinha	2019-07-04
##	524	-2.65	6	18081	Milho	-	Safrinha	2019-07-04
##	525	0.480	6	18081	Milho	-	Safrinha	2019-07-04
##	526	-0.947	6	18081	Milho	-	Safrinha	2019-07-04
##	527	-2.20	6	18081	Milho	-	Safrinha	2019-07-04
##	528	0.710	6	18081	Milho	-	Safrinha	2019-07-04
##	529	2.61	6	18081	Milho	-	Safrinha	2019-07-04
##	530	0.0244	6	18081	Milho	-	Safrinha	2019-07-04
##	531	0.990	6	18081	Milho	-	Safrinha	2019-07-04
##	532	1.60	6	18081	Milho	-	Safrinha	2019-07-04
##	533	1.95	6	18081	Milho	-	Safrinha	2019-07-04
##	534	0.493	6	18081	Milho	-	Safrinha	2019-07-04
##	535	2.10	6	18081	Milho	-	Safrinha	2019-07-04
##	536	-2.77	6	18081	Milho	-	Safrinha	2019-07-04
##	537	-0.676	6	18081	Milho	-	Safrinha	2019-07-04
##	538	2.17	6	18081	Milho	-	Safrinha	2019-07-04
##	539	-2.25	6	18081	Milho	-	Safrinha	2019-07-04
##	540	0.778	6	18081	Milho	-	Safrinha	2019-07-04
##	541	2.57	6	18081	Milho	-	Safrinha	2019-07-04
##	542	1.90	6	18081	Milho	-	Safrinha	2019-07-04
##	543	0.176	6	18081	Milho	-	Safrinha	2019-07-04
##	544	-0.578	6	18081	Milho	-	Safrinha	2019-07-04
##	545	2.73	6	18081	Milho	-	Safrinha	2019-07-04

##	546	0.300	6	18081	Milho	-	Safrinha	2019-07-04
##	547	-1.42	6	18081	Milho	-	Safrinha	2019-07-04
##	548	1.62	6	18081	Milho	-	Safrinha	2019-07-04
##	549	-2.01	6	18081	Milho	-	Safrinha	2019-07-04
##	550	-0.897	6	18081	Milho	-	Safrinha	2019-07-04
##	551	2.39	6	18081	Milho	-	Safrinha	2019-07-04
##	552	-2.56	6	18081	Milho	-	Safrinha	2019-07-04
##	553	0.672	6	18081	Milho	-	Safrinha	2019-07-04
##	554	2.21	6	18081	Milho	-	Safrinha	2019-07-04
##	555	0.821	6	18081	Milho	-	Safrinha	2019-07-04
##	556	-0.734	6	18081	Milho	-	Safrinha	2019-07-04
##	557	-1.91	6	18081	Milho	-	Safrinha	2019-07-04
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##	559	0.579	6	18081	Milho	-	Safrinha	2019-07-04
##	560	-2.51	6	18065	Milho	-	Safrinha	2019-06-18
##	561	2.69	6	18081	Milho	-	Safrinha	2019-07-04
##	562	-3.14	6	18081	Milho	-	Safrinha	2019-07-04
##	563	-2.58	6	18081	Milho	-	Safrinha	2019-07-04
##	564	-1.48	6	18081	Milho	-	Safrinha	2019-07-04
##	565	-0.0921	6	18072	Milho	-	Safrinha	2019-06-25
##	566	1.48	6	18081	Milho	-	Safrinha	2019-07-04
##	567	1.91	6	18081	Milho	-	Safrinha	2019-07-04
##	568	-0.524	6	18081	Milho	-	Safrinha	2019-07-04
##	569	-1.16	6	18081	Milho	-	Safrinha	2019-07-04
##	570	-2.61	6	18081	Milho	-	Safrinha	2019-07-04
##	571	0.405	6	18081	Milho	-	Safrinha	2019-07-04
##	572	0.737	6	18081	Milho	-	Safrinha	2019-07-04
##	573	-0.385	3	18035	Cana-de-Açúcar			2019-05-19
##	574	2.22	6	18081	Milho	-	Safrinha	2019-07-04
##	575	-0.228	6	18081	Milho	-	Safrinha	2019-07-04
##	576	2.30	6	18081	Milho	-	Safrinha	2019-07-04
##	577	-0.666	6	18081	Milho	-	Safrinha	2019-07-04
##	578	0.186	6	18081	Milho	-	Safrinha	2019-07-04
##	579	-0.337	6	18081	Milho	-	Safrinha	2019-07-04
##	580	-0.999	6	18065	Milho	-	Safrinha	2019-06-18
##	581	2.48	6	18081	Milho	-	Safrinha	2019-07-04
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##	583	1.92	6	18081	Milho	-	Safrinha	2019-07-04
##	584	0.400	6	18081	Milho	-	Safrinha	2019-07-04
##	585	0.639	6	18081	Milho	-	Safrinha	2019-07-04
##	586	-0.0599	6	18081	Milho	-	Safrinha	2019-07-04
##	587	-1.75	6	18081	Milho	-	Safrinha	2019-07-04
##	588	0.403	6	18081	Milho	-	Safrinha	2019-07-04
##	589	-0.557	6	18081	Milho	-	Safrinha	2019-07-04
##	590	-2.94	6	18081	Milho	-	Safrinha	2019-07-04
##	591	0.795	6	18081	Milho	-	Safrinha	2019-07-04
##	592	0.486	6	18081	Milho	-	Safrinha	2019-07-04
##	593	1.70	6	18081	Milho	-	Safrinha	2019-07-04
##	594	2.08	6	18081	Milho	-	Safrinha	2019-07-04
##	595	-3.04	6	18081	Milho	-	Safrinha	2019-07-04
##	596	-1.56	6	18081	Milho	-	Safrinha	2019-07-04
##	597	-2.70	6	18081	Milho	-	Safrinha	2019-07-04
##	598	2.55	6	18081	Milho	-	Safrinha	2019-07-04
##	599	-1.02	6	18081	Milho	-	Safrinha	2019-07-04

##	600	1.61	6	18081	Milho - Safrinha	2019-07-04
##	601	0.737	6	18081	Milho - Safrinha	2019-07-04
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##	603	-1.51	6	18081	Milho - Safrinha	2019-07-04
##	604	0.230	6	18081	Milho - Safrinha	2019-07-04
##	605	0.0375	6	18081	Milho - Safrinha	2019-07-04
##	606	1.33	3	18035	Cana-de-Açúcar	2019-05-19
##	607	-2.77	6	18081	Milho - Safrinha	2019-07-04
##	608	1.27	6	18081	Milho - Safrinha	2019-07-04
##	609	0.00596	6	18081	Milho - Safrinha	2019-07-04
##	610	2.39	6	18081	Milho - Safrinha	2019-07-04
##	611	1.23	6	18081	Milho - Safrinha	2019-07-04
##	612	1.30	6	18065	Milho - Safrinha	2019-06-18
##	613	-0.808	6	18081	Milho - Safrinha	2019-07-04
##	614	1.37	6	18081	Milho - Safrinha	2019-07-04
##	615	0.553	6	18081	Milho - Safrinha	2019-07-04
##	616	2.38	6	18081	Milho - Safrinha	2019-07-04
##	617	0.820	6	18081	Milho - Safrinha	2019-07-04
##	618	0.758	6	18065	Milho - Safrinha	2019-06-18
##	619	2.07	6	18081	Milho - Safrinha	2019-07-04
##	620	-2.21	6	18081	Milho - Safrinha	2019-07-04
##	621	0.0578	6	18081	Milho - Safrinha	2019-07-04
##	622	2.99	6	18081	Milho - Safrinha	2019-07-04
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##	624	0.444	6	18081	Milho - Safrinha	2019-07-04
##	625	1.04	6	18081	Milho - Safrinha	2019-07-04
##	626	1.55	6	18081	Milho - Safrinha	2019-07-04
##	627	1.92	6	18081	Milho - Safrinha	2019-07-04
##	628	-0.408	6	18081	Milho - Safrinha	2019-07-04
##	629	-1.56	6	18081	Milho - Safrinha	2019-07-04
##	630	0.505	6	18081	Milho - Safrinha	2019-07-04
##	631	2.90	6	18081	Milho - Safrinha	2019-07-04
##	632	-0.646	6	18081	Milho - Safrinha	2019-07-04
##	633	-3.14	6	18081	Milho - Safrinha	2019-07-04
##	634	-2.65	6	18081	Milho - Safrinha	2019-07-04
##	635	-1.16	6	18081	Milho - Safrinha	2019-07-04
##	636	-0.619	6	18081	Milho - Safrinha	2019-07-04
##	637	1.53	6	18081	Milho - Safrinha	2019-07-04
##	638	1.17	6	18081	Milho - Safrinha	2019-07-04
##	639	-2.17	6	18081	Milho - Safrinha	2019-07-04
##	640	-0.994	6	18065	Milho - Safrinha	2019-06-18
##	641	-1.25	6	18065	Milho - Safrinha	2019-06-18
##	642	2.94	6	18065	Milho - Safrinha	2019-06-18
##	643	2.20	3	18035	Cana-de-Açúcar	2019-05-19
##	644	0.992	3	18035	Cana-de-Açúcar	2019-05-19
##	645	-3.02	6	18065	Milho - Safrinha	2019-06-18
##	646	-0.940	6	18065	Milho - Safrinha	2019-06-18
##	647	2.52	6	18065	Milho - Safrinha	2019-06-18
##	648	-0.170	3	18035	Cana-de-Açúcar	2019-05-19
##	649	0.193	3	18035	Cana-de-Açúcar	2019-05-19
##	650	-2.52	6	18065	Milho - Safrinha	2019-06-18
##	651	-1.14	6	18065	Milho - Safrinha	2019-06-18
##	652	-0.620	6	18072	Milho - Safrinha	2019-06-25
##	653	-2.17	6	18065	Milho - Safrinha	2019-06-18

##	654	0.485	6	18065	Milho	-	Safrinha	2019-06-18
##	655	-0.517	6	18065	Milho	-	Safrinha	2019-06-18
##	656	0.534	6	18065	Milho	-	Safrinha	2019-06-18
##	657	2.32	6	18065	Milho	-	Safrinha	2019-06-18
##	658	-1.04	6	18065	Milho	-	Safrinha	2019-06-18
##	659	-2.59	6	18065	Milho	-	Safrinha	2019-06-18
##	660	-2.48	6	18081	Milho	-	Safrinha	2019-07-04
##	661	-1.22	6	18081	Milho	-	Safrinha	2019-07-04
##	662	1.34	6	18081	Milho	-	Safrinha	2019-07-04
##	663	1.08	6	18081	Milho	-	Safrinha	2019-07-04
##	664	2.11	6	18065	Milho	-	Safrinha	2019-06-18
##	665	-1.35	6	18081	Milho	-	Safrinha	2019-07-04
##	666	2.02	6	18081	Milho	-	Safrinha	2019-07-04
##	667	-2.81	6	18081	Milho	-	Safrinha	2019-07-04
##	668	0.486	6	18081	Milho	-	Safrinha	2019-07-04
##	669	2.07	6	18065	Milho	-	Safrinha	2019-06-18
##	670	-2.73	6	18081	Milho	-	Safrinha	2019-07-04
##	671	2.44	6	18081	Milho	-	Safrinha	2019-07-04
##	672	-1.24	3	18035	Cana-de-Açúcar			2019-05-19
##	673	-0.332	6	18081	Milho	-	Safrinha	2019-07-04
##	674	-2.61	6	18081	Milho	-	Safrinha	2019-07-04
##	675	-0.199	6	18081	Milho	-	Safrinha	2019-07-04
##	676	-0.575	6	18081	Milho	-	Safrinha	2019-07-04
##	677	3.05	6	18081	Milho	-	Safrinha	2019-07-04
##	678	-1.18	6	18065	Milho	-	Safrinha	2019-06-18
##	679	-1.49	6	18081	Milho	-	Safrinha	2019-07-04
##	680	-1.94	6	18081	Milho	-	Safrinha	2019-07-04
##	681	0.947	6	18081	Milho	-	Safrinha	2019-07-04
##	682	0.0304	6	18081	Milho	-	Safrinha	2019-07-04
##	683	2.45	6	18081	Milho	-	Safrinha	2019-07-04
##	684	2.56	6	18081	Milho	-	Safrinha	2019-07-04
##	685	3.12	6	18081	Milho	-	Safrinha	2019-07-04
##	686	1.36	6	18081	Milho	-	Safrinha	2019-07-04
##	687	2.66	6	18081	Milho	-	Safrinha	2019-07-04
##	688	1.25	6	18081	Milho	-	Safrinha	2019-07-04
##	689	-1.62	6	18081	Milho	-	Safrinha	2019-07-04
##	690	-2.91	6	18081	Milho	-	Safrinha	2019-07-04
##	691	1.81	6	18081	Milho	-	Safrinha	2019-07-04
##	692	-2.69	6	18081	Milho	-	Safrinha	2019-07-04
##	693	0.0737	6	18081	Milho	-	Safrinha	2019-07-04
##	694	0.720	6	18081	Milho	-	Safrinha	2019-07-04
##	695	1.85	6	18081	Milho	-	Safrinha	2019-07-04
##	696	-2.60	6	18081	Milho	-	Safrinha	2019-07-04
##	697	0.0730	6	18081	Milho	-	Safrinha	2019-07-04
##	698	-0.146	6	18081	Milho	-	Safrinha	2019-07-04
##	699	2.93	6	18081	Milho	-	Safrinha	2019-07-04
##	700	2.45	6	18081	Milho	-	Safrinha	2019-07-04
##	701	-2.86	6	18081	Milho	-	Safrinha	2019-07-04
##	702	-0.201	6	18081	Milho	-	Safrinha	2019-07-04
##	703	-0.642	6	18081	Milho	-	Safrinha	2019-07-04
##	704	-1.53	6	18081	Milho	-	Safrinha	2019-07-04
##	705	-0.539	6	18081	Milho	-	Safrinha	2019-07-04
##	706	0.464	6	18081	Milho	-	Safrinha	2019-07-04
##	707	2.37	6	18081	Milho	-	Safrinha	2019-07-04

##	708	0.809	6	18081	Milho	- Safrinha	2019-07-04
##	709	-0.684	6	18081	Milho	- Safrinha	2019-07-04
##	710	-1.32	6	18081	Milho	- Safrinha	2019-07-04
##	711	-2.65	6	18081	Milho	- Safrinha	2019-07-04
##	712	-0.314	6	18081	Milho	- Safrinha	2019-07-04
##	713	2.28	6	18081	Milho	- Safrinha	2019-07-04
##	714	-1.13	6	18081	Milho	- Safrinha	2019-07-04
##	715	0.0556	6	18081	Milho	- Safrinha	2019-07-04
##	716	-0.190	6	18081	Milho	- Safrinha	2019-07-04
##	717	-1.63	6	18081	Milho	- Safrinha	2019-07-04
##	718	-0.583	6	18081	Milho	- Safrinha	2019-07-04
##	719	-2.01	6	18081	Milho	- Safrinha	2019-07-04
##	720	1.14	6	18081	Milho	- Safrinha	2019-07-04
##	721	-0.825	6	18081	Milho	- Safrinha	2019-07-04
##	722	0.420	6	18081	Milho	- Safrinha	2019-07-04
##	723	-2.44	6	18081	Milho	- Safrinha	2019-07-04
##	724	-0.707	6	18081	Milho	- Safrinha	2019-07-04
##	725	0.439	6	18081	Milho	- Safrinha	2019-07-04
##	726	-1.23	6	18081	Milho	- Safrinha	2019-07-04
##	727	-0.174	6	18081	Milho	- Safrinha	2019-07-04
##	728	-2.72	6	18081	Milho	- Safrinha	2019-07-04
##	729	-1.33	6	18081	Milho	- Safrinha	2019-07-04
##	730	2.23	6	18081	Milho	- Safrinha	2019-07-04
##	731	-0.479	6	18081	Milho	- Safrinha	2019-07-04
##	732	0.0461	6	18081	Milho	- Safrinha	2019-07-04
##	733	1.58	6	18065	Milho	- Safrinha	2019-06-18
##	734	2.74	6	18081	Milho	- Safrinha	2019-07-04
##	735	-0.729	6	18081	Milho	- Safrinha	2019-07-04
##	736	0.719	6	18081	Milho	- Safrinha	2019-07-04
##	737	-2.70	6	18081	Milho	- Safrinha	2019-07-04
##	738	0.582	6	18081	Milho	- Safrinha	2019-07-04
##	739	-2.66	6	18081	Milho	- Safrinha	2019-07-04
##	740	0.0486	6	18081	Milho	- Safrinha	2019-07-04
##	741	-3.07	6	18081	Milho	- Safrinha	2019-07-04
##	742	2.16	6	18065	Milho	- Safrinha	2019-06-18
##	743	1.55	6	18081	Milho	- Safrinha	2019-07-04
##	744	-0.501	6	18081	Milho	- Safrinha	2019-07-04
##	745	1.77	6	18081	Milho	- Safrinha	2019-07-04
##	746	0.451	6	18081	Milho	- Safrinha	2019-07-04
##	747	-1.25	6	18081	Milho	- Safrinha	2019-07-04
##	748	0.266	6	18081	Milho	- Safrinha	2019-07-04
##	749	-1.12	6	18081	Milho	- Safrinha	2019-07-04
##	750	0.796	6	18081	Milho	- Safrinha	2019-07-04
##	751	0.556	3	18035	Cana-de-Açúcar		2019-05-19
##	752	2.40	6	18081	Milho	- Safrinha	2019-07-04
##	753	-2.33	6	18081	Milho	- Safrinha	2019-07-04
##	754	-2.91	6	18081	Milho	- Safrinha	2019-07-04
##	755	1.68	6	18081	Milho	- Safrinha	2019-07-04
##	756	1.49	6	18081	Milho	- Safrinha	2019-07-04
##	757	2.70	6	18081	Milho	- Safrinha	2019-07-04
##	758	1.57	6	18081	Milho	- Safrinha	2019-07-04
##	759	1.99	6	18081	Milho	- Safrinha	2019-07-04
##	760	3.09	6	18081	Milho	- Safrinha	2019-07-04
##	761	-1.44	6	18081	Milho	- Safrinha	2019-07-04

##	762	3.06	6	18081	Milho	- Safrinha	2019-07-04
##	763	-1.51	6	18081	Milho	- Safrinha	2019-07-04
##	764	1.89	6	18081	Milho	- Safrinha	2019-07-04
##	765	-1.78	6	18081	Milho	- Safrinha	2019-07-04
##	766	-0.543	6	18081	Milho	- Safrinha	2019-07-04
##	767	0.281	6	18081	Milho	- Safrinha	2019-07-04
##	768	0.981	6	18081	Milho	- Safrinha	2019-07-04
##	769	-1.70	6	18081	Milho	- Safrinha	2019-07-04
##	770	2.49	6	18081	Milho	- Safrinha	2019-07-04
##	771	-2.01	6	18081	Milho	- Safrinha	2019-07-04
##	772	1.10	6	18081	Milho	- Safrinha	2019-07-04
##	773	-0.832	6	18081	Milho	- Safrinha	2019-07-04
##	774	-2.70	6	18081	Milho	- Safrinha	2019-07-04
##	775	-0.925	6	18081	Milho	- Safrinha	2019-07-04
##	776	2.07	3	18035	Cana-de-Açúcar		2019-05-19
##	777	-1.66	6	18081	Milho	- Safrinha	2019-07-04
##	778	1.81	6	18081	Milho	- Safrinha	2019-07-04
##	779	-3.02	6	18081	Milho	- Safrinha	2019-07-04
##	780	-2.25	6	18081	Milho	- Safrinha	2019-07-04
##	781	2.08	6	18081	Milho	- Safrinha	2019-07-04
##	782	-1.70	6	18081	Milho	- Safrinha	2019-07-04
##	783	0.267	6	18081	Milho	- Safrinha	2019-07-04
##	784	2.38	6	18081	Milho	- Safrinha	2019-07-04
##	785	0.325	6	18081	Milho	- Safrinha	2019-07-04
##	786	-2.20	6	18081	Milho	- Safrinha	2019-07-04
##	787	-1.36	6	18081	Milho	- Safrinha	2019-07-04
##	788	0.314	6	18081	Milho	- Safrinha	2019-07-04
##	789	1.98	6	18081	Milho	- Safrinha	2019-07-04
##	790	2.39	6	18081	Milho	- Safrinha	2019-07-04
##	791	1.46	6	18081	Milho	- Safrinha	2019-07-04
##	792	3.01	6	18081	Milho	- Safrinha	2019-07-04
##	793	-2.08	6	18081	Milho	- Safrinha	2019-07-04
##	794	2.23	6	18081	Milho	- Safrinha	2019-07-04
##	795	1.20	6	18081	Milho	- Safrinha	2019-07-04
##	796	-0.0822	6	18081	Milho	- Safrinha	2019-07-04
##	797	1.12	6	18065	Milho	- Safrinha	2019-06-18
##	798	-1.87	6	18081	Milho	- Safrinha	2019-07-04
##	799	2.99	6	18081	Milho	- Safrinha	2019-07-04
##	800	-0.525	6	18081	Milho	- Safrinha	2019-07-04
##	801	-2.08	6	18081	Milho	- Safrinha	2019-07-04
##	802	-1.74	6	18081	Milho	- Safrinha	2019-07-04
##	803	1.37	6	18081	Milho	- Safrinha	2019-07-04
##	804	0.592	6	18081	Milho	- Safrinha	2019-07-04
##	805	1.18	6	18081	Milho	- Safrinha	2019-07-04
##	806	-2.31	6	18081	Milho	- Safrinha	2019-07-04
##	807	2.72	6	18081	Milho	- Safrinha	2019-07-04
##	808	2.57	6	18081	Milho	- Safrinha	2019-07-04
##	809	-0.107	6	18081	Milho	- Safrinha	2019-07-04
##	810	1.54	6	18081	Milho	- Safrinha	2019-07-04
##	811	2.05	6	18081	Milho	- Safrinha	2019-07-04
##	812	-2.37	6	18081	Milho	- Safrinha	2019-07-04
##	813	-2.40	6	18081	Milho	- Safrinha	2019-07-04
##	814	1.32	6	18081	Milho	- Safrinha	2019-07-04
##	815	2.92	6	18081	Milho	- Safrinha	2019-07-04

##	816	-0.302	6	18081	Milho	-	Safrinha	2019-07-04
##	817	-0.581	6	18081	Milho	-	Safrinha	2019-07-04
##	818	0.966	6	18081	Milho	-	Safrinha	2019-07-04
##	819	0.0803	6	18081	Milho	-	Safrinha	2019-07-04
##	820	0.154	6	18081	Milho	-	Safrinha	2019-07-04
##	821	-1.01	6	18065	Milho	-	Safrinha	2019-06-18
##	822	0.514	6	18081	Milho	-	Safrinha	2019-07-04
##	823	-3.03	6	18081	Milho	-	Safrinha	2019-07-04
##	824	2.08	6	18081	Milho	-	Safrinha	2019-07-04
##	825	2.29	6	18081	Milho	-	Safrinha	2019-07-04
##	826	0.559	6	18081	Milho	-	Safrinha	2019-07-04
##	827	-0.861	6	18081	Milho	-	Safrinha	2019-07-04
##	828	0.998	6	18081	Milho	-	Safrinha	2019-07-04
##	829	2.82	6	18081	Milho	-	Safrinha	2019-07-04
##	830	0.407	6	18081	Milho	-	Safrinha	2019-07-04
##	831	2.15	6	18081	Milho	-	Safrinha	2019-07-04
##	832	2.49	6	18081	Milho	-	Safrinha	2019-07-04
##	833	1.71	6	18081	Milho	-	Safrinha	2019-07-04
##	834	1.36	6	18081	Milho	-	Safrinha	2019-07-04
##	835	-1.90	6	18081	Milho	-	Safrinha	2019-07-04
##	836	1.88	6	18081	Milho	-	Safrinha	2019-07-04
##	837	-1.32	6	18081	Milho	-	Safrinha	2019-07-04
##	838	-2.18	6	18081	Milho	-	Safrinha	2019-07-04
##	839	-3.14	6	18081	Milho	-	Safrinha	2019-07-04
##	840	-0.456	6	18081	Milho	-	Safrinha	2019-07-04
##	841	2.56	6	18081	Milho	-	Safrinha	2019-07-04
##	842	-0.519	6	18081	Milho	-	Safrinha	2019-07-04
##	843	-2.05	6	18081	Milho	-	Safrinha	2019-07-04
##	844	0.146	6	18081	Milho	-	Safrinha	2019-07-04
##	845	-1.05	6	18081	Milho	-	Safrinha	2019-07-04
##	846	0.765	6	18065	Milho	-	Safrinha	2019-06-18
##	847	-2.10	6	18081	Milho	-	Safrinha	2019-07-04
##	848	2.45	6	18081	Milho	-	Safrinha	2019-07-04
##	849	-2.83	6	18081	Milho	-	Safrinha	2019-07-04
##	850	0.468	6	18081	Milho	-	Safrinha	2019-07-04
##	851	0.457	6	18081	Milho	-	Safrinha	2019-07-04
##	852	1.03	6	18081	Milho	-	Safrinha	2019-07-04
##	853	-2.51	6	18081	Milho	-	Safrinha	2019-07-04
##	854	-1.48	6	18081	Milho	-	Safrinha	2019-07-04
##	855	1.35	6	18081	Milho	-	Safrinha	2019-07-04
##	856	-0.284	6	18081	Milho	-	Safrinha	2019-07-04
##	857	-0.963	6	18081	Milho	-	Safrinha	2019-07-04
##	858	-0.518	6	18081	Milho	-	Safrinha	2019-07-04
##	859	1.91	6	18065	Milho	-	Safrinha	2019-06-18
##	860	1.82	6	18081	Milho	-	Safrinha	2019-07-04
##	861	0.651	6	18081	Milho	-	Safrinha	2019-07-04
##	862	-2.74	6	18081	Milho	-	Safrinha	2019-07-04
##	863	1.91	6	18081	Milho	-	Safrinha	2019-07-04
##	864	-2.03	6	18081	Milho	-	Safrinha	2019-07-04
##	865	0.851	6	18081	Milho	-	Safrinha	2019-07-04
##	866	1.88	6	18081	Milho	-	Safrinha	2019-07-04
##	867	1.45	6	18065	Milho	-	Safrinha	2019-06-18
##	868	-1.82	6	18081	Milho	-	Safrinha	2019-07-04
##	869	2.55	6	18081	Milho	-	Safrinha	2019-07-04

##	870	1.18	6	18081	Milho	-	Safrinha	2019-07-04
##	871	1.77	6	18081	Milho	-	Safrinha	2019-07-04
##	872	1.14	6	18081	Milho	-	Safrinha	2019-07-04
##	873	-1.73	6	18081	Milho	-	Safrinha	2019-07-04
##	874	0.107	6	18081	Milho	-	Safrinha	2019-07-04
##	875	0.444	6	18081	Milho	-	Safrinha	2019-07-04
##	876	1.26	6	18081	Milho	-	Safrinha	2019-07-04
##	877	2.60	6	18081	Milho	-	Safrinha	2019-07-04
##	878	-1.20	6	18081	Milho	-	Safrinha	2019-07-04
##	879	2.09	6	18081	Milho	-	Safrinha	2019-07-04
##	880	-1.28	6	18081	Milho	-	Safrinha	2019-07-04
##	881	3.03	6	18081	Milho	-	Safrinha	2019-07-04
##	882	-1.36	6	18081	Milho	-	Safrinha	2019-07-04
##	883	-2.79	6	18072	Milho	-	Safrinha	2019-06-25
##	884	-0.627	6	18081	Milho	-	Safrinha	2019-07-04
##	885	1.17	6	18081	Milho	-	Safrinha	2019-07-04
##	886	-2.43	6	18081	Milho	-	Safrinha	2019-07-04
##	887	2.07	6	18081	Milho	-	Safrinha	2019-07-04
##	888	1.55	6	18081	Milho	-	Safrinha	2019-07-04
##	889	1.66	6	18081	Milho	-	Safrinha	2019-07-04
##	890	0.662	6	18081	Milho	-	Safrinha	2019-07-04
##	891	2.01	6	18081	Milho	-	Safrinha	2019-07-04
##	892	0.133	6	18081	Milho	-	Safrinha	2019-07-04
##	893	-2.38	6	18081	Milho	-	Safrinha	2019-07-04
##	894	-0.995	6	18072	Milho	-	Safrinha	2019-06-25
##	895	-1.97	6	18072	Milho	-	Safrinha	2019-06-25
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## 988 -2.03       6      18081 Milho - Safrinha 2019-07-04
## 989  0.569      6      18081 Milho - Safrinha 2019-07-04
## 990  2.45       6      18081 Milho - Safrinha 2019-07-04
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## 992  0.106      3      17966 Cana-de-Açúcar 2019-03-11
## 993 -0.569      3      17966 Cana-de-Açúcar 2019-03-11
## 994 -0.222      3      17966 Cana-de-Açúcar 2019-03-11
## 995  2.80       3      17966 Cana-de-Açúcar 2019-03-11
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## 997  0.543      3      17966 Cana-de-Açúcar 2019-03-11
## 998  2.81       3      17966 Cana-de-Açúcar 2019-03-11
## 999  1.16       3      17966 Cana-de-Açúcar 2019-03-11
## 1000 0.418      3      17966 Cana-de-Açúcar 2019-03-11
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##      5 Milho - Safrinha 2.42
##      6 Milho - Safrinha 3.62
##      7 Milho - Safrinha 5.29
##      8 Milho - Safrinha 3.20
##      9 Milho - Safrinha 2.82
##     10 Milho - Safrinha 4.40
##     11 Milho - Safrinha 4.97
##     12 Milho - Safrinha 5.97
##     13 Milho - Safrinha 5.63
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##     15 Milho - Safrinha 3.98
##     16 Milho - Safrinha 3.27
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##     20 Milho - Safrinha 5.13
##     21 Milho - Safrinha 1.59
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##     23 Milho - Safrinha 2.19
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##     26 Milho - Safrinha 3.66
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##     29 Milho - Safrinha 3.33

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##	306 Milho - Safrinha	5.02
##	307 Milho - Safrinha	1.33
##	308 Milho - Safrinha	2.92
##	309 Milho - Safrinha	4.64
##	310 Cana-de-Açúcar	6.19
##	311 Milho - Safrinha	4.58
##	312 Milho - Safrinha	2.25
##	313 Milho - Safrinha	3.99
##	314 Milho - Safrinha	2.86
##	315 Milho - Safrinha	1.16
##	316 Milho - Safrinha	4.95
##	317 Milho - Safrinha	-1.47
##	318 Milho - Safrinha	4.09
##	319 Milho - Safrinha	4.46
##	320 Milho - Safrinha	1.86
##	321 Milho - Safrinha	1.38
##	322 Milho - Safrinha	4.66
##	323 Cana-de-Açúcar	6.04
##	324 Milho - Safrinha	3.87
##	325 Milho - Safrinha	1.51
##	326 Milho - Safrinha	2.05
##	327 Milho - Safrinha	0.798
##	328 Milho - Safrinha	4.89
##	329 Milho - Safrinha	4.94
##	330 Milho - Safrinha	4.28
##	331 Milho - Safrinha	4.00
##	332 Milho - Safrinha	4.69
##	333 Milho - Safrinha	4.26
##	334 Milho - Safrinha	4.25
##	335 Milho - Safrinha	-3.16
##	336 Milho - Safrinha	1.34
##	337 Milho - Safrinha	4.24
##	338 Milho - Safrinha	4.31
##	339 Milho - Safrinha	1.69
##	340 Milho - Safrinha	5.20
##	341 Milho - Safrinha	4.29
##	342 Milho - Safrinha	3.25
##	343 Milho - Safrinha	4.17
##	344 Milho - Safrinha	2.91
##	345 Milho - Safrinha	3.48
##	346 Milho - Safrinha	2.06
##	347 Milho - Safrinha	0.478
##	348 Milho - Safrinha	1.08
##	349 Milho - Safrinha	-1.23
##	350 Milho - Safrinha	-0.283
##	351 Milho - Safrinha	4.50
##	352 Milho - Safrinha	3.53
##	353 Milho - Safrinha	5.37

##	354 Milho - Safrinha	1.67
##	355 Milho - Safrinha	-1.22
##	356 Milho - Safrinha	4.26
##	357 Milho - Safrinha	0.473
##	358 Milho - Safrinha	3.58
##	359 Milho - Safrinha	3.84
##	360 Milho - Safrinha	5.82
##	361 Milho - Safrinha	5.13
##	362 Milho - Safrinha	5.12
##	363 Milho - Safrinha	1.64
##	364 Milho - Safrinha	4.32
##	365 Milho - Safrinha	4.65
##	366 Milho - Safrinha	0.521
##	367 Milho - Safrinha	3.13
##	368 Milho - Safrinha	1.72
##	369 Milho - Safrinha	4.11
##	370 Milho - Safrinha	2.51
##	371 Milho - Safrinha	4.49
##	372 Milho - Safrinha	4.41
##	373 Milho - Safrinha	4.89
##	374 Milho - Safrinha	4.76
##	375 Milho - Safrinha	-6.99
##	376 Milho - Safrinha	4.55
##	377 Milho - Safrinha	2.80
##	378 Milho - Safrinha	3.63
##	379 Milho - Safrinha	1.69
##	380 Milho - Safrinha	4.21
##	381 Milho - Safrinha	3.25
##	382 Milho - Safrinha	3.86
##	383 Milho - Safrinha	3.25
##	384 Milho - Safrinha	5.11
##	385 Milho - Safrinha	0.965
##	386 Milho - Safrinha	-0.357
##	387 Milho - Safrinha	1.06
##	388 Milho - Safrinha	-1.07
##	389 Milho - Safrinha	1.05
##	390 Milho - Safrinha	5.05
##	391 Milho - Safrinha	3.13
##	392 Milho - Safrinha	3.17
##	393 Milho - Safrinha	5.08
##	394 Milho - Safrinha	1.66
##	395 Milho - Safrinha	3.96
##	396 Milho - Safrinha	4.50
##	397 Milho - Safrinha	2.54
##	398 Milho - Safrinha	6.49
##	399 Milho - Safrinha	4.23
##	400 Milho - Safrinha	0.109
##	401 Milho - Safrinha	4.69
##	402 Milho - Safrinha	2.85
##	403 Milho - Safrinha	1.43
##	404 Milho - Safrinha	4.53
##	405 Milho - Safrinha	2.75
##	406 Milho - Safrinha	1.16
##	407 Milho - Safrinha	2.72

##	408 Milho - Safrinha	3.95
##	409 Milho - Safrinha	3.75
##	410 Milho - Safrinha	3.51
##	411 Milho - Safrinha	3.16
##	412 Milho - Safrinha	3.19
##	413 Milho - Safrinha	4.25
##	414 Milho - Safrinha	4.59
##	415 Milho - Safrinha	4.64
##	416 Milho - Safrinha	1.89
##	417 Milho - Safrinha	4.66
##	418 Milho - Safrinha	4.28
##	419 Milho - Safrinha	0.151
##	420 Milho - Safrinha	-0.0640
##	421 Milho - Safrinha	2.30
##	422 Milho - Safrinha	3.70
##	423 Milho - Safrinha	0.994
##	424 Milho - Safrinha	2.11
##	425 Milho - Safrinha	-0.953
##	426 Milho - Safrinha	1.55
##	427 Milho - Safrinha	1.70
##	428 Cana-de-Açúcar	6.96
##	429 Milho - Safrinha	3.82
##	430 Milho - Safrinha	4.33
##	431 Milho - Safrinha	-0.509
##	432 Milho - Safrinha	4.33
##	433 Milho - Safrinha	-0.189
##	434 Milho - Safrinha	2.90
##	435 Milho - Safrinha	0.965
##	436 Milho - Safrinha	-0.684
##	437 Milho - Safrinha	3.79
##	438 Milho - Safrinha	4.75
##	439 Milho - Safrinha	3.04
##	440 Milho - Safrinha	1.25
##	441 Milho - Safrinha	5.27
##	442 Milho - Safrinha	5.48
##	443 Milho - Safrinha	2.90
##	444 Milho - Safrinha	4.08
##	445 Milho - Safrinha	4.17
##	446 Milho - Safrinha	3.83
##	447 Milho - Safrinha	0.839
##	448 Milho - Safrinha	4.78
##	449 Milho - Safrinha	4.08
##	450 Milho - Safrinha	2.98
##	451 Milho - Safrinha	3.32
##	452 Milho - Safrinha	-0.588
##	453 Milho - Safrinha	-5.57
##	454 Milho - Safrinha	3.99
##	455 Milho - Safrinha	0.394
##	456 Milho - Safrinha	3.94
##	457 Milho - Safrinha	2.07
##	458 Milho - Safrinha	5.38
##	459 Milho - Safrinha	2.55
##	460 Milho - Safrinha	2.24
##	461 Milho - Safrinha	6.65

##	462 Milho - Safrinha	3.88
##	463 Milho - Safrinha	0.218
##	464 Milho - Safrinha	5.25
##	465 Milho - Safrinha	-1.98
##	466 Milho - Safrinha	0.978
##	467 Milho - Safrinha	4.14
##	468 Milho - Safrinha	3.70
##	469 Milho - Safrinha	1.15
##	470 Milho - Safrinha	2.11
##	471 Milho - Safrinha	5.03
##	472 Milho - Safrinha	0.304
##	473 Milho - Safrinha	3.22
##	474 Milho - Safrinha	3.25
##	475 Milho - Safrinha	3.90
##	476 Milho - Safrinha	4.69
##	477 Milho - Safrinha	4.49
##	478 Milho - Safrinha	3.74
##	479 Milho - Safrinha	3.79
##	480 Milho - Safrinha	-2.30
##	481 Milho - Safrinha	5.41
##	482 Milho - Safrinha	4.64
##	483 Milho - Safrinha	5.95
##	484 Milho - Safrinha	4.61
##	485 Milho - Safrinha	4.46
##	486 Milho - Safrinha	3.83
##	487 Milho - Safrinha	-0.143
##	488 Milho - Safrinha	4.85
##	489 Milho - Safrinha	3.81
##	490 Milho - Safrinha	3.63
##	491 Milho - Safrinha	5.11
##	492 Milho - Safrinha	3.26
##	493 Milho - Safrinha	6.09
##	494 Milho - Safrinha	2.08
##	495 Milho - Safrinha	4.29
##	496 Milho - Safrinha	4.64
##	497 Milho - Safrinha	3.16
##	498 Milho - Safrinha	4.47
##	499 Milho - Safrinha	1.17
##	500 Milho - Safrinha	1.69
##	501 Milho - Safrinha	2.51
##	502 Milho - Safrinha	5.28
##	503 Milho - Safrinha	5.43
##	504 Milho - Safrinha	3.88
##	505 Milho - Safrinha	2.75
##	506 Milho - Safrinha	5.11
##	507 Milho - Safrinha	0.0385
##	508 Milho - Safrinha	3.05
##	509 Milho - Safrinha	4.71
##	510 Milho - Safrinha	4.30
##	511 Milho - Safrinha	3.88
##	512 Milho - Safrinha	3.09
##	513 Milho - Safrinha	3.30
##	514 Milho - Safrinha	5.29
##	515 Milho - Safrinha	5.39

##	516 Milho - Safrinha	5.25
##	517 Milho - Safrinha	5.94
##	518 Milho - Safrinha	3.30
##	519 Milho - Safrinha	2.72
##	520 Milho - Safrinha	3.51
##	521 Milho - Safrinha	2.89
##	522 Milho - Safrinha	5.62
##	523 Milho - Safrinha	4.40
##	524 Milho - Safrinha	5.94
##	525 Milho - Safrinha	3.21
##	526 Milho - Safrinha	2.99
##	527 Milho - Safrinha	3.36
##	528 Milho - Safrinha	-3.18
##	529 Milho - Safrinha	3.28
##	530 Milho - Safrinha	1.85
##	531 Milho - Safrinha	4.15
##	532 Milho - Safrinha	4.26
##	533 Milho - Safrinha	3.10
##	534 Milho - Safrinha	3.47
##	535 Milho - Safrinha	3.89
##	536 Milho - Safrinha	3.35
##	537 Milho - Safrinha	-0.437
##	538 Milho - Safrinha	3.88
##	539 Milho - Safrinha	4.11
##	540 Milho - Safrinha	2.17
##	541 Milho - Safrinha	2.71
##	542 Milho - Safrinha	-10.9
##	543 Milho - Safrinha	1.76
##	544 Milho - Safrinha	-1.86
##	545 Milho - Safrinha	5.11
##	546 Milho - Safrinha	0.911
##	547 Milho - Safrinha	3.05
##	548 Milho - Safrinha	3.54
##	549 Milho - Safrinha	5.84
##	550 Milho - Safrinha	-4.55
##	551 Milho - Safrinha	4.65
##	552 Milho - Safrinha	4.89
##	553 Milho - Safrinha	4.12
##	554 Milho - Safrinha	5.11
##	555 Milho - Safrinha	2.80
##	556 Milho - Safrinha	2.37
##	557 Milho - Safrinha	3.66
##	558 Milho - Safrinha	2.00
##	559 Milho - Safrinha	4.53
##	560 Milho - Safrinha	5.25
##	561 Milho - Safrinha	3.42
##	562 Milho - Safrinha	-0.350
##	563 Milho - Safrinha	6.01
##	564 Milho - Safrinha	5.06
##	565 Milho - Safrinha	6.22
##	566 Milho - Safrinha	0.928
##	567 Milho - Safrinha	3.11
##	568 Milho - Safrinha	5.39
##	569 Milho - Safrinha	0.223

##	570 Milho - Safrinha	3.50
##	571 Milho - Safrinha	4.16
##	572 Milho - Safrinha	3.50
##	573 Cana-de-Açúcar	6.48
##	574 Milho - Safrinha	1.65
##	575 Milho - Safrinha	3.36
##	576 Milho - Safrinha	5.60
##	577 Milho - Safrinha	2.34
##	578 Milho - Safrinha	3.21
##	579 Milho - Safrinha	3.05
##	580 Milho - Safrinha	5.69
##	581 Milho - Safrinha	4.86
##	582 Milho - Safrinha	3.55
##	583 Milho - Safrinha	3.35
##	584 Milho - Safrinha	4.91
##	585 Milho - Safrinha	3.18
##	586 Milho - Safrinha	2.32
##	587 Milho - Safrinha	4.14
##	588 Milho - Safrinha	2.08
##	589 Milho - Safrinha	2.84
##	590 Milho - Safrinha	5.00
##	591 Milho - Safrinha	3.40
##	592 Milho - Safrinha	5.56
##	593 Milho - Safrinha	4.57
##	594 Milho - Safrinha	3.55
##	595 Milho - Safrinha	3.13
##	596 Milho - Safrinha	3.16
##	597 Milho - Safrinha	2.54
##	598 Milho - Safrinha	-0.955
##	599 Milho - Safrinha	3.87
##	600 Milho - Safrinha	1.39
##	601 Milho - Safrinha	3.91
##	602 Milho - Safrinha	5.08
##	603 Milho - Safrinha	4.62
##	604 Milho - Safrinha	4.39
##	605 Milho - Safrinha	5.52
##	606 Cana-de-Açúcar	7.09
##	607 Milho - Safrinha	4.97
##	608 Milho - Safrinha	2.84
##	609 Milho - Safrinha	1.29
##	610 Milho - Safrinha	2.59
##	611 Milho - Safrinha	3.24
##	612 Milho - Safrinha	5.54
##	613 Milho - Safrinha	1.91
##	614 Milho - Safrinha	3.64
##	615 Milho - Safrinha	4.12
##	616 Milho - Safrinha	1.16
##	617 Milho - Safrinha	4.51
##	618 Milho - Safrinha	5.36
##	619 Milho - Safrinha	3.53
##	620 Milho - Safrinha	4.24
##	621 Milho - Safrinha	4.38
##	622 Milho - Safrinha	4.86
##	623 Milho - Safrinha	4.85

##	624 Milho - Safrinha	3.45
##	625 Milho - Safrinha	4.20
##	626 Milho - Safrinha	3.81
##	627 Milho - Safrinha	2.89
##	628 Milho - Safrinha	-0.332
##	629 Milho - Safrinha	-0.905
##	630 Milho - Safrinha	2.13
##	631 Milho - Safrinha	3.71
##	632 Milho - Safrinha	5.80
##	633 Milho - Safrinha	4.50
##	634 Milho - Safrinha	1.68
##	635 Milho - Safrinha	2.68
##	636 Milho - Safrinha	4.50
##	637 Milho - Safrinha	2.09
##	638 Milho - Safrinha	2.26
##	639 Milho - Safrinha	4.57
##	640 Milho - Safrinha	5.15
##	641 Milho - Safrinha	3.21
##	642 Milho - Safrinha	3.77
##	643 Cana-de-Açúcar	3.26
##	644 Cana-de-Açúcar	2.88
##	645 Milho - Safrinha	4.77
##	646 Milho - Safrinha	4.85
##	647 Milho - Safrinha	4.32
##	648 Cana-de-Açúcar	4.23
##	649 Cana-de-Açúcar	5.91
##	650 Milho - Safrinha	6.27
##	651 Milho - Safrinha	3.61
##	652 Milho - Safrinha	5.44
##	653 Milho - Safrinha	3.90
##	654 Milho - Safrinha	4.38
##	655 Milho - Safrinha	4.38
##	656 Milho - Safrinha	1.63
##	657 Milho - Safrinha	2.76
##	658 Milho - Safrinha	0.846
##	659 Milho - Safrinha	5.87
##	660 Milho - Safrinha	2.49
##	661 Milho - Safrinha	3.38
##	662 Milho - Safrinha	4.57
##	663 Milho - Safrinha	5.35
##	664 Milho - Safrinha	5.79
##	665 Milho - Safrinha	4.73
##	666 Milho - Safrinha	4.82
##	667 Milho - Safrinha	0.790
##	668 Milho - Safrinha	3.02
##	669 Milho - Safrinha	5.83
##	670 Milho - Safrinha	2.66
##	671 Milho - Safrinha	3.76
##	672 Cana-de-Açúcar	6.51
##	673 Milho - Safrinha	4.15
##	674 Milho - Safrinha	5.15
##	675 Milho - Safrinha	3.53
##	676 Milho - Safrinha	2.80
##	677 Milho - Safrinha	3.90

##	678 Milho - Safrinha	5.28
##	679 Milho - Safrinha	2.07
##	680 Milho - Safrinha	2.20
##	681 Milho - Safrinha	4.03
##	682 Milho - Safrinha	2.33
##	683 Milho - Safrinha	-0.805
##	684 Milho - Safrinha	1.00
##	685 Milho - Safrinha	4.84
##	686 Milho - Safrinha	5.07
##	687 Milho - Safrinha	2.22
##	688 Milho - Safrinha	3.48
##	689 Milho - Safrinha	3.12
##	690 Milho - Safrinha	1.85
##	691 Milho - Safrinha	4.62
##	692 Milho - Safrinha	2.92
##	693 Milho - Safrinha	4.63
##	694 Milho - Safrinha	4.13
##	695 Milho - Safrinha	5.22
##	696 Milho - Safrinha	4.67
##	697 Milho - Safrinha	1.84
##	698 Milho - Safrinha	0.955
##	699 Milho - Safrinha	-0.864
##	700 Milho - Safrinha	1.79
##	701 Milho - Safrinha	1.50
##	702 Milho - Safrinha	4.89
##	703 Milho - Safrinha	5.28
##	704 Milho - Safrinha	5.22
##	705 Milho - Safrinha	0.816
##	706 Milho - Safrinha	0.197
##	707 Milho - Safrinha	4.54
##	708 Milho - Safrinha	2.83
##	709 Milho - Safrinha	2.30
##	710 Milho - Safrinha	3.34
##	711 Milho - Safrinha	2.65
##	712 Milho - Safrinha	-1.35
##	713 Milho - Safrinha	4.07
##	714 Milho - Safrinha	1.40
##	715 Milho - Safrinha	5.53
##	716 Milho - Safrinha	3.59
##	717 Milho - Safrinha	3.91
##	718 Milho - Safrinha	4.96
##	719 Milho - Safrinha	4.57
##	720 Milho - Safrinha	4.35
##	721 Milho - Safrinha	3.84
##	722 Milho - Safrinha	3.17
##	723 Milho - Safrinha	4.13
##	724 Milho - Safrinha	1.74
##	725 Milho - Safrinha	2.81
##	726 Milho - Safrinha	4.34
##	727 Milho - Safrinha	5.28
##	728 Milho - Safrinha	0.334
##	729 Milho - Safrinha	3.18
##	730 Milho - Safrinha	3.19
##	731 Milho - Safrinha	5.89

##	732 Milho - Safrinha	2.61
##	733 Milho - Safrinha	5.94
##	734 Milho - Safrinha	1.53
##	735 Milho - Safrinha	-0.555
##	736 Milho - Safrinha	2.65
##	737 Milho - Safrinha	-0.649
##	738 Milho - Safrinha	2.47
##	739 Milho - Safrinha	4.91
##	740 Milho - Safrinha	-4.83
##	741 Milho - Safrinha	4.50
##	742 Milho - Safrinha	6.67
##	743 Milho - Safrinha	0.772
##	744 Milho - Safrinha	2.36
##	745 Milho - Safrinha	4.93
##	746 Milho - Safrinha	1.47
##	747 Milho - Safrinha	3.72
##	748 Milho - Safrinha	0.664
##	749 Milho - Safrinha	5.51
##	750 Milho - Safrinha	0.304
##	751 Cana-de-Açúcar	5.86
##	752 Milho - Safrinha	2.27
##	753 Milho - Safrinha	3.76
##	754 Milho - Safrinha	1.51
##	755 Milho - Safrinha	2.58
##	756 Milho - Safrinha	5.21
##	757 Milho - Safrinha	3.98
##	758 Milho - Safrinha	4.84
##	759 Milho - Safrinha	4.58
##	760 Milho - Safrinha	0.197
##	761 Milho - Safrinha	5.42
##	762 Milho - Safrinha	5.19
##	763 Milho - Safrinha	0.932
##	764 Milho - Safrinha	3.22
##	765 Milho - Safrinha	4.75
##	766 Milho - Safrinha	3.11
##	767 Milho - Safrinha	4.01
##	768 Milho - Safrinha	5.11
##	769 Milho - Safrinha	-2.57
##	770 Milho - Safrinha	4.81
##	771 Milho - Safrinha	3.47
##	772 Milho - Safrinha	2.73
##	773 Milho - Safrinha	3.85
##	774 Milho - Safrinha	1.59
##	775 Milho - Safrinha	1.84
##	776 Cana-de-Açúcar	5.58
##	777 Milho - Safrinha	5.13
##	778 Milho - Safrinha	3.16
##	779 Milho - Safrinha	3.63
##	780 Milho - Safrinha	2.86
##	781 Milho - Safrinha	4.61
##	782 Milho - Safrinha	-1.49
##	783 Milho - Safrinha	4.84
##	784 Milho - Safrinha	0.843
##	785 Milho - Safrinha	0.313

##	786 Milho - Safrinha	-1.19
##	787 Milho - Safrinha	2.72
##	788 Milho - Safrinha	-0.350
##	789 Milho - Safrinha	-0.446
##	790 Milho - Safrinha	3.62
##	791 Milho - Safrinha	5.88
##	792 Milho - Safrinha	4.47
##	793 Milho - Safrinha	5.00
##	794 Milho - Safrinha	1.75
##	795 Milho - Safrinha	1.56
##	796 Milho - Safrinha	4.11
##	797 Milho - Safrinha	6.17
##	798 Milho - Safrinha	0.975
##	799 Milho - Safrinha	2.07
##	800 Milho - Safrinha	3.94
##	801 Milho - Safrinha	4.91
##	802 Milho - Safrinha	5.33
##	803 Milho - Safrinha	4.30
##	804 Milho - Safrinha	1.32
##	805 Milho - Safrinha	3.62
##	806 Milho - Safrinha	5.07
##	807 Milho - Safrinha	4.19
##	808 Milho - Safrinha	4.67
##	809 Milho - Safrinha	4.57
##	810 Milho - Safrinha	4.23
##	811 Milho - Safrinha	5.77
##	812 Milho - Safrinha	5.49
##	813 Milho - Safrinha	3.21
##	814 Milho - Safrinha	5.33
##	815 Milho - Safrinha	5.46
##	816 Milho - Safrinha	4.52
##	817 Milho - Safrinha	2.82
##	818 Milho - Safrinha	1.08
##	819 Milho - Safrinha	3.32
##	820 Milho - Safrinha	5.00
##	821 Milho - Safrinha	5.21
##	822 Milho - Safrinha	3.64
##	823 Milho - Safrinha	4.22
##	824 Milho - Safrinha	4.87
##	825 Milho - Safrinha	3.24
##	826 Milho - Safrinha	2.44
##	827 Milho - Safrinha	5.49
##	828 Milho - Safrinha	3.58
##	829 Milho - Safrinha	5.11
##	830 Milho - Safrinha	0.482
##	831 Milho - Safrinha	1.51
##	832 Milho - Safrinha	4.33
##	833 Milho - Safrinha	5.05
##	834 Milho - Safrinha	3.52
##	835 Milho - Safrinha	0.874
##	836 Milho - Safrinha	1.30
##	837 Milho - Safrinha	-3.57
##	838 Milho - Safrinha	4.32
##	839 Milho - Safrinha	2.86

##	840 Milho - Safrinha	4.95
##	841 Milho - Safrinha	1.97
##	842 Milho - Safrinha	5.01
##	843 Milho - Safrinha	1.12
##	844 Milho - Safrinha	4.38
##	845 Milho - Safrinha	4.27
##	846 Milho - Safrinha	6.46
##	847 Milho - Safrinha	3.40
##	848 Milho - Safrinha	5.23
##	849 Milho - Safrinha	-2.43
##	850 Milho - Safrinha	3.59
##	851 Milho - Safrinha	3.09
##	852 Milho - Safrinha	0.596
##	853 Milho - Safrinha	5.25
##	854 Milho - Safrinha	3.09
##	855 Milho - Safrinha	3.08
##	856 Milho - Safrinha	5.99
##	857 Milho - Safrinha	3.55
##	858 Milho - Safrinha	1.54
##	859 Milho - Safrinha	6.34
##	860 Milho - Safrinha	2.45
##	861 Milho - Safrinha	3.02
##	862 Milho - Safrinha	3.12
##	863 Milho - Safrinha	0.278
##	864 Milho - Safrinha	1.34
##	865 Milho - Safrinha	3.78
##	866 Milho - Safrinha	5.27
##	867 Milho - Safrinha	5.57
##	868 Milho - Safrinha	-0.752
##	869 Milho - Safrinha	2.69
##	870 Milho - Safrinha	3.21
##	871 Milho - Safrinha	0.257
##	872 Milho - Safrinha	3.20
##	873 Milho - Safrinha	5.30
##	874 Milho - Safrinha	4.36
##	875 Milho - Safrinha	3.81
##	876 Milho - Safrinha	3.94
##	877 Milho - Safrinha	4.43
##	878 Milho - Safrinha	4.17
##	879 Milho - Safrinha	5.40
##	880 Milho - Safrinha	2.87
##	881 Milho - Safrinha	3.79
##	882 Milho - Safrinha	3.36
##	883 Milho - Safrinha	5.62
##	884 Milho - Safrinha	3.47
##	885 Milho - Safrinha	3.42
##	886 Milho - Safrinha	3.11
##	887 Milho - Safrinha	5.57
##	888 Milho - Safrinha	-1.41
##	889 Milho - Safrinha	3.18
##	890 Milho - Safrinha	2.25
##	891 Milho - Safrinha	4.14
##	892 Milho - Safrinha	4.27
##	893 Milho - Safrinha	0.891

##	894 Milho - Safrinha	5.29
##	895 Milho - Safrinha	5.98
##	896 Milho - Safrinha	-3.54
##	897 Milho - Safrinha	4.20
##	898 Milho - Safrinha	4.08
##	899 Milho - Safrinha	2.31
##	900 Milho - Safrinha	1.81
##	901 Milho - Safrinha	5.39
##	902 Milho - Safrinha	1.37
##	903 Milho - Safrinha	-4.76
##	904 Milho - Safrinha	0.933
##	905 Milho - Safrinha	2.82
##	906 Milho - Safrinha	4.92
##	907 Milho - Safrinha	3.99
##	908 Milho - Safrinha	4.21
##	909 Milho - Safrinha	0.299
##	910 Milho - Safrinha	4.60
##	911 Milho - Safrinha	3.79
##	912 Milho - Safrinha	5.03
##	913 Milho - Safrinha	-0.566
##	914 Milho - Safrinha	1.81
##	915 Milho - Safrinha	2.78
##	916 Milho - Safrinha	4.48
##	917 Milho - Safrinha	3.16
##	918 Milho - Safrinha	4.76
##	919 Milho - Safrinha	4.96
##	920 Milho - Safrinha	5.83
##	921 Milho - Safrinha	4.43
##	922 Milho - Safrinha	4.29
##	923 Milho - Safrinha	3.28
##	924 Milho - Safrinha	3.24
##	925 Milho - Safrinha	3.12
##	926 Milho - Safrinha	2.12
##	927 Milho - Safrinha	4.12
##	928 Milho - Safrinha	4.95
##	929 Milho - Safrinha	4.17
##	930 Milho - Safrinha	3.69
##	931 Milho - Safrinha	1.75
##	932 Cana-de-Açúcar	6.25
##	933 Milho - Safrinha	-0.215
##	934 Milho - Safrinha	4.54
##	935 Milho - Safrinha	4.37
##	936 Milho - Safrinha	4.25
##	937 Milho - Safrinha	5.02
##	938 Milho - Safrinha	5.01
##	939 Milho - Safrinha	5.18
##	940 Milho - Safrinha	-0.247
##	941 Milho - Safrinha	5.22
##	942 Milho - Safrinha	5.83
##	943 Milho - Safrinha	5.21
##	944 Milho - Safrinha	3.57
##	945 Milho - Safrinha	4.54
##	946 Milho - Safrinha	5.41
##	947 Milho - Safrinha	4.61

```

## 948 Milho - Safrinha 5.05
## 949 Milho - Safrinha 5.70
## 950 Milho - Safrinha 1.23
## 951 Milho - Safrinha 4.07
## 952 Milho - Safrinha 3.20
## 953 Milho - Safrinha 0.896
## 954 Milho - Safrinha 0.116
## 955 Milho - Safrinha 0.988
## 956 Milho - Safrinha 4.97
## 957 Milho - Safrinha -2.56
## 958 Milho - Safrinha 5.14
## 959 Milho - Safrinha 1.58
## 960 Milho - Safrinha 2.57
## 961 Milho - Safrinha 2.47
## 962 Milho - Safrinha 2.93
## 963 Milho - Safrinha 6.38
## 964 Milho - Safrinha 5.52
## 965 Milho - Safrinha -2.29
## 966 Milho - Safrinha 3.20
## 967 Milho - Safrinha 4.56
## 968 Milho - Safrinha 5.24
## 969 Milho - Safrinha 5.20
## 970 Milho - Safrinha 0.417
## 971 Milho - Safrinha 4.20
## 972 Milho - Safrinha 3.58
## 973 Milho - Safrinha 4.41
## 974 Milho - Safrinha 6.61
## 975 Milho - Safrinha 4.21
## 976 Milho - Safrinha 4.00
## 977 Milho - Safrinha 5.43
## 978 Milho - Safrinha 5.05
## 979 Milho - Safrinha 3.59
## 980 Milho - Safrinha -0.269
## 981 Milho - Safrinha 2.75
## 982 Milho - Safrinha 5.26
## 983 Milho - Safrinha 4.23
## 984 Milho - Safrinha 4.91
## 985 Milho - Safrinha 3.87
## 986 Milho - Safrinha 1.54
## 987 Milho - Safrinha -0.940
## 988 Milho - Safrinha 5.33
## 989 Milho - Safrinha 4.42
## 990 Milho - Safrinha 3.41
## 991 Solo Exposto 4.69
## 992 Solo Exposto 6.30
## 993 Solo Exposto 5.89
## 994 Solo Exposto 6.39
## 995 Solo Exposto 2.15
## 996 Solo Exposto 2.03
## 997 Solo Exposto 3.33
## 998 Solo Exposto 2.96
## 999 Solo Exposto 2.30
## 1000 Solo Exposto 2.16
## # ... with 1 more row

```

```
d1 %>%
  dplyr::filter(!is.na(julian.date)) %>%
  .[6500:7500,] %>%
  print(width = Inf, n = 1000)
```

```
## # A tibble: 1,001 x 18
```

##	*	burst_	step_id_	case_	x1_	y1_	x2_	y2_
##		<dbl>	<int>	<lgl>	<dbl>	<dbl>	<dbl>	<dbl>
##	1	18	1273	FALSE	315728.	7977654.	315729.	7977653.
##	2	18	1273	FALSE	315728.	7977654.	315629.	7977485.
##	3	18	1276	FALSE	317158.	7977420.	316715.	7976942.
##	4	19	1279	FALSE	317348.	7977544.	317151.	7977232.
##	5	19	1279	FALSE	317348.	7977544.	317513.	7977169.
##	6	19	1281	TRUE	317401.	7977488.	317261.	7976546.
##	7	19	1282	TRUE	317261.	7976546.	317337.	7975775.
##	8	19	1282	FALSE	317261.	7976546.	317330.	7976507.
##	9	19	1282	FALSE	317261.	7976546.	317286.	7976517.
##	10	19	1282	FALSE	317261.	7976546.	317256.	7976546.
##	11	19	1282	FALSE	317261.	7976546.	317262.	7976547.
##	12	19	1282	FALSE	317261.	7976546.	317259.	7976548.
##	13	19	1282	FALSE	317261.	7976546.	317270.	7976547.
##	14	19	1282	FALSE	317261.	7976546.	317261.	7976546.
##	15	19	1282	FALSE	317261.	7976546.	317266.	7976557.
##	16	19	1282	FALSE	317261.	7976546.	317025.	7976650.
##	17	19	1283	TRUE	317337.	7975775.	317614.	7974989.
##	18	19	1283	FALSE	317337.	7975775.	317505.	7975940.
##	19	19	1283	FALSE	317337.	7975775.	317335.	7975855.
##	20	19	1283	FALSE	317337.	7975775.	317351.	7975701.
##	21	19	1283	FALSE	317337.	7975775.	317568.	7975974.
##	22	19	1283	FALSE	317337.	7975775.	317932.	7975610.
##	23	19	1283	FALSE	317337.	7975775.	317266.	7975655.
##	24	19	1283	FALSE	317337.	7975775.	317331.	7975734.
##	25	19	1283	FALSE	317337.	7975775.	317328.	7975765.
##	26	19	1283	FALSE	317337.	7975775.	317115.	7975314.
##	27	19	1284	TRUE	317614.	7974989.	317779.	7975033.
##	28	19	1284	FALSE	317614.	7974989.	317615.	7974988.
##	29	19	1284	FALSE	317614.	7974989.	317306.	7975379.
##	30	19	1284	FALSE	317614.	7974989.	317640.	7974952.
##	31	19	1284	FALSE	317614.	7974989.	317619.	7974997.
##	32	19	1284	FALSE	317614.	7974989.	317619.	7974975.
##	33	19	1285	TRUE	317779.	7975033.	319040.	7974716.
##	34	19	1285	FALSE	317779.	7975033.	317886.	7974839.
##	35	19	1285	FALSE	317779.	7975033.	317788.	7975077.
##	36	19	1285	FALSE	317779.	7975033.	317686.	7974979.
##	37	19	1285	FALSE	317779.	7975033.	317779.	7975033.
##	38	19	1285	FALSE	317779.	7975033.	317690.	7975004.
##	39	19	1285	FALSE	317779.	7975033.	317782.	7975027.
##	40	19	1285	FALSE	317779.	7975033.	317777.	7975036.
##	41	19	1285	FALSE	317779.	7975033.	317796.	7975057.
##	42	19	1286	FALSE	319040.	7974716.	319032.	7974695.
##	43	19	1286	FALSE	319040.	7974716.	319080.	7974691.
##	44	19	1286	FALSE	319040.	7974716.	318408.	7974899.
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##	46	19	1286	FALSE	319040.	7974716.	319026.	7974722.

##	47	19	1286	FALSE	319040.	7974716.	319071.	7974718.
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##	49	19	1292	FALSE	319917.	7974552.	319457.	7974817.
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##	55	25	1410	FALSE	319826.	7975419.	319731.	7975499.
##	56	25	1410	FALSE	319826.	7975419.	319838.	7975543.
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##	60	25	1411	TRUE	319734.	7975565.	319666.	7975496.
##	61	25	1411	FALSE	319734.	7975565.	319741.	7975544.
##	62	25	1411	FALSE	319734.	7975565.	319753.	7975608.
##	63	25	1411	FALSE	319734.	7975565.	319729.	7975703.
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##	65	25	1411	FALSE	319734.	7975565.	319739.	7975562.
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##	70	25	1412	FALSE	319666.	7975496.	319397.	7975391.
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##	72	25	1412	FALSE	319666.	7975496.	319573.	7975442.
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##	75	25	1413	FALSE	319706.	7975272.	319701.	7975270.
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##	78	25	1413	FALSE	319706.	7975272.	319671.	7975245.
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##	159	59	2096	FALSE	316612.	7979067.	316607.	7979049.
##	160	59	2096	FALSE	316612.	7979067.	316612.	7979069.
##	161	59	2096	FALSE	316612.	7979067.	316562.	7979051.
##	162	59	2096	FALSE	316612.	7979067.	316874.	7979108.
##	163	59	2096	FALSE	316612.	7979067.	316774.	7979144.
##	164	59	2097	TRUE	316605.	7979068.	316338.	7979033.
##	165	59	2097	FALSE	316605.	7979068.	316581.	7979078.
##	166	59	2097	FALSE	316605.	7979068.	316642.	7979081.
##	167	59	2097	FALSE	316605.	7979068.	316584.	7979068.
##	168	59	2097	FALSE	316605.	7979068.	316595.	7979063.
##	169	59	2097	FALSE	316605.	7979068.	316661.	7979020.
##	170	59	2097	FALSE	316605.	7979068.	316649.	7978971.
##	171	59	2098	TRUE	316338.	7979033.	316131.	7979070.
##	172	59	2098	FALSE	316338.	7979033.	316330.	7979036.
##	173	59	2098	FALSE	316338.	7979033.	316338.	7979034.
##	174	59	2098	FALSE	316338.	7979033.	316240.	7979097.
##	175	59	2098	FALSE	316338.	7979033.	316334.	7979013.
##	176	59	2098	FALSE	316338.	7979033.	316335.	7979030.
##	177	59	2098	FALSE	316338.	7979033.	316485.	7979142.
##	178	59	2098	FALSE	316338.	7979033.	316307.	7979045.
##	179	59	2098	FALSE	316338.	7979033.	316243.	7978926.
##	180	59	2098	FALSE	316338.	7979033.	316331.	7979024.
##	181	59	2099	TRUE	316131.	7979070.	315983.	7979099.
##	182	59	2099	FALSE	316131.	7979070.	316134.	7979074.
##	183	59	2099	FALSE	316131.	7979070.	316135.	7979070.
##	184	59	2099	FALSE	316131.	7979070.	316130.	7979070.
##	185	59	2099	FALSE	316131.	7979070.	316120.	7979054.
##	186	59	2099	FALSE	316131.	7979070.	315760.	7978680.
##	187	59	2099	FALSE	316131.	7979070.	316120.	7979067.
##	188	59	2099	FALSE	316131.	7979070.	316123.	7979057.
##	189	59	2099	FALSE	316131.	7979070.	316521.	7979058.
##	190	59	2099	FALSE	316131.	7979070.	316119.	7979108.
##	191	59	2100	TRUE	315983.	7979099.	315930.	7979090.
##	192	59	2100	FALSE	315983.	7979099.	315898.	7979023.
##	193	59	2100	FALSE	315983.	7979099.	315992.	7979092.
##	194	59	2100	FALSE	315983.	7979099.	315980.	7979099.
##	195	59	2100	FALSE	315983.	7979099.	315908.	7979130.
##	196	59	2100	FALSE	315983.	7979099.	315851.	7979013.
##	197	59	2100	FALSE	315983.	7979099.	316075.	7979046.
##	198	59	2100	FALSE	315983.	7979099.	316006.	7979028.
##	199	59	2100	FALSE	315983.	7979099.	315982.	7979098.
##	200	59	2101	TRUE	315930.	7979090.	315947.	7979093.
##	201	59	2101	FALSE	315930.	7979090.	315953.	7979104.
##	202	59	2101	FALSE	315930.	7979090.	315913.	7979082.
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##	204	59	2101	FALSE	315930.	7979090.	315952.	7979097.
##	205	59	2101	FALSE	315930.	7979090.	315926.	7979073.
##	206	59	2101	FALSE	315930.	7979090.	315906.	7979077.
##	207	59	2101	FALSE	315930.	7979090.	316087.	7978968.
##	208	59	2101	FALSE	315930.	7979090.	315843.	7979011.

##	209	59	2102 TRUE	315947.	7979093.	315899.	7979086.
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##	211	59	2102 FALSE	315947.	7979093.	315949.	7979094.
##	212	59	2102 FALSE	315947.	7979093.	316044.	7979072.
##	213	59	2102 FALSE	315947.	7979093.	316009.	7979122.
##	214	59	2102 FALSE	315947.	7979093.	315710.	7978683.
##	215	59	2102 FALSE	315947.	7979093.	315953.	7979114.
##	216	59	2102 FALSE	315947.	7979093.	316032.	7978961.
##	217	59	2103 TRUE	315899.	7979086.	315886.	7979035.
##	218	59	2103 FALSE	315899.	7979086.	315875.	7979070.
##	219	59	2103 FALSE	315899.	7979086.	315880.	7979134.
##	220	59	2103 FALSE	315899.	7979086.	315900.	7979086.
##	221	59	2103 FALSE	315899.	7979086.	315929.	7979108.
##	222	59	2103 FALSE	315899.	7979086.	315909.	7979087.
##	223	59	2103 FALSE	315899.	7979086.	315848.	7978982.
##	224	59	2103 FALSE	315899.	7979086.	315962.	7979090.
##	225	59	2103 FALSE	315899.	7979086.	315900.	7979092.
##	226	59	2104 TRUE	315886.	7979035.	316020.	7979085.
##	227	59	2104 FALSE	315886.	7979035.	315867.	7978998.
##	228	59	2104 FALSE	315886.	7979035.	315892.	7979033.
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##	230	59	2104 FALSE	315886.	7979035.	315904.	7979061.
##	231	59	2104 FALSE	315886.	7979035.	316075.	7978675.
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##	234	59	2105 TRUE	316020.	7979085.	316137.	7978891.
##	235	59	2105 FALSE	316020.	7979085.	316026.	7979110.
##	236	59	2105 FALSE	316020.	7979085.	316115.	7979047.
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##	238	59	2105 FALSE	316020.	7979085.	316019.	7979081.
##	239	59	2105 FALSE	316020.	7979085.	316019.	7979083.
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##	241	59	2105 FALSE	316020.	7979085.	316182.	7978986.
##	242	59	2105 FALSE	316020.	7979085.	316064.	7979024.
##	243	59	2105 FALSE	316020.	7979085.	316035.	7979078.
##	244	59	2106 TRUE	316137.	7978891.	316862.	7978916.
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##	248	59	2106 FALSE	316137.	7978891.	316188.	7978923.
##	249	59	2106 FALSE	316137.	7978891.	316160.	7978880.
##	250	59	2106 FALSE	316137.	7978891.	315786.	7979071.
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##	252	59	2106 FALSE	316137.	7978891.	316122.	7978900.
##	253	59	2107 TRUE	316862.	7978916.	316380.	7979116.
##	254	59	2107 FALSE	316862.	7978916.	316809.	7978901.
##	255	59	2107 FALSE	316862.	7978916.	316848.	7978886.
##	256	59	2107 FALSE	316862.	7978916.	316794.	7978986.
##	257	59	2107 FALSE	316862.	7978916.	316874.	7978917.
##	258	59	2107 FALSE	316862.	7978916.	316813.	7978868.
##	259	59	2107 FALSE	316862.	7978916.	316860.	7978929.
##	260	59	2107 FALSE	316862.	7978916.	316860.	7978903.
##	261	59	2107 FALSE	316862.	7978916.	316838.	7978938.
##	262	59	2108 FALSE	316380.	7979116.	316376.	7979096.

##	263	59	2108	FALSE	316380.	7979116.	316353.	7978966.
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##	266	59	2108	FALSE	316380.	7979116.	316352.	7979087.
##	267	59	2108	FALSE	316380.	7979116.	316155.	7979120.
##	268	59	2108	FALSE	316380.	7979116.	316325.	7979137.
##	269	59	2113	FALSE	314931.	7977615.	314959.	7977571.
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##	274	61	2186	FALSE	319879.	7975961.	319709.	7975791.
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##	277	67	2345	FALSE	319760.	7975262.	319662.	7975258.
##	278	67	2346	FALSE	319667.	7974870.	319535.	7975175.
##	279	67	2346	FALSE	319667.	7974870.	319466.	7974840.
##	280	67	2347	FALSE	319633.	7974521.	319235.	7974768.
##	281	67	2349	FALSE	319999.	7974121.	319702.	7972929.
##	282	67	2352	FALSE	321633.	7972610.	321504.	7971961.
##	283	69	2359	FALSE	322261.	7972089.	321829.	7971907.
##	284	69	2360	FALSE	321959.	7972039.	321916.	7972046.
##	285	69	2360	FALSE	321959.	7972039.	321710.	7972064.
##	286	69	2360	FALSE	321959.	7972039.	321970.	7972010.
##	287	69	2362	FALSE	321940.	7972387.	321749.	7972089.
##	288	69	2367	TRUE	319227.	7974187.	318819.	7973647.
##	289	69	2368	TRUE	318819.	7973647.	318767.	7973645.
##	290	69	2368	FALSE	318819.	7973647.	318815.	7973550.
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##	293	69	2368	FALSE	318819.	7973647.	318938.	7973513.
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##	296	69	2369	FALSE	318767.	7973645.	318774.	7973649.
##	297	69	2369	FALSE	318767.	7973645.	318817.	7973524.
##	298	69	2369	FALSE	318767.	7973645.	318764.	7973662.
##	299	69	2369	FALSE	318767.	7973645.	318733.	7973356.
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##	301	69	2370	FALSE	318791.	7973703.	318817.	7973615.
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##	304	69	2371	FALSE	318792.	7973698.	318635.	7973474.
##	305	69	2371	FALSE	318792.	7973698.	318704.	7973628.
##	306	69	2371	FALSE	318792.	7973698.	318945.	7973509.
##	307	69	2371	FALSE	318792.	7973698.	318757.	7973659.
##	308	69	2371	FALSE	318792.	7973698.	318705.	7973625.
##	309	69	2372	FALSE	318767.	7973728.	318698.	7973646.
##	310	69	2372	FALSE	318767.	7973728.	318688.	7973633.
##	311	69	2372	FALSE	318767.	7973728.	318504.	7973714.
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##	315	69	2374	FALSE	318773.	7973699.	318766.	7973650.
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##	317	69	2374	FALSE	318773.	7973699.	318472.	7973447.
##	318	69	2374	FALSE	318773.	7973699.	318652.	7973489.
##	319	69	2375	FALSE	318771.	7973723.	318720.	7973634.
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##	326	70	2381	FALSE	318821.	7973769.	318380.	7973782.
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##	333	70	2393	FALSE	319948.	7974618.	319306.	7974851.
##	334	71	2407	TRUE	319264.	7974713.	319353.	7974737.
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##	395	72	2499	FALSE	319483.	7974723.	319494.	7974829.
##	396	72	2499	FALSE	319483.	7974723.	319446.	7974767.
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##	401	72	2501	FALSE	319438.	7974714.	319340.	7974591.
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##	409	72	2501	FALSE	319438.	7974714.	319452.	7974779.
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##	418	73	2527	TRUE	316422.	7970224.	314596.	7970885.
##	419	73	2528	FALSE	314596.	7970885.	315034.	7971207.
##	420	73	2528	FALSE	314596.	7970885.	314781.	7970926.
##	421	73	2528	FALSE	314596.	7970885.	314793.	7970362.
##	422	73	2528	FALSE	314596.	7970885.	314595.	7970921.
##	423	73	2528	FALSE	314596.	7970885.	314622.	7970788.
##	424	73	2528	FALSE	314596.	7970885.	314774.	7970985.

##	425	73	2528	FALSE	314596.	7970885.	315182.	7970839.
##	426	73	2528	FALSE	314596.	7970885.	314556.	7970805.
##	427	73	2528	FALSE	314596.	7970885.	314504.	7970919.
##	428	73	2575	TRUE	314382.	7975973.	315544.	7975805.
##	429	73	2576	FALSE	315544.	7975805.	315559.	7975847.
##	430	73	2576	FALSE	315544.	7975805.	315559.	7975801.
##	431	73	2576	FALSE	315544.	7975805.	315555.	7975811.
##	432	73	2576	FALSE	315544.	7975805.	315574.	7975611.
##	433	73	2576	FALSE	315544.	7975805.	315574.	7975805.
##	434	73	2576	FALSE	315544.	7975805.	315562.	7975762.
##	435	73	2576	FALSE	315544.	7975805.	315549.	7975803.
##	436	73	2577	FALSE	315385.	7975673.	315522.	7975624.
##	437	73	2578	FALSE	314722.	7976175.	314993.	7976315.
##	438	73	2585	FALSE	316381.	7978566.	316391.	7978613.
##	439	73	2585	FALSE	316381.	7978566.	316472.	7978610.
##	440	73	2585	FALSE	316381.	7978566.	316555.	7978639.
##	441	73	2586	FALSE	316785.	7978528.	316810.	7978580.
##	442	73	2586	FALSE	316785.	7978528.	316750.	7978577.
##	443	73	2671	FALSE	320080.	7977009.	319336.	7975614.
##	444	74	2742	TRUE	319881.	7975461.	319536.	7975274.
##	445	74	2742	FALSE	319881.	7975461.	319638.	7975097.
##	446	74	2742	FALSE	319881.	7975461.	319628.	7975547.
##	447	74	2743	TRUE	319536.	7975274.	319451.	7975126.
##	448	74	2743	FALSE	319536.	7975274.	319529.	7975277.
##	449	74	2743	FALSE	319536.	7975274.	319449.	7975282.
##	450	74	2743	FALSE	319536.	7975274.	319492.	7975318.
##	451	74	2743	FALSE	319536.	7975274.	319560.	7975310.
##	452	74	2743	FALSE	319536.	7975274.	319554.	7975185.
##	453	74	2743	FALSE	319536.	7975274.	319538.	7975233.
##	454	74	2743	FALSE	319536.	7975274.	319523.	7975236.
##	455	74	2743	FALSE	319536.	7975274.	319524.	7975257.
##	456	74	2743	FALSE	319536.	7975274.	319429.	7975187.
##	457	74	2744	FALSE	319451.	7975126.	319387.	7975036.
##	458	74	2744	FALSE	319451.	7975126.	319524.	7975099.
##	459	74	2744	FALSE	319451.	7975126.	319232.	7975332.
##	460	74	2744	FALSE	319451.	7975126.	319495.	7975067.
##	461	74	2744	FALSE	319451.	7975126.	319478.	7975176.
##	462	74	2744	FALSE	319451.	7975126.	319419.	7975167.
##	463	74	2744	FALSE	319451.	7975126.	319435.	7975157.
##	464	74	2744	FALSE	319451.	7975126.	319270.	7975105.
##	465	74	2744	FALSE	319451.	7975126.	319467.	7975116.
##	466	74	2778	TRUE	319450.	7974646.	319320.	7974682.
##	467	74	2778	FALSE	319450.	7974646.	319343.	7974685.
##	468	74	2779	TRUE	319320.	7974682.	318957.	7974861.
##	469	74	2779	FALSE	319320.	7974682.	319392.	7974651.
##	470	74	2779	FALSE	319320.	7974682.	319330.	7974687.
##	471	74	2779	FALSE	319320.	7974682.	319344.	7974677.
##	472	74	2779	FALSE	319320.	7974682.	319472.	7974947.
##	473	74	2779	FALSE	319320.	7974682.	319320.	7974657.
##	474	74	2779	FALSE	319320.	7974682.	319277.	7974702.
##	475	74	2779	FALSE	319320.	7974682.	319257.	7974703.
##	476	74	2780	TRUE	318957.	7974861.	318175.	7974944.
##	477	74	2780	FALSE	318957.	7974861.	319290.	7975249.
##	478	74	2780	FALSE	318957.	7974861.	318957.	7974857.

##	479	74	2780	FALSE	318957.	7974861.	318907.	7974975.
##	480	74	2780	FALSE	318957.	7974861.	318919.	7974827.
##	481	74	2780	FALSE	318957.	7974861.	318957.	7974861.
##	482	74	2780	FALSE	318957.	7974861.	318928.	7974820.
##	483	74	2780	FALSE	318957.	7974861.	318923.	7974887.
##	484	74	2780	FALSE	318957.	7974861.	318965.	7974938.
##	485	74	2780	FALSE	318957.	7974861.	319160.	7975119.
##	486	74	2781	TRUE	318175.	7974944.	317452.	7975154.
##	487	74	2781	FALSE	318175.	7974944.	318213.	7974893.
##	488	74	2781	FALSE	318175.	7974944.	318132.	7974937.
##	489	74	2781	FALSE	318175.	7974944.	318415.	7975217.
##	490	74	2781	FALSE	318175.	7974944.	318171.	7974945.
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##	493	74	2781	FALSE	318175.	7974944.	318259.	7975002.
##	494	74	2781	FALSE	318175.	7974944.	318042.	7975178.
##	495	74	2782	TRUE	317452.	7975154.	316887.	7976064.
##	496	74	2782	FALSE	317452.	7975154.	317176.	7975715.
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##	499	74	2782	FALSE	317452.	7975154.	317453.	7975156.
##	500	74	2782	FALSE	317452.	7975154.	317326.	7975216.
##	501	74	2782	FALSE	317452.	7975154.	317446.	7975155.
##	502	74	2782	FALSE	317452.	7975154.	317454.	7975155.
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##	504	74	2783	FALSE	316887.	7976064.	316901.	7976081.
##	505	74	2783	FALSE	316887.	7976064.	316891.	7976058.
##	506	74	2783	FALSE	316887.	7976064.	316876.	7976058.
##	507	74	2783	FALSE	316887.	7976064.	316803.	7975885.
##	508	74	2783	FALSE	316887.	7976064.	317411.	7976311.
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##	511	74	2783	FALSE	316887.	7976064.	317083.	7975992.
##	512	74	2784	FALSE	317100.	7977297.	317110.	7977251.
##	513	74	2784	FALSE	317100.	7977297.	317190.	7977242.
##	514	74	2784	FALSE	317100.	7977297.	317128.	7977268.
##	515	74	2787	FALSE	317057.	7977450.	316688.	7977173.
##	516	74	2788	FALSE	317081.	7977459.	316520.	7977184.
##	517	74	2791	FALSE	317034.	7977440.	317081.	7977201.
##	518	74	2793	FALSE	317016.	7977443.	316814.	7976666.
##	519	74	2794	FALSE	317024.	7977458.	316915.	7976980.
##	520	74	2795	FALSE	317038.	7977446.	317266.	7977176.
##	521	74	2795	FALSE	317038.	7977446.	316948.	7977102.
##	522	74	2796	FALSE	317022.	7977447.	317084.	7977126.
##	523	74	2797	FALSE	317022.	7977463.	316684.	7977027.
##	524	74	2798	FALSE	317020.	7977444.	317345.	7977184.
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##	526	74	2807	FALSE	316274.	7978054.	315967.	7978703.
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##	530	74	2812	FALSE	315552.	7978280.	315886.	7978728.
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##	533	74	2826	TRUE	315439.	7978335.	315141.	7979205.
##	534	74	2827	FALSE	315141.	7979205.	315162.	7979214.
##	535	74	2827	FALSE	315141.	7979205.	315254.	7979183.
##	536	74	2831	TRUE	314380.	7977436.	315419.	7977387.
##	537	74	2832	TRUE	315419.	7977387.	316774.	7977225.
##	538	74	2832	FALSE	315419.	7977387.	315376.	7977395.
##	539	74	2832	FALSE	315419.	7977387.	315443.	7977409.
##	540	74	2832	FALSE	315419.	7977387.	315479.	7977386.
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##	542	74	2832	FALSE	315419.	7977387.	315420.	7977487.
##	543	74	2832	FALSE	315419.	7977387.	315423.	7977403.
##	544	74	2832	FALSE	315419.	7977387.	315421.	7977392.
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##	547	74	2833	FALSE	316774.	7977225.	316780.	7977219.
##	548	74	2833	FALSE	316774.	7977225.	316774.	7977227.
##	549	74	2833	FALSE	316774.	7977225.	316773.	7977227.
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##	554	75	2838	FALSE	316967.	7977472.	317110.	7977243.
##	555	75	2841	FALSE	316998.	7977508.	316581.	7977351.
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##	557	79	2991	FALSE	319846.	7976407.	318748.	7976247.
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##	559	80	3153	TRUE	316889.	7979115.	316882.	7979115.
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##	562	80	3153	FALSE	316889.	7979115.	316661.	7979034.
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##	564	80	3153	FALSE	316889.	7979115.	316836.	7979079.
##	565	80	3154	FALSE	316882.	7979115.	316877.	7979111.
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##	571	80	3154	FALSE	316882.	7979115.	316914.	7979123.
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##	576	86	3627	FALSE	319873.	7975729.	319769.	7975499.
##	577	86	3627	FALSE	319873.	7975729.	319732.	7975544.
##	578	86	3627	FALSE	319873.	7975729.	319749.	7975689.
##	579	87	3642	FALSE	319255.	7976857.	318809.	7975857.
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##	582	90	3738	FALSE	316674.	7979141.	316674.	7979141.
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##	584	90	3738	FALSE	316674.	7979141.	316681.	7979147.
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##	587	90	3738	FALSE	316674.	7979141.	316850.	7979095.
##	588	90	3739	FALSE	316062.	7979106.	315765.	7978809.
##	589	90	3739	FALSE	316062.	7979106.	316070.	7979083.
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##	592	90	3739	FALSE	316062.	7979106.	316040.	7979098.
##	593	90	3739	FALSE	316062.	7979106.	316066.	7979106.
##	594	90	3739	FALSE	316062.	7979106.	316059.	7979108.
##	595	90	3740	FALSE	314845.	7979250.	315127.	7978933.
##	596	90	3758	FALSE	315005.	7977841.	315363.	7977585.
##	597	90	3775	FALSE	315619.	7978105.	316381.	7977667.
##	598	90	3780	FALSE	315873.	7977883.	315623.	7977471.
##	599	90	3782	FALSE	316691.	7977463.	316684.	7977295.
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##	601	90	3785	TRUE	317059.	7977298.	317441.	7977173.
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##	603	90	3785	FALSE	317059.	7977298.	317080.	7977261.
##	604	90	3786	FALSE	317441.	7977173.	317442.	7977173.
##	605	90	3786	FALSE	317441.	7977173.	317441.	7977188.
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##	607	90	3786	FALSE	317441.	7977173.	317420.	7976988.
##	608	90	3786	FALSE	317441.	7977173.	317428.	7977209.
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##	610	90	3786	FALSE	317441.	7977173.	317395.	7977214.
##	611	90	3787	TRUE	318418.	7976714.	319422.	7975843.
##	612	90	3788	FALSE	319422.	7975843.	319418.	7975838.
##	613	90	3788	FALSE	319422.	7975843.	319640.	7975681.
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##	615	90	3788	FALSE	319422.	7975843.	319422.	7975836.
##	616	90	3788	FALSE	319422.	7975843.	318936.	7975612.
##	617	90	3788	FALSE	319422.	7975843.	319357.	7975839.
##	618	90	3788	FALSE	319422.	7975843.	319428.	7975844.
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##	620	90	3791	FALSE	319468.	7974661.	319420.	7974669.
##	621	90	3791	FALSE	319468.	7974661.	319399.	7974802.
##	622	90	3791	FALSE	319468.	7974661.	319170.	7974728.
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##	624	90	3793	FALSE	319662.	7974547.	319301.	7974642.
##	625	90	3798	FALSE	319800.	7974443.	319279.	7974615.
##	626	90	3800	FALSE	319797.	7974441.	319423.	7975125.
##	627	90	3804	FALSE	319586.	7974900.	319049.	7975117.
##	628	90	3804	FALSE	319586.	7974900.	319264.	7975004.
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##		t1_		t2_		dt_		sl_
##	*	<dtm>		<dtm>		<drtn>		<dbl>
##	1	2019-05-05 16:30:35		2019-05-05 17:00:26		29.85000 mins		0.511
##	2	2019-05-05 16:30:35		2019-05-05 17:00:26		29.85000 mins		196.
##	3	2019-05-05 18:00:46		2019-05-05 18:30:46		30.00000 mins		652.
##	4	2019-05-05 21:00:48		2019-05-05 21:30:46		29.96667 mins		370.
##	5	2019-05-05 21:00:48		2019-05-05 21:30:46		29.96667 mins		410.
##	6	2019-05-05 22:02:06		2019-05-05 22:30:32		28.43333 mins		952.
##	7	2019-05-05 22:30:32		2019-05-05 23:00:09		29.61667 mins		775.
##	8	2019-05-05 22:30:32		2019-05-05 23:00:09		29.61667 mins		78.8
##	9	2019-05-05 22:30:32		2019-05-05 23:00:09		29.61667 mins		38.0
##	10	2019-05-05 22:30:32		2019-05-05 23:00:09		29.61667 mins		5.36
##	11	2019-05-05 22:30:32		2019-05-05 23:00:09		29.61667 mins		1.90
##	12	2019-05-05 22:30:32		2019-05-05 23:00:09		29.61667 mins		3.03
##	13	2019-05-05 22:30:32		2019-05-05 23:00:09		29.61667 mins		9.24
##	14	2019-05-05 22:30:32		2019-05-05 23:00:09		29.61667 mins		0.0800
##	15	2019-05-05 22:30:32		2019-05-05 23:00:09		29.61667 mins		12.1
##	16	2019-05-05 22:30:32		2019-05-05 23:00:09		29.61667 mins		257.

##	17	2019-05-05	23:00:09	2019-05-05	23:30:32	30.38333	mins	833.
##	18	2019-05-05	23:00:09	2019-05-05	23:30:32	30.38333	mins	235.
##	19	2019-05-05	23:00:09	2019-05-05	23:30:32	30.38333	mins	80.3
##	20	2019-05-05	23:00:09	2019-05-05	23:30:32	30.38333	mins	74.9
##	21	2019-05-05	23:00:09	2019-05-05	23:30:32	30.38333	mins	304.
##	22	2019-05-05	23:00:09	2019-05-05	23:30:32	30.38333	mins	617.
##	23	2019-05-05	23:00:09	2019-05-05	23:30:32	30.38333	mins	139.
##	24	2019-05-05	23:00:09	2019-05-05	23:30:32	30.38333	mins	41.7
##	25	2019-05-05	23:00:09	2019-05-05	23:30:32	30.38333	mins	13.6
##	26	2019-05-05	23:00:09	2019-05-05	23:30:32	30.38333	mins	512.
##	27	2019-05-05	23:30:32	2019-05-06	00:00:08	29.60000	mins	171.
##	28	2019-05-05	23:30:32	2019-05-06	00:00:08	29.60000	mins	1.11
##	29	2019-05-05	23:30:32	2019-05-06	00:00:08	29.60000	mins	497.
##	30	2019-05-05	23:30:32	2019-05-06	00:00:08	29.60000	mins	45.5
##	31	2019-05-05	23:30:32	2019-05-06	00:00:08	29.60000	mins	9.85
##	32	2019-05-05	23:30:32	2019-05-06	00:00:08	29.60000	mins	15.4
##	33	2019-05-06	00:00:08	2019-05-06	00:30:13	30.08333	mins	1300.
##	34	2019-05-06	00:00:08	2019-05-06	00:30:13	30.08333	mins	222.
##	35	2019-05-06	00:00:08	2019-05-06	00:30:13	30.08333	mins	45.3
##	36	2019-05-06	00:00:08	2019-05-06	00:30:13	30.08333	mins	107.
##	37	2019-05-06	00:00:08	2019-05-06	00:30:13	30.08333	mins	0.171
##	38	2019-05-06	00:00:08	2019-05-06	00:30:13	30.08333	mins	93.1
##	39	2019-05-06	00:00:08	2019-05-06	00:30:13	30.08333	mins	6.71
##	40	2019-05-06	00:00:08	2019-05-06	00:30:13	30.08333	mins	3.82
##	41	2019-05-06	00:00:08	2019-05-06	00:30:13	30.08333	mins	29.0
##	42	2019-05-06	00:30:13	2019-05-06	01:00:48	30.58333	mins	22.3
##	43	2019-05-06	00:30:13	2019-05-06	01:00:48	30.58333	mins	47.4
##	44	2019-05-06	00:30:13	2019-05-06	01:00:48	30.58333	mins	658.
##	45	2019-05-06	00:30:13	2019-05-06	01:00:48	30.58333	mins	41.0
##	46	2019-05-06	00:30:13	2019-05-06	01:00:48	30.58333	mins	15.3
##	47	2019-05-06	00:30:13	2019-05-06	01:00:48	30.58333	mins	30.8
##	48	2019-05-06	00:30:13	2019-05-06	01:00:48	30.58333	mins	81.7
##	49	2019-05-06	03:30:46	2019-05-06	04:00:48	30.03333	mins	531.
##	50	2019-05-06	10:30:38	2019-05-06	11:00:47	30.15000	mins	509.
##	51	2019-05-07	01:30:38	2019-05-07	02:00:25	29.78333	mins	487.
##	52	2019-05-07	10:30:47	2019-05-07	11:00:47	30.00000	mins	535.
##	53	2019-05-08	22:30:46	2019-05-08	23:00:47	30.01667	mins	1183.
##	54	2019-05-08	23:30:46	2019-05-09	00:00:35	29.81667	mins	172.
##	55	2019-05-08	23:30:46	2019-05-09	00:00:35	29.81667	mins	124.
##	56	2019-05-08	23:30:46	2019-05-09	00:00:35	29.81667	mins	124.
##	57	2019-05-08	23:30:46	2019-05-09	00:00:35	29.81667	mins	139.
##	58	2019-05-08	23:30:46	2019-05-09	00:00:35	29.81667	mins	844.
##	59	2019-05-08	23:30:46	2019-05-09	00:00:35	29.81667	mins	146.
##	60	2019-05-09	00:00:35	2019-05-09	00:30:05	29.50000	mins	96.8
##	61	2019-05-09	00:00:35	2019-05-09	00:30:05	29.50000	mins	21.9
##	62	2019-05-09	00:00:35	2019-05-09	00:30:05	29.50000	mins	47.5
##	63	2019-05-09	00:00:35	2019-05-09	00:30:05	29.50000	mins	139.
##	64	2019-05-09	00:00:35	2019-05-09	00:30:05	29.50000	mins	7.86
##	65	2019-05-09	00:00:35	2019-05-09	00:30:05	29.50000	mins	5.26
##	66	2019-05-09	00:00:35	2019-05-09	00:30:05	29.50000	mins	40.6
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##	68	2019-05-09	00:30:05	2019-05-09	01:00:08	30.05000	mins	312.
##	69	2019-05-09	00:30:05	2019-05-09	01:00:08	30.05000	mins	75.9
##	70	2019-05-09	00:30:05	2019-05-09	01:00:08	30.05000	mins	288.

##	71	2019-05-09	00:30:05	2019-05-09	01:00:08	30.05000	mins	42.0
##	72	2019-05-09	00:30:05	2019-05-09	01:00:08	30.05000	mins	107.
##	73	2019-05-09	00:30:05	2019-05-09	01:00:08	30.05000	mins	113.
##	74	2019-05-09	00:30:05	2019-05-09	01:00:08	30.05000	mins	4.52
##	75	2019-05-09	01:00:08	2019-05-09	01:30:18	30.16667	mins	5.80
##	76	2019-05-09	01:00:08	2019-05-09	01:30:18	30.16667	mins	21.0
##	77	2019-05-09	01:00:08	2019-05-09	01:30:18	30.16667	mins	645.
##	78	2019-05-09	01:00:08	2019-05-09	01:30:18	30.16667	mins	44.8
##	79	2019-05-09	01:00:08	2019-05-09	01:30:18	30.16667	mins	5.96
##	80	2019-05-09	01:30:18	2019-05-09	02:00:47	30.48333	mins	132.
##	81	2019-05-09	02:00:47	2019-05-09	02:30:46	29.98333	mins	250.
##	82	2019-05-09	02:30:46	2019-05-09	03:01:25	30.65000	mins	104.
##	83	2019-05-09	02:30:46	2019-05-09	03:01:25	30.65000	mins	175.
##	84	2019-05-09	02:30:46	2019-05-09	03:01:25	30.65000	mins	403.
##	85	2019-05-09	03:01:25	2019-05-09	03:30:33	29.13333	mins	321.
##	86	2019-05-09	05:30:48	2019-05-09	06:00:49	30.01667	mins	1078.
##	87	2019-05-09	08:00:23	2019-05-09	08:30:29	30.10000	mins	791.
##	88	2019-05-09	11:00:46	2019-05-09	11:30:46	30.00000	mins	393.
##	89	2019-05-09	12:01:30	2019-05-09	12:30:46	29.26667	mins	369.
##	90	2019-05-09	15:00:55	2019-05-09	15:30:45	29.83333	mins	479.
##	91	2019-05-09	15:30:45	2019-05-09	16:00:46	30.01667	mins	1121.
##	92	2019-05-09	23:00:36	2019-05-09	23:30:11	29.58333	mins	491.
##	93	2019-05-09	23:00:36	2019-05-09	23:30:11	29.58333	mins	563.
##	94	2019-05-09	23:00:36	2019-05-09	23:30:11	29.58333	mins	332.
##	95	2019-05-09	23:30:11	2019-05-10	00:00:21	30.16667	mins	128.
##	96	2019-05-09	23:30:11	2019-05-10	00:00:21	30.16667	mins	29.0
##	97	2019-05-09	23:30:11	2019-05-10	00:00:21	30.16667	mins	120.
##	98	2019-05-09	23:30:11	2019-05-10	00:00:21	30.16667	mins	160.
##	99	2019-05-10	00:00:21	2019-05-10	00:30:46	30.41667	mins	75.8
##	100	2019-05-10	00:00:21	2019-05-10	00:30:46	30.41667	mins	54.6
##	101	2019-05-10	00:00:21	2019-05-10	00:30:46	30.41667	mins	67.9
##	102	2019-05-10	00:00:21	2019-05-10	00:30:46	30.41667	mins	89.9
##	103	2019-05-10	00:30:46	2019-05-10	01:00:47	30.01667	mins	21.5
##	104	2019-05-10	00:30:46	2019-05-10	01:00:47	30.01667	mins	21.1
##	105	2019-05-10	00:30:46	2019-05-10	01:00:47	30.01667	mins	16.8
##	106	2019-05-10	00:30:46	2019-05-10	01:00:47	30.01667	mins	4.82
##	107	2019-05-10	01:00:47	2019-05-10	01:30:34	29.78333	mins	76.9
##	108	2019-05-10	01:00:47	2019-05-10	01:30:34	29.78333	mins	124.
##	109	2019-05-10	01:30:34	2019-05-10	02:00:09	29.58333	mins	101.
##	110	2019-05-10	01:30:34	2019-05-10	02:00:09	29.58333	mins	144.
##	111	2019-05-10	01:30:34	2019-05-10	02:00:09	29.58333	mins	67.5
##	112	2019-05-10	01:30:34	2019-05-10	02:00:09	29.58333	mins	68.9
##	113	2019-05-10	02:00:09	2019-05-10	02:30:10	30.01667	mins	0.723
##	114	2019-05-10	02:00:09	2019-05-10	02:30:10	30.01667	mins	60.5
##	115	2019-05-10	02:00:09	2019-05-10	02:30:10	30.01667	mins	121.
##	116	2019-05-10	02:00:09	2019-05-10	02:30:10	30.01667	mins	0.00879
##	117	2019-05-10	02:00:09	2019-05-10	02:30:10	30.01667	mins	28.2
##	118	2019-05-10	02:00:09	2019-05-10	02:30:10	30.01667	mins	2.95
##	119	2019-05-10	02:00:09	2019-05-10	02:30:10	30.01667	mins	0.647
##	120	2019-05-10	02:00:09	2019-05-10	02:30:10	30.01667	mins	5.20
##	121	2019-05-10	02:30:10	2019-05-10	03:00:47	30.61667	mins	315.
##	122	2019-05-10	03:00:47	2019-05-10	03:30:25	29.63333	mins	255.
##	123	2019-05-10	04:02:01	2019-05-10	04:30:38	28.61667	mins	386.
##	124	2019-05-10	04:30:38	2019-05-10	05:00:11	29.55000	mins	427.

##	125	2019-05-10	04:30:38	2019-05-10	05:00:11	29.55000	mins	411.
##	126	2019-05-10	07:00:47	2019-05-10	07:30:46	29.98333	mins	466.
##	127	2019-05-10	07:00:47	2019-05-10	07:30:46	29.98333	mins	392.
##	128	2019-05-15	14:30:46	2019-05-15	15:00:47	30.01667	mins	947.
##	129	2019-05-20	10:30:47	2019-05-20	11:02:34	31.78333	mins	1062.
##	130	2019-05-25	14:01:55	2019-05-25	14:30:47	28.86667	mins	369.
##	131	2019-05-25	14:01:55	2019-05-25	14:30:47	28.86667	mins	245.
##	132	2019-05-25	14:30:47	2019-05-25	15:00:18	29.51667	mins	9.58
##	133	2019-05-25	14:30:47	2019-05-25	15:00:18	29.51667	mins	33.0
##	134	2019-05-25	14:30:47	2019-05-25	15:00:18	29.51667	mins	89.9
##	135	2019-05-25	14:30:47	2019-05-25	15:00:18	29.51667	mins	74.1
##	136	2019-05-25	14:30:47	2019-05-25	15:00:18	29.51667	mins	60.3
##	137	2019-05-25	14:30:47	2019-05-25	15:00:18	29.51667	mins	155.
##	138	2019-05-25	14:30:47	2019-05-25	15:00:18	29.51667	mins	10.8
##	139	2019-05-25	14:30:47	2019-05-25	15:00:18	29.51667	mins	48.2
##	140	2019-05-25	15:00:18	2019-05-25	15:30:47	30.48333	mins	97.6
##	141	2019-05-25	15:00:18	2019-05-25	15:30:47	30.48333	mins	71.2
##	142	2019-05-25	15:00:18	2019-05-25	15:30:47	30.48333	mins	9.05
##	143	2019-05-25	15:00:18	2019-05-25	15:30:47	30.48333	mins	120.
##	144	2019-05-25	15:00:18	2019-05-25	15:30:47	30.48333	mins	72.0
##	145	2019-05-25	15:00:18	2019-05-25	15:30:47	30.48333	mins	74.5
##	146	2019-05-25	15:00:18	2019-05-25	15:30:47	30.48333	mins	0.529
##	147	2019-05-25	15:30:47	2019-05-25	16:00:46	29.98333	mins	3.70
##	148	2019-05-25	15:30:47	2019-05-25	16:00:46	29.98333	mins	88.4
##	149	2019-05-25	15:30:47	2019-05-25	16:00:46	29.98333	mins	2.48
##	150	2019-05-25	15:30:47	2019-05-25	16:00:46	29.98333	mins	161.
##	151	2019-05-25	15:30:47	2019-05-25	16:00:46	29.98333	mins	82.3
##	152	2019-05-25	15:30:47	2019-05-25	16:00:46	29.98333	mins	78.8
##	153	2019-05-25	15:30:47	2019-05-25	16:00:46	29.98333	mins	12.7
##	154	2019-05-25	16:00:46	2019-05-25	16:30:05	29.31667	mins	6.88
##	155	2019-05-25	16:00:46	2019-05-25	16:30:05	29.31667	mins	160.
##	156	2019-05-25	16:00:46	2019-05-25	16:30:05	29.31667	mins	60.9
##	157	2019-05-25	16:00:46	2019-05-25	16:30:05	29.31667	mins	43.6
##	158	2019-05-25	16:00:46	2019-05-25	16:30:05	29.31667	mins	67.8
##	159	2019-05-25	16:00:46	2019-05-25	16:30:05	29.31667	mins	18.7
##	160	2019-05-25	16:00:46	2019-05-25	16:30:05	29.31667	mins	1.98
##	161	2019-05-25	16:00:46	2019-05-25	16:30:05	29.31667	mins	52.2
##	162	2019-05-25	16:00:46	2019-05-25	16:30:05	29.31667	mins	266.
##	163	2019-05-25	16:00:46	2019-05-25	16:30:05	29.31667	mins	180.
##	164	2019-05-25	16:30:05	2019-05-25	17:00:16	30.18333	mins	270.
##	165	2019-05-25	16:30:05	2019-05-25	17:00:16	30.18333	mins	26.0
##	166	2019-05-25	16:30:05	2019-05-25	17:00:16	30.18333	mins	38.7
##	167	2019-05-25	16:30:05	2019-05-25	17:00:16	30.18333	mins	20.8
##	168	2019-05-25	16:30:05	2019-05-25	17:00:16	30.18333	mins	11.8
##	169	2019-05-25	16:30:05	2019-05-25	17:00:16	30.18333	mins	73.4
##	170	2019-05-25	16:30:05	2019-05-25	17:00:16	30.18333	mins	106.
##	171	2019-05-25	17:00:16	2019-05-25	17:30:32	30.26667	mins	210.
##	172	2019-05-25	17:00:16	2019-05-25	17:30:32	30.26667	mins	7.83
##	173	2019-05-25	17:00:16	2019-05-25	17:30:32	30.26667	mins	0.300
##	174	2019-05-25	17:00:16	2019-05-25	17:30:32	30.26667	mins	116.
##	175	2019-05-25	17:00:16	2019-05-25	17:30:32	30.26667	mins	20.4
##	176	2019-05-25	17:00:16	2019-05-25	17:30:32	30.26667	mins	4.88
##	177	2019-05-25	17:00:16	2019-05-25	17:30:32	30.26667	mins	183.
##	178	2019-05-25	17:00:16	2019-05-25	17:30:32	30.26667	mins	32.5

##	179	2019-05-25	17:00:16	2019-05-25	17:30:32	30.26667	mins	143.
##	180	2019-05-25	17:00:16	2019-05-25	17:30:32	30.26667	mins	11.8
##	181	2019-05-25	17:30:32	2019-05-25	18:00:09	29.61667	mins	151.
##	182	2019-05-25	17:30:32	2019-05-25	18:00:09	29.61667	mins	5.41
##	183	2019-05-25	17:30:32	2019-05-25	18:00:09	29.61667	mins	4.28
##	184	2019-05-25	17:30:32	2019-05-25	18:00:09	29.61667	mins	0.950
##	185	2019-05-25	17:30:32	2019-05-25	18:00:09	29.61667	mins	19.2
##	186	2019-05-25	17:30:32	2019-05-25	18:00:09	29.61667	mins	538.
##	187	2019-05-25	17:30:32	2019-05-25	18:00:09	29.61667	mins	10.9
##	188	2019-05-25	17:30:32	2019-05-25	18:00:09	29.61667	mins	14.9
##	189	2019-05-25	17:30:32	2019-05-25	18:00:09	29.61667	mins	390.
##	190	2019-05-25	17:30:32	2019-05-25	18:00:09	29.61667	mins	40.6
##	191	2019-05-25	18:00:09	2019-05-25	18:30:47	30.63333	mins	54.1
##	192	2019-05-25	18:00:09	2019-05-25	18:30:47	30.63333	mins	114.
##	193	2019-05-25	18:00:09	2019-05-25	18:30:47	30.63333	mins	11.1
##	194	2019-05-25	18:00:09	2019-05-25	18:30:47	30.63333	mins	3.50
##	195	2019-05-25	18:00:09	2019-05-25	18:30:47	30.63333	mins	81.6
##	196	2019-05-25	18:00:09	2019-05-25	18:30:47	30.63333	mins	158.
##	197	2019-05-25	18:00:09	2019-05-25	18:30:47	30.63333	mins	106.
##	198	2019-05-25	18:00:09	2019-05-25	18:30:47	30.63333	mins	74.3
##	199	2019-05-25	18:00:09	2019-05-25	18:30:47	30.63333	mins	1.15
##	200	2019-05-25	18:30:47	2019-05-25	19:00:46	29.98333	mins	17.2
##	201	2019-05-25	18:30:47	2019-05-25	19:00:46	29.98333	mins	27.5
##	202	2019-05-25	18:30:47	2019-05-25	19:00:46	29.98333	mins	18.9
##	203	2019-05-25	18:30:47	2019-05-25	19:00:46	29.98333	mins	29.6
##	204	2019-05-25	18:30:47	2019-05-25	19:00:46	29.98333	mins	23.5
##	205	2019-05-25	18:30:47	2019-05-25	19:00:46	29.98333	mins	17.7
##	206	2019-05-25	18:30:47	2019-05-25	19:00:46	29.98333	mins	27.6
##	207	2019-05-25	18:30:47	2019-05-25	19:00:46	29.98333	mins	199.
##	208	2019-05-25	18:30:47	2019-05-25	19:00:46	29.98333	mins	117.
##	209	2019-05-25	19:00:46	2019-05-25	19:30:47	30.01667	mins	48.0
##	210	2019-05-25	19:00:46	2019-05-25	19:30:47	30.01667	mins	321.
##	211	2019-05-25	19:00:46	2019-05-25	19:30:47	30.01667	mins	2.84
##	212	2019-05-25	19:00:46	2019-05-25	19:30:47	30.01667	mins	99.9
##	213	2019-05-25	19:00:46	2019-05-25	19:30:47	30.01667	mins	68.5
##	214	2019-05-25	19:00:46	2019-05-25	19:30:47	30.01667	mins	473.
##	215	2019-05-25	19:00:46	2019-05-25	19:30:47	30.01667	mins	21.7
##	216	2019-05-25	19:00:46	2019-05-25	19:30:47	30.01667	mins	156.
##	217	2019-05-25	19:30:47	2019-05-25	20:01:01	30.23333	mins	52.8
##	218	2019-05-25	19:30:47	2019-05-25	20:01:01	30.23333	mins	28.8
##	219	2019-05-25	19:30:47	2019-05-25	20:01:01	30.23333	mins	51.6
##	220	2019-05-25	19:30:47	2019-05-25	20:01:01	30.23333	mins	0.647
##	221	2019-05-25	19:30:47	2019-05-25	20:01:01	30.23333	mins	37.2
##	222	2019-05-25	19:30:47	2019-05-25	20:01:01	30.23333	mins	9.95
##	223	2019-05-25	19:30:47	2019-05-25	20:01:01	30.23333	mins	116.
##	224	2019-05-25	19:30:47	2019-05-25	20:01:01	30.23333	mins	62.5
##	225	2019-05-25	19:30:47	2019-05-25	20:01:01	30.23333	mins	6.16
##	226	2019-05-25	20:01:01	2019-05-25	20:30:16	29.25000	mins	142.
##	227	2019-05-25	20:01:01	2019-05-25	20:30:16	29.25000	mins	41.5
##	228	2019-05-25	20:01:01	2019-05-25	20:30:16	29.25000	mins	5.83
##	229	2019-05-25	20:01:01	2019-05-25	20:30:16	29.25000	mins	4.69
##	230	2019-05-25	20:01:01	2019-05-25	20:30:16	29.25000	mins	31.3
##	231	2019-05-25	20:01:01	2019-05-25	20:30:16	29.25000	mins	407.
##	232	2019-05-25	20:01:01	2019-05-25	20:30:16	29.25000	mins	35.7

##	233	2019-05-25	20:01:01	2019-05-25	20:30:16	29.25000	mins	265.
##	234	2019-05-25	20:30:16	2019-05-25	21:00:10	29.90000	mins	227.
##	235	2019-05-25	20:30:16	2019-05-25	21:00:10	29.90000	mins	26.3
##	236	2019-05-25	20:30:16	2019-05-25	21:00:10	29.90000	mins	103.
##	237	2019-05-25	20:30:16	2019-05-25	21:00:10	29.90000	mins	14.5
##	238	2019-05-25	20:30:16	2019-05-25	21:00:10	29.90000	mins	4.06
##	239	2019-05-25	20:30:16	2019-05-25	21:00:10	29.90000	mins	2.34
##	240	2019-05-25	20:30:16	2019-05-25	21:00:10	29.90000	mins	3.85
##	241	2019-05-25	20:30:16	2019-05-25	21:00:10	29.90000	mins	190.
##	242	2019-05-25	20:30:16	2019-05-25	21:00:10	29.90000	mins	75.6
##	243	2019-05-25	20:30:16	2019-05-25	21:00:10	29.90000	mins	16.8
##	244	2019-05-25	21:00:10	2019-05-25	21:30:37	30.45000	mins	725.
##	245	2019-05-25	21:00:10	2019-05-25	21:30:37	30.45000	mins	122.
##	246	2019-05-25	21:00:10	2019-05-25	21:30:37	30.45000	mins	22.1
##	247	2019-05-25	21:00:10	2019-05-25	21:30:37	30.45000	mins	1.76
##	248	2019-05-25	21:00:10	2019-05-25	21:30:37	30.45000	mins	59.9
##	249	2019-05-25	21:00:10	2019-05-25	21:30:37	30.45000	mins	25.6
##	250	2019-05-25	21:00:10	2019-05-25	21:30:37	30.45000	mins	394.
##	251	2019-05-25	21:00:10	2019-05-25	21:30:37	30.45000	mins	5.40
##	252	2019-05-25	21:00:10	2019-05-25	21:30:37	30.45000	mins	17.0
##	253	2019-05-25	21:30:37	2019-05-25	22:00:46	30.15000	mins	522.
##	254	2019-05-25	21:30:37	2019-05-25	22:00:46	30.15000	mins	54.9
##	255	2019-05-25	21:30:37	2019-05-25	22:00:46	30.15000	mins	33.1
##	256	2019-05-25	21:30:37	2019-05-25	22:00:46	30.15000	mins	97.8
##	257	2019-05-25	21:30:37	2019-05-25	22:00:46	30.15000	mins	11.7
##	258	2019-05-25	21:30:37	2019-05-25	22:00:46	30.15000	mins	68.3
##	259	2019-05-25	21:30:37	2019-05-25	22:00:46	30.15000	mins	13.1
##	260	2019-05-25	21:30:37	2019-05-25	22:00:46	30.15000	mins	12.7
##	261	2019-05-25	21:30:37	2019-05-25	22:00:46	30.15000	mins	32.3
##	262	2019-05-25	22:00:46	2019-05-25	22:30:35	29.81667	mins	20.2
##	263	2019-05-25	22:00:46	2019-05-25	22:30:35	29.81667	mins	152.
##	264	2019-05-25	22:00:46	2019-05-25	22:30:35	29.81667	mins	267.
##	265	2019-05-25	22:00:46	2019-05-25	22:30:35	29.81667	mins	566.
##	266	2019-05-25	22:00:46	2019-05-25	22:30:35	29.81667	mins	40.3
##	267	2019-05-25	22:00:46	2019-05-25	22:30:35	29.81667	mins	225.
##	268	2019-05-25	22:00:46	2019-05-25	22:30:35	29.81667	mins	59.1
##	269	2019-05-26	00:30:38	2019-05-26	01:00:07	29.48333	mins	52.2
##	270	2019-05-26	11:00:47	2019-05-26	11:30:47	30.00000	mins	664.
##	271	2019-05-27	13:01:38	2019-05-27	13:30:47	29.15000	mins	582.
##	272	2019-05-27	14:30:32	2019-05-27	15:00:18	29.76667	mins	368.
##	273	2019-05-27	14:30:32	2019-05-27	15:00:18	29.76667	mins	364.
##	274	2019-05-27	16:00:23	2019-05-27	16:30:47	30.40000	mins	240.
##	275	2019-05-27	16:00:23	2019-05-27	16:30:47	30.40000	mins	300.
##	276	2019-05-31	08:02:49	2019-05-31	08:30:08	27.31667	mins	298.
##	277	2019-05-31	09:00:08	2019-05-31	09:30:20	30.20000	mins	97.7
##	278	2019-05-31	09:30:20	2019-05-31	10:00:38	30.30000	mins	332.
##	279	2019-05-31	09:30:20	2019-05-31	10:00:38	30.30000	mins	203.
##	280	2019-05-31	10:00:38	2019-05-31	10:30:46	30.13333	mins	468.
##	281	2019-05-31	11:00:46	2019-05-31	11:30:46	30.00000	mins	1228.
##	282	2019-05-31	12:31:19	2019-05-31	13:00:47	29.46667	mins	661.
##	283	2019-05-31	20:00:47	2019-05-31	20:30:48	30.01667	mins	469.
##	284	2019-05-31	20:30:48	2019-05-31	21:00:47	29.98333	mins	44.1
##	285	2019-05-31	20:30:48	2019-05-31	21:00:47	29.98333	mins	250.
##	286	2019-05-31	20:30:48	2019-05-31	21:00:47	29.98333	mins	31.6

##	287	2019-05-31	21:31:25	2019-05-31	22:01:19	29.90000	mins	354.
##	288	2019-06-01	00:00:11	2019-06-01	00:30:22	30.18333	mins	677.
##	289	2019-06-01	00:30:22	2019-06-01	01:00:38	30.26667	mins	51.1
##	290	2019-06-01	00:30:22	2019-06-01	01:00:38	30.26667	mins	97.2
##	291	2019-06-01	00:30:22	2019-06-01	01:00:38	30.26667	mins	0.761
##	292	2019-06-01	00:30:22	2019-06-01	01:00:38	30.26667	mins	321.
##	293	2019-06-01	00:30:22	2019-06-01	01:00:38	30.26667	mins	180.
##	294	2019-06-01	00:30:22	2019-06-01	01:00:38	30.26667	mins	100.
##	295	2019-06-01	01:00:38	2019-06-01	01:30:47	30.15000	mins	87.4
##	296	2019-06-01	01:00:38	2019-06-01	01:30:47	30.15000	mins	7.60
##	297	2019-06-01	01:00:38	2019-06-01	01:30:47	30.15000	mins	130.
##	298	2019-06-01	01:00:38	2019-06-01	01:30:47	30.15000	mins	17.6
##	299	2019-06-01	01:00:38	2019-06-01	01:30:47	30.15000	mins	290.
##	300	2019-06-01	01:00:38	2019-06-01	01:30:47	30.15000	mins	263.
##	301	2019-06-01	01:30:47	2019-06-01	02:00:46	29.98333	mins	91.6
##	302	2019-06-01	01:30:47	2019-06-01	02:00:46	29.98333	mins	557.
##	303	2019-06-01	01:30:47	2019-06-01	02:00:46	29.98333	mins	159.
##	304	2019-06-01	02:00:46	2019-06-01	02:30:47	30.01667	mins	274.
##	305	2019-06-01	02:00:46	2019-06-01	02:30:47	30.01667	mins	113.
##	306	2019-06-01	02:00:46	2019-06-01	02:30:47	30.01667	mins	244.
##	307	2019-06-01	02:00:46	2019-06-01	02:30:47	30.01667	mins	52.2
##	308	2019-06-01	02:00:46	2019-06-01	02:30:47	30.01667	mins	113.
##	309	2019-06-01	02:30:47	2019-06-01	03:01:01	30.23333	mins	107.
##	310	2019-06-01	02:30:47	2019-06-01	03:01:01	30.23333	mins	123.
##	311	2019-06-01	02:30:47	2019-06-01	03:01:01	30.23333	mins	263.
##	312	2019-06-01	03:01:01	2019-06-01	03:30:12	29.18333	mins	66.9
##	313	2019-06-01	03:01:01	2019-06-01	03:30:12	29.18333	mins	100.
##	314	2019-06-01	03:01:01	2019-06-01	03:30:12	29.18333	mins	280.
##	315	2019-06-01	03:30:12	2019-06-01	04:00:46	30.56667	mins	49.5
##	316	2019-06-01	03:30:12	2019-06-01	04:00:46	30.56667	mins	223.
##	317	2019-06-01	03:30:12	2019-06-01	04:00:46	30.56667	mins	393.
##	318	2019-06-01	03:30:12	2019-06-01	04:00:46	30.56667	mins	243.
##	319	2019-06-01	04:00:46	2019-06-01	04:30:47	30.01667	mins	103.
##	320	2019-06-01	04:00:46	2019-06-01	04:30:47	30.01667	mins	257.
##	321	2019-06-01	05:00:48	2019-06-01	05:30:47	29.98333	mins	224.
##	322	2019-06-01	05:00:48	2019-06-01	05:30:47	29.98333	mins	293.
##	323	2019-06-01	07:30:46	2019-06-01	08:00:47	30.01667	mins	131.
##	324	2019-06-01	08:00:47	2019-06-01	08:30:23	29.60000	mins	770.
##	325	2019-06-01	08:00:47	2019-06-01	08:30:23	29.60000	mins	220.
##	326	2019-06-01	08:30:23	2019-06-01	09:00:47	30.40000	mins	441.
##	327	2019-06-01	08:30:23	2019-06-01	09:00:47	30.40000	mins	123.
##	328	2019-06-01	10:01:02	2019-06-01	10:30:46	29.73333	mins	914.
##	329	2019-06-01	10:30:46	2019-06-01	11:00:47	30.01667	mins	303.
##	330	2019-06-01	14:00:45	2019-06-01	14:30:47	30.03333	mins	223.
##	331	2019-06-01	14:00:45	2019-06-01	14:30:47	30.03333	mins	470.
##	332	2019-06-01	14:00:45	2019-06-01	14:30:47	30.03333	mins	280.
##	333	2019-06-01	14:30:47	2019-06-01	15:00:46	29.98333	mins	684.
##	334	2019-06-01	23:00:47	2019-06-01	23:30:46	29.98333	mins	91.3
##	335	2019-06-01	23:00:47	2019-06-01	23:30:46	29.98333	mins	272.
##	336	2019-06-01	23:00:47	2019-06-01	23:30:46	29.98333	mins	26.9
##	337	2019-06-01	23:00:47	2019-06-01	23:30:46	29.98333	mins	110.
##	338	2019-06-01	23:00:47	2019-06-01	23:30:46	29.98333	mins	47.8
##	339	2019-06-01	23:00:47	2019-06-01	23:30:46	29.98333	mins	72.1
##	340	2019-06-01	23:00:47	2019-06-01	23:30:46	29.98333	mins	29.7

##	341	2019-06-01	23:00:47	2019-06-01	23:30:46	29.98333	mins	157.
##	342	2019-06-01	23:00:47	2019-06-01	23:30:46	29.98333	mins	1.15
##	343	2019-06-01	23:00:47	2019-06-01	23:30:46	29.98333	mins	11.7
##	344	2019-06-01	23:30:46	2019-06-02	00:00:47	30.01667	mins	379.
##	345	2019-06-01	23:30:46	2019-06-02	00:00:47	30.01667	mins	26.6
##	346	2019-06-01	23:30:46	2019-06-02	00:00:47	30.01667	mins	16.1
##	347	2019-06-01	23:30:46	2019-06-02	00:00:47	30.01667	mins	248.
##	348	2019-06-01	23:30:46	2019-06-02	00:00:47	30.01667	mins	102.
##	349	2019-06-01	23:30:46	2019-06-02	00:00:47	30.01667	mins	13.2
##	350	2019-06-01	23:30:46	2019-06-02	00:00:47	30.01667	mins	39.5
##	351	2019-06-01	23:30:46	2019-06-02	00:00:47	30.01667	mins	18.1
##	352	2019-06-01	23:30:46	2019-06-02	00:00:47	30.01667	mins	47.0
##	353	2019-06-02	00:00:47	2019-06-02	00:30:46	29.98333	mins	166.
##	354	2019-06-02	00:00:47	2019-06-02	00:30:46	29.98333	mins	183.
##	355	2019-06-02	00:00:47	2019-06-02	00:30:46	29.98333	mins	44.3
##	356	2019-06-02	00:00:47	2019-06-02	00:30:46	29.98333	mins	49.9
##	357	2019-06-02	00:00:47	2019-06-02	00:30:46	29.98333	mins	227.
##	358	2019-06-02	01:00:47	2019-06-02	01:30:46	29.98333	mins	81.5
##	359	2019-06-02	02:00:47	2019-06-02	02:30:46	29.98333	mins	259.
##	360	2019-06-02	02:00:47	2019-06-02	02:30:46	29.98333	mins	252.
##	361	2019-06-02	02:00:47	2019-06-02	02:30:46	29.98333	mins	224.
##	362	2019-06-02	02:30:46	2019-06-02	03:00:36	29.83333	mins	519.
##	363	2019-06-02	03:30:49	2019-06-02	04:00:46	29.95000	mins	108.
##	364	2019-06-02	04:00:46	2019-06-02	04:30:49	30.05000	mins	540.
##	365	2019-06-02	04:30:49	2019-06-02	05:00:48	29.98333	mins	189.
##	366	2019-06-02	05:30:47	2019-06-02	06:00:55	30.13333	mins	156.
##	367	2019-06-02	05:30:47	2019-06-02	06:00:55	30.13333	mins	154.
##	368	2019-06-02	06:00:55	2019-06-02	06:30:33	29.63333	mins	204.
##	369	2019-06-02	06:00:55	2019-06-02	06:30:33	29.63333	mins	315.
##	370	2019-06-02	06:00:55	2019-06-02	06:30:33	29.63333	mins	736.
##	371	2019-06-02	06:30:33	2019-06-02	07:00:47	30.23333	mins	162.
##	372	2019-06-02	06:30:33	2019-06-02	07:00:47	30.23333	mins	246.
##	373	2019-06-02	06:30:33	2019-06-02	07:00:47	30.23333	mins	166.
##	374	2019-06-02	07:00:47	2019-06-02	07:30:21	29.56667	mins	146.
##	375	2019-06-02	07:00:47	2019-06-02	07:30:21	29.56667	mins	92.1
##	376	2019-06-02	08:00:46	2019-06-02	08:30:47	30.01667	mins	201.
##	377	2019-06-02	08:00:46	2019-06-02	08:30:47	30.01667	mins	210.
##	378	2019-06-02	08:00:46	2019-06-02	08:30:47	30.01667	mins	158.
##	379	2019-06-02	08:00:46	2019-06-02	08:30:47	30.01667	mins	165.
##	380	2019-06-02	08:30:47	2019-06-02	09:00:46	29.98333	mins	554.
##	381	2019-06-02	08:30:47	2019-06-02	09:00:46	29.98333	mins	108.
##	382	2019-06-02	08:30:47	2019-06-02	09:00:46	29.98333	mins	215.
##	383	2019-06-02	08:30:47	2019-06-02	09:00:46	29.98333	mins	137.
##	384	2019-06-02	09:00:46	2019-06-02	09:30:46	30.00000	mins	237.
##	385	2019-06-02	09:00:46	2019-06-02	09:30:46	30.00000	mins	229.
##	386	2019-06-02	09:00:46	2019-06-02	09:30:46	30.00000	mins	428.
##	387	2019-06-02	10:01:19	2019-06-02	10:30:46	29.45000	mins	130.
##	388	2019-06-02	10:01:19	2019-06-02	10:30:46	29.45000	mins	334.
##	389	2019-06-02	14:02:13	2019-06-02	14:31:00	28.78333	mins	337.
##	390	2019-06-03	03:00:12	2019-06-03	03:30:41	30.48333	mins	389.
##	391	2019-06-03	05:30:08	2019-06-03	06:00:48	30.66667	mins	1438.
##	392	2019-06-03	22:00:09	2019-06-03	22:30:06	29.95000	mins	151.
##	393	2019-06-03	22:00:09	2019-06-03	22:30:06	29.95000	mins	304.
##	394	2019-06-03	22:00:09	2019-06-03	22:30:06	29.95000	mins	68.9

##	395	2019-06-03	22:30:06	2019-06-03	23:00:09	30.05000	mins	107.
##	396	2019-06-03	22:30:06	2019-06-03	23:00:09	30.05000	mins	58.1
##	397	2019-06-03	22:30:06	2019-06-03	23:00:09	30.05000	mins	43.6
##	398	2019-06-03	23:00:09	2019-06-03	23:30:48	30.65000	mins	28.7
##	399	2019-06-03	23:00:09	2019-06-03	23:30:48	30.65000	mins	159.
##	400	2019-06-03	23:00:09	2019-06-03	23:30:48	30.65000	mins	144.
##	401	2019-06-03	23:30:48	2019-06-04	00:01:01	30.21667	mins	157.
##	402	2019-06-03	23:30:48	2019-06-04	00:01:01	30.21667	mins	1.56
##	403	2019-06-03	23:30:48	2019-06-04	00:01:01	30.21667	mins	331.
##	404	2019-06-03	23:30:48	2019-06-04	00:01:01	30.21667	mins	61.7
##	405	2019-06-03	23:30:48	2019-06-04	00:01:01	30.21667	mins	64.8
##	406	2019-06-03	23:30:48	2019-06-04	00:01:01	30.21667	mins	23.6
##	407	2019-06-03	23:30:48	2019-06-04	00:01:01	30.21667	mins	3.05
##	408	2019-06-03	23:30:48	2019-06-04	00:01:01	30.21667	mins	72.1
##	409	2019-06-03	23:30:48	2019-06-04	00:01:01	30.21667	mins	66.8
##	410	2019-06-04	00:01:01	2019-06-04	00:30:06	29.08333	mins	129.
##	411	2019-06-04	00:30:06	2019-06-04	01:00:10	30.06667	mins	196.
##	412	2019-06-04	00:30:06	2019-06-04	01:00:10	30.06667	mins	451.
##	413	2019-06-04	01:00:10	2019-06-04	01:30:08	29.96667	mins	111.
##	414	2019-06-04	01:00:10	2019-06-04	01:30:08	29.96667	mins	252.
##	415	2019-06-04	01:30:08	2019-06-04	02:00:08	30.00000	mins	115.
##	416	2019-06-04	01:30:08	2019-06-04	02:00:08	30.00000	mins	34.4
##	417	2019-06-04	02:00:08	2019-06-04	02:30:19	30.18333	mins	217.
##	418	2019-06-04	15:00:11	2019-06-04	15:30:30	30.31667	mins	1942.
##	419	2019-06-04	15:30:30	2019-06-04	16:00:16	29.76667	mins	543.
##	420	2019-06-04	15:30:30	2019-06-04	16:00:16	29.76667	mins	190.
##	421	2019-06-04	15:30:30	2019-06-04	16:00:16	29.76667	mins	559.
##	422	2019-06-04	15:30:30	2019-06-04	16:00:16	29.76667	mins	35.9
##	423	2019-06-04	15:30:30	2019-06-04	16:00:16	29.76667	mins	101.
##	424	2019-06-04	15:30:30	2019-06-04	16:00:16	29.76667	mins	204.
##	425	2019-06-04	15:30:30	2019-06-04	16:00:16	29.76667	mins	587.
##	426	2019-06-04	15:30:30	2019-06-04	16:00:16	29.76667	mins	89.7
##	427	2019-06-04	15:30:30	2019-06-04	16:00:16	29.76667	mins	97.9
##	428	2019-06-05	15:00:47	2019-06-05	15:30:10	29.38333	mins	1174.
##	429	2019-06-05	15:30:10	2019-06-05	16:00:37	30.45000	mins	44.7
##	430	2019-06-05	15:30:10	2019-06-05	16:00:37	30.45000	mins	16.1
##	431	2019-06-05	15:30:10	2019-06-05	16:00:37	30.45000	mins	12.8
##	432	2019-06-05	15:30:10	2019-06-05	16:00:37	30.45000	mins	197.
##	433	2019-06-05	15:30:10	2019-06-05	16:00:37	30.45000	mins	30.0
##	434	2019-06-05	15:30:10	2019-06-05	16:00:37	30.45000	mins	46.7
##	435	2019-06-05	15:30:10	2019-06-05	16:00:37	30.45000	mins	6.21
##	436	2019-06-05	16:00:37	2019-06-05	16:30:25	29.80000	mins	145.
##	437	2019-06-05	16:30:25	2019-06-05	17:00:07	29.70000	mins	304.
##	438	2019-06-05	20:02:30	2019-06-05	20:30:47	28.28333	mins	48.4
##	439	2019-06-05	20:02:30	2019-06-05	20:30:47	28.28333	mins	101.
##	440	2019-06-05	20:02:30	2019-06-05	20:30:47	28.28333	mins	189.
##	441	2019-06-05	20:30:47	2019-06-05	21:00:46	29.98333	mins	57.4
##	442	2019-06-05	20:30:47	2019-06-05	21:00:46	29.98333	mins	60.4
##	443	2019-06-07	15:00:29	2019-06-07	15:30:08	29.65000	mins	1582.
##	444	2019-06-09	04:01:19	2019-06-09	04:30:34	29.25000	mins	393.
##	445	2019-06-09	04:01:19	2019-06-09	04:30:34	29.25000	mins	438.
##	446	2019-06-09	04:01:19	2019-06-09	04:30:34	29.25000	mins	267.
##	447	2019-06-09	04:30:34	2019-06-09	05:00:08	29.56667	mins	171.
##	448	2019-06-09	04:30:34	2019-06-09	05:00:08	29.56667	mins	7.19

##	449	2019-06-09	04:30:34	2019-06-09	05:00:08	29.56667	mins	87.5
##	450	2019-06-09	04:30:34	2019-06-09	05:00:08	29.56667	mins	62.3
##	451	2019-06-09	04:30:34	2019-06-09	05:00:08	29.56667	mins	43.3
##	452	2019-06-09	04:30:34	2019-06-09	05:00:08	29.56667	mins	90.5
##	453	2019-06-09	04:30:34	2019-06-09	05:00:08	29.56667	mins	41.2
##	454	2019-06-09	04:30:34	2019-06-09	05:00:08	29.56667	mins	40.1
##	455	2019-06-09	04:30:34	2019-06-09	05:00:08	29.56667	mins	21.4
##	456	2019-06-09	04:30:34	2019-06-09	05:00:08	29.56667	mins	138.
##	457	2019-06-09	05:00:08	2019-06-09	05:30:46	30.63333	mins	110.
##	458	2019-06-09	05:00:08	2019-06-09	05:30:46	30.63333	mins	77.8
##	459	2019-06-09	05:00:08	2019-06-09	05:30:46	30.63333	mins	301.
##	460	2019-06-09	05:00:08	2019-06-09	05:30:46	30.63333	mins	72.8
##	461	2019-06-09	05:00:08	2019-06-09	05:30:46	30.63333	mins	56.7
##	462	2019-06-09	05:00:08	2019-06-09	05:30:46	30.63333	mins	52.0
##	463	2019-06-09	05:00:08	2019-06-09	05:30:46	30.63333	mins	34.7
##	464	2019-06-09	05:00:08	2019-06-09	05:30:46	30.63333	mins	183.
##	465	2019-06-09	05:00:08	2019-06-09	05:30:46	30.63333	mins	18.9
##	466	2019-06-09	22:00:37	2019-06-09	22:30:34	29.95000	mins	134.
##	467	2019-06-09	22:00:37	2019-06-09	22:30:34	29.95000	mins	114.
##	468	2019-06-09	22:30:34	2019-06-09	23:00:06	29.53333	mins	406.
##	469	2019-06-09	22:30:34	2019-06-09	23:00:06	29.53333	mins	78.1
##	470	2019-06-09	22:30:34	2019-06-09	23:00:06	29.53333	mins	11.0
##	471	2019-06-09	22:30:34	2019-06-09	23:00:06	29.53333	mins	24.4
##	472	2019-06-09	22:30:34	2019-06-09	23:00:06	29.53333	mins	305.
##	473	2019-06-09	22:30:34	2019-06-09	23:00:06	29.53333	mins	24.8
##	474	2019-06-09	22:30:34	2019-06-09	23:00:06	29.53333	mins	47.3
##	475	2019-06-09	22:30:34	2019-06-09	23:00:06	29.53333	mins	67.2
##	476	2019-06-09	23:00:06	2019-06-09	23:30:08	30.03333	mins	787.
##	477	2019-06-09	23:00:06	2019-06-09	23:30:08	30.03333	mins	511.
##	478	2019-06-09	23:00:06	2019-06-09	23:30:08	30.03333	mins	4.13
##	479	2019-06-09	23:00:06	2019-06-09	23:30:08	30.03333	mins	124.
##	480	2019-06-09	23:00:06	2019-06-09	23:30:08	30.03333	mins	51.2
##	481	2019-06-09	23:00:06	2019-06-09	23:30:08	30.03333	mins	0.000550
##	482	2019-06-09	23:00:06	2019-06-09	23:30:08	30.03333	mins	50.5
##	483	2019-06-09	23:00:06	2019-06-09	23:30:08	30.03333	mins	42.2
##	484	2019-06-09	23:00:06	2019-06-09	23:30:08	30.03333	mins	77.1
##	485	2019-06-09	23:00:06	2019-06-09	23:30:08	30.03333	mins	328.
##	486	2019-06-09	23:30:08	2019-06-10	00:00:07	29.98333	mins	752.
##	487	2019-06-09	23:30:08	2019-06-10	00:00:07	29.98333	mins	64.3
##	488	2019-06-09	23:30:08	2019-06-10	00:00:07	29.98333	mins	43.5
##	489	2019-06-09	23:30:08	2019-06-10	00:00:07	29.98333	mins	364.
##	490	2019-06-09	23:30:08	2019-06-10	00:00:07	29.98333	mins	3.23
##	491	2019-06-09	23:30:08	2019-06-10	00:00:07	29.98333	mins	0.446
##	492	2019-06-09	23:30:08	2019-06-10	00:00:07	29.98333	mins	5.30
##	493	2019-06-09	23:30:08	2019-06-10	00:00:07	29.98333	mins	102.
##	494	2019-06-09	23:30:08	2019-06-10	00:00:07	29.98333	mins	269.
##	495	2019-06-10	00:00:07	2019-06-10	00:30:10	30.05000	mins	1072.
##	496	2019-06-10	00:00:07	2019-06-10	00:30:10	30.05000	mins	626.
##	497	2019-06-10	00:00:07	2019-06-10	00:30:10	30.05000	mins	427.
##	498	2019-06-10	00:00:07	2019-06-10	00:30:10	30.05000	mins	36.9
##	499	2019-06-10	00:00:07	2019-06-10	00:30:10	30.05000	mins	2.80
##	500	2019-06-10	00:00:07	2019-06-10	00:30:10	30.05000	mins	141.
##	501	2019-06-10	00:00:07	2019-06-10	00:30:10	30.05000	mins	6.01
##	502	2019-06-10	00:00:07	2019-06-10	00:30:10	30.05000	mins	2.24

##	503	2019-06-10	00:30:10	2019-06-10	01:00:49	30.65000	mins	89.3
##	504	2019-06-10	00:30:10	2019-06-10	01:00:49	30.65000	mins	22.0
##	505	2019-06-10	00:30:10	2019-06-10	01:00:49	30.65000	mins	7.17
##	506	2019-06-10	00:30:10	2019-06-10	01:00:49	30.65000	mins	11.8
##	507	2019-06-10	00:30:10	2019-06-10	01:00:49	30.65000	mins	197.
##	508	2019-06-10	00:30:10	2019-06-10	01:00:49	30.65000	mins	580.
##	509	2019-06-10	00:30:10	2019-06-10	01:00:49	30.65000	mins	0.630
##	510	2019-06-10	00:30:10	2019-06-10	01:00:49	30.65000	mins	76.8
##	511	2019-06-10	00:30:10	2019-06-10	01:00:49	30.65000	mins	209.
##	512	2019-06-10	01:00:49	2019-06-10	01:30:46	29.95000	mins	47.3
##	513	2019-06-10	01:00:49	2019-06-10	01:30:46	29.95000	mins	106.
##	514	2019-06-10	01:00:49	2019-06-10	01:30:46	29.95000	mins	41.1
##	515	2019-06-10	02:30:46	2019-06-10	03:00:47	30.01667	mins	462.
##	516	2019-06-10	03:00:47	2019-06-10	03:30:46	29.98333	mins	624.
##	517	2019-06-10	04:30:46	2019-06-10	05:00:47	30.01667	mins	244.
##	518	2019-06-10	05:30:55	2019-06-10	06:00:47	29.86667	mins	803.
##	519	2019-06-10	06:00:47	2019-06-10	06:30:16	29.48333	mins	490.
##	520	2019-06-10	06:30:16	2019-06-10	07:00:16	30.00000	mins	354.
##	521	2019-06-10	06:30:16	2019-06-10	07:00:16	30.00000	mins	356.
##	522	2019-06-10	07:00:16	2019-06-10	07:30:46	30.50000	mins	327.
##	523	2019-06-10	07:30:46	2019-06-10	08:00:47	30.01667	mins	551.
##	524	2019-06-10	08:00:47	2019-06-10	08:31:06	30.31667	mins	416.
##	525	2019-06-10	10:30:16	2019-06-10	11:00:22	30.10000	mins	555.
##	526	2019-06-10	12:30:35	2019-06-10	13:00:09	29.56667	mins	718.
##	527	2019-06-10	13:00:09	2019-06-10	13:30:41	30.53333	mins	587.
##	528	2019-06-10	13:30:41	2019-06-10	14:00:33	29.86667	mins	670.
##	529	2019-06-10	14:00:33	2019-06-10	14:30:46	30.21667	mins	564.
##	530	2019-06-10	15:00:47	2019-06-10	15:30:41	29.90000	mins	559.
##	531	2019-06-10	18:00:46	2019-06-10	18:31:01	30.25000	mins	820.
##	532	2019-06-10	21:30:47	2019-06-10	22:00:46	29.98333	mins	602.
##	533	2019-06-10	22:00:46	2019-06-10	22:30:40	29.90000	mins	920.
##	534	2019-06-10	22:30:40	2019-06-10	23:00:23	29.71667	mins	22.9
##	535	2019-06-10	22:30:40	2019-06-10	23:00:23	29.71667	mins	115.
##	536	2019-06-11	00:30:49	2019-06-11	01:00:46	29.95000	mins	1040.
##	537	2019-06-11	01:00:46	2019-06-11	01:30:47	30.01667	mins	1365.
##	538	2019-06-11	01:00:46	2019-06-11	01:30:47	30.01667	mins	43.3
##	539	2019-06-11	01:00:46	2019-06-11	01:30:47	30.01667	mins	32.5
##	540	2019-06-11	01:00:46	2019-06-11	01:30:47	30.01667	mins	60.4
##	541	2019-06-11	01:00:46	2019-06-11	01:30:47	30.01667	mins	29.1
##	542	2019-06-11	01:00:46	2019-06-11	01:30:47	30.01667	mins	99.9
##	543	2019-06-11	01:00:46	2019-06-11	01:30:47	30.01667	mins	16.8
##	544	2019-06-11	01:00:46	2019-06-11	01:30:47	30.01667	mins	5.38
##	545	2019-06-11	01:00:46	2019-06-11	01:30:47	30.01667	mins	27.6
##	546	2019-06-11	01:30:47	2019-06-11	02:00:47	30.00000	mins	578.
##	547	2019-06-11	01:30:47	2019-06-11	02:00:47	30.00000	mins	9.11
##	548	2019-06-11	01:30:47	2019-06-11	02:00:47	30.00000	mins	1.44
##	549	2019-06-11	01:30:47	2019-06-11	02:00:47	30.00000	mins	1.42
##	550	2019-06-11	02:00:47	2019-06-11	02:30:46	29.98333	mins	58.7
##	551	2019-06-11	02:00:47	2019-06-11	02:30:46	29.98333	mins	39.7
##	552	2019-06-11	02:30:46	2019-06-11	03:00:54	30.13333	mins	246.
##	553	2019-06-11	02:30:46	2019-06-11	03:00:54	30.13333	mins	158.
##	554	2019-06-11	05:30:48	2019-06-11	06:00:46	29.96667	mins	269.
##	555	2019-06-11	07:00:16	2019-06-11	07:30:47	30.51667	mins	445.
##	556	2019-06-11	08:31:06	2019-06-11	09:00:56	29.83333	mins	414.

##	557	2019-06-14	16:30:14	2019-06-14	17:00:20	30.10000	mins	1111.
##	558	2019-06-18	02:30:35	2019-06-18	03:00:07	29.53333	mins	523.
##	559	2019-06-18	03:00:07	2019-06-18	03:30:47	30.66667	mins	7.93
##	560	2019-06-18	03:00:07	2019-06-18	03:30:47	30.66667	mins	9.06
##	561	2019-06-18	03:00:07	2019-06-18	03:30:47	30.66667	mins	0.611
##	562	2019-06-18	03:00:07	2019-06-18	03:30:47	30.66667	mins	242.
##	563	2019-06-18	03:00:07	2019-06-18	03:30:47	30.66667	mins	26.8
##	564	2019-06-18	03:00:07	2019-06-18	03:30:47	30.66667	mins	64.7
##	565	2019-06-18	03:30:47	2019-06-18	04:01:01	30.23333	mins	5.50
##	566	2019-06-18	03:30:47	2019-06-18	04:01:01	30.23333	mins	8.28
##	567	2019-06-18	03:30:47	2019-06-18	04:01:01	30.23333	mins	24.3
##	568	2019-06-18	03:30:47	2019-06-18	04:01:01	30.23333	mins	18.1
##	569	2019-06-18	03:30:47	2019-06-18	04:01:01	30.23333	mins	30.3
##	570	2019-06-18	03:30:47	2019-06-18	04:01:01	30.23333	mins	2.32
##	571	2019-06-18	03:30:47	2019-06-18	04:01:01	30.23333	mins	33.2
##	572	2019-06-27	09:30:47	2019-06-27	10:00:47	30.00000	mins	436.
##	573	2019-06-27	10:30:48	2019-06-27	11:00:47	29.98333	mins	164.
##	574	2019-06-27	10:30:48	2019-06-27	11:00:47	29.98333	mins	68.4
##	575	2019-06-27	11:00:47	2019-06-27	11:30:47	30.00000	mins	481.
##	576	2019-06-28	11:30:47	2019-06-28	12:00:59	30.20000	mins	253.
##	577	2019-06-28	11:30:47	2019-06-28	12:00:59	30.20000	mins	232.
##	578	2019-06-28	11:30:47	2019-06-28	12:00:59	30.20000	mins	130.
##	579	2019-06-28	20:30:31	2019-06-28	21:00:32	30.01667	mins	1095.
##	580	2019-07-01	00:30:47	2019-07-01	01:00:34	29.78333	mins	1114.
##	581	2019-07-01	01:00:34	2019-07-01	01:30:49	30.25000	mins	612.
##	582	2019-07-01	01:00:34	2019-07-01	01:30:49	30.25000	mins	0.00190
##	583	2019-07-01	01:00:34	2019-07-01	01:30:49	30.25000	mins	24.7
##	584	2019-07-01	01:00:34	2019-07-01	01:30:49	30.25000	mins	9.17
##	585	2019-07-01	01:00:34	2019-07-01	01:30:49	30.25000	mins	20.7
##	586	2019-07-01	01:00:34	2019-07-01	01:30:49	30.25000	mins	104.
##	587	2019-07-01	01:00:34	2019-07-01	01:30:49	30.25000	mins	182.
##	588	2019-07-01	01:30:49	2019-07-01	02:00:33	29.73333	mins	420.
##	589	2019-07-01	01:30:49	2019-07-01	02:00:33	29.73333	mins	23.5
##	590	2019-07-01	01:30:49	2019-07-01	02:00:33	29.73333	mins	7.33
##	591	2019-07-01	01:30:49	2019-07-01	02:00:33	29.73333	mins	239.
##	592	2019-07-01	01:30:49	2019-07-01	02:00:33	29.73333	mins	23.8
##	593	2019-07-01	01:30:49	2019-07-01	02:00:33	29.73333	mins	3.81
##	594	2019-07-01	01:30:49	2019-07-01	02:00:33	29.73333	mins	4.15
##	595	2019-07-01	02:00:33	2019-07-01	02:30:46	30.21667	mins	424.
##	596	2019-07-01	11:00:17	2019-07-01	11:30:21	30.06667	mins	441.
##	597	2019-07-01	19:31:52	2019-07-01	20:01:24	29.53333	mins	879.
##	598	2019-07-01	22:00:46	2019-07-01	22:30:46	30.00000	mins	482.
##	599	2019-07-01	23:00:47	2019-07-01	23:30:48	30.01667	mins	169.
##	600	2019-07-01	23:00:47	2019-07-01	23:30:48	30.01667	mins	505.
##	601	2019-07-02	00:31:07	2019-07-02	01:00:34	29.45000	mins	402.
##	602	2019-07-02	00:31:07	2019-07-02	01:00:34	29.45000	mins	155.
##	603	2019-07-02	00:31:07	2019-07-02	01:00:34	29.45000	mins	42.6
##	604	2019-07-02	01:00:34	2019-07-02	01:30:06	29.53333	mins	0.691
##	605	2019-07-02	01:00:34	2019-07-02	01:30:06	29.53333	mins	14.8
##	606	2019-07-02	01:00:34	2019-07-02	01:30:06	29.53333	mins	20.0
##	607	2019-07-02	01:00:34	2019-07-02	01:30:06	29.53333	mins	186.
##	608	2019-07-02	01:00:34	2019-07-02	01:30:06	29.53333	mins	38.2
##	609	2019-07-02	01:00:34	2019-07-02	01:30:06	29.53333	mins	10.7
##	610	2019-07-02	01:00:34	2019-07-02	01:30:06	29.53333	mins	61.5

##	611	2019-07-02	01:30:06	2019-07-02	02:00:47	30.68333	mins	1329.
##	612	2019-07-02	02:00:47	2019-07-02	02:30:46	29.98333	mins	6.16
##	613	2019-07-02	02:00:47	2019-07-02	02:30:46	29.98333	mins	271.
##	614	2019-07-02	02:00:47	2019-07-02	02:30:46	29.98333	mins	10.0
##	615	2019-07-02	02:00:47	2019-07-02	02:30:46	29.98333	mins	6.73
##	616	2019-07-02	02:00:47	2019-07-02	02:30:46	29.98333	mins	538.
##	617	2019-07-02	02:00:47	2019-07-02	02:30:46	29.98333	mins	65.4
##	618	2019-07-02	02:00:47	2019-07-02	02:30:46	29.98333	mins	6.14
##	619	2019-07-02	03:00:35	2019-07-02	03:30:09	29.56667	mins	145.
##	620	2019-07-02	03:30:09	2019-07-02	04:00:19	30.16667	mins	48.5
##	621	2019-07-02	03:30:09	2019-07-02	04:00:19	30.16667	mins	157.
##	622	2019-07-02	03:30:09	2019-07-02	04:00:19	30.16667	mins	306.
##	623	2019-07-02	04:30:46	2019-07-02	05:00:35	29.81667	mins	699.
##	624	2019-07-02	04:30:46	2019-07-02	05:00:35	29.81667	mins	373.
##	625	2019-07-02	07:00:47	2019-07-02	07:30:48	30.01667	mins	549.
##	626	2019-07-02	08:01:03	2019-07-02	08:30:55	29.86667	mins	780.
##	627	2019-07-02	10:00:06	2019-07-02	10:30:47	30.68333	mins	579.
##	628	2019-07-02	10:00:06	2019-07-02	10:30:47	30.68333	mins	338.
##	629	2019-07-02	10:30:47	2019-07-02	11:01:31	30.73333	mins	169.
##	630	NA		NA		NA	mins	NA
##	631	NA		NA		NA	mins	NA
##	632	NA		NA		NA	mins	NA
##	633	NA		NA		NA	mins	NA
##	634	NA		NA		NA	mins	NA
##	635	NA		NA		NA	mins	NA
##	636	NA		NA		NA	mins	NA
##	637	NA		NA		NA	mins	NA
##	638	NA		NA		NA	mins	NA
##	639	NA		NA		NA	mins	NA
##	640	NA		NA		NA	mins	NA
##	641	NA		NA		NA	mins	NA
##	642	NA		NA		NA	mins	NA
##	643	NA		NA		NA	mins	NA
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##	645	NA		NA		NA	mins	NA
##	646	NA		NA		NA	mins	NA
##	647	NA		NA		NA	mins	NA
##	648	NA		NA		NA	mins	NA
##	649	NA		NA		NA	mins	NA
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##	662	NA		NA		NA	mins	NA
##	663	NA		NA		NA	mins	NA
##	664	NA		NA		NA	mins	NA

##	665	NA	NA	mins	NA
##	666	NA	NA	mins	NA
##	667	NA	NA	mins	NA
##	668	NA	NA	mins	NA
##	669	NA	NA	mins	NA
##	670	NA	NA	mins	NA
##	671	NA	NA	mins	NA
##	672	NA	NA	mins	NA
##	673	NA	NA	mins	NA
##	674	NA	NA	mins	NA
##	675	NA	NA	mins	NA
##	676	NA	NA	mins	NA
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##	687	NA	NA	mins	NA
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##	689	NA	NA	mins	NA
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##	700	NA	NA	mins	NA
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##	706	NA	NA	mins	NA
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##	713	NA	NA	mins	NA
##	714	NA	NA	mins	NA
##	715	NA	NA	mins	NA
##	716	NA	NA	mins	NA
##	717	NA	NA	mins	NA
##	718	NA	NA	mins	NA

##	719	NA	NA	mins	NA
##	720	NA	NA	mins	NA
##	721	NA	NA	mins	NA
##	722	NA	NA	mins	NA
##	723	NA	NA	mins	NA
##	724	NA	NA	mins	NA
##	725	NA	NA	mins	NA
##	726	NA	NA	mins	NA
##	727	NA	NA	mins	NA
##	728	NA	NA	mins	NA
##	729	NA	NA	mins	NA
##	730	NA	NA	mins	NA
##	731	NA	NA	mins	NA
##	732	NA	NA	mins	NA
##	733	NA	NA	mins	NA
##	734	NA	NA	mins	NA
##	735	NA	NA	mins	NA
##	736	NA	NA	mins	NA
##	737	NA	NA	mins	NA
##	738	NA	NA	mins	NA
##	739	NA	NA	mins	NA
##	740	NA	NA	mins	NA
##	741	NA	NA	mins	NA
##	742	NA	NA	mins	NA
##	743	NA	NA	mins	NA
##	744	NA	NA	mins	NA
##	745	NA	NA	mins	NA
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##	7	0.246	3	17966	Cana-de-Açúcar		2019-03-11
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##	144	1.90	3	18091	Cana-de-Açúcar	2019-07-14
##	145	-0.804	3	18091	Cana-de-Açúcar	2019-07-14
##	146	-0.547	3	18091	Cana-de-Açúcar	2019-07-14
##	147	0.0268	3	18091	Cana-de-Açúcar	2019-07-14
##	148	2.69	3	18091	Cana-de-Açúcar	2019-07-14

##	149	2.63	3	18091	Cana-de-Açúcar	2019-07-14
##	150	0.481	3	18091	Cana-de-Açúcar	2019-07-14
##	151	0.609	3	18091	Cana-de-Açúcar	2019-07-14
##	152	0.681	3	18091	Cana-de-Açúcar	2019-07-14
##	153	1.63	3	18091	Cana-de-Açúcar	2019-07-14
##	154	-0.514	3	18091	Cana-de-Açúcar	2019-07-14
##	155	0.917	3	18091	Cana-de-Açúcar	2019-07-14
##	156	0.231	3	18091	Cana-de-Açúcar	2019-07-14
##	157	2.47	3	18091	Cana-de-Açúcar	2019-07-14
##	158	-1.71	3	18091	Cana-de-Açúcar	2019-07-14
##	159	0.971	3	18091	Cana-de-Açúcar	2019-07-14
##	160	-1.95	3	18091	Cana-de-Açúcar	2019-07-14
##	161	-0.0346	3	18091	Cana-de-Açúcar	2019-07-14
##	162	2.95	3	18091	Cana-de-Açúcar	2019-07-14
##	163	-3.04	3	18091	Cana-de-Açúcar	2019-07-14
##	164	0.297	3	18091	Cana-de-Açúcar	2019-07-14
##	165	-0.238	3	18091	Cana-de-Açúcar	2019-07-14
##	166	-2.64	3	18091	Cana-de-Açúcar	2019-07-14
##	167	0.161	3	18091	Cana-de-Açúcar	2019-07-14
##	168	0.634	3	18091	Cana-de-Açúcar	2019-07-14
##	169	2.60	3	18091	Cana-de-Açúcar	2019-07-14
##	170	2.16	3	18091	Cana-de-Açúcar	2019-07-14
##	171	-0.302	3	18091	Cana-de-Açúcar	2019-07-14
##	172	-0.411	3	18091	Cana-de-Açúcar	2019-07-14
##	173	-2.35	3	18091	Cana-de-Açúcar	2019-07-14
##	174	-0.705	3	18091	Cana-de-Açúcar	2019-07-14
##	175	1.28	3	18091	Cana-de-Açúcar	2019-07-14
##	176	0.754	3	18091	Cana-de-Açúcar	2019-07-14
##	177	-2.63	3	18091	Cana-de-Açúcar	2019-07-14
##	178	-0.486	3	18091	Cana-de-Açúcar	2019-07-14
##	179	0.721	3	18091	Cana-de-Açúcar	2019-07-14
##	180	0.852	3	18091	Cana-de-Açúcar	2019-07-14
##	181	-0.0242	3	18091	Cana-de-Açúcar	2019-07-14
##	182	-2.01	3	18091	Cana-de-Açúcar	2019-07-14
##	183	-2.87	3	18091	Cana-de-Açúcar	2019-07-14
##	184	-0.474	3	18091	Cana-de-Açúcar	2019-07-14
##	185	1.14	3	18091	Cana-de-Açúcar	2019-07-14
##	186	0.983	3	18091	Cana-de-Açúcar	2019-07-14
##	187	0.375	3	18091	Cana-de-Açúcar	2019-07-14
##	188	1.20	3	18091	Cana-de-Açúcar	2019-07-14
##	189	-3.00	3	18091	Cana-de-Açúcar	2019-07-14
##	190	-1.10	3	18091	Cana-de-Açúcar	2019-07-14
##	191	0.363	3	18091	Cana-de-Açúcar	2019-07-14
##	192	0.922	3	18091	Cana-de-Açúcar	2019-07-14
##	193	2.66	3	18091	Cana-de-Açúcar	2019-07-14
##	194	0.231	3	18091	Cana-de-Açúcar	2019-07-14
##	195	-0.190	3	18091	Cana-de-Açúcar	2019-07-14
##	196	0.774	3	18091	Cana-de-Açúcar	2019-07-14
##	197	2.82	3	18091	Cana-de-Açúcar	2019-07-14
##	198	2.08	3	18091	Cana-de-Açúcar	2019-07-14
##	199	0.810	3	18091	Cana-de-Açúcar	2019-07-14
##	200	3.13	3	18091	Cana-de-Açúcar	2019-07-14
##	201	-2.76	3	18091	Cana-de-Açúcar	2019-07-14
##	202	0.263	3	18091	Cana-de-Açúcar	2019-07-14

##	203	2.47	3	18091	Cana-de-Açúcar	2019-07-14
##	204	-3.03	3	18091	Cana-de-Açúcar	2019-07-14
##	205	1.17	3	18091	Cana-de-Açúcar	2019-07-14
##	206	0.340	3	18091	Cana-de-Açúcar	2019-07-14
##	207	2.32	3	18091	Cana-de-Açúcar	2019-07-14
##	208	0.573	3	18091	Cana-de-Açúcar	2019-07-14
##	209	3.12	3	18091	Cana-de-Açúcar	2019-07-14
##	210	-1.47	3	18091	Cana-de-Açúcar	2019-07-14
##	211	0.294	3	18091	Cana-de-Açúcar	2019-07-14
##	212	-0.363	3	18091	Cana-de-Açúcar	2019-07-14
##	213	0.296	3	18091	Cana-de-Açúcar	2019-07-14
##	214	-2.25	3	18091	Cana-de-Açúcar	2019-07-14
##	215	1.14	3	18091	Cana-de-Açúcar	2019-07-14
##	216	-1.15	3	18091	Cana-de-Açúcar	2019-07-14
##	217	1.18	3	18091	Cana-de-Açúcar	2019-07-14
##	218	0.451	3	18091	Cana-de-Açúcar	2019-07-14
##	219	-1.32	3	18091	Cana-de-Açúcar	2019-07-14
##	220	2.53	3	18091	Cana-de-Açúcar	2019-07-14
##	221	-2.65	3	18091	Cana-de-Açúcar	2019-07-14
##	222	3.07	3	18091	Cana-de-Açúcar	2019-07-14
##	223	0.973	3	18091	Cana-de-Açúcar	2019-07-14
##	224	3.07	3	18091	Cana-de-Açúcar	2019-07-14
##	225	-1.86	3	18091	Cana-de-Açúcar	2019-07-14
##	226	2.18	3	18091	Cana-de-Açúcar	2019-07-14
##	227	-0.230	3	18091	Cana-de-Açúcar	2019-07-14
##	228	1.45	3	18091	Cana-de-Açúcar	2019-07-14
##	229	-0.152	3	18091	Cana-de-Açúcar	2019-07-14
##	230	2.78	3	18091	Cana-de-Açúcar	2019-07-14
##	231	0.735	3	18091	Cana-de-Açúcar	2019-07-14
##	232	0.970	3	18091	Cana-de-Açúcar	2019-07-14
##	233	0.195	3	18091	Cana-de-Açúcar	2019-07-14
##	234	-1.38	3	18091	Cana-de-Açúcar	2019-07-14
##	235	0.950	3	18091	Cana-de-Açúcar	2019-07-14
##	236	-0.739	3	18091	Cana-de-Açúcar	2019-07-14
##	237	-1.43	3	18091	Cana-de-Açúcar	2019-07-14
##	238	-2.16	3	18091	Cana-de-Açúcar	2019-07-14
##	239	-2.21	3	18091	Cana-de-Açúcar	2019-07-14
##	240	2.08	3	18091	Cana-de-Açúcar	2019-07-14
##	241	-0.907	3	18091	Cana-de-Açúcar	2019-07-14
##	242	-1.31	3	18091	Cana-de-Açúcar	2019-07-14
##	243	-0.783	3	18091	Cana-de-Açúcar	2019-07-14
##	244	1.06	3	18091	Cana-de-Açúcar	2019-07-14
##	245	2.90	3	18091	Cana-de-Açúcar	2019-07-14
##	246	-2.41	3	18091	Cana-de-Açúcar	2019-07-14
##	247	1.43	3	18091	Cana-de-Açúcar	2019-07-14
##	248	1.59	3	18091	Cana-de-Açúcar	2019-07-14
##	249	0.567	3	18091	Cana-de-Açúcar	2019-07-14
##	250	-2.59	3	18091	Cana-de-Açúcar	2019-07-14
##	251	-2.34	3	18091	Cana-de-Açúcar	2019-07-14
##	252	-2.65	3	18091	Cana-de-Açúcar	2019-07-14
##	253	2.71	3	18091	Cana-de-Açúcar	2019-07-14
##	254	-2.90	3	18091	Cana-de-Açúcar	2019-07-14
##	255	-2.04	3	18091	Cana-de-Açúcar	2019-07-14
##	256	2.31	3	18091	Cana-de-Açúcar	2019-07-14

##	257	0.0287	3	18091	Cana-de-Açúcar	2019-07-14
##	258	-2.40	3	18091	Cana-de-Açúcar	2019-07-14
##	259	1.65	3	18091	Cana-de-Açúcar	2019-07-14
##	260	-1.71	3	18091	Cana-de-Açúcar	2019-07-14
##	261	2.37	3	18091	Cana-de-Açúcar	2019-07-14
##	262	1.75	3	18091	Cana-de-Açúcar	2019-07-14
##	263	1.78	3	18091	Cana-de-Açúcar	2019-07-14
##	264	1.06	3	18091	Cana-de-Açúcar	2019-07-14
##	265	1.24	3	18091	Cana-de-Açúcar	2019-07-14
##	266	1.20	3	18091	Cana-de-Açúcar	2019-07-14
##	267	0.377	3	18091	Cana-de-Açúcar	2019-07-14
##	268	0.0264	3	18091	Cana-de-Açúcar	2019-07-14
##	269	-0.755	3	17966	Cana-de-Açúcar	2019-03-11
##	270	-0.355	3	18091	Cana-de-Açúcar	2019-07-14
##	271	0.610	3	17966	Cana-de-Açúcar	2019-03-11
##	272	0.667	3	17966	Cana-de-Açúcar	2019-03-11
##	273	0.786	3	17966	Cana-de-Açúcar	2019-03-11
##	274	0.292	3	17966	Cana-de-Açúcar	2019-03-11
##	275	0.747	3	17966	Cana-de-Açúcar	2019-03-11
##	276	-0.327	3	17966	Cana-de-Açúcar	2019-03-11
##	277	-0.959	3	17966	Cana-de-Açúcar	2019-03-11
##	278	-2.50	3	17966	Cana-de-Açúcar	2019-03-11
##	279	-1.19	3	17966	Cana-de-Açúcar	2019-03-11
##	280	-2.03	3	17966	Cana-de-Açúcar	2019-03-11
##	281	-0.768	6	18075	Milho - Safrinha	2019-06-28
##	282	-0.516	6	18077	Milho - Safrinha	2019-06-30
##	283	0.767	6	18077	Milho - Safrinha	2019-06-30
##	284	-0.328	6	18077	Milho - Safrinha	2019-06-30
##	285	-0.264	6	18077	Milho - Safrinha	2019-06-30
##	286	1.76	6	18077	Milho - Safrinha	2019-06-30
##	287	2.04	6	18077	Milho - Safrinha	2019-06-30
##	288	1.51	3	18030	Cana-de-Açúcar	2019-05-14
##	289	-0.867	3	18030	Cana-de-Açúcar	2019-05-14
##	290	0.616	3	18030	Cana-de-Açúcar	2019-05-14
##	291	3.09	3	18030	Cana-de-Açúcar	2019-05-14
##	292	0.847	6	18075	Milho - Safrinha	2019-06-28
##	293	1.38	6	18075	Milho - Safrinha	2019-06-28
##	294	-0.129	3	18030	Cana-de-Açúcar	2019-05-14
##	295	-0.564	3	18030	Cana-de-Açúcar	2019-05-14
##	296	-2.63	3	18030	Cana-de-Açúcar	2019-05-14
##	297	1.91	3	18030	Cana-de-Açúcar	2019-05-14
##	298	-1.45	3	18030	Cana-de-Açúcar	2019-05-14
##	299	1.40	3	18016	Cana-de-Açúcar	2019-04-30
##	300	1.68	6	18075	Milho - Safrinha	2019-06-28
##	301	-2.48	3	18030	Cana-de-Açúcar	2019-05-14
##	302	1.82	3	18030	Cana-de-Açúcar	2019-05-14
##	303	-2.98	3	18030	Cana-de-Açúcar	2019-05-14
##	304	-0.839	3	18030	Cana-de-Açúcar	2019-05-14
##	305	-1.13	3	18030	Cana-de-Açúcar	2019-05-14
##	306	0.451	6	18075	Milho - Safrinha	2019-06-28
##	307	-0.949	3	18030	Cana-de-Açúcar	2019-05-14
##	308	-1.10	3	18030	Cana-de-Açúcar	2019-05-14
##	309	1.73	3	18030	Cana-de-Açúcar	2019-05-14
##	310	1.74	3	18030	Cana-de-Açúcar	2019-05-14

##	311	0.916	3	18030	Cana-de-Açúcar	2019-05-14
##	312	-1.43	3	18030	Cana-de-Açúcar	2019-05-14
##	313	-0.735	3	18030	Cana-de-Açúcar	2019-05-14
##	314	-0.742	6	18075	Milho - Safrinha	2019-06-28
##	315	-0.135	3	18030	Cana-de-Açúcar	2019-05-14
##	316	-0.390	3	18030	Cana-de-Açúcar	2019-05-14
##	317	-0.882	3	18016	Cana-de-Açúcar	2019-04-30
##	318	-0.531	3	18030	Cana-de-Açúcar	2019-05-14
##	319	2.56	3	18030	Cana-de-Açúcar	2019-05-14
##	320	2.41	3	18030	Cana-de-Açúcar	2019-05-14
##	321	-2.99	3	18030	Cana-de-Açúcar	2019-05-14
##	322	-2.82	3	18030	Cana-de-Açúcar	2019-05-14
##	323	0.909	3	18030	Cana-de-Açúcar	2019-05-14
##	324	2.10	3	18027	Cana-de-Açúcar	2019-05-11
##	325	2.29	3	18030	Cana-de-Açúcar	2019-05-14
##	326	-2.17	3	18030	Cana-de-Açúcar	2019-05-14
##	327	-1.22	3	18030	Cana-de-Açúcar	2019-05-14
##	328	-2.54	3	18027	Cana-de-Açúcar	2019-05-11
##	329	2.74	3	18030	Cana-de-Açúcar	2019-05-14
##	330	2.67	3	17966	Cana-de-Açúcar	2019-03-11
##	331	0.911	3	17966	Cana-de-Açúcar	2019-03-11
##	332	2.03	3	17966	Cana-de-Açúcar	2019-03-11
##	333	2.87	3	17966	Cana-de-Açúcar	2019-03-11
##	334	2.90	3	17966	Cana-de-Açúcar	2019-03-11
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##	337	0.152	3	17966	Cana-de-Açúcar	2019-03-11
##	338	-2.68	3	17966	Cana-de-Açúcar	2019-03-11
##	339	1.92	3	17966	Cana-de-Açúcar	2019-03-11
##	340	2.74	3	17966	Cana-de-Açúcar	2019-03-11
##	341	2.95	3	17966	Cana-de-Açúcar	2019-03-11
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##	346	0.826	3	17966	Cana-de-Açúcar	2019-03-11
##	347	1.86	3	17966	Cana-de-Açúcar	2019-03-11
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##	353	1.03	3	17966	Cana-de-Açúcar	2019-03-11
##	354	1.73	3	17966	Cana-de-Açúcar	2019-03-11
##	355	1.43	3	17966	Cana-de-Açúcar	2019-03-11
##	356	-2.90	3	17966	Cana-de-Açúcar	2019-03-11
##	357	1.70	3	17966	Cana-de-Açúcar	2019-03-11
##	358	-1.09	3	17966	Cana-de-Açúcar	2019-03-11
##	359	1.39	3	17966	Cana-de-Açúcar	2019-03-11
##	360	1.05	3	17966	Cana-de-Açúcar	2019-03-11
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##	366	-1.29	3	17966	Cana-de-Açúcar	2019-03-11
##	367	-1.09	3	17966	Cana-de-Açúcar	2019-03-11
##	368	-0.342	3	17966	Cana-de-Açúcar	2019-03-11
##	369	-0.262	3	17966	Cana-de-Açúcar	2019-03-11
##	370	0.340	3	17966	Cana-de-Açúcar	2019-03-11
##	371	3.10	3	17966	Cana-de-Açúcar	2019-03-11
##	372	-2.89	3	17966	Cana-de-Açúcar	2019-03-11
##	373	2.77	3	17966	Cana-de-Açúcar	2019-03-11
##	374	0.496	3	17966	Cana-de-Açúcar	2019-03-11
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##	383	2.53	3	17966	Cana-de-Açúcar	2019-03-11
##	384	-0.862	3	17966	Cana-de-Açúcar	2019-03-11
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##	386	-0.0453	3	17966	Cana-de-Açúcar	2019-03-11
##	387	1.54	3	17966	Cana-de-Açúcar	2019-03-11
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##	389	-0.481	3	17966	Cana-de-Açúcar	2019-03-11
##	390	1.94	3	17966	Cana-de-Açúcar	2019-03-11
##	391	2.46	3	17966	Cana-de-Açúcar	2019-03-11
##	392	0.903	3	17966	Cana-de-Açúcar	2019-03-11
##	393	-0.298	3	17966	Cana-de-Açúcar	2019-03-11
##	394	-0.109	3	17966	Cana-de-Açúcar	2019-03-11
##	395	2.97	3	17966	Cana-de-Açúcar	2019-03-11
##	396	-2.53	3	17966	Cana-de-Açúcar	2019-03-11
##	397	-1.48	3	17966	Cana-de-Açúcar	2019-03-11
##	398	-1.35	3	17966	Cana-de-Açúcar	2019-03-11
##	399	-1.45	3	17966	Cana-de-Açúcar	2019-03-11
##	400	-1.44	3	17966	Cana-de-Açúcar	2019-03-11
##	401	1.40	3	17966	Cana-de-Açúcar	2019-03-11
##	402	-1.07	3	17966	Cana-de-Açúcar	2019-03-11
##	403	0.285	3	17966	Cana-de-Açúcar	2019-03-11
##	404	-0.733	3	17966	Cana-de-Açúcar	2019-03-11
##	405	-0.341	3	17966	Cana-de-Açúcar	2019-03-11
##	406	-1.36	3	17966	Cana-de-Açúcar	2019-03-11
##	407	-0.0217	3	17966	Cana-de-Açúcar	2019-03-11
##	408	1.06	3	17966	Cana-de-Açúcar	2019-03-11
##	409	-1.27	3	17966	Cana-de-Açúcar	2019-03-11
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##	413	0.546	3	17966	Cana-de-Açúcar	2019-03-11
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##	415	-2.47	3	17966	Cana-de-Açúcar	2019-03-11
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##	418	0.150	6	18081	Milho - Safrinha	2019-07-04

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##	214	Cana-de-Açúcar	6.16
##	215	Cana-de-Açúcar	3.08
##	216	Cana-de-Açúcar	5.05
##	217	Cana-de-Açúcar	3.97
##	218	Cana-de-Açúcar	3.36
##	219	Cana-de-Açúcar	3.94
##	220	Cana-de-Açúcar	-0.436
##	221	Cana-de-Açúcar	3.62
##	222	Cana-de-Açúcar	2.30
##	223	Cana-de-Açúcar	4.75
##	224	Cana-de-Açúcar	4.13
##	225	Cana-de-Açúcar	1.82
##	226	Cana-de-Açúcar	4.96

##	227	Cana-de-Açúcar	3.73
##	228	Cana-de-Açúcar	1.76
##	229	Cana-de-Açúcar	1.54
##	230	Cana-de-Açúcar	3.44
##	231	Cana-de-Açúcar	6.01
##	232	Cana-de-Açúcar	3.57
##	233	Cana-de-Açúcar	5.58
##	234	Cana-de-Açúcar	5.42
##	235	Cana-de-Açúcar	3.27
##	236	Cana-de-Açúcar	4.64
##	237	Cana-de-Açúcar	2.67
##	238	Cana-de-Açúcar	1.40
##	239	Cana-de-Açúcar	0.850
##	240	Cana-de-Açúcar	1.35
##	241	Cana-de-Açúcar	5.25
##	242	Cana-de-Açúcar	4.33
##	243	Cana-de-Açúcar	2.82
##	244	Cana-de-Açúcar	6.59
##	245	Cana-de-Açúcar	4.80
##	246	Cana-de-Açúcar	3.09
##	247	Cana-de-Açúcar	0.565
##	248	Cana-de-Açúcar	4.09
##	249	Cana-de-Açúcar	3.24
##	250	Cana-de-Açúcar	5.98
##	251	Cana-de-Açúcar	1.69
##	252	Cana-de-Açúcar	2.83
##	253	Cana-de-Açúcar	6.26
##	254	Cana-de-Açúcar	4.00
##	255	Cana-de-Açúcar	3.50
##	256	Cana-de-Açúcar	4.58
##	257	Cana-de-Açúcar	2.46
##	258	Cana-de-Açúcar	4.22
##	259	Cana-de-Açúcar	2.57
##	260	Cana-de-Açúcar	2.54
##	261	Cana-de-Açúcar	3.48
##	262	Cana-de-Açúcar	3.00
##	263	Cana-de-Açúcar	5.02
##	264	Cana-de-Açúcar	5.59
##	265	Cana-de-Açúcar	6.34
##	266	Cana-de-Açúcar	3.70
##	267	Cana-de-Açúcar	5.42
##	268	Cana-de-Açúcar	4.08
##	269	Solo Exposto	3.96
##	270	Cana-de-Açúcar	6.50
##	271	Solo Exposto	6.37
##	272	Solo Exposto	5.91
##	273	Solo Exposto	5.90
##	274	Solo Exposto	5.48
##	275	Solo Exposto	5.70
##	276	Solo Exposto	5.70
##	277	Solo Exposto	4.58
##	278	Solo Exposto	5.80
##	279	Solo Exposto	5.31
##	280	Solo Exposto	6.15

##	281 Milho - Safrinha	7.11
##	282 Milho - Safrinha	6.49
##	283 Milho - Safrinha	6.15
##	284 Milho - Safrinha	3.79
##	285 Milho - Safrinha	5.52
##	286 Milho - Safrinha	3.45
##	287 Milho - Safrinha	5.87
##	288 Solo Exposto	6.52
##	289 Solo Exposto	3.93
##	290 Solo Exposto	4.58
##	291 Solo Exposto	-0.273
##	292 Milho - Safrinha	5.77
##	293 Milho - Safrinha	5.19
##	294 Solo Exposto	4.61
##	295 Solo Exposto	4.47
##	296 Solo Exposto	2.03
##	297 Solo Exposto	4.87
##	298 Solo Exposto	2.87
##	299 Solo Exposto	5.67
##	300 Milho - Safrinha	5.57
##	301 Solo Exposto	4.52
##	302 Solo Exposto	6.32
##	303 Solo Exposto	5.07
##	304 Solo Exposto	5.61
##	305 Solo Exposto	4.72
##	306 Milho - Safrinha	5.50
##	307 Solo Exposto	3.96
##	308 Solo Exposto	4.73
##	309 Solo Exposto	4.68
##	310 Solo Exposto	4.81
##	311 Solo Exposto	5.57
##	312 Solo Exposto	4.20
##	313 Solo Exposto	4.61
##	314 Milho - Safrinha	5.63
##	315 Solo Exposto	3.90
##	316 Solo Exposto	5.41
##	317 Solo Exposto	5.97
##	318 Solo Exposto	5.49
##	319 Solo Exposto	4.63
##	320 Solo Exposto	5.55
##	321 Solo Exposto	5.41
##	322 Solo Exposto	5.68
##	323 Solo Exposto	4.87
##	324 Solo Exposto	6.65
##	325 Solo Exposto	5.39
##	326 Solo Exposto	6.09
##	327 Solo Exposto	4.81
##	328 Solo Exposto	6.82
##	329 Solo Exposto	5.71
##	330 Solo Exposto	5.41
##	331 Solo Exposto	6.15
##	332 Solo Exposto	5.63
##	333 Solo Exposto	6.53
##	334 Solo Exposto	4.51

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##	339	Solo	Exposto	4.28
##	340	Solo	Exposto	3.39
##	341	Solo	Exposto	5.06
##	342	Solo	Exposto	0.136
##	343	Solo	Exposto	2.46
##	344	Solo	Exposto	5.94
##	345	Solo	Exposto	3.28
##	346	Solo	Exposto	2.78
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##	348	Solo	Exposto	4.62
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##	354	Solo	Exposto	5.21
##	355	Solo	Exposto	3.79
##	356	Solo	Exposto	3.91
##	357	Solo	Exposto	5.43
##	358	Solo	Exposto	4.40
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##	361	Solo	Exposto	5.41
##	362	Solo	Exposto	6.25
##	363	Solo	Exposto	4.68
##	364	Solo	Exposto	6.29
##	365	Solo	Exposto	5.24
##	366	Solo	Exposto	5.05
##	367	Solo	Exposto	5.03
##	368	Solo	Exposto	5.32
##	369	Solo	Exposto	5.75
##	370	Solo	Exposto	6.60
##	371	Solo	Exposto	5.09
##	372	Solo	Exposto	5.51
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##	376	Solo	Exposto	5.30
##	377	Solo	Exposto	5.35
##	378	Solo	Exposto	5.06
##	379	Solo	Exposto	5.10
##	380	Solo	Exposto	6.32
##	381	Solo	Exposto	4.68
##	382	Solo	Exposto	5.37
##	383	Solo	Exposto	4.92
##	384	Solo	Exposto	5.47
##	385	Solo	Exposto	5.43
##	386	Solo	Exposto	6.06
##	387	Solo	Exposto	4.87
##	388	Solo	Exposto	5.81

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##	390 Solo Exposto	5.96
##	391 Solo Exposto	7.27
##	392 Solo Exposto	5.01
##	393 Solo Exposto	5.72
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##	395 Solo Exposto	4.67
##	396 Solo Exposto	4.06
##	397 Solo Exposto	3.78
##	398 Solo Exposto	3.36
##	399 Solo Exposto	5.07
##	400 Solo Exposto	4.97
##	401 Solo Exposto	5.06
##	402 Solo Exposto	0.443
##	403 Solo Exposto	5.80
##	404 Solo Exposto	4.12
##	405 Solo Exposto	4.17
##	406 Solo Exposto	3.16
##	407 Solo Exposto	1.11
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##	410 Solo Exposto	4.86
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##	414 Solo Exposto	5.53
##	415 Solo Exposto	4.74
##	416 Solo Exposto	3.54
##	417 Solo Exposto	5.38
##	418 Milho - Safrinha	7.57
##	419 Milho - Safrinha	6.30
##	420 Milho - Safrinha	5.25
##	421 Milho - Safrinha	6.33
##	422 Milho - Safrinha	3.58
##	423 Milho - Safrinha	4.62
##	424 Milho - Safrinha	5.32
##	425 Milho - Safrinha	6.38
##	426 Milho - Safrinha	4.50
##	427 Milho - Safrinha	4.58
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##	439 Cana-de-Açúcar	4.62
##	440 Cana-de-Açúcar	5.24
##	441 Cana-de-Açúcar	4.05
##	442 Cana-de-Açúcar	4.10

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##	447 Cana-de-Açúcar	5.14
##	448 Cana-de-Açúcar	1.97
##	449 Cana-de-Açúcar	4.47
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##	452 Cana-de-Açúcar	4.51
##	453 Cana-de-Açúcar	3.72
##	454 Cana-de-Açúcar	3.69
##	455 Cana-de-Açúcar	3.06
##	456 Cana-de-Açúcar	4.93
##	457 Cana-de-Açúcar	4.70
##	458 Cana-de-Açúcar	4.35
##	459 Cana-de-Açúcar	5.71
##	460 Cana-de-Açúcar	4.29
##	461 Cana-de-Açúcar	4.04
##	462 Cana-de-Açúcar	3.95
##	463 Cana-de-Açúcar	3.55
##	464 Cana-de-Açúcar	5.21
##	465 Cana-de-Açúcar	2.94
##	466 Cana-de-Açúcar	4.90
##	467 Cana-de-Açúcar	4.74
##	468 Cana-de-Açúcar	6.01
##	469 Cana-de-Açúcar	4.36
##	470 Cana-de-Açúcar	2.40
##	471 Cana-de-Açúcar	3.19
##	472 Cana-de-Açúcar	5.72
##	473 Cana-de-Açúcar	3.21
##	474 Cana-de-Açúcar	3.86
##	475 Cana-de-Açúcar	4.21
##	476 Cana-de-Açúcar	6.67
##	477 Cana-de-Açúcar	6.24
##	478 Cana-de-Açúcar	1.42
##	479 Cana-de-Açúcar	4.82
##	480 Cana-de-Açúcar	3.94
##	481 Cana-de-Açúcar	-7.51
##	482 Cana-de-Açúcar	3.92
##	483 Cana-de-Açúcar	3.74
##	484 Cana-de-Açúcar	4.34
##	485 Cana-de-Açúcar	5.79
##	486 Cana-de-Açúcar	6.62
##	487 Cana-de-Açúcar	4.16
##	488 Cana-de-Açúcar	3.77
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##	492 Cana-de-Açúcar	1.67
##	493 Cana-de-Açúcar	4.63
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##	496 Cana-de-Açúcar	6.44

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##	501	Cana-de-Açúcar	1.79
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##	576	Cana-de-Açúcar	5.53
##	577	Cana-de-Açúcar	5.45
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## # ... with 1 more row
```

```
d1 %>%
  dplyr::filter(as.character(classes.lev) != as.character(classes.corr)) %>%
  print(n = 1000)
```

```
## # A tibble: 286 x 18
##   burst_ step_id_ case_   x1_   y1_   x2_   y2_ t1_
## *   <dbl>   <int> <lgl> <dbl> <dbl> <dbl> <dbl> <dtm>
## 1     18    1271 FALSE 3.15e5 7.98e6 3.15e5 7.98e6 2019-05-05 15:30:46
## 2     18    1272  TRUE 3.15e5 7.98e6 3.16e5 7.98e6 2019-05-05 16:00:47
## 3     18    1272 FALSE 3.15e5 7.98e6 3.15e5 7.98e6 2019-05-05 16:00:47
## 4     18    1273 FALSE 3.16e5 7.98e6 3.16e5 7.98e6 2019-05-05 16:30:35
## 5     18    1273 FALSE 3.16e5 7.98e6 3.16e5 7.98e6 2019-05-05 16:30:35
## 6     18    1273 FALSE 3.16e5 7.98e6 3.16e5 7.98e6 2019-05-05 16:30:35
## 7     18    1273 FALSE 3.16e5 7.98e6 3.16e5 7.98e6 2019-05-05 16:30:35
## 8     18    1273 FALSE 3.16e5 7.98e6 3.16e5 7.98e6 2019-05-05 16:30:35
## 9     18    1273 FALSE 3.16e5 7.98e6 3.16e5 7.98e6 2019-05-05 16:30:35
## 10    18    1273 FALSE 3.16e5 7.98e6 3.16e5 7.98e6 2019-05-05 16:30:35
## 11    18    1273 FALSE 3.16e5 7.98e6 3.16e5 7.98e6 2019-05-05 16:30:35
## 12    18    1273 FALSE 3.16e5 7.98e6 3.16e5 7.98e6 2019-05-05 16:30:35
## 13    18    1276 FALSE 3.17e5 7.98e6 3.17e5 7.98e6 2019-05-05 18:00:46
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## 15    19    1279 FALSE 3.17e5 7.98e6 3.18e5 7.98e6 2019-05-05 21:00:48
## 16    19    1281  TRUE 3.17e5 7.98e6 3.17e5 7.98e6 2019-05-05 22:02:06
## 17    19    1282  TRUE 3.17e5 7.98e6 3.17e5 7.98e6 2019-05-05 22:30:32
## 18    19    1282 FALSE 3.17e5 7.98e6 3.17e5 7.98e6 2019-05-05 22:30:32
## 19    19    1282 FALSE 3.17e5 7.98e6 3.17e5 7.98e6 2019-05-05 22:30:32
## 20    19    1282 FALSE 3.17e5 7.98e6 3.17e5 7.98e6 2019-05-05 22:30:32
## 21    19    1282 FALSE 3.17e5 7.98e6 3.17e5 7.98e6 2019-05-05 22:30:32
## 22    19    1282 FALSE 3.17e5 7.98e6 3.17e5 7.98e6 2019-05-05 22:30:32
## 23    19    1282 FALSE 3.17e5 7.98e6 3.17e5 7.98e6 2019-05-05 22:30:32
## 24    19    1282 FALSE 3.17e5 7.98e6 3.17e5 7.98e6 2019-05-05 22:30:32
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## 26    19    1282 FALSE 3.17e5 7.98e6 3.17e5 7.98e6 2019-05-05 22:30:32
## 27    19    1283  TRUE 3.17e5 7.98e6 3.18e5 7.97e6 2019-05-05 23:00:09
## 28    19    1283 FALSE 3.17e5 7.98e6 3.18e5 7.98e6 2019-05-05 23:00:09
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##	108	26	1454	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-09	23:30:11
##	109	26	1455	TRUE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	00:00:21
##	110	26	1455	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	00:00:21
##	111	26	1455	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	00:00:21
##	112	26	1455	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	00:00:21
##	113	26	1456	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	00:30:46
##	114	26	1456	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	00:30:46
##	115	26	1456	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	00:30:46
##	116	26	1456	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	00:30:46
##	117	26	1457	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	01:00:47
##	118	26	1457	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	01:00:47
##	119	26	1458	TRUE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	01:30:34
##	120	26	1458	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	01:30:34
##	121	26	1458	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	01:30:34
##	122	26	1458	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	01:30:34
##	123	26	1459	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	02:00:09
##	124	26	1459	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	02:00:09
##	125	26	1459	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	02:00:09
##	126	26	1459	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	02:00:09
##	127	26	1459	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	02:00:09
##	128	26	1459	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	02:00:09
##	129	26	1459	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	02:00:09
##	130	26	1459	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	02:00:09
##	131	26	1460	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	02:30:10
##	132	26	1461	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	03:00:47
##	133	26	1463	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	04:02:01
##	134	26	1464	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	04:30:38
##	135	26	1464	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	04:30:38
##	136	26	1469	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	07:00:47

## 137	26	1469	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-10	07:00:47
## 138	36	1690	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-15	14:30:46
## 139	53	1865	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-20	10:30:47
## 140	59	2113	FALSE	3.15e5	7.98e6	3.15e5	7.98e6	2019-05-26	00:30:38
## 141	61	2180	FALSE	3.20e5	7.98e6	3.19e5	7.98e6	2019-05-27	13:01:38
## 142	61	2183	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-27	14:30:32
## 143	61	2183	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-27	14:30:32
## 144	61	2186	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-27	16:00:23
## 145	61	2186	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-27	16:00:23
## 146	67	2343	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-31	08:02:49
## 147	67	2345	FALSE	3.20e5	7.98e6	3.20e5	7.98e6	2019-05-31	09:00:08
## 148	67	2346	FALSE	3.20e5	7.97e6	3.20e5	7.98e6	2019-05-31	09:30:20
## 149	67	2346	FALSE	3.20e5	7.97e6	3.19e5	7.97e6	2019-05-31	09:30:20
## 150	67	2347	FALSE	3.20e5	7.97e6	3.19e5	7.97e6	2019-05-31	10:00:38
## 151	69	2367	TRUE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	00:00:11
## 152	69	2368	TRUE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	00:30:22
## 153	69	2368	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	00:30:22
## 154	69	2368	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	00:30:22
## 155	69	2368	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	00:30:22
## 156	69	2369	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	01:00:38
## 157	69	2369	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	01:00:38
## 158	69	2369	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	01:00:38
## 159	69	2369	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	01:00:38
## 160	69	2369	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	01:00:38
## 161	69	2370	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	01:30:47
## 162	69	2370	FALSE	3.19e5	7.97e6	3.18e5	7.97e6	2019-06-01	01:30:47
## 163	69	2370	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	01:30:47
## 164	69	2371	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	02:00:46
## 165	69	2371	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	02:00:46
## 166	69	2371	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	02:00:46
## 167	69	2371	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	02:00:46
## 168	69	2372	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	02:30:47
## 169	69	2372	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	02:30:47
## 170	69	2372	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	02:30:47
## 171	69	2373	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	03:01:01
## 172	69	2373	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	03:01:01
## 173	69	2374	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	03:30:12
## 174	69	2374	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	03:30:12
## 175	69	2374	FALSE	3.19e5	7.97e6	3.18e5	7.97e6	2019-06-01	03:30:12
## 176	69	2374	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	03:30:12
## 177	69	2375	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	04:00:46
## 178	69	2375	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	04:00:46
## 179	69	2377	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	05:00:48
## 180	69	2377	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	05:00:48
## 181	70	2379	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	07:30:46
## 182	70	2380	FALSE	3.19e5	7.97e6	3.18e5	7.97e6	2019-06-01	08:00:47
## 183	70	2380	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	08:00:47
## 184	70	2381	FALSE	3.19e5	7.97e6	3.18e5	7.97e6	2019-06-01	08:30:23
## 185	70	2381	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	08:30:23
## 186	70	2384	FALSE	3.19e5	7.97e6	3.18e5	7.97e6	2019-06-01	10:01:02
## 187	70	2385	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	10:30:46
## 188	70	2392	FALSE	3.20e5	7.97e6	3.19e5	7.97e6	2019-06-01	14:00:45
## 189	70	2392	FALSE	3.20e5	7.97e6	3.19e5	7.98e6	2019-06-01	14:00:45
## 190	70	2392	FALSE	3.20e5	7.97e6	3.19e5	7.97e6	2019-06-01	14:00:45

##	191	70	2393	FALSE	3.20e5	7.97e6	3.19e5	7.97e6	2019-06-01	14:30:47
##	192	71	2407	TRUE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	23:00:47
##	193	71	2407	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	23:00:47
##	194	71	2407	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	23:00:47
##	195	71	2407	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	23:00:47
##	196	71	2407	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	23:00:47
##	197	71	2407	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	23:00:47
##	198	71	2407	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	23:00:47
##	199	71	2407	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	23:00:47
##	200	71	2407	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	23:00:47
##	201	71	2407	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	23:00:47
##	202	71	2408	FALSE	3.19e5	7.97e6	3.19e5	7.98e6	2019-06-01	23:30:46
##	203	71	2408	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	23:30:46
##	204	71	2408	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	23:30:46
##	205	71	2408	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	23:30:46
##	206	71	2408	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	23:30:46
##	207	71	2408	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	23:30:46
##	208	71	2408	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	23:30:46
##	209	71	2408	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	23:30:46
##	210	71	2408	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-01	23:30:46
##	211	71	2409	FALSE	3.19e5	7.97e6	3.20e5	7.97e6	2019-06-02	00:00:47
##	212	71	2409	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-02	00:00:47
##	213	71	2409	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-02	00:00:47
##	214	71	2409	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-02	00:00:47
##	215	71	2409	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-02	00:00:47
##	216	71	2411	FALSE	3.20e5	7.97e6	3.19e5	7.97e6	2019-06-02	01:00:47
##	217	71	2413	FALSE	3.20e5	7.97e6	3.19e5	7.97e6	2019-06-02	02:00:47
##	218	71	2413	FALSE	3.20e5	7.97e6	3.19e5	7.97e6	2019-06-02	02:00:47
##	219	71	2413	FALSE	3.20e5	7.97e6	3.19e5	7.97e6	2019-06-02	02:00:47
##	220	71	2414	FALSE	3.19e5	7.97e6	3.19e5	7.97e6	2019-06-02	02:30:46
##	221	71	2416	FALSE	3.20e5	7.97e6	3.19e5	7.97e6	2019-06-02	03:30:49
##	222	71	2417	FALSE	3.20e5	7.97e6	3.19e5	7.97e6	2019-06-02	04:00:46
##	223	71	2418	FALSE	3.20e5	7.97e6	3.19e5	7.97e6	2019-06-02	04:30:49
##	224	71	2420	FALSE	3.20e5	7.97e6	3.19e5	7.97e6	2019-06-02	05:30:47
##	225	71	2420	FALSE	3.20e5	7.97e6	3.19e5	7.97e6	2019-06-02	05:30:47
##	226	71	2421	FALSE	3.20e5	7.97e6	3.19e5	7.97e6	2019-06-02	06:00:55
##	227	71	2421	FALSE	3.20e5	7.97e6				

```
## 245      71      2429 FALSE 3.20e5 7.97e6 3.19e5 7.97e6 2019-06-02 10:01:19
## 246      71      2429 FALSE 3.20e5 7.97e6 3.19e5 7.97e6 2019-06-02 10:01:19
## 247      71      2437 FALSE 3.20e5 7.97e6 3.19e5 7.97e6 2019-06-02 14:02:13
## 248      72      2460 FALSE 3.20e5 7.97e6 3.19e5 7.97e6 2019-06-03 03:00:12
## 249      72      2465 FALSE 3.20e5 7.97e6 3.19e5 7.98e6 2019-06-03 05:30:08
## 250      72      2498 FALSE 3.19e5 7.97e6 3.19e5 7.97e6 2019-06-03 22:00:09
## 251      72      2498 FALSE 3.19e5 7.97e6 3.19e5 7.97e6 2019-06-03 22:00:09
## 252      72      2498 FALSE 3.19e5 7.97e6 3.19e5 7.97e6 2019-06-03 22:00:09
## 253      72      2499 FALSE 3.19e5 7.97e6 3.19e5 7.97e6 2019-06-03 22:30:06
## 254      72      2499 FALSE 3.19e5 7.97e6 3.19e5 7.97e6 2019-06-03 22:30:06
## 255      72      2499 FALSE 3.19e5 7.97e6 3.19e5 7.97e6 2019-06-03 22:30:06
## 256      72      2500 TRUE  3.19e5 7.97e6 3.19e5 7.97e6 2019-06-03 23:00:09
## 257      72      2500 FALSE 3.19e5 7.97e6 3.19e5 7.97e6 2019-06-03 23:00:09
## 258      72      2500 FALSE 3.19e5 7.97e6 3.19e5 7.97e6 2019-06-03 23:00:09
## 259      72      2501 FALSE 3.19e5 7.97e6 3.19e5 7.97e6 2019-06-03 23:30:48
## 260      72      2501 FALSE 3.19e5 7.97e6 3.19e5 7.97e6 2019-06-03 23:30:48
## 261      72      2501 FALSE 3.19e5 7.97e6 3.19e5 7.97e6 2019-06-03 23:30:48
## 262      72      2501 FALSE 3.19e5 7.97e6 3.19e5 7.97e6 2019-06-03 23:30:48
## 263      72      2501 FALSE 3.19e5 7.97e6 3.19e5 7.97e6 2019-06-03 23:30:48
## 264      72      2501 FALSE 3.19e5 7.97e6 3.19e5 7.97e6 2019-06-03 23:30:48
## 265      72      2501 FALSE 3.19e5 7.97e6 3.19e5 7.97e6 2019-06-03 23:30:48
## 266      72      2501 FALSE 3.19e5 7.97e6 3.19e5 7.97e6 2019-06-03 23:30:48
## 267      72      2501 FALSE 3.19e5 7.97e6 3.19e5 7.97e6 2019-06-03 23:30:48
## 268      72      2502 FALSE 3.19e5 7.97e6 3.19e5 7.97e6 2019-06-04 00:01:01
## 269      72      2503 FALSE 3.20e5 7.97e6 3.19e5 7.97e6 2019-06-04 00:30:06
## 270      72      2503 FALSE 3.20e5 7.97e6 3.19e5 7.98e6 2019-06-04 00:30:06
## 271      72      2504 FALSE 3.20e5 7.97e6 3.19e5 7.97e6 2019-06-04 01:00:10
## 272      72      2504 FALSE 3.20e5 7.97e6 3.19e5 7.97e6 2019-06-04 01:00:10
## 273      72      2505 FALSE 3.19e5 7.97e6 3.19e5 7.97e6 2019-06-04 01:30:08
## 274      72      2505 FALSE 3.19e5 7.97e6 3.19e5 7.97e6 2019-06-04 01:30:08
## 275      72      2506 FALSE 3.20e5 7.97e6 3.19e5 7.97e6 2019-06-04 02:00:08
## 276      73      2575 TRUE  3.14e5 7.98e6 3.16e5 7.98e6 2019-06-05 15:00:47
## 277      73      2576 FALSE 3.16e5 7.98e6 3.16e5 7.98e6 2019-06-05 15:30:10
## 278      73      2576 FALSE 3.16e5 7.98e6 3.16e5 7.98e6 2019-06-05 15:30:10
## 279      73      2576 FALSE 3.16e5 7.98e6 3.16e5 7.98e6 2019-06-05 15:30:10
## 280      73      2576 FALSE 3.16e5 7.98e6 3.16e5 7.98e6 2019-06-05 15:30:10
## 281      73      2576 FALSE 3.16e5 7.98e6 3.16e5 7.98e6 2019-06-05 15:30:10
## 282      73      2576 FALSE 3.16e5 7.98e6 3.16e5 7.98e6 2019-06-05 15:30:10
## 283      73      2576 FALSE 3.16e5 7.98e6 3.16e5 7.98e6 2019-06-05 15:30:10
## 284      73      2577 FALSE 3.15e5 7.98e6 3.16e5 7.98e6 2019-06-05 16:00:37
## 285      73      2578 FALSE 3.15e5 7.98e6 3.15e5 7.98e6 2019-06-05 16:30:25
## 286      73      2671 FALSE 3.20e5 7.98e6 3.19e5 7.98e6 2019-06-07 15:00:29
## # ... with 10 more variables: t2_ <dtm>, dt_ <drtn>, sl_ <dbl>,
## #   ta_ <dbl>, classes <dbl>, julian.date <dbl>, classes.lev <fct>,
## #   dtm.harvest <date>, classes.corr <fct>, log_sl_ <dbl>
```

```
##### !!!!!!!!!!!verificar
```

```
# run models
m1 <- d1 %>%
  amt::fit_clogit(case_ ~ classes.corr + strata(step_id_))
m1
```

```
## $model
## Call:
```

```

## survival::clogit(formula, data = data, ...)
##
##
##      coef exp(coef) se(coef)      z      p
## classes.corrCampo Seco      0.2202      1.2463      0.3269      0.674 0.500584
## classes.corrCampo Úmido     -0.4097      0.6639      0.3899     -1.051 0.293419
## classes.corrCana-de-Açúcar    1.1165      3.0541      0.3154      3.540 0.000401
## classes.corrMata de Galeria    1.5601      4.7595      0.4374      3.567 0.000361
## classes.corrMilho - Safrinha   1.3518      3.8643      0.3115      4.339 1.43e-05
## classes.corrSolo Exposto      0.3029      1.3538      0.3534      0.857 0.391365
##
## Likelihood ratio test=123.1 on 6 df, p=< 2.2e-16
## n= 43350, number of events= 4335
##
## $sl_
## $sl_$name
## [1] "gamma"
##
## $sl_$fit
## Fitting of the distribution ' gamma ' by maximum likelihood
## Parameters:
##      estimate Std. Error
## shape 0.534037714      NA
## rate  0.004576354      NA
##
##
## $ta_
## $ta_$name
## [1] "vonmises"
##
## $ta_$params
## [1] 0.1170425
##
## $ta_$fit
##
## Call:
## circular::mle.vonmises(x = x)
##
## mu: 0.2976 ( 0.1837 )
##
## kappa: 0.117 ( 0.02153 )
##
##
## $more
## NULL
##
## attr("class")
## [1] "fit_clogit" "list"
m2 <- d1 %>%
  amt::fit_clogit(case_ ~ classes.corr + log_sl_ + strata(step_id_))
m2

## $model
## Call:

```

```

## survival::clogit(formula, data = data, ...)
##
##
##               coef exp(coef) se(coef)      z      p
## classes.corrCampo Seco      0.221496  1.247943  0.326218  0.679 0.497149
## classes.corrCampo Úmido     -0.413072  0.661614  0.389230 -1.061 0.288574
## classes.corrCana-de-Açúcar   1.126683  3.085404  0.314873  3.578 0.000346
## classes.corrMata de Galeria  1.569760  4.805494  0.435840  3.602 0.000316
## classes.corrMilho - Safrinha 1.363761  3.910875  0.311030  4.385 1.16e-05
## classes.corrSolo Exposto    0.306364  1.358477  0.352616  0.869 0.384939
## log_sl_                     0.011925  1.011996  0.007875  1.514 0.129956
##
## Likelihood ratio test=125.4 on 7 df, p=< 2.2e-16
## n= 43350, number of events= 4335
##
## $sl_
## $sl_$name
## [1] "gamma"
##
## $sl_$fit
## Fitting of the distribution ' gamma ' by maximum likelihood
## Parameters:
##      estimate Std. Error
## shape 0.534037714      NA
## rate  0.004576354      NA
##
##
## $ta_
## $ta_$name
## [1] "vonmises"
##
## $ta_$params
## [1] 0.1170425
##
## $ta_$fit
##
## Call:
## circular::mle.vonmises(x = x)
##
## mu: 0.2976 ( 0.1837 )
##
## kappa: 0.117 ( 0.02153 )
##
##
##
## $more
## NULL
##
## attr("class")
## [1] "fit_clogit" "list"

#install.load::install_load('ResourceSelection')
# m1 <- ResourceSelection::rspf(case_ ~ classes.corr, data = d1, m = ifelse(d1$case_, 1, 2))
# m1

```

```
AIC(m1$model)
```

```
## [1] 19852.31
```

```
summary(m1)
```

```
## Call:
```

```
## coxph(formula = Surv(rep(1, 43350L), case_) ~ classes.corr +  
##       strata(step_id_), data = data, method = "exact")
```

```
##
```

```
## n= 43350, number of events= 4335
```

```
##
```

	coef	exp(coef)	se(coef)	z	Pr(> z)
## classes.corrCampo Seco	0.2202	1.2463	0.3269	0.674	0.500584
## classes.corrCampo Úmido	-0.4097	0.6639	0.3899	-1.051	0.293419
## classes.corrCana-de-Açúcar	1.1165	3.0541	0.3154	3.540	0.000401
## classes.corrMata de Galeria	1.5601	4.7595	0.4374	3.567	0.000361
## classes.corrMilho - Safrinha	1.3518	3.8643	0.3115	4.339	1.43e-05
## classes.corrSolo Exposto	0.3029	1.3538	0.3534	0.857	0.391365

```
##
```

```
## classes.corrCampo Seco
```

```
## classes.corrCampo Úmido
```

```
## classes.corrCana-de-Açúcar ***
```

```
## classes.corrMata de Galeria ***
```

```
## classes.corrMilho - Safrinha ***
```

```
## classes.corrSolo Exposto
```

```
## ---
```

```
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
##
```

	exp(coef)	exp(-coef)	lower .95	upper .95
## classes.corrCampo Seco	1.2463	0.8024	0.6567	2.365
## classes.corrCampo Úmido	0.6639	1.5064	0.3091	1.426
## classes.corrCana-de-Açúcar	3.0541	0.3274	1.6458	5.667
## classes.corrMata de Galeria	4.7595	0.2101	2.0194	11.217
## classes.corrMilho - Safrinha	3.8643	0.2588	2.0984	7.116
## classes.corrSolo Exposto	1.3538	0.7387	0.6772	2.706

```
##
```

```
## Concordance= 0.518 (se = 0.002 )
```

```
## Likelihood ratio test= 123.1 on 6 df, p=<2e-16
```

```
## Wald test = 101 on 6 df, p=<2e-16
```

```
## Score (logrank) test = 105 on 6 df, p=<2e-16
```

```
s <- summary(m1$model)$coefficients
```

```
s
```

	coef	exp(coef)	se(coef)	z
## classes.corrCampo Seco	0.2201677	1.2462857	0.3268660	0.6735717
## classes.corrCampo Úmido	-0.4096908	0.6638555	0.3899400	-1.0506508
## classes.corrCana-de-Açúcar	1.1164829	3.0540936	0.3154350	3.5395020
## classes.corrMata de Galeria	1.5601399	4.7594872	0.4374138	3.5667372
## classes.corrMilho - Safrinha	1.3517855	3.8643190	0.3115326	4.3391458
## classes.corrSolo Exposto	0.3029113	1.3537944	0.3533961	0.8571439
##	Pr(> z)			
## classes.corrCampo Seco	5.005837e-01			
## classes.corrCampo Úmido	2.934190e-01			

```
## classes.corrCana-de-Açúcar 4.008828e-04
## classes.corrMata de Galeria 3.614536e-04
## classes.corrMilho - Safrinha 1.430376e-05
## classes.corrSolo Exposto 3.913654e-01

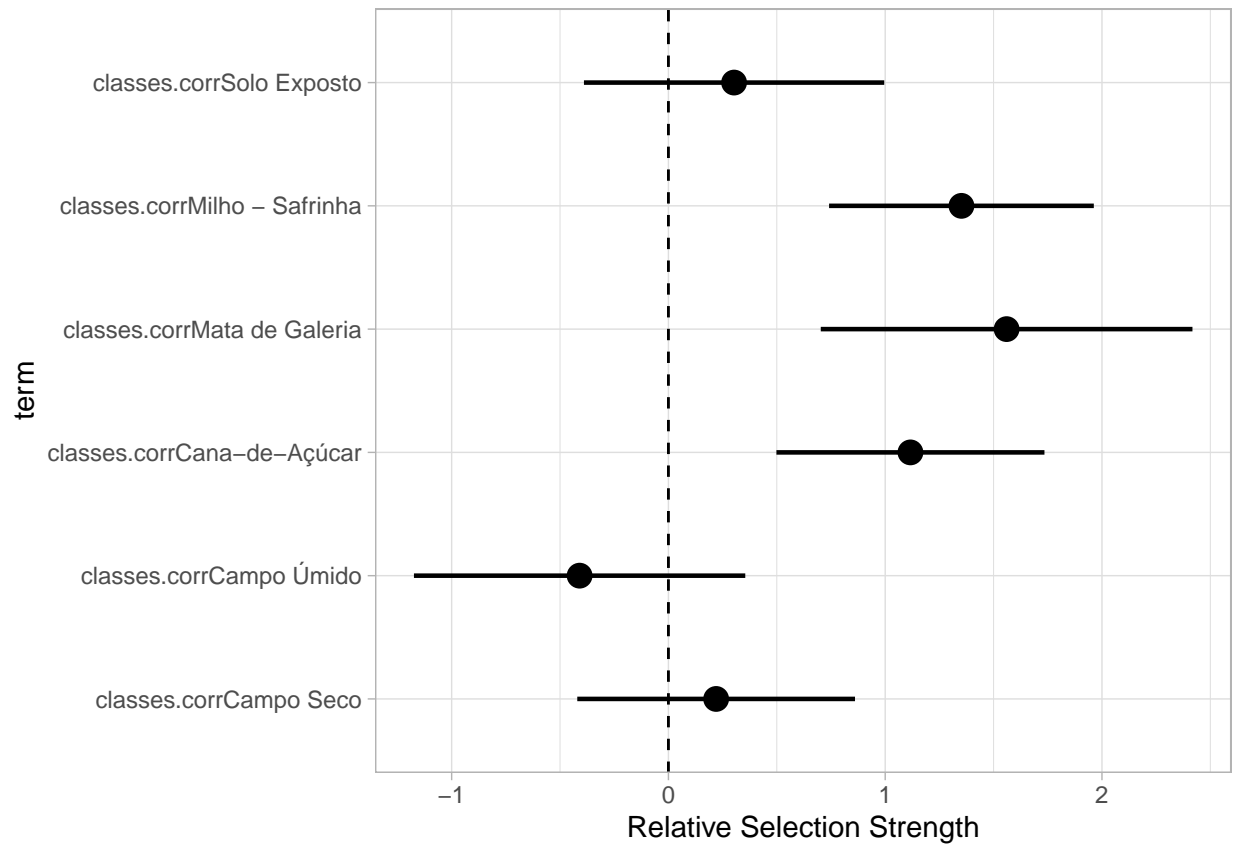
print(knitr::kable(s, digits = 4))

##
##
##          coef    exp(coef)    se(coef)      z    Pr(>|z|)
## -----
## classes.corrCampo Seco      0.2202      1.2463      0.3269      0.6736      0.5006
## classes.corrCampo Úmido    -0.4097      0.6639      0.3899     -1.0507      0.2934
## classes.corrCana-de-Açúcar  1.1165      3.0541      0.3154      3.5395      0.0004
## classes.corrMata de Galeria  1.5601      4.7595      0.4374      3.5667      0.0004
## classes.corrMilho - Safrinha 1.3518      3.8643      0.3115      4.3391      0.0000
## classes.corrSolo Exposto   0.3029      1.3538      0.3534      0.8571      0.3914

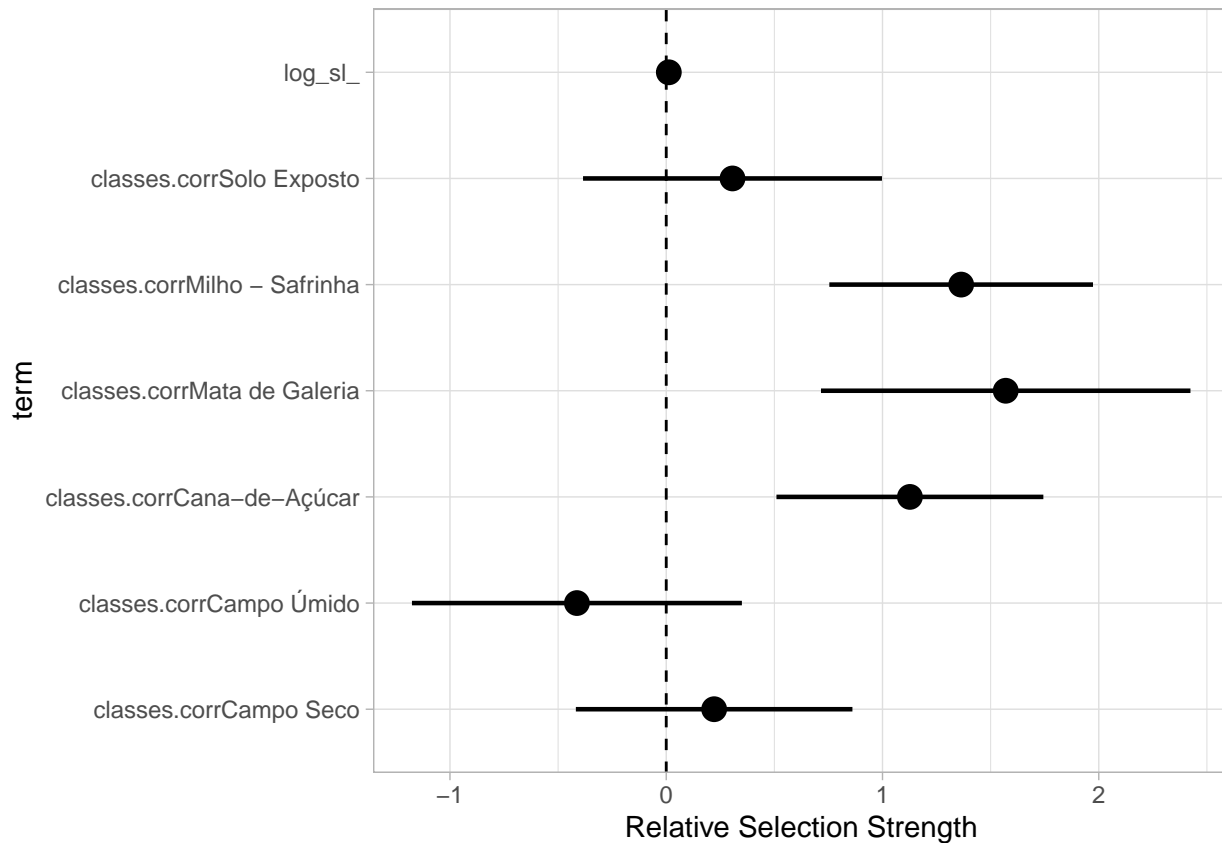
# plot
broom::tidy(m1$model)

## # A tibble: 6 x 7
##   term                estimate std.error statistic p.value conf.low conf.high
##   <chr>                <dbl>    <dbl>    <dbl>    <dbl>    <dbl>    <dbl>
## 1 classes.corrCamp~  0.220      0.327      0.674 5.01e-1  -0.420      0.861
## 2 classes.corrCamp~ -0.410      0.390     -1.05 2.93e-1  -1.17      0.355
## 3 classes.corrCana~  1.12       0.315      3.54 4.01e-4   0.498      1.73
## 4 classes.corrMata~  1.56       0.437      3.57 3.61e-4   0.703      2.42
## 5 classes.corrMilh~  1.35       0.312      4.34 1.43e-5   0.741      1.96
## 6 classes.corrSolo~  0.303      0.353      0.857 3.91e-1  -0.390      0.996

m1.plot <- broom::tidy(m1$model) %>%
  ggplot(aes(x = term, y = estimate)) +
  geom_pointrange(aes(ymin = conf.low, ymax = conf.high),
    position = position_dodge(width = 0.7), size = 0.8) +
  geom_hline(yintercept = 0, lty = 2) +
  labs(y = "Relative Selection Strength") +
  theme_light() +
  coord_flip()
m1.plot
```



```
m2.plot <- broom::tidy(m2$model) %>%
  ggplot(aes(x = term, y = estimate)) +
  geom_pointrange(aes(ymin = conf.low, ymax = conf.high),
                  position = position_dodge(width = 0.7), size = 0.8) +
  geom_hline(yintercept = 0, lty = 2) +
  labs(y = "Relative Selection Strength") +
  theme_light() +
  coord_flip()
m2.plot
```



```
mov.track %>%
  nest(-name) %>%
  mutate(samp_rate = map(data, function(x) amt::summarize_sampling_rate(x))) %>%
  dplyr::select(name, samp_rate) %>%
  unnest
```

```
## Warning: All elements of `...` must be named.
## Did you want `data = c(x_, y_, t_)`?
```

```
## Warning: `cols` is now required.
## Please use `cols = c(samp_rate)`
```

```
## # A tibble: 4 x 10
##   name      min    q1    median mean    q3    max    sd    n unit
##   <chr>    <table> <table> <tabl> <tabl> <tabl> <tabl> <dbl> <int> <chr>
## 1 Olhos D'Ag~ 27.183~ 29.766~ 30      31.26~ 30.21~ 5762.~ 71.8   6407 min
## 2 Olhos D'Ag~ 27.633~ 29.766~ 30      30.86~ 30.20~ 1949.~ 36.8   2728 min
## 3 Pontal     27.383~ 29.783~ 30      30.29~ 30.20~ 150.~  3.65   8841 min
## 4 Alto Formo~ 27.250~ 29.800~ 30      30.89~ 30.23~ 181.~  7.04   4524 min
```

```
mov.track.rsp.all <- mov.track %>%
  nest(-name) %>%
  mutate(trk = map(data, function(d) {
    d %>%
      amt::track_resample(rate = minutes(30), tolerance = minutes(10)) %>%
      amt::filter_min_n_burst(min_n = 3) %>%
      amt::transform_coords(crs_to = coord.system) %>%
      amt::steps_by_burst() %>%
```



```

    amt::random_steps(n = 9) %>%
    amt::extract_covariates(maps, when = 2) %>%
    mutate(classes.lev = factor(classes, levels = 1:length(lu.classes), labels = lu.classes),
           dtm.harvest = ymd('1970-01-01') + days(julian.date),
           classes.corr = ifelse((classes.lev == lu.classes[3]) & (t2_ > dtm.harvest) & (t2_ < dtm.harvest),
                                lu.classes[7], as.character(classes.lev)),
           classes.corr = as.factor(ifelse((classes.corr == lu.classes[6]) & (t2_ > dtm.harvest) & (t2_ < dtm.harvest),
                                           lu.classes[7], as.character(classes.corr))),
           classes.corr = relevel(classes.corr, lu.classes[4])) %>%
    dplyr::filter(!is.na(classes.corr)) %>%
    mutate(log_sl_ = log(sl_))
  )))

## Warning: All elements of `...` must be named.
## Did you want `data = c(x_, y_, t_)`?

## Warning in random_steps.steps_xy(., n = 9): Step-lengths or turning angles
## contained NA, which were removed.

## Warning in random_steps.steps_xy(., n = 9): Step-lengths or turning angles
## contained NA, which were removed.

## Warning in random_steps.steps_xy(., n = 9): Step-lengths or turning angles
## contained NA, which were removed.

## Warning in random_steps.steps_xy(., n = 9): Step-lengths or turning angles
## contained NA, which were removed.

# check
mov.track.rsp.all %>%
  dplyr::select(-data) %>%
  unnest(cols = trk)

## # A tibble: 217,158 x 19
##   name burst_ step_id_ case_   x1_   y1_   x2_   y2_
##   <chr> <dbl>   <int> <lgl> <dbl> <dbl> <dbl> <dbl>
## 1 Olho~     1       1 TRUE  2.99e5 7.97e6 2.98e5 7.97e6
## 2 Olho~     1       1 FALSE 2.99e5 7.97e6 2.99e5 7.97e6
## 3 Olho~     1       1 FALSE 2.99e5 7.97e6 2.99e5 7.97e6
## 4 Olho~     1       1 FALSE 2.99e5 7.97e6 2.99e5 7.97e6
## 5 Olho~     1       1 FALSE 2.99e5 7.97e6 2.99e5 7.97e6
## 6 Olho~     1       1 FALSE 2.99e5 7.97e6 2.99e5 7.97e6
## 7 Olho~     1       1 FALSE 2.99e5 7.97e6 2.99e5 7.97e6
## 8 Olho~     1       1 FALSE 2.99e5 7.97e6 2.99e5 7.97e6
## 9 Olho~     1       1 FALSE 2.99e5 7.97e6 2.98e5 7.97e6
## 10 Olho~    1       1 FALSE 2.99e5 7.97e6 2.99e5 7.97e6
## # ... with 217,148 more rows, and 11 more variables: t1_ <dtm>,
## #   t2_ <dtm>, dt_ <drtm>, sl_ <dbl>, ta_ <dbl>, classes <dbl>,
## #   julian.date <dbl>, classes.lev <fct>, dtm.harvest <date>,
## #   classes.corr <fct>, log_sl_ <dbl>

mov.track.rsp.all %>%
  dplyr::select(-data) %>%
  unnest(cols = trk) %>%
  dplyr::filter(as.character(classes.lev) != as.character(classes.corr)) %>%
  print(n = 1000)

```

```
## # A tibble: 7,129 x 19
##   name burst_ step_id_ case_ x1_ y1_ x2_ y2_
##   <chr> <dbl> <int> <lgl> <dbl> <dbl> <dbl> <dbl>
## 1 Olho~ 37 5672 TRUE 2.98e5 7.98e6 2.97e5 7.97e6
## 2 Olho~ 37 5673 TRUE 2.97e5 7.97e6 2.98e5 7.97e6
## 3 Olho~ 37 5673 FALSE 2.97e5 7.97e6 2.97e5 7.97e6
## 4 Olho~ 37 5673 FALSE 2.97e5 7.97e6 2.97e5 7.97e6
## 5 Olho~ 37 5673 FALSE 2.97e5 7.97e6 2.97e5 7.97e6
## 6 Olho~ 37 5674 FALSE 2.98e5 7.97e6 2.97e5 7.97e6
## 7 Olho~ 37 5674 FALSE 2.98e5 7.97e6 2.98e5 7.97e6
## 8 Olho~ 37 5674 FALSE 2.98e5 7.97e6 2.98e5 7.97e6
## 9 Olho~ 37 5674 FALSE 2.98e5 7.97e6 2.98e5 7.97e6
## 10 Olho~ 37 5674 FALSE 2.98e5 7.97e6 2.98e5 7.97e6
## 11 Olho~ 37 5674 FALSE 2.98e5 7.97e6 2.98e5 7.97e6
## 12 Olho~ 37 5675 FALSE 2.98e5 7.97e6 2.98e5 7.97e6
## 13 Olho~ 37 5675 FALSE 2.98e5 7.97e6 2.98e5 7.97e6
## 14 Olho~ 37 5676 FALSE 2.98e5 7.97e6 2.98e5 7.97e6
## 15 Olho~ 37 5678 FALSE 2.99e5 7.97e6 2.99e5 7.97e6
## 16 Olho~ 37 5678 FALSE 2.99e5 7.97e6 2.99e5 7.97e6
## 17 Olho~ 37 5678 FALSE 2.99e5 7.97e6 2.99e5 7.97e6
## 18 Olho~ 37 5678 FALSE 2.99e5 7.97e6 2.99e5 7.97e6
## 19 Olho~ 37 5678 FALSE 2.99e5 7.97e6 2.99e5 7.97e6
## 20 Olho~ 37 5678 FALSE 2.99e5 7.97e6 2.99e5 7.97e6
## 21 Olho~ 37 5679 TRUE 2.99e5 7.97e6 2.99e5 7.97e6
## 22 Olho~ 37 5679 FALSE 2.99e5 7.97e6 2.99e5 7.97e6
## 23 Olho~ 37 5679 FALSE 2.99e5 7.97e6 2.98e5 7.97e6
## 24 Olho~ 37 5679 FALSE 2.99e5 7.97e6 2.99e5 7.97e6
## 25 Olho~ 37 5680 FALSE 2.99e5 7.97e6 2.99e5 7.97e6
## 26 Olho~ 37 5680 FALSE 2.99e5 7.97e6 2.99e5 7.97e6
## 27 Olho~ 37 5680 FALSE 2.99e5 7.97e6 2.99e5 7.97e6
## 28 Olho~ 37 5680 FALSE 2.99e5 7.97e6 2.99e5 7.97e6
## 29 Olho~ 37 5680 FALSE 2.99e5 7.97e6 2.99e5 7.97e6
## 30 Olho~ 37 5680 FALSE 2.99e5 7.97e6 2.99e5 7.97e6
## 31 Olho~ 37 5680 FALSE 2.99e5 7.97e6 2.99e5 7.97e6
## 32 Olho~ 37 5680 FALSE 2.99e5 7.97e6 2.99e5 7.97e6
## 33 Olho~ 37 5699 FALSE 2.98e5 7.98e6 2.98e5 7.97e6
## 34 Olho~ 37 5737 TRUE 2.98e5 7.97e6 2.98e5 7.97e6
## 35 Olho~ 37 5738 FALSE 2.98e5 7.97e6 2.98e5 7.97e6
## 36 Olho~ 37 5738 FALSE 2.98e5 7.97e6 2.98e5 7.97e6
## 37 Olho~ 37 5738 FALSE 2.98e5 7.97e6 2.98e5 7.97e6
## 38 Olho~ 37 5738 FALSE 2.98e5 7.97e6 2.98e5 7.97e6
## 39 Olho~ 37 5738 FALSE 2.98e5 7.97e6 2.98e5 7.97e6
## 40 Olho~ 37 5738 FALSE 2.98e5 7.97e6 2.98e5 7.97e6
## 41 Olho~ 37 5741 FALSE 2.98e5 7.97e6 2.97e5 7.97e6
## 42 Olho~ 37 5742 TRUE 2.98e5 7.97e6 2.98e5 7.97e6
## 43 Olho~ 37 5743 FALSE 2.98e5 7.97e6 2.98e5 7.97e6
## 44 Olho~ 37 5743 FALSE 2.98e5 7.97e6 2.98e5 7.97e6
## 45 Olho~ 37 5743 FALSE 2.98e5 7.97e6 2.98e5 7.97e6
## 46 Olho~ 37 5743 FALSE 2.98e5 7.97e6 2.98e5 7.97e6
## 47 Olho~ 37 5743 FALSE 2.98e5 7.97e6 2.98e5 7.97e6
## 48 Olho~ 37 5743 FALSE 2.98e5 7.97e6 2.98e5 7.97e6
## 49 Olho~ 37 5743 FALSE 2.98e5 7.97e6 2.98e5 7.97e6
```

##	50	0lho~	40	5776	TRUE	2.98e5	7.98e6	2.97e5	7.97e6
##	51	0lho~	40	5777	TRUE	2.97e5	7.97e6	2.97e5	7.97e6
##	52	0lho~	40	5777	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	53	0lho~	40	5777	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	54	0lho~	40	5777	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	55	0lho~	40	5777	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	56	0lho~	40	5777	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	57	0lho~	40	5777	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	58	0lho~	40	5777	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	59	0lho~	40	5778	TRUE	2.97e5	7.97e6	2.98e5	7.97e6
##	60	0lho~	40	5778	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	61	0lho~	40	5778	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	62	0lho~	40	5778	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	63	0lho~	40	5778	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	64	0lho~	40	5778	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	65	0lho~	40	5778	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	66	0lho~	40	5779	FALSE	2.98e5	7.97e6	2.97e5	7.97e6
##	67	0lho~	40	5779	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	68	0lho~	40	5779	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	69	0lho~	40	5779	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	70	0lho~	40	5779	FALSE	2.98e5	7.97e6	2.97e5	7.97e6
##	71	0lho~	40	5779	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	72	0lho~	40	5780	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	73	0lho~	40	5780	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	74	0lho~	40	5781	FALSE	2.97e5	7.97e6	2.98e5	7.97e6
##	75	0lho~	40	5781	FALSE	2.97e5	7.97e6	2.98e5	7.97e6
##	76	0lho~	40	5781	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	77	0lho~	40	5782	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	78	0lho~	40	5782	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	79	0lho~	40	5783	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	80	0lho~	40	5783	FALSE	2.97e5	7.97e6	2.98e5	7.97e6
##	81	0lho~	40	5784	FALSE	2.97e5	7.97e6	2.98e5	7.97e6
##	82	0lho~	40	5785	FALSE	2.97e5	7.97e6	2.98e5	7.97e6
##	83	0lho~	40	5785	FALSE	2.97e5	7.97e6	2.98e5	7.97e6
##	84	0lho~	40	5785	FALSE	2.97e5	7.97e6	2.98e5	7.97e6
##	85	0lho~	40	5786	FALSE	2.97e5	7.97e6	2.98e5	7.97e6
##	86	0lho~	40	5787	FALSE	2.97e5	7.97e6	2.98e5	7.97e6
##	87	0lho~	40	5787	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	88	0lho~	40	5787	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	89	0lho~	40	5788	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	90	0lho~	40	5788	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	91	0lho~	40	5788	FALSE	2.97e5	7.97e6	2.98e5	7.97e6
##	92	0lho~	40	5789	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	93	0lho~	40	5789	FALSE	2.97e5	7.97e6	2.98e5	7.97e6
##	94	0lho~	40	5790	TRUE				

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##	158	Olho~	43	5867	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	159	Olho~	43	5867	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	160	Olho~	43	5867	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	161	Olho~	43	5868	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	162	Olho~	43	5869	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	163	Olho~	43	5870	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	164	Olho~	43	5870	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	165	Olho~	43	5870	FALSE	2.98e5	7.97e6	2.97e5	7.97e6
##	166	Olho~	43	5870	FALSE	2.98e5	7.97e6	2.99e5	7.97e6
##	167	Olho~	43	5871	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	168	Olho~	43	5872	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	169	Olho~	43	5873	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	170	Olho~	43	5873	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	171	Olho~	43	5873	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	172	Olho~	43	5874	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	173	Olho~	43	5874	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	174	Olho~	43	5875	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	175	Olho~	43	5875	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	176	Olho~	43	5876	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	177	Olho~	43	5876	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	178	Olho~	43	5876	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	179	Olho~	43	5877	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	180	Olho~	43	5878	TRUE	2.97e5	7.97e6	2.97e5	7.97e6
##	181	Olho~	43	5878	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	182	Olho~	43	5879	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	183	Olho~	43	5879	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	184	Olho~	43	5879	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	185	Olho~	43	5879	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	186	Olho~	43	5906	TRUE	2.98e5	7.97e6	2.98e5	7.97e6
##	187	Olho~	43	5907	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	188	Olho~	43	5907	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	189	Olho~	43	5907	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	190	Olho~	43	5907	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	191	Olho~	43	5907	FALSE	2.98e5	7.97e6	2.97e5	7.97e6
##	192	Olho~	43	5907	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	193	Olho~	43	5907	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	194	Olho~	43	5907	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	195	Olho~	43	5908	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	196	Olho~	43	5909	TRUE	2.98e5	7.97e6	2.98e5	7.97e6
##	197	Olho~	43	5909	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	198	Olho~	43	5909	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	199	Olho~	43	5910	TRUE	2.98e5	7.97e6	2.98e5	7.97e6
##	200	Olho~	43	5910	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	201	Olho~	43	5910	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	202	Olho~	43	5910	FALSE				

##	212	Olho~	43	5911	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	213	Olho~	43	5912	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	214	Olho~	43	5912	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	215	Olho~	43	5912	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	216	Olho~	43	5913	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	217	Olho~	45	5970	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	218	Olho~	45	5970	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	219	Olho~	45	5971	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	220	Olho~	45	5971	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	221	Olho~	45	5972	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	222	Olho~	45	5977	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	223	Olho~	45	5977	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	224	Olho~	45	5977	FALSE	2.98e5	7.97e6	2.97e5	7.97e6
##	225	Olho~	45	5980	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	226	Olho~	45	5981	FALSE	2.98e5	7.97e6	2.98e5	7.97e6
##	227	Olho~	45	5983	FALSE	2.98e5	7.97e6	2.97e5	7.97e6
##	228	Olho~	45	5985	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	229	Olho~	45	5986	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	230	Olho~	45	5987	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	231	Olho~	45	5987	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	232	Olho~	45	5988	TRUE	2.97e5	7.97e6	2.97e5	7.97e6
##	233	Olho~	45	5988	FALSE	2.97e5	7.97e6	2.98e5	7.97e6
##	234	Olho~	45	5988	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	235	Olho~	45	5988	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	236	Olho~	45	5989	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	237	Olho~	45	5989	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	238	Olho~	45	5989	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	239	Olho~	45	5989	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	240	Olho~	45	5989	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	241	Olho~	45	5989	FALSE	2.97e5	7.97e6	2.97e5	7.97e6
##	242	Olho~	49	6034	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	243	Olho~	49	6035	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	244	Olho~	49	6035	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	245	Olho~	49	6035	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	246	Olho~	49	6036	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	247	Olho~	49	6036	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	248	Olho~	49	6036	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	249	Olho~	49	6037	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	250	Olho~	49	6038	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	251	Olho~	49	6038	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	252	Olho~	49	6038	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	253	Olho~	51	6119	TRUE	2.99e5	7.97e6	2.99e5	7.97e6
##	254	Olho~	51	6120	TRUE	2.99e5	7.97e6	2.99e5	7.97e6
##	255	Olho~	51	6120	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	256	Olho~	51	6120	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	257	Olho~	51	6120	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	258	Olho~	51	6120	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	259	Olho~	51	6120	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	260	Olho~	51	6120	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	261	Olho~	51	6120	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	262	Olho~	51	6120	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	263	Olho~	51	6121	TRUE	2.99e5	7.97e6	2.99e5	7.97e6
##	264	Olho~	51	6121	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	265	Olho~	51	6121	FALSE	2.99e5	7.97e6	2.99e5	7.97e6

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##	320	0lho~	52	6228	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	321	0lho~	52	6228	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	322	0lho~	52	6228	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	323	0lho~	52	6228	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	324	0lho~	52	6228	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	325	0lho~	52	6229	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	326	0lho~	52	6229	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	327	0lho~	52	6229	FALSE	2.99e5	7.97e6	2.99e5	7.97e6
##	328	Pont~	7	3677	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	329	Pont~	7	3677	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	330	Pont~	7	3677	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	331	Pont~	7	3677	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	332	Pont~	7	3677	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	333	Pont~	7	3677	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	334	Pont~	7	3677	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	335	Pont~	7	3678	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	336	Pont~	7	3678	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	337	Pont~	7	3678	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	338	Pont~	7	3679	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	339	Pont~	7	3679	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	340	Pont~	7	3679	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	341	Pont~	7	3679	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	342	Pont~	7	3680	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	343	Pont~	7	3680	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	344	Pont~	7	3680	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	345	Pont~	7	3680	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	346	Pont~	7	3680	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	347	Pont~	7	3685	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	348	Pont~	7	3688	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	349	Pont~	7	3689	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	350	Pont~	7	3690	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	351	Pont~	7	3691	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	352	Pont~	7	3693	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	353	Pont~	7	3693	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	354	Pont~	7	3693	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	355	Pont~	7	3695	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	356	Pont~	7	3696	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	357	Pont~	7	3699	TRUE	2.89e5	7.97e6	2.89e5	7.97e6
##	358	Pont~	7	3699	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	359	Pont~	7	3700	TRUE	2.89e5	7.97e6	2.89e5	7.97e6
##	360	Pont~	7	3700	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	361	Pont~	7	3700	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	362	Pont~	7	3700	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	363	Pont~	7	3700	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	364	Pont~	7	3700	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	365	Pont~							

##	374	Pont~	7	3701	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	375	Pont~	7	3701	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	376	Pont~	7	3701	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	377	Pont~	7	3701	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	378	Pont~	7	3702	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	379	Pont~	7	3702	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	380	Pont~	7	3702	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	381	Pont~	7	3702	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	382	Pont~	7	3702	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	383	Pont~	7	3702	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	384	Pont~	7	3702	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	385	Pont~	7	3702	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	386	Pont~	7	3749	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	387	Pont~	7	3750	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	388	Pont~	7	3751	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	389	Pont~	7	3752	TRUE	2.89e5	7.97e6	2.89e5	7.97e6
##	390	Pont~	7	3752	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	391	Pont~	7	3753	TRUE	2.89e5	7.97e6	2.89e5	7.97e6
##	392	Pont~	7	3753	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	393	Pont~	7	3753	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	394	Pont~	7	3753	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	395	Pont~	7	3753	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	396	Pont~	7	3753	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	397	Pont~	7	3753	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	398	Pont~	7	3753	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	399	Pont~	7	3754	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	400	Pont~	7	3754	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	401	Pont~	7	3754	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	402	Pont~	7	3754	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	403	Pont~	7	3754	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	404	Pont~	7	3754	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	405	Pont~	7	3754	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	406	Pont~	7	3755	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	407	Pont~	7	3755	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	408	Pont~	7	3757	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	409	Pont~	7	3757	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	410	Pont~	7	3757	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	411	Pont~	7	3758	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	412	Pont~	7	3758	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	413	Pont~	7	3760	FALSE	2.88e5	7.97e6	2.89e5	7.97e6
##	414	Pont~	7	3770	TRUE	2.88e5	7.97e6	2.89e5	7.97e6
##	415	Pont~	7	3771	TRUE	2.89e5	7.97e6	2.89e5	7.97e6
##	416	Pont~	7	3771	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	417	Pont~	7	3771	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	418	Pont~	7	3771	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	419	Pont~	7	3771	FALSE				

##	428	Pont~	7	3772	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	429	Pont~	7	3772	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	430	Pont~	7	3772	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	431	Pont~	7	3772	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	432	Pont~	7	3772	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	433	Pont~	7	3773	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	434	Pont~	7	3773	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	435	Pont~	7	3776	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	436	Pont~	7	3784	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	437	Pont~	7	3785	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	438	Pont~	7	3812	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	439	Pont~	7	3812	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	440	Pont~	7	3813	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	441	Pont~	7	3813	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	442	Pont~	7	3846	FALSE	2.88e5	7.97e6	2.89e5	7.97e6
##	443	Pont~	7	3901	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	444	Pont~	8	3904	FALSE	2.89e5	7.97e6	2.90e5	7.97e6
##	445	Pont~	8	3906	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	446	Pont~	8	3907	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	447	Pont~	8	3942	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	448	Pont~	8	3951	TRUE	2.90e5	7.97e6	2.90e5	7.97e6
##	449	Pont~	8	3952	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	450	Pont~	8	3952	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	451	Pont~	8	3952	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	452	Pont~	8	3952	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	453	Pont~	8	3952	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	454	Pont~	8	3952	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	455	Pont~	8	3952	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	456	Pont~	8	3952	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	457	Pont~	8	3953	TRUE	2.90e5	7.97e6	2.89e5	7.97e6
##	458	Pont~	8	3953	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	459	Pont~	8	3953	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	460	Pont~	8	3953	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	461	Pont~	8	3953	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	462	Pont~	8	3954	TRUE	2.89e5	7.97e6	2.89e5	7.97e6
##	463	Pont~	8	3954	FALSE	2.89e5	7.97e6	2.90e5	7.97e6
##	464	Pont~	8	3954	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	465	Pont~	8	3954	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	466	Pont~	8	3954	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	467	Pont~	8	3954	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	468	Pont~	8	3954	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	469	Pont~	8	3954	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	470	Pont~	8	3954	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	471	Pont~	8	3955	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	472	Pont~	8	3955	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	473	Pont~	8	3955	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	474	Pont~	8	3955	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	475	Pont~	8	3955	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	476	Pont~	8	3955	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	477	Pont~	8	3955	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	478	Pont~	8	3955	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	479	Pont~	8	3955	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	480	Pont~	8	3958	FALSE	2.88e5	7.97e6	2.89e5	7.97e6
##	481	Pont~	8	3958	FALSE	2.88e5	7.97e6	2.89e5	7.97e6

##	482	Pont~	8	3961	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	483	Pont~	8	3963	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	484	Pont~	8	3964	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	485	Pont~	8	3971	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	486	Pont~	8	3971	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	487	Pont~	9	4163	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	488	Pont~	9	4171	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	489	Pont~	9	4174	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	490	Pont~	9	4174	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	491	Pont~	9	4174	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	492	Pont~	9	4175	TRUE	2.90e5	7.97e6	2.90e5	7.97e6
##	493	Pont~	9	4176	TRUE	2.90e5	7.97e6	2.90e5	7.97e6
##	494	Pont~	9	4176	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	495	Pont~	9	4176	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	496	Pont~	9	4176	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	497	Pont~	9	4176	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	498	Pont~	9	4176	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	499	Pont~	9	4176	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	500	Pont~	9	4176	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	501	Pont~	9	4176	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	502	Pont~	9	4176	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	503	Pont~	9	4177	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	504	Pont~	9	4177	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	505	Pont~	9	4177	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	506	Pont~	9	4177	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	507	Pont~	9	4177	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	508	Pont~	9	4177	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	509	Pont~	9	4177	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	510	Pont~	9	4177	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	511	Pont~	9	4178	FALSE	2.89e5	7.97e6	2.90e5	7.97e6
##	512	Pont~	9	4180	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	513	Pont~	10	4240	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	514	Pont~	10	4242	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	515	Pont~	10	4281	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	516	Pont~	10	4282	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	517	Pont~	10	4283	TRUE	2.89e5	7.97e6	2.90e5	7.97e6
##	518	Pont~	10	4283	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	519	Pont~	10	4284	TRUE	2.90e5	7.97e6	2.90e5	7.97e6
##	520	Pont~	10	4284	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	521	Pont~	10	4284	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	522	Pont~	10	4284	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	523	Pont~	10	4284	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	524	Pont~	10	4284	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	525	Pont~	10	4284	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	526	Pont~	10	4284	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	527	Pont~	10	4285	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	528	Pont~	10	4285	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	529	Pont~	10	4285	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	530	Pont~	10	4285	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	531	Pont~	10	4285	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	532	Pont~	10	4285	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	533	Pont~	10	4285	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	534	Pont~	10	4285	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	535	Pont~	10	4286	FALSE	2.90e5	7.97e6	2.90e5	7.97e6

##	536	Pont~	10	4286	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	537	Pont~	10	4287	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	538	Pont~	10	4308	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	539	Pont~	11	4330	TRUE	2.90e5	7.97e6	2.90e5	7.97e6
##	540	Pont~	11	4330	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	541	Pont~	11	4330	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	542	Pont~	11	4330	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	543	Pont~	11	4331	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	544	Pont~	11	4331	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	545	Pont~	11	4331	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	546	Pont~	11	4331	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	547	Pont~	11	4331	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	548	Pont~	11	4331	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	549	Pont~	11	4331	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	550	Pont~	11	4331	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	551	Pont~	11	4331	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	552	Pont~	11	4332	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	553	Pont~	11	4332	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	554	Pont~	11	4333	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	555	Pont~	11	4333	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	556	Pont~	11	4338	TRUE	2.89e5	7.97e6	2.89e5	7.97e6
##	557	Pont~	11	4339	TRUE	2.89e5	7.97e6	2.89e5	7.97e6
##	558	Pont~	11	4339	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	559	Pont~	11	4339	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	560	Pont~	11	4339	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	561	Pont~	11	4339	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	562	Pont~	11	4339	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	563	Pont~	11	4339	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	564	Pont~	11	4340	TRUE	2.89e5	7.97e6	2.89e5	7.97e6
##	565	Pont~	11	4340	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	566	Pont~	11	4340	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	567	Pont~	11	4340	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	568	Pont~	11	4340	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	569	Pont~	11	4340	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	570	Pont~	11	4340	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	571	Pont~	11	4340	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	572	Pont~	11	4340	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	573	Pont~	11	4340	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	574	Pont~	11	4341	TRUE	2.89e5	7.97e6	2.89e5	7.97e6
##	575	Pont~	11	4341	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	576	Pont~	11	4341	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	577	Pont~	11	4341	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	578	Pont~	11	4341	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	579	Pont~	11	4341	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	580	Pont~	11	4341	FALSE	2.89e5	7.97e6	2.89e5	7.97e6

##	590	Pont~	11	4343	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	591	Pont~	11	4343	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	592	Pont~	11	4343	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	593	Pont~	11	4343	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	594	Pont~	11	4378	FALSE	2.88e5	7.97e6	2.89e5	7.97e6
##	595	Pont~	11	4385	TRUE	2.88e5	7.97e6	2.89e5	7.97e6
##	596	Pont~	11	4386	TRUE	2.89e5	7.97e6	2.89e5	7.97e6
##	597	Pont~	11	4386	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	598	Pont~	11	4386	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	599	Pont~	11	4386	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	600	Pont~	11	4386	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	601	Pont~	11	4387	TRUE	2.89e5	7.97e6	2.89e5	7.97e6
##	602	Pont~	11	4387	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	603	Pont~	11	4387	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	604	Pont~	11	4387	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	605	Pont~	11	4387	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	606	Pont~	11	4387	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	607	Pont~	11	4387	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	608	Pont~	11	4387	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	609	Pont~	11	4388	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	610	Pont~	11	4388	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	611	Pont~	11	4388	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	612	Pont~	11	4388	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	613	Pont~	11	4388	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	614	Pont~	11	4389	TRUE	2.89e5	7.97e6	2.89e5	7.97e6
##	615	Pont~	11	4389	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	616	Pont~	11	4390	TRUE	2.89e5	7.97e6	2.89e5	7.97e6
##	617	Pont~	11	4390	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	618	Pont~	11	4390	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	619	Pont~	11	4390	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	620	Pont~	11	4390	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	621	Pont~	11	4390	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	622	Pont~	11	4390	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	623	Pont~	11	4391	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	624	Pont~	11	4391	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	625	Pont~	11	4391	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	626	Pont~	11	4391	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	627	Pont~	11	4391	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	628	Pont~	11	4391	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	629	Pont~	11	4391	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	630	Pont~	11	4391	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	631	Pont~	11	4395	TRUE	2.89e5	7.97e6	2.89e5	7.97e6
##	632	Pont~	11	4395	FALSE	2.89e5	7.97e6	2.90e5	7.97e6
##	633	Pont~	11	4395	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	634	Pont~	11	4395	FALSE	2.89e5	7.97e6	2.89e5	7.97e6

##	644	Pont~	11	4401	FALSE	2.90e5	7.97e6	2.89e5	7.97e6
##	645	Pont~	11	4401	FALSE	2.90e5	7.97e6	2.89e5	7.97e6
##	646	Pont~	11	4404	FALSE	2.90e5	7.97e6	2.89e5	7.97e6
##	647	Pont~	11	4405	FALSE	2.90e5	7.97e6	2.89e5	7.97e6
##	648	Pont~	11	4407	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	649	Pont~	11	4410	FALSE	2.90e5	7.97e6	2.89e5	7.97e6
##	650	Pont~	12	4424	TRUE	2.90e5	7.97e6	2.89e5	7.97e6
##	651	Pont~	12	4424	FALSE	2.90e5	7.97e6	2.89e5	7.97e6
##	652	Pont~	12	4425	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	653	Pont~	12	4425	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	654	Pont~	12	4425	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	655	Pont~	12	4425	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	656	Pont~	12	4425	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	657	Pont~	12	4425	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	658	Pont~	12	4425	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	659	Pont~	12	4425	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	660	Pont~	12	4426	TRUE	2.90e5	7.97e6	2.89e5	7.97e6
##	661	Pont~	12	4426	FALSE	2.90e5	7.97e6	2.89e5	7.97e6
##	662	Pont~	12	4426	FALSE	2.90e5	7.97e6	2.89e5	7.97e6
##	663	Pont~	12	4426	FALSE	2.90e5	7.97e6	2.89e5	7.97e6
##	664	Pont~	12	4426	FALSE	2.90e5	7.97e6	2.89e5	7.97e6
##	665	Pont~	12	4427	TRUE	2.89e5	7.97e6	2.89e5	7.97e6
##	666	Pont~	12	4427	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	667	Pont~	12	4427	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	668	Pont~	12	4427	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	669	Pont~	12	4427	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	670	Pont~	12	4427	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	671	Pont~	12	4427	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	672	Pont~	12	4427	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	673	Pont~	12	4427	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	674	Pont~	12	4427	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	675	Pont~	12	4428	TRUE	2.89e5	7.97e6	2.89e5	7.97e6
##	676	Pont~	12	4428	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	677	Pont~	12	4428	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	678	Pont~	12	4428	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	679	Pont~	12	4428	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	680	Pont~	12	4428	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	681	Pont~	12	4428	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	682	Pont~	12	4428	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	683	Pont~	12	4428	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	684	Pont~	12	4428	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	685	Pont~	12	4429	TRUE	2.89e5	7.97e6	2.89e5	7.97e6
##	686	Pont~	12	4429	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	687	Pont~	12	4429	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	688	Pont~	12	4429	FALSE	2.89e5	7.97e6	2.89e5	7.97e6

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##	752	Pont~	12	4475	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	753	Pont~	12	4475	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	754	Pont~	12	4475	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	755	Pont~	12	4475	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	756	Pont~	12	4475	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	757	Pont~	12	4476	TRUE	2.90e5	7.97e6	2.89e5	7.97e6
##	758	Pont~	12	4476	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	759	Pont~	12	4476	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	760	Pont~	12	4476	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	761	Pont~	12	4476	FALSE	2.90e5	7.97e6	2.89e5	7.97e6
##	762	Pont~	12	4476	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	763	Pont~	12	4476	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	764	Pont~	12	4476	FALSE	2.90e5	7.97e6	2.90e5	7.97e6
##	765	Pont~	12	4476	FALSE	2.90e5	7.97e6	2.89e5	7.97e6
##	766	Pont~	12	4477	TRUE	2.89e5	7.97e6	2.89e5	7.97e6
##	767	Pont~	12	4477	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	768	Pont~	12	4477	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	769	Pont~	12	4477	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	770	Pont~	12	4477	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	771	Pont~	12	4477	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	772	Pont~	12	4477	FALSE	2.89e5	7.97e6	2.90e5	7.97e6
##	773	Pont~	12	4477	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	774	Pont~	12	4477	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	775	Pont~	12	4477	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	776	Pont~	12	4478	TRUE	2.89e5	7.97e6	2.89e5	7.97e6
##	777	Pont~	12	4478	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	778	Pont~	12	4478	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	779	Pont~	12	4478	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	780	Pont~	12	4478	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	781	Pont~	12	4478	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	782	Pont~	12	4478	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	783	Pont~	12	4478	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	784	Pont~	12	4478	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	785	Pont~	12	4479	TRUE	2.89e5	7.97e6	2.89e5	7.97e6
##	786	Pont~	12	4479	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	787	Pont~	12	4479	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	788	Pont~	12	4479	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	789	Pont~	12	4479	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	790	Pont~	12	4479	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	791	Pont~	12	4479	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	792	Pont~	12	4479	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	793	Pont~	12	4479	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	794	Pont~	12	4480	TRUE	2.89e5	7.97e6	2.89e5	7.97e6
##	795	Pont~	12	4480	FALSE	2.89e5	7.97e6	2.89e5	7.97e6
##	796	Pont~	12	4480	FALSE	2.89e5	7.97e6	2.89e5	7.97e6

[illegible]

[illegible]

[illegible]

```
## 968 Pont~ 12 4526 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 969 Pont~ 12 4527 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 970 Pont~ 12 4527 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 971 Pont~ 12 4528 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 972 Pont~ 12 4529 TRUE 2.89e5 7.97e6 2.89e5 7.97e6
## 973 Pont~ 12 4530 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 974 Pont~ 12 4530 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 975 Pont~ 12 4530 FALSE 2.89e5 7.97e6 2.88e5 7.97e6
## 976 Pont~ 12 4530 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 977 Pont~ 12 4530 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 978 Pont~ 12 4530 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 979 Pont~ 12 4530 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 980 Pont~ 12 4530 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 981 Pont~ 12 4533 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 982 Pont~ 12 4533 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 983 Pont~ 12 4533 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 984 Pont~ 12 4534 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 985 Pont~ 12 4534 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 986 Pont~ 12 4534 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 987 Pont~ 12 4535 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 988 Pont~ 12 4535 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 989 Pont~ 12 4535 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 990 Pont~ 12 4535 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 991 Pont~ 12 4536 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 992 Pont~ 12 4537 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 993 Pont~ 12 4537 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 994 Pont~ 12 4538 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 995 Pont~ 12 4539 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 996 Pont~ 12 4540 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 997 Pont~ 12 4540 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 998 Pont~ 12 4540 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 999 Pont~ 12 4541 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## 1000 Pont~ 12 4542 FALSE 2.89e5 7.97e6 2.89e5 7.97e6
## # ... with 6,129 more rows, and 11 more variables: t1_ <dtm>, t2_ <dtm>,
## # dt_ <drtn>, sl_ <dbl>, ta_ <dbl>, classes <dbl>, julian.date <dbl>,
## # classes.lev <fct>, dtm.harvest <date>, classes.corr <fct>,
## # log_sl_ <dbl>
```

```
m1.all <- mov.track.rsp.all %>%
  mutate(fit = map(trk, ~ amt::fit_clogit(., case_ ~ classes.corr + strata(step_id))))
```

```
## Warning in fitter(X, Y, strats, offset, init, control, weights = weights, :
## Loglik converged before variable 3 ; beta may be infinite.
```

```
#
# m2.all <- mov.track.rsp.all %>%
#   mutate(fit = map(trk, ~ amt::fit_ssf(., case_ ~ prop_forest_100m + log_sl_ + log_dist_water + strat
#
# mod.names <- c('m1', 'm2', 'm3', 'm4', 'm4.2', 'm5', 'm5.2', 'm6', 'm6.2', 'm7', 'm7.2')
# mods <- list(m1.all, m2.all, m3.all, m4.all, m4.2.all, m5.all, m5.2.all, m6.all, m6.2.all, m7.all, m7
#
# aics <- lapply(mods, function(y) y$fit %>%
#   lapply(., function(x) x[[1]]) %>%
#   lapply(., AIC) %>%
#   unlist
```

```

# ) %>%
#   transpose() %>%
#   lapply(., function(x) do.call(rbind, x)) %>%
#   lapply(., function(x) {
#     tibble(models = mod.names, AIC = x[,1]) %>%
#     dplyr::arrange(AIC) %>%
#     mutate(dAIC = AIC - AIC[1],
#            wAIC = exp(-0.5*dAIC)/sum(exp(-0.5*dAIC)))
#   })
# names(aics) <- mov.track.rsp.all$name
# aics

# table with results
d2 <- m1.all %>%
  mutate(coef = map(fit, ~ broom::tidy(.x$model))) %>%
  dplyr::select(name, coef) %>%
  unnest %>%
  mutate(name = factor(name),
         term = factor(term))

```

```

## Warning: `cols` is now required.
## Please use `cols = c(coef)`

```

```

d2 %>%
  print(n = 50)

```

```

## # A tibble: 23 x 8
##   name      term      estimate std.error statistic p.value  conf.low conf.high
##   <fct>    <fct>      <dbl>    <dbl>    <dbl>    <dbl>    <dbl>    <dbl>
## 1 Olhos ~ classes~ -0.287    0.173    -1.65    9.84e-2   -0.626    0.0533
## 2 Olhos ~ classes~ -0.0546   0.236    -0.231   8.17e-1   -0.518    0.409
## 3 Olhos ~ classes~ -9.68     346.     -0.0280  9.78e-1  -688.     669.
## 4 Olhos ~ classes~  0.649    0.200     3.25    1.15e-3    0.258    1.04
## 5 Olhos ~ classes~  0.723    0.151     4.78    1.78e-6    0.426    1.02
## 6 Olhos ~ classes~ -0.182    0.316    -0.577   5.64e-1   -0.801    0.437
## 7 Olhos ~ classes~  0.704    0.524     1.34    1.79e-1   -0.323    1.73
## 8 Olhos ~ classes~  1.35     0.515     2.62    8.79e-3    0.340    2.36
## 9 Olhos ~ classes~  1.48     0.495     2.99    2.81e-3    0.509    2.45
## 10 Olhos ~ classes~  2.14     0.478     4.48    7.38e-6    1.21     3.08
## 11 Olhos ~ classes~  0.483    0.609     0.792   4.28e-1   -0.711    1.68
## 12 Pontal classes~ -0.0558   0.112    -0.497   6.19e-1   -0.276    0.164
## 13 Pontal classes~ -0.158    0.0869   -1.81    6.96e-2   -0.328    0.0126
## 14 Pontal classes~ -0.335    0.142    -2.36    1.81e-2   -0.612   -0.0571
## 15 Pontal classes~  0.346    0.0803    4.32    1.59e-5    0.189    0.504
## 16 Pontal classes~  0.442    0.112     3.93    8.38e-5    0.222    0.662
## 17 Pontal classes~ -0.518    0.103    -5.02    5.18e-7   -0.721   -0.316
## 18 Alto F~ classes~  0.165    0.318     0.519   6.03e-1   -0.458    0.788
## 19 Alto F~ classes~ -0.343    0.387    -0.886   3.75e-1   -1.10     0.415
## 20 Alto F~ classes~  1.07     0.305     3.50    4.73e-4    0.468    1.66
## 21 Alto F~ classes~  1.69     0.428     3.95    7.93e-5    0.850    2.53
## 22 Alto F~ classes~  1.24     0.301     4.12    3.83e-5    0.650    1.83
## 23 Alto F~ classes~  0.322    0.345     0.934   3.51e-1   -0.354    0.999

```

```

d3 <- d2 %>%
  group_by(term) %>%

```

```

    summarize(mean = mean(estimate),
              ymin = mean - 1.96 * sd(estimate)/sqrt(4),
              ymax = mean + 1.96 * sd(estimate)/sqrt(4)) %>%
dplyr::mutate(x = 1:n())

p1 <- m1.all %>%
  mutate(coef = map(fit, ~ broom::tidy(.x$model))) %>%
  dplyr::select(name, coef) %>%
  unnest %>%
  mutate(name = factor(name),
         term = factor(term)) %>%
  ggplot(., aes(x = term, y = estimate, group = name, col = name)) +
  geom_rect(mapping = aes(xmin = x - .4, xmax = x + .4, ymin = ymin,
                        ymax = ymax), data = d3, inherit.aes = FALSE, fill = "grey90") +
  geom_segment(mapping = aes(x = x - .4, xend = x + .4,
                           y = mean, yend = mean), data = d3, inherit.aes = FALSE, size = 1) +
  geom_pointrange(aes(x = as.numeric(term), ymin = conf.low, ymax = conf.high), position = position_dodge2()) +
  geom_hline(yintercept = 0, lty = 2) +
  labs(x = "", y = "Relative Selection Strength") +
  theme_light() +
  coord_flip() +
  geom_label(data = d3, aes(x = x, y = -4, label = term), inherit.aes = FALSE)

```

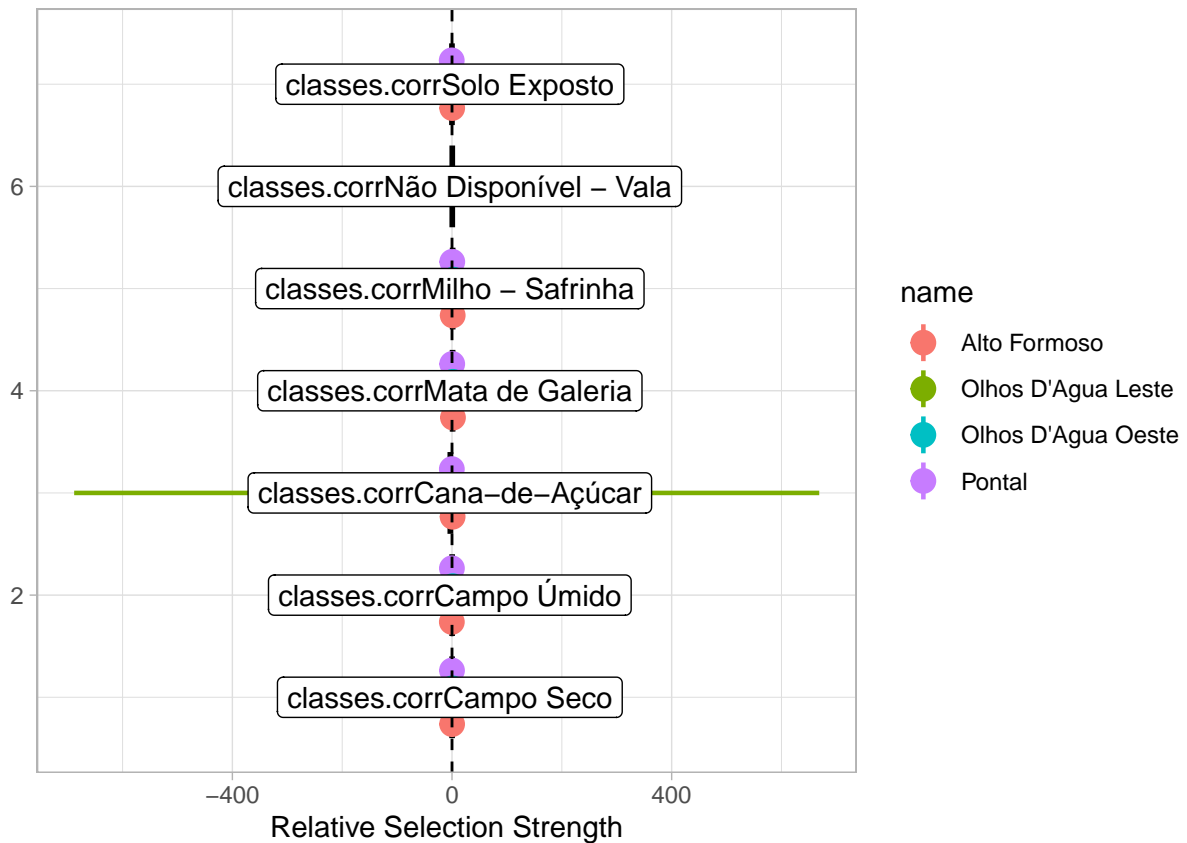
```

## Warning: `cols` is now required.
## Please use `cols = c(coef)`

```

```
p1
```

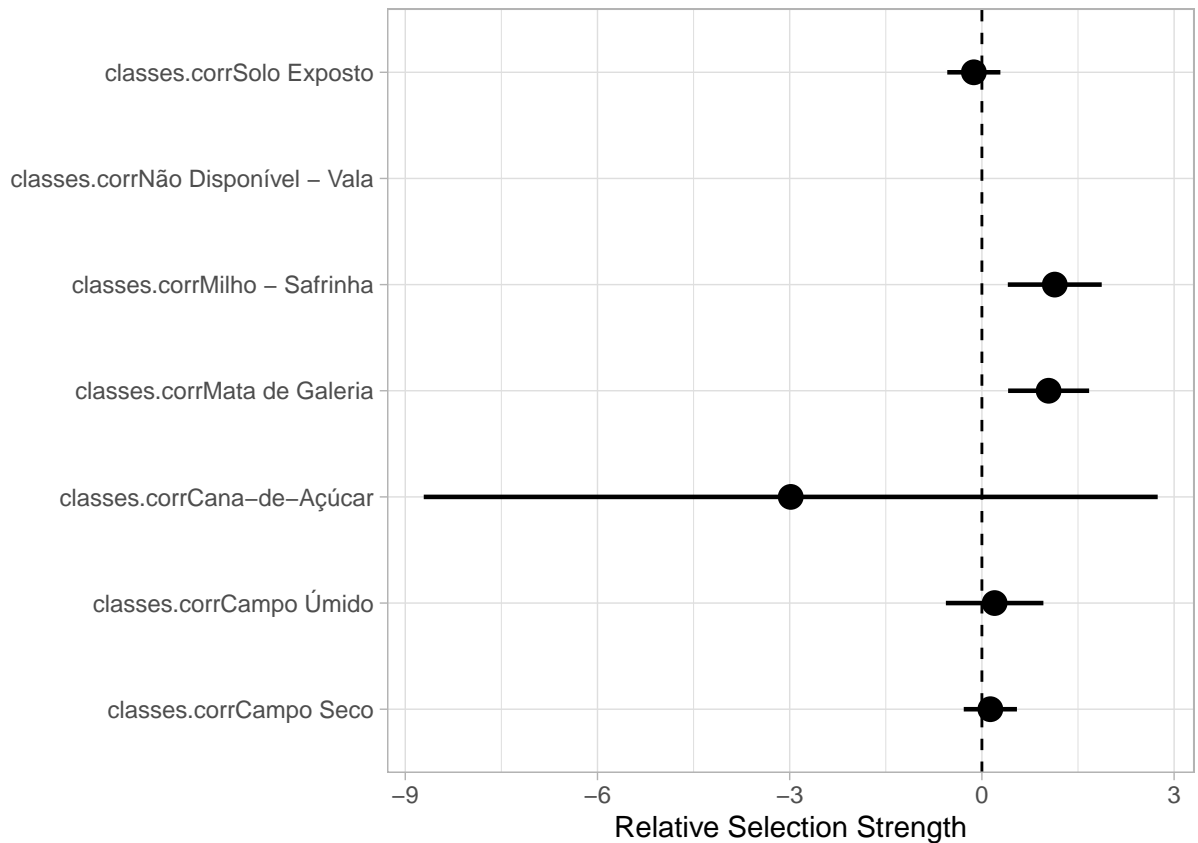
```
## Warning: Removed 1 rows containing missing values (geom_rect).
```



```
# ggsave('hab_selec_all_100m_ind.png', plot = p1, path = 'results', width = 30, height = 20, units = 'cm',
#         dpi = 300)
```

```
p2 <- d3 %>%
  ggplot(., aes(x = term, y = mean)) +
  geom_pointrange(aes(ymin = ymin, ymax = ymax), position = position_dodge(width = 0.7), size = 0.8) +
  geom_hline(yintercept = 0, lty = 2) +
  labs(x = "", y = "Relative Selection Strength") +
  theme_light() +
  coord_flip()
p2
```

```
## Warning: Removed 1 rows containing missing values (geom_pointrange).
```



```
# ggsave('hab_selec_all_100m_pop.png', plot = p2, path = 'results', width = 20, height = 20, units = 'cm',
#        dpi = 300)
```

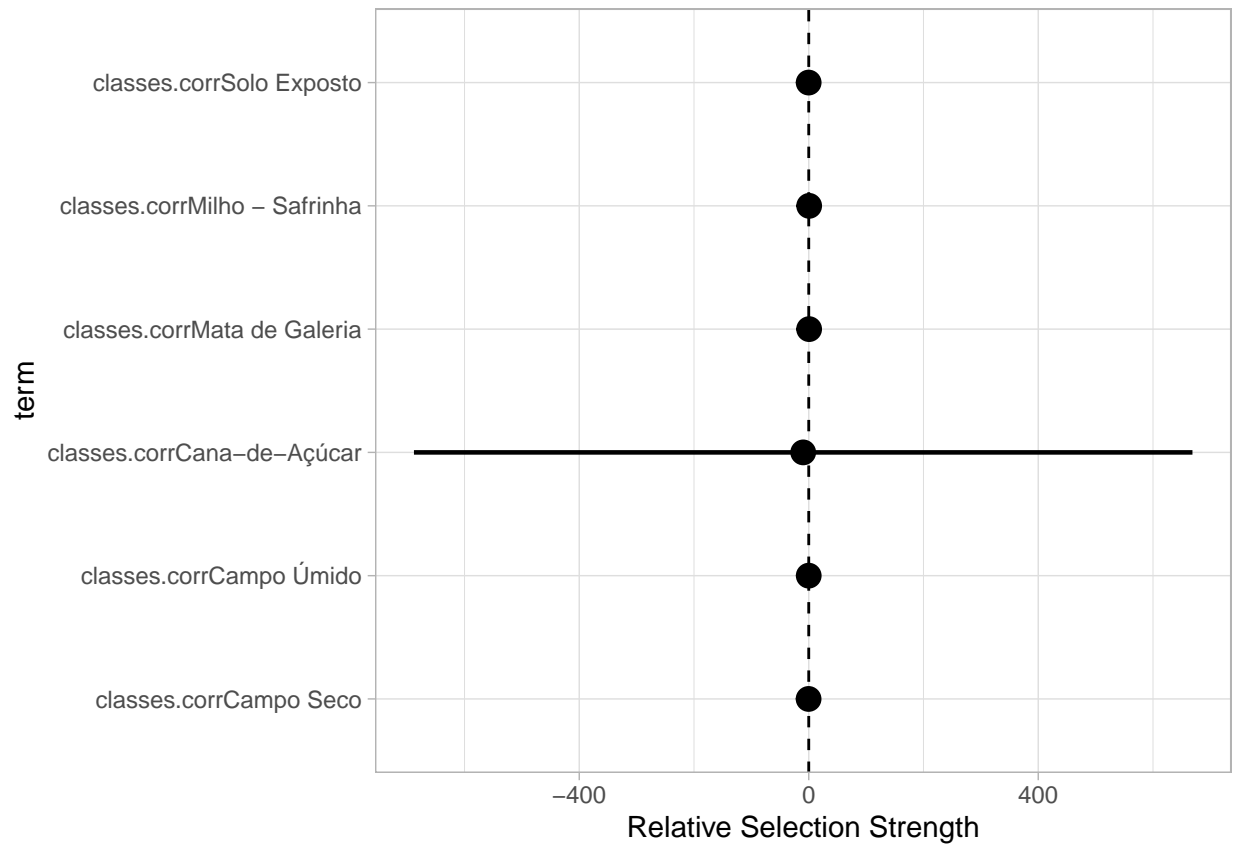
```
# for each individual
m.each <- m1.all %>%
  mutate(coef = map(fit, ~ broom::tidy(.x$model)),
         plots = map(coef, function(x) {
           x %>% ggplot(aes(x = term, y = estimate)) +
             geom_pointrange(aes(ymin = conf.low, ymax = conf.high),
                             position = position_dodge(width = 0.7), size = 0.8) +
             geom_hline(yintercept = 0, lty = 2) +
             labs(y = "Relative Selection Strength") +
             theme_light() +
             coord_flip()
         })) %>%
  dplyr::select(name, plots)

m.each$name
```

```
## [1] "Olhos D'Agua Leste" "Olhos D'Agua Oeste" "Pontal"
## [4] "Alto Formoso"
```

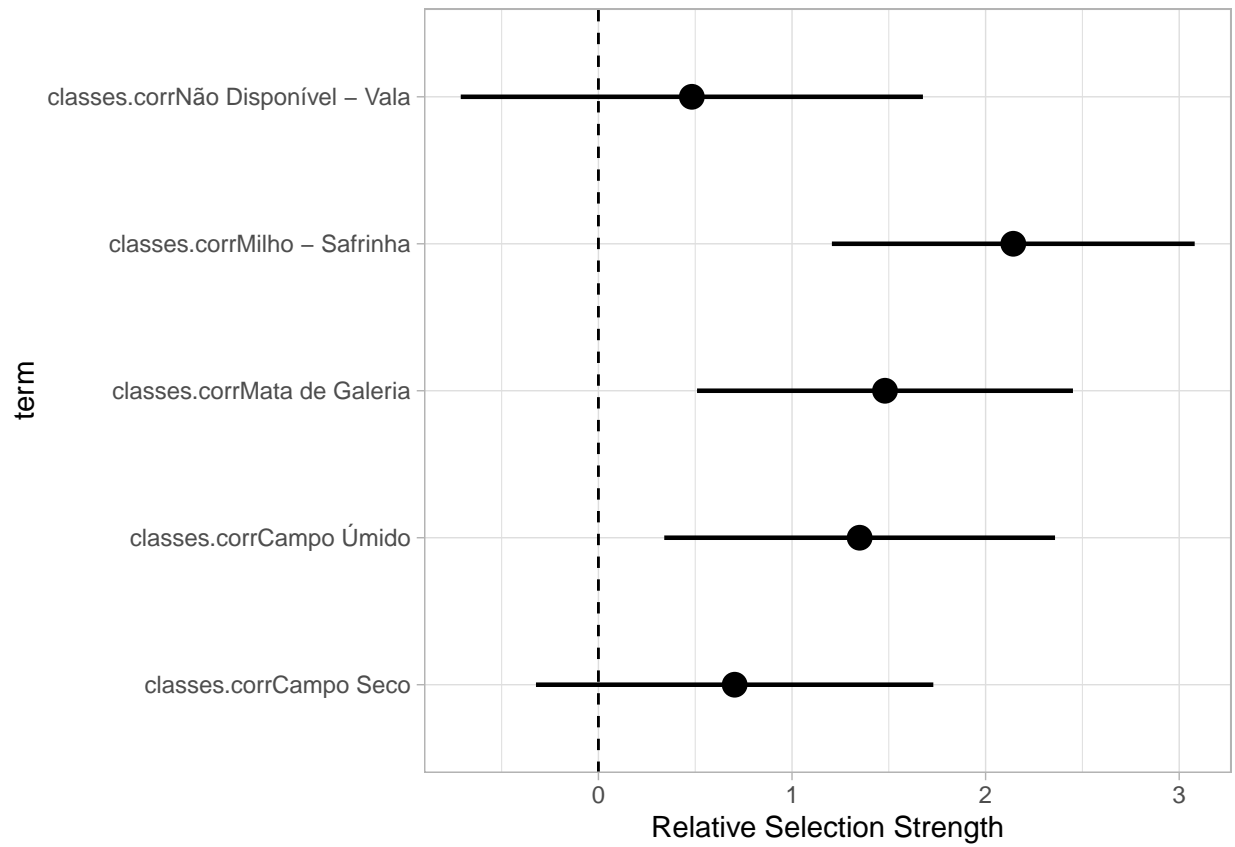
```
m.each$plots[1]
```

```
## [[1]]
```

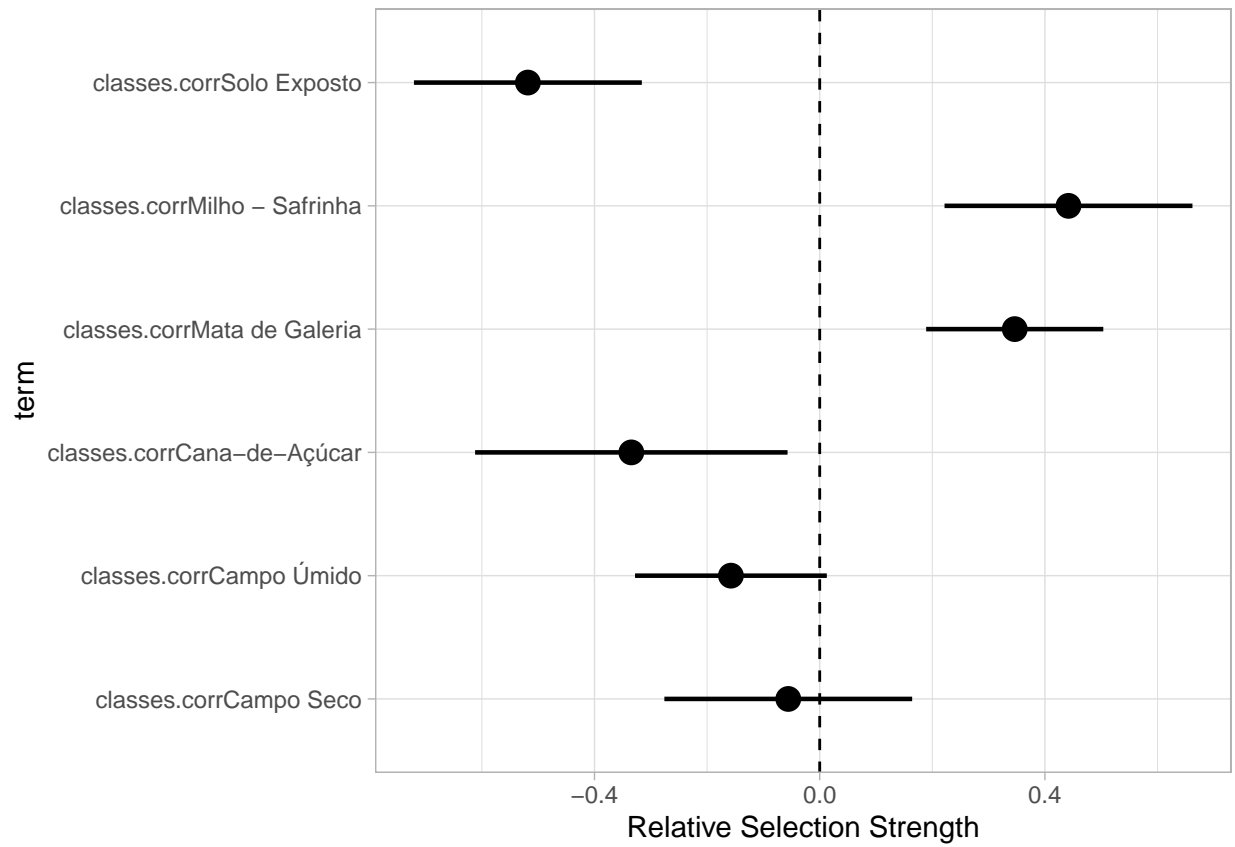
```
m.each$plots[2]
```

```
## [[1]]
```



```
m.each$plots[3]
```

```
## [[1]]
```



```
m.each$plots[4]
```

```
## [[1]]
```

