

Appendix A - ADS506-01-FA22 - Final Project

Team 1

12/05/2022

RMarkdown global setup

```
knitr::opts_chunk$set(fig.align = 'center')

library(AppliedPredictiveModeling)
library(BioStatR)
library(car)
library(caret)
library(class)
library(corrplot)
library(datasets)
library(e1071)
library(here)
library(Hmisc)
library(imputeTS)
library(lubridate)
library(mlbench)
library(gridExtra)
library(psych)
library(randomForest)
library(RANN)
library(reshape2)
library(rpart)
library(rpart.plot)
library(scales)
library(tidyverse)
library(timetk)
library(tsibble)
library(tseries)
library(zoo)

set.seed(1699)
```

Create custom function to generate boxplots and descriptive statistics for continuous variables

```
box_comp <- function(xcol = c(),
                      df = NA,
                      rtn_met = TRUE,
                      grph_title = "All",
                      box = TRUE) {
```

```

# Define function to produce formatted boxplots
sig <- 3
metrics_df01 <- data.frame(metric = c("",
                                         "Total N:",
                                         "Count",
                                         "NA Count",
                                         "Mean",
                                         "Median",
                                         "Standard Deviation",
                                         "Variance",
                                         "Range",
                                         "Min",
                                         "Max",
                                         "25th Percentile",
                                         "75th Percentile",
                                         "Subset w/o Outliers:",
                                         "Count",
                                         "%",
                                         "Outlier %",
                                         "NA Count",
                                         "Mean",
                                         "Median",
                                         "Standard Deviation",
                                         "Variance",
                                         "Range",
                                         "Min",
                                         "Max"
                                         ))
for(var in xcol) {
  df_s1 <- df[, var]
  df_s1s1 <- data.frame(df_s1)
  df_s1_fit <- preProcess(df_s1s1,
                           method = c("center", "scale"))
  df_s1_trans <- predict(df_s1_fit, df_s1s1)

  # Calculate quartiles
  var_iqr_lim <- IQR(df_s1) * 1.5
  var_q1 <- quantile(df_s1, probs = c(.25))
  var_otlow <- var_q1 - var_iqr_lim
  var_q3 <- quantile(df_s1, probs = c(.75))
  var_othigh <- var_q3 + var_iqr_lim

  # Subset non-outlier data
  var_non_otlr_df01 <- subset(df, (abs(df_s1_trans) <= 3))
  #var_non_otlr_df01 <- subset(df, (df_s1 > var_otlow & df_s1 < var_othigh))
  df_s2 <- var_non_otlr_df01[, var]

  # Begin calculating measures of centrality & dispersion
  var_mean <- mean(df_s1, na.remove = TRUE)
  var_non_otlr_df01_trunc_mean <- mean(df_s2, na.remove = TRUE)
  var_med <- median(df_s1)
  var_non_otlr_df01_trunc_med <- median(df_s2)
  var_mode <- mode(df_s1)
}

```

```

var_non_otlr_df01_trunc_mode <- mode(df_s2)
var_stde <- sd(df_s1)
var_non_otlr_df01_trunc_stde <- sd(df_s2)
var_vari <- var(df_s1)
var_non_otlr_df01_trunc_vari <- var(df_s2)
var01_min <- min(df[, var])
var01_max <- max(df[, var])
var01_range <- var01_max - var01_min
var02_min <- min(var_non_otlr_df01[, var])
var02_max <- max(var_non_otlr_df01[, var])
var02_range <- var02_max - var02_min

# Configure y-axis min & max to sync graphs
plot_min <- min(var01_min, var02_min)
plot_max <- max(var01_max, var02_max)
nonoutlier_perc <- round((as.numeric(dim(var_non_otlr_df01)[1] /
→ as.numeric(dim(df)[1]))) * 100, 1)

# Fill in metrics table
measure_val01 <- c(paste0("Variable: ", var),
  "",
  as.character(dim(df)[1]),
  sum(is.na(df_s1)),
  round(var_mean, sig),
  round(var_med, sig),
  round(var_stde, sig),
  round(var_vari, sig),
  round(var01_range, sig),
  round(var01_min, sig),
  round(var01_max, sig),
  round(var_q1, sig),
  round(var_q3, sig),
  "",
  as.character(dim(var_non_otlr_df01)[1]),
  paste0(nonoutlier_perc, "%"),
  paste0(round(100 - nonoutlier_perc, 1), "%"),
  sum(is.na(df_s2)),
  round(var_non_otlr_df01_trunc_mean, sig),
  round(var_non_otlr_df01_trunc_med, sig),
  round(var_non_otlr_df01_trunc_stde, sig),
  round(var_non_otlr_df01_trunc_vari, sig),
  round(var02_range, sig),
  round(var02_min, sig),
  round(var02_max, sig)
  )

var_name <- paste0("Variable: ", var)
metrics_df01[, ncol(metrics_df01) + 1] <- measure_val01
}

# Format boxplot titles based on number of plots
if(box == TRUE) {
  if(length(xcol == 1)) {
    boxplot(df,

```

```

        ylab = "Parameter Values",
        main = paste0("Boxplot for ", xcol, " (", grph_title, ")"))
    }
} else {
  boxplot(df,
    ylab = "Parameter Values",
    main = paste0("Boxplot for Multiple Parameters", " (", grph_title, ")"))

}
}

# Return and print metrics table(s)
if(rtn_met == TRUE) {
  print(metrics_df01)
  return(metrics_df01)
}
}

```

Import and merge Datasets

```

# Import 4 separate CSV files
curr_dir01 <- here("data/Ocean Water/water_quality_1990_1999_datasd.csv")
curr_dir01

## [1] "C:/Users/acarr/Documents/GitHub/506-OceanWater-Team1/data/Ocean Water/water_quality_1990_1999_da
curr_dir02 <- here("data/Ocean Water/water_quality_2000_2010_datasd.csv")
curr_dir02

## [1] "C:/Users/acarr/Documents/GitHub/506-OceanWater-Team1/data/Ocean Water/water_quality_2000_2010_da
curr_dir03 <- here("data/Ocean Water/water_quality_2011_2019_datasd.csv")
curr_dir03

## [1] "C:/Users/acarr/Documents/GitHub/506-OceanWater-Team1/data/Ocean Water/water_quality_2011_2019_da
curr_dir04 <- here("data/Ocean Water/water_quality_2020_2021_datasd.csv")
curr_dir04

## [1] "C:/Users/acarr/Documents/GitHub/506-OceanWater-Team1/data/Ocean Water/water_quality_2020_2021_da
#setwd('C:/Users/Connie/Documents/Masters Applied Data Science USD/506/Week2/Final
#      Project/Ocean WAtter')

#owt_df01a <- read_csv("water_quality_1990_1999_datasd.csv", col_types =
#  cols(date_sample=col_date("%Y-%m-%d")))
#owt_df01b <- read_csv("water_quality_2000_2010_datasd.csv", col_types =
#  cols(date_sample=col_date("%Y-%m-%d")))
#owt_df01c <- read_csv("water_quality_2011_2019_datasd.csv", col_types =
#  cols(date_sample=col_date("%Y-%m-%d")))
#owt_df01d <- read_csv("water_quality_2020_2021_datasd.csv", col_types =
#  cols(date_sample=col_date("%Y-%m-%d")))

owt_df01a <- read.csv(curr_dir01, header = TRUE, sep = ",")
owt_df01b <- read.csv(curr_dir02, header = TRUE, sep = ",")

```

```

owt_df01c <- read.csv(curr_dir03, header = TRUE, sep = ",")
owt_df01d <- read.csv(curr_dir04, header = TRUE, sep = ",")

# Merge 4 seperate dataframes into 1
owt_df01 <- rbind(owt_df01a, owt_df01b, owt_df01c, owt_df01d)

# Citation: https://gist.github.com/makexu93/05ef0f34306d3ab6c9ca8ddcd702ceee1
owt_df01 <- owt_df01[order(owt_df01$date_sample, decreasing = FALSE), ]
row.names(owt_df01) <- NULL

print(head(owt_df01, 17))

##           sample station depth_m date_sample      time project parameter
## 1  9011158743      C5     9.0 1990-11-15    PLOO CHLOROPHYLL
## 2  9011158743      C5     9.0 1990-11-15    PLOO DENSITY
## 3  9011158743      C5     9.0 1990-11-15    PLOO DO
## 4  9011158743      C5     9.0 1990-11-15    PLOO PH
## 5  9011158743      C5     9.0 1990-11-15    PLOO SALINITY
## 6  9011158743      C5     9.0 1990-11-15    PLOO TEMP
## 7  9011158743      C5     9.0 1990-11-15    PLOO XMS
## 8  9011158834     I25     6.0 1990-11-15    SBOO CHLOROPHYLL
## 9  9011158834     I25     6.0 1990-11-15    SBOO DENSITY
## 10 9011158834     I25     6.0 1990-11-15    SBOO DO
## 11 9011158834     I25     6.0 1990-11-15    SBOO PH
## 12 9011158834     I25     6.0 1990-11-15    SBOO SALINITY
## 13 9011158834     I25     6.0 1990-11-15    SBOO TEMP
## 14 9011158834     I25     6.0 1990-11-15    SBOO XMS
## 15 KE000001         A1     1.5 1991-01-02 7:18:00 PST    PLOO ENTERO
## 16 KE000001         A1     1.5 1991-01-02 7:18:00 PST    PLOO FECAL
## 17 CTD000001        A1     1.5 1991-01-02 7:18:00 PST    PLOO TEMP

##           qualifier   value      units
## 1             0.870 ug/L
## 2            23.855 sigma-t
## 3             6.550 mg/L
## 4             8.080 pH
## 5            33.617 ppt
## 6             19.430 C
## 7             44.850 %
## 8             1.270 ug/L
## 9            23.853 sigma-t
## 10            7.410 mg/L
## 11            8.180 pH
## 12            33.574 ppt
## 13            19.310 C
## 14            75.600 %
## 15             e 200.000 CFU/100 mL
## 16            > 1200.000 CFU/100 mL
## 17            14.500 C

describe(owt_df01)

##          vars     n   mean      sd min    max range   se
## sample       1 1236769    NaN     NA Inf -Inf -Inf    NA
```

```

## station      2 1236769     NaN      NA Inf    -Inf    -Inf   NA
## depth_m     3 1152608  19.38   25.07   1     116    115  0.02
## date_sample 4 1236769     NaN      NA Inf    -Inf    -Inf   NA
## time        5 1236769     NaN      NA Inf    -Inf    -Inf   NA
## project     6 1236769     NaN      NA Inf    -Inf    -Inf   NA
## parameter   7 1236769     NaN      NA Inf    -Inf    -Inf   NA
## qualifier   8 1236769     NaN      NA Inf    -Inf    -Inf   NA
## value       9 1231466 124.24 1785.21 -37 1100000 1100037 1.61
## units      10 1236769    NaN      NA Inf    -Inf    -Inf   NA

#write.csv(owt_df01, "C:/Users/acarr/Sync/Programming/Python and R/ADS Markdown
→ Files/ADS-506 Markdown/Final Project/data/Ocean Water/ocean_df01.csv")

```

Factorize and format column types; print NA counts

```

# List of parameter values
param_lst01 <- c("CHLOROPHYLL",
                  "DENSITY",
                  "DO",
                  "ENTERO",
                  "FECAL",
                  "OG",
                  "PH",
                  "SALINITY",
                  "SUSO",
                  "TEMP",
                  "TOTAL",
                  "XMS")

# List of col names
col_lst01 <- c("sample",
                 "station",
                 "date_sample",
                 "time",
                 "project",
                 "parameter",
                 "qualifier",
                 "units")

# Citation: https://www.geeksforgeeks.org/find-columns-and-rows-with-na-in-r-dataframe/
owt_df02 <- owt_df01
for(c in col_lst01) {
  owt_df02[, c] <- as.factor(owt_df02[, c])
}

# Generate NA summary tables
# Citation: https://www.geeksforgeeks.org/replace-character-value-with-na-in-r/
owt_df02[owt_df02 == ""] <- NA
print(head(owt_df02, 17))

##          sample station depth_m date_sample      time project parameter
## 1 9011158743      C5     9.0 1990-11-15 <NA>     PL00 CHLOROPHYLL
## 2 9011158743      C5     9.0 1990-11-15 <NA>     PL00      DENSITY
## 3 9011158743      C5     9.0 1990-11-15 <NA>     PL00        DO

```

```

## 4 9011158743 C5 9.0 1990-11-15 <NA> PLOO PH
## 5 9011158743 C5 9.0 1990-11-15 <NA> PLOO SALINITY
## 6 9011158743 C5 9.0 1990-11-15 <NA> PLOO TEMP
## 7 9011158743 C5 9.0 1990-11-15 <NA> PLOO XMS
## 8 9011158834 I25 6.0 1990-11-15 <NA> SB00 CHLOROPHYLL
## 9 9011158834 I25 6.0 1990-11-15 <NA> SB00 DENSITY
## 10 9011158834 I25 6.0 1990-11-15 <NA> SB00 DO
## 11 9011158834 I25 6.0 1990-11-15 <NA> SB00 PH
## 12 9011158834 I25 6.0 1990-11-15 <NA> SB00 SALINITY
## 13 9011158834 I25 6.0 1990-11-15 <NA> SB00 TEMP
## 14 9011158834 I25 6.0 1990-11-15 <NA> SB00 XMS
## 15 KE000001 A1 1.5 1991-01-02 7:18:00 PST PLOO ENTERO
## 16 KE000001 A1 1.5 1991-01-02 7:18:00 PST PLOO FECAL
## 17 CTD000001 A1 1.5 1991-01-02 7:18:00 PST PLOO TEMP

## qualifier value units
## 1 <NA> 0.870 ug/L
## 2 <NA> 23.855 sigma-t
## 3 <NA> 6.550 mg/L
## 4 <NA> 8.080 pH
## 5 <NA> 33.617 ppt
## 6 <NA> 19.430 C
## 7 <NA> 44.850 %
## 8 <NA> 1.270 ug/L
## 9 <NA> 23.853 sigma-t
## 10 <NA> 7.410 mg/L
## 11 <NA> 8.180 pH
## 12 <NA> 33.574 ppt
## 13 <NA> 19.310 C
## 14 <NA> 75.600 %
## 15 e 200.000 CFU/100 mL
## 16 > 1200.000 CFU/100 mL
## 17 <NA> 14.500 C

owt_df02_na <- sapply(owt_df02, function(x) sum(is.na(x)))
owt_df02_notna <- sapply(owt_df02, function(x) sum(!is.na(x)))
owt_df02_tb101 <- rbind(owt_df02_notna, owt_df02_na)
owt_df02_tb102 <- rbind(owt_df02_tb101, round(prop.table(owt_df02_tb101, margin = 2), 4))
print("All parameters")

## [1] "All parameters"

print(owt_df02_tb102)

##           sample station depth_m date_sample      time project
## owt_df02_notna 1236769 1236769 1152608.000    1236769 1075929.00 1236769
## owt_df02_na      0       0     84161.000          0   160840.00   0
## owt_df02_notna     1       1      0.932          1      0.87    1
## owt_df02_na      0       0      0.068          0      0.13    0
##           parameter qualifier      value  units
## owt_df02_notna 1236769 394867.0000 1231466.0000 1236769
## owt_df02_na      0 841902.0000   5303.0000        0
## owt_df02_notna     1      0.3193     0.9957        1
## owt_df02_na      0      0.6807     0.0043        0

```

```

owt_df02a <- owt_df02[which(is.na(owt_df02), arr.ind=TRUE), ]
#print(head(owt_df02a, 17))

for(p in param_lst01) {
  df = owt_df02[owt_df02$parameter == p, ]
  print(head(df[which(is.na(df$value)), arr.ind=TRUE], , 17))
  df_na <- sapply(df, function(x) sum(is.na(x)))
  df_notna <- sapply(df, function(x) sum(!is.na(x)))
  df_tbl01 <- rbind(df_notna, df_na)
  df_tbl02 <- rbind(df_tbl01, round(prop.table(df_tbl01, margin = 2), 4))
  rownames(df_tbl02) <- c("Not NA n", "NA n", "Not NA %", "NA %")
  print(p)
  print(df_tbl02) # This table w/ null counts and proportions for each feature not
  ~ displayed for space purposes
}

##           sample station depth_m date_sample time project parameter
## 272260 1229972635     B10    1.5 1997-12-29 <NA>    PL00 CHLOROPHYLL
## 272267 1229972638     B10   42.7 1997-12-29 <NA>    PL00 CHLOROPHYLL
## 272274 1229972633     B10   61.0 1997-12-29 <NA>    PL00 CHLOROPHYLL
## 272281 1229972634     B10   79.2 1997-12-29 <NA>    PL00 CHLOROPHYLL
## 272288 1229972637     B10   97.5 1997-12-29 <NA>    PL00 CHLOROPHYLL
## 272295 1229972636     B10  115.8 1997-12-29 <NA>    PL00 CHLOROPHYLL
## 272302 1229972643     B11    1.5 1997-12-29 <NA>    PL00 CHLOROPHYLL
## 272309 1229972639     B11   42.7 1997-12-29 <NA>    PL00 CHLOROPHYLL
## 272316 1229972642     B11   61.0 1997-12-29 <NA>    PL00 CHLOROPHYLL
## 272323 1229972641     B11   79.2 1997-12-29 <NA>    PL00 CHLOROPHYLL
## 272330 1229972640     B11   88.4 1997-12-29 <NA>    PL00 CHLOROPHYLL
## 272337 1229972644     B13    1.5 1997-12-29 <NA>    PL00 CHLOROPHYLL
## 272344 1229972648     B13   42.7 1997-12-29 <NA>    PL00 CHLOROPHYLL
## 272351 1229972647     B13   61.0 1997-12-29 <NA>    PL00 CHLOROPHYLL
## 272358 1229972646     B13   79.2 1997-12-29 <NA>    PL00 CHLOROPHYLL
## 272365 1229972649     B13   97.5 1997-12-29 <NA>    PL00 CHLOROPHYLL
## 272372 1229972645     B13  115.8 1997-12-29 <NA>    PL00 CHLOROPHYLL
##           qualifier value units
## 272260      <NA>    NA ug/L
## 272267      <NA>    NA ug/L
## 272274      <NA>    NA ug/L
## 272281      <NA>    NA ug/L
## 272288      <NA>    NA ug/L
## 272295      <NA>    NA ug/L
## 272302      <NA>    NA ug/L
## 272309      <NA>    NA ug/L
## 272316      <NA>    NA ug/L
## 272323      <NA>    NA ug/L
## 272330      <NA>    NA ug/L
## 272337      <NA>    NA ug/L
## 272344      <NA>    NA ug/L
## 272351      <NA>    NA ug/L
## 272358      <NA>    NA ug/L
## 272365      <NA>    NA ug/L
## 272372      <NA>    NA ug/L
## [1] "CHLOROPHYLL"

```

```

##           sample station depth_m date_sample      time project parameter
## Not NA n   88471    88471    88471        88471 74093.0000 88471    88471
## NA n       0         0         0             0 14378.0000 0         0
## Not NA %    1         1         1             1 0.8375 1         1
## NA %       0         0         0             0 0.1625 0         0
##           qualifier      value units
## Not NA n      0 87911.0000 88471
## NA n        88471 560.0000 0
## Not NA %      0 0.9937 1
## NA %        1 0.0063 0
##           sample station depth_m date_sample      time project parameter
## 429235 1018012132 E16     1.5 2001-10-18 8:32:00 PST PL00 DENSITY
## 503878 513032821 C8      1.0 2003-05-13 10:30:00 PST PL00 DENSITY
## 547108 601042705 C4      1.0 2004-06-01 11:37:00 PST PL00 DENSITY
## 720423 702082492 A6      1.0 2008-07-02 9:42:00 PST PL00 DENSITY
## 720433 702082490 A6     12.0 2008-07-02 9:42:00 PST PL00 DENSITY
## 720443 702082491 A6     18.0 2008-07-02 9:42:00 PST PL00 DENSITY
## 720453 702082495 A7      1.0 2008-07-02 9:05:00 PST PL00 DENSITY
## 720463 702082493 A7     12.0 2008-07-02 9:05:00 PST PL00 DENSITY
## 720473 702082494 A7     18.0 2008-07-02 9:05:00 PST PL00 DENSITY
## 720483 702082498 C4      1.0 2008-07-02 11:45:00 PST PL00 DENSITY
## 720493 702082496 C4      3.0 2008-07-02 11:45:00 PST PL00 DENSITY
## 720503 702082497 C4     9.0 2008-07-02 11:45:00 PST PL00 DENSITY
## 720513 702082501 C5      1.0 2008-07-02 11:25:00 PST PL00 DENSITY
## 720523 702082499 C5      3.0 2008-07-02 11:25:00 PST PL00 DENSITY
## 720533 702082500 C5     9.0 2008-07-02 11:25:00 PST PL00 DENSITY
## 720543 702082504 C6      1.0 2008-07-02 11:12:00 PST PL00 DENSITY
## 720553 702082502 C6      3.0 2008-07-02 11:12:00 PST PL00 DENSITY
##           qualifier value units
## 429235 <NA> NA sigma-t
## 503878 <NA> NA sigma-t
## 547108 <NA> NA sigma-t
## 720423 <NA> NA sigma-t
## 720433 <NA> NA sigma-t
## 720443 <NA> NA sigma-t
## 720453 <NA> NA sigma-t
## 720463 <NA> NA sigma-t
## 720473 <NA> NA sigma-t
## 720483 <NA> NA sigma-t
## 720493 <NA> NA sigma-t
## 720503 <NA> NA sigma-t
## 720513 <NA> NA sigma-t
## 720523 <NA> NA sigma-t
## 720533 <NA> NA sigma-t
## 720543 <NA> NA sigma-t
## 720553 <NA> NA sigma-t
## [1] "DENSITY"
##           sample station depth_m date_sample      time project parameter
## Not NA n   88317    88317    88317        88317 73999.0000 88317    88317
## NA n       0         0         0             0 14318.0000 0         0
## Not NA %    1         1         1             1 0.8379 1         1
## NA %       0         0         0             0 0.1621 0         0
##           qualifier      value units
## Not NA n      0 88256.0000 88317

```

```

## NA n      88317    61.0000    0
## Not NA %      0     0.9993    1
## NA %      1     0.0007    0
##           sample station depth_m date_sample      time project parameter
## 82185    CTD014940     A11     42.7 1993-05-06 10:45:00 PST    PL00    DO
## 168703   1024942994     A1      1.5 1994-10-24  9:10:00 PST    PL00    DO
## 168713   1024942995     A1      3.0 1994-10-24  9:10:00 PST    PL00    DO
## 168723   1024942996     A1      6.1 1994-10-24  9:10:00 PST    PL00    DO
## 168733   1024942997     A1     12.2 1994-10-24  9:10:00 PST    PL00    DO
## 168734   1024942998     A1     12.2 1994-10-24  9:10:00 PST    PL00    DO
## 168748   1024942999     A1     18.3 1994-10-24  9:10:00 PST    PL00    DO
## 237009   909962654      B2      1.5 1996-09-09 12:11:00 PST    PL00    DO
## 237017   909962655      B2     12.2 1996-09-09 12:11:00 PST    PL00    DO
## 237025   909962656      B2     18.3 1996-09-09 12:11:00 PST    PL00    DO
## 369865   713002413      A1      1.5 2000-07-13 11:06:00 PST    PL00    DO
## 369878   713002414      A1     12.2 2000-07-13 11:06:00 PST    PL00    DO
## 369889   713002415      A1     18.3 2000-07-13 11:06:00 PST    PL00    DO
## 373128   816002467      A7      1.5 2000-08-16  8:49:00 PST    PL00    DO
## 373140   816002468      A7     12.2 2000-08-16  8:49:00 PST    PL00    DO
## 373151   816002469      A7     18.3 2000-08-16  8:49:00 PST    PL00    DO
## 375761   905002505      I6     27.4 2000-09-05 10:41:00 PST    SB00    DO
##           qualifier value units
## 82185      <NA>    NA mg/L
## 168703      <NA>    NA mg/L
## 168713      <NA>    NA mg/L
## 168723      <NA>    NA mg/L
## 168733      <NA>    NA mg/L
## 168734      <NA>    NA mg/L
## 168748      <NA>    NA mg/L
## 237009      <NA>    NA mg/L
## 237017      <NA>    NA mg/L
## 237025      <NA>    NA mg/L
## 369865      <NA>    NA mg/L
## 369878      <NA>    NA mg/L
## 369889      <NA>    NA mg/L
## 373128      <NA>    NA mg/L
## 373140      <NA>    NA mg/L
## 373151      <NA>    NA mg/L
## 375761      <NA>    NA mg/L
## [1] "DO"
##           sample station depth_m date_sample      time project parameter
## Not NA n 109542  109542  109542      109542 83392.0000 109542 109542
## NA n      0       0       0          0 26150.0000    0       0
## Not NA %      1       1       1          1     0.7613    1       1
## NA %      0       0       0          0     0.2387    0       0
##           qualifier      value units
## Not NA n      0 109437.000 109542
## NA n      109542 105.000    0
## Not NA %      0     0.999    1
## NA %      1     0.001    0
##           sample station depth_m date_sample      time project parameter
## 25057    M0001828     A2      1.0 1991-10-09 8:27:00 PST    PL00    ENTERO
## 81650    SH000903     D5      NA 1993-05-04      <NA>    PL00    ENTERO
## 103629   1208931380     A2      3.0 1993-12-08 8:20:00 PST    PL00    ENTERO

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## 103642 1208931381      A2      6.1  1993-12-08 8:20:00 PST    PLOO  ENTERO
## 103655 1208931382      A2     12.2  1993-12-08 8:20:00 PST    PLOO  ENTERO
## 103668 1208931383      A2     18.3  1993-12-08 8:20:00 PST    PLOO  ENTERO
## 103701 1208931385      A2     30.5  1993-12-08 8:20:00 PST    PLOO  ENTERO
## 103714 1208931386      A2     36.6  1993-12-08 8:20:00 PST    PLOO  ENTERO
## 103727 1208931387      A2     42.7  1993-12-08 8:20:00 PST    PLOO  ENTERO
## 103740 1208931388      A2     48.8  1993-12-08 8:20:00 PST    PLOO  ENTERO
## 103753 1208931389      A2     54.9  1993-12-08 8:20:00 PST    PLOO  ENTERO
## 103812 1208931392      A3      3.0  1993-12-08 9:49:00 PST    PLOO  ENTERO
## 103825 1208931393      A3      6.1  1993-12-08 9:49:00 PST    PLOO  ENTERO
## 103838 1208931394      A3     12.2  1993-12-08 9:49:00 PST    PLOO  ENTERO
## 103851 1208931395      A3     18.3  1993-12-08 9:49:00 PST    PLOO  ENTERO
## 103882 1208931397      A3     30.5  1993-12-08 9:49:00 PST    PLOO  ENTERO
## 103895 1208931398      A3     36.6  1993-12-08 9:49:00 PST    PLOO  ENTERO
##           qualifier value   units
## 25057          e    NA CFU/100 mL
## 81650        <NA>  NA CFU/100 mL
## 103629        <NA>  NA CFU/100 mL
## 103642        <NA>  NA CFU/100 mL
## 103655        <NA>  NA CFU/100 mL
## 103668        <NA>  NA CFU/100 mL
## 103701        <NA>  NA CFU/100 mL
## 103714        <NA>  NA CFU/100 mL
## 103727        <NA>  NA CFU/100 mL
## 103740        <NA>  NA CFU/100 mL
## 103753        <NA>  NA CFU/100 mL
## 103812        <NA>  NA CFU/100 mL
## 103825        <NA>  NA CFU/100 mL
## 103838        <NA>  NA CFU/100 mL
## 103851        <NA>  NA CFU/100 mL
## 103882        <NA>  NA CFU/100 mL
## 103895        <NA>  NA CFU/100 mL
## [1] "ENTERO"
##           sample station   depth_m date_sample       time project parameter
## Not NA n 144341 144341 116186.0000 144341 144012.0000 144341 144341
## NA n      0      0  28155.0000      0  329.0000      0      0
## Not NA %  1      1    0.8049      1  0.9977      1      1
## NA %      0      0    0.1951      0  0.0023      0      0
##           qualifier value   units
## Not NA n 136251.000 143075.0000 144341
## NA n      8090.000 1266.0000      0
## Not NA %  0.944   0.9912      1
## NA %      0.056   0.0088      0
##           sample station depth_m date_sample       time project parameter
## 39760 M0003378      B3     61.0  1992-03-04 9:23:00 PST    PLOO  FECAL
## 73538 M0002093      A4     79.2  1993-02-03 9:15:00 PST    PLOO  FECAL
## 81651 SH000903      D5      NA  1993-05-04 <NA>    PLOO  FECAL
## 82671 SH001257      D7      NA  1993-05-11 9:43:00 PST    PLOO  FECAL
## 103630 1208931380      A2     3.0  1993-12-08 8:20:00 PST    PLOO  FECAL
## 103643 1208931381      A2     6.1  1993-12-08 8:20:00 PST    PLOO  FECAL
## 103656 1208931382      A2     12.2  1993-12-08 8:20:00 PST    PLOO  FECAL
## 103669 1208931383      A2     18.3  1993-12-08 8:20:00 PST    PLOO  FECAL
## 103702 1208931385      A2     30.5  1993-12-08 8:20:00 PST    PLOO  FECAL
## 103715 1208931386      A2     36.6  1993-12-08 8:20:00 PST    PLOO  FECAL

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## 103728 1208931387      A2    42.7  1993-12-08 8:20:00 PST    PLOO    FECAL
## 103741 1208931388      A2    48.8  1993-12-08 8:20:00 PST    PLOO    FECAL
## 103754 1208931389      A2    54.9  1993-12-08 8:20:00 PST    PLOO    FECAL
## 103813 1208931392      A3     3.0  1993-12-08 9:49:00 PST    PLOO    FECAL
## 103826 1208931393      A3     6.1  1993-12-08 9:49:00 PST    PLOO    FECAL
## 103839 1208931394      A3    12.2  1993-12-08 9:49:00 PST    PLOO    FECAL
## 103852 1208931395      A3    18.3  1993-12-08 9:49:00 PST    PLOO    FECAL
##           qualifier value   units
## 39760          <    NA CFU/100 mL
## 73538          <    NA CFU/100 mL
## 81651        <NA>  NA CFU/100 mL
## 82671        <NA>  NA CFU/100 mL
## 103630        <NA>  NA CFU/100 mL
## 103643        <NA>  NA CFU/100 mL
## 103656        <NA>  NA CFU/100 mL
## 103669        <NA>  NA CFU/100 mL
## 103702        <NA>  NA CFU/100 mL
## 103715        <NA>  NA CFU/100 mL
## 103728        <NA>  NA CFU/100 mL
## 103741        <NA>  NA CFU/100 mL
## 103754        <NA>  NA CFU/100 mL
## 103813        <NA>  NA CFU/100 mL
## 103826        <NA>  NA CFU/100 mL
## 103839        <NA>  NA CFU/100 mL
## 103852        <NA>  NA CFU/100 mL
## [1] "FECAL"
##           sample station depth_m date_sample       time project parameter
## Not NA n 137649 137649 109633.0000 137649 137322.0000 137649 137649
## NA n      0      0 28016.0000      0 327.0000      0      0
## Not NA % 1      1 0.7965      1 0.9976      1      1
## NA %      0      0 0.2035      0 0.0024      0      0
##           qualifier value   units
## Not NA n 127994.0000 136405.000 137649
## NA n      9655.0000 1244.000      0
## Not NA % 0.9299 0.991      1
## NA %      0.0701 0.009      0
##           sample station depth_m date_sample       time project parameter
## 112401 112941961      A1    12.2  1994-01-12 8:36:00 PST    PLOO    OG
## 125289 309941665      A4    79.2  1994-03-09 10:06:00 PST    PLOO    OG
## 136304 503941704      B5     1.5  1994-05-03 10:24:00 PST    PLOO    OG
## 136346 503941705      B5    24.4  1994-05-03 10:24:00 PST    PLOO    OG
## 136396 503941706      B5    61.0  1994-05-03 10:24:00 PST    PLOO    OG
## 136772 504941833      A2    24.4  1994-05-04 8:02:00 PST    PLOO    OG
## 137186 504941844      A6     1.5  1994-05-04 9:17:00 PST    PLOO    OG
## 137212 504941845      A6    12.2  1994-05-04 9:17:00 PST    PLOO    OG
## 137213 504941846      A6    12.2  1994-05-04 9:17:00 PST    PLOO    OG
## 137223 504941847      A6    18.3  1994-05-04 9:17:00 PST    PLOO    OG
## 137485 505941970      A7     1.5  1994-05-05 10:19:00 PST    PLOO    OG
## 137511 505941971      A7    12.2  1994-05-05 10:19:00 PST    PLOO    OG
## 137512 505941972      A7    12.2  1994-05-05 10:19:00 PST    PLOO    OG
## 137522 505941973      A7    18.3  1994-05-05 10:19:00 PST    PLOO    OG
## 137532 505941974      B1     1.5  1994-05-05 7:50:00 PST    PLOO    OG
## 137574 505941975      B1    24.4  1994-05-05 7:50:00 PST    PLOO    OG
## 137575 505941976      B1    24.4  1994-05-05 7:50:00 PST    PLOO    OG

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##      qualifier value units
## 112401      <NA>    NA mg/L
## 125289      <NA>    NA mg/L
## 136304      <NA>    NA mg/L
## 136346      <NA>    NA mg/L
## 136396      <NA>    NA mg/L
## 136772      <NA>    NA mg/L
## 137186      <NA>    NA mg/L
## 137212      <NA>    NA mg/L
## 137213      <NA>    NA mg/L
## 137223      <NA>    NA mg/L
## 137485      <NA>    NA mg/L
## 137511      <NA>    NA mg/L
## 137512      <NA>    NA mg/L
## 137522      <NA>    NA mg/L
## 137532      <NA>    NA mg/L
## 137574      <NA>    NA mg/L
## 137575      <NA>    NA mg/L
## [1] "OG"
##      sample station depth_m date_sample      time project parameter
## Not NA n    7944     7944     7944       7944 7940.0000    7944    7944
## NA n        0         0         0           0   4.0000       0         0
## Not NA %     1         1         1           1   0.9995       1         1
## NA %        0         0         0           0   0.0005       0         0
##      qualifier      value units
## Not NA n 7673.0000 7922.0000 7944
## NA n     271.0000 22.0000 0
## Not NA %  0.9659  0.9972 1
## NA %     0.0341  0.0028 0
##      sample station depth_m date_sample      time project parameter
## 168706 1024942994     A1     1.5 1994-10-24 9:10:00 PST PL00 PH
## 168716 1024942995     A1     3.0 1994-10-24 9:10:00 PST PL00 PH
## 168726 1024942996     A1     6.1 1994-10-24 9:10:00 PST PL00 PH
## 168737 1024942997     A1    12.2 1994-10-24 9:10:00 PST PL00 PH
## 168738 1024942998     A1    12.2 1994-10-24 9:10:00 PST PL00 PH
## 168751 1024942999     A1    18.3 1994-10-24 9:10:00 PST PL00 PH
## 332755 923992590     A1     1.5 1999-09-23 7:40:00 PST PL00 PH
## 332767 923992591     A1    12.2 1999-09-23 7:40:00 PST PL00 PH
## 332778 923992592     A1    18.3 1999-09-23 7:40:00 PST PL00 PH
## 332799 923992593     A6     1.5 1999-09-23 8:47:00 PST PL00 PH
## 332810 923992594     A6    12.2 1999-09-23 8:47:00 PST PL00 PH
## 332821 923992595     A6    18.3 1999-09-23 8:47:00 PST PL00 PH
## 332833 923992596     A7     1.5 1999-09-23 7:57:00 PST PL00 PH
## 332844 923992597     A7    12.2 1999-09-23 7:57:00 PST PL00 PH
## 332855 923992598     A7    18.3 1999-09-23 7:57:00 PST PL00 PH
## 332866 923992599     C4     1.5 1999-09-23 10:24:00 PST PL00 PH
## 332877 923992600     C4     3.0 1999-09-23 10:24:00 PST PL00 PH
##      qualifier value units
## 168706      <NA>    NA pH
## 168716      <NA>    NA pH
## 168726      <NA>    NA pH
## 168737      <NA>    NA pH
## 168738      <NA>    NA pH
## 168751      <NA>    NA pH

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## 332755 <NA> NA pH
## 332767 <NA> NA pH
## 332778 <NA> NA pH
## 332799 <NA> NA pH
## 332810 <NA> NA pH
## 332821 <NA> NA pH
## 332833 <NA> NA pH
## 332844 <NA> NA pH
## 332855 <NA> NA pH
## 332866 <NA> NA pH
## 332877 <NA> NA pH
## [1] "PH"
##           sample station depth_m date_sample      time project parameter
## Not NA n 107818 107818 107818      107818 81668.0000 107818 107818
## NA n      0       0       0          0 26150.0000      0       0
## Not NA %  1       1       1          1  0.7575      1       1
## NA %      0       0       0          0  0.2425      0       0
##           qualifier value units
## Not NA n      0 107564.0000 107818
## NA n        107818 254.0000      0
## Not NA %      0     0.9976      1
## NA %        1     0.0024      0
##           sample station depth_m date_sample      time project parameter
## 82188 CTD014940 A11   42.7 1993-05-06 10:45:00 PST PLOO SALINITY
## 168707 1024942994 A1    1.5 1994-10-24 9:10:00 PST PLOO SALINITY
## 168717 1024942995 A1    3.0 1994-10-24 9:10:00 PST PLOO SALINITY
## 168727 1024942996 A1    6.1 1994-10-24 9:10:00 PST PLOO SALINITY
## 168739 1024942997 A1   12.2 1994-10-24 9:10:00 PST PLOO SALINITY
## 168740 1024942998 A1   12.2 1994-10-24 9:10:00 PST PLOO SALINITY
## 168752 1024942999 A1   18.3 1994-10-24 9:10:00 PST PLOO SALINITY
## 369870 713002413 A1    1.5 2000-07-13 11:06:00 PST PLOO SALINITY
## 369882 713002414 A1   12.2 2000-07-13 11:06:00 PST PLOO SALINITY
## 369893 713002415 A1   18.3 2000-07-13 11:06:00 PST PLOO SALINITY
## 373133 816002467 A7    1.5 2000-08-16 8:49:00 PST PLOO SALINITY
## 373144 816002468 A7   12.2 2000-08-16 8:49:00 PST PLOO SALINITY
## 373155 816002469 A7   18.3 2000-08-16 8:49:00 PST PLOO SALINITY
## 429241 1018012132 E16   1.5 2001-10-18 8:32:00 PST PLOO SALINITY
## 468131 813022786 C6    6.0 2002-08-13 11:10:00 PST PLOO SALINITY
## 503883 513032821 C8    1.0 2003-05-13 10:30:00 PST PLOO SALINITY
## 547113 601042705 C4    1.0 2004-06-01 11:37:00 PST PLOO SALINITY
##           qualifier value units
## 82188 <NA> NA ppt
## 168707 <NA> NA ppt
## 168717 <NA> NA ppt
## 168727 <NA> NA ppt
## 168739 <NA> NA ppt
## 168740 <NA> NA ppt
## 168752 <NA> NA ppt
## 369870 <NA> NA ppt
## 369882 <NA> NA ppt
## 369893 <NA> NA ppt
## 373133 <NA> NA ppt
## 373144 <NA> NA ppt
## 373155 <NA> NA ppt

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## 429241      <NA>    NA   ppt
## 468131      <NA>    NA   ppt
## 503883      <NA>    NA   ppt
## 547113      <NA>    NA   ppt
## [1] "SALINITY"
##           sample station depth_m date_sample      time project parameter
## Not NA n  109492  109492  109492      109492 83351.0000 109492  109492
## NA n      0       0       0          0 26141.0000 0       0
## Not NA %    1       1       1          1 0.7613   1       1
## NA %      0       0       0          0 0.2387   0       0
##           qualifier      value units
## Not NA n      0 109318.0000 109492
## NA n      109492 174.0000 0
## Not NA %      0 0.9984   1
## NA %      1 0.0016   0
##           sample station depth_m date_sample      time project parameter
## 182188  119951890    B1    61.0 1995-01-19 7:25:00 PST  PL00  SUSO
## 197840  413951394    B9    97.5 1995-04-13 11:32:00 PST  PL00  SUSO
## 236137  821961617    B9    1.5 1996-08-21 8:23:00 PST  PL00  SUSO
## 236146  821961618    B9    42.7 1996-08-21 8:23:00 PST  PL00  SUSO
## 236171  821961619    B9    97.5 1996-08-21 8:23:00 PST  PL00  SUSO
## 236208  821961620    E10   1.5 1996-08-21 10:58:00 PST  PL00  SUSO
## 236217  821961621    E10   42.7 1996-08-21 10:58:00 PST  PL00  SUSO
## 236242  821961622    E10   88.4 1996-08-21 10:58:00 PST  PL00  SUSO
## 237106  910961040    A1    12.2 1996-09-10 7:23:00 PST  PL00  SUSO
## 237115  910961041    A1    18.3 1996-09-10 7:23:00 PST  PL00  SUSO
## 237125  910961042    A6    1.5 1996-09-10 8:45:00 PST  PL00  SUSO
## 237143  910961044    A6    18.3 1996-09-10 8:45:00 PST  PL00  SUSO
## 237153  910961045    A7    1.5 1996-09-10 8:13:00 PST  PL00  SUSO
## 237162  910961046    A7    12.2 1996-09-10 8:13:00 PST  PL00  SUSO
## 262334  814971868    A6    18.3 1997-08-14 9:00:00 PST  PL00  SUSO
## 267067  1015971437   E5    42.7 1997-10-15 12:28:00 PST  PL00  SUSO
## 278347  311981070    B12   1.5 1998-03-11 7:48:00 PST  PL00  SUSO
##           qualifier value units
## 182188      <NA>    NA mg/L
## 197840      <NA>    NA mg/L
## 236137      <NA>    NA mg/L
## 236146      <NA>    NA mg/L
## 236171      <NA>    NA mg/L
## 236208      <NA>    NA mg/L
## 236217      <NA>    NA mg/L
## 236242      <NA>    NA mg/L
## 237106      <NA>    NA mg/L
## 237115      <NA>    NA mg/L
## 237125      <NA>    NA mg/L
## 237143      <NA>    NA mg/L
## 237153      <NA>    NA mg/L
## 237162      <NA>    NA mg/L
## 262334      <NA>    NA mg/L
## 267067      <NA>    NA mg/L
## 278347      <NA>    NA mg/L
## [1] "SUSO"
##           sample station depth_m date_sample      time project parameter
## Not NA n  27543   27543   27543      27543 27538.0000 27543  27543

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## NA n      0      0      0      0      5.0000      0      0
## Not NA %  1      1      1      1      0.9998      1      1
## NA %      0      0      0      0      0.0002      0      0
##           qualifier   value units
## Not NA n  1290.0000 27515.000 27543
## NA n     26253.0000    28.000    0
## Not NA %   0.0468    0.999     1
## NA %     0.9532    0.001     0
##           sample station depth_m date_sample      time project parameter
## 81483 CTD013369      K4    18.3 1993-05-03 7:07:00 PST    PLOO    TEMP
## 82189 CTD014940      A11    42.7 1993-05-06 10:45:00 PST    PLOO    TEMP
## 82454 CTD013374      K4    18.3 1993-05-06 8:52:00 PST    PLOO    TEMP
## 82871 CTD013384      K4    18.3 1993-05-12 7:36:00 PST    PLOO    TEMP
## 83293 CTD008245      C6     1.5 1993-05-19 12:10:00 PST    PLOO    TEMP
## 83297 CTD008246      C6     3.0 1993-05-19 12:10:00 PST    PLOO    TEMP
## 83301 CTD008247      C6     6.1 1993-05-19 12:10:00 PST    PLOO    TEMP
## 83495 CTD013399      K4    18.3 1993-05-20 7:20:00 PST    PLOO    TEMP
## 83500 CTD008251      C6     1.5 1993-05-21 12:58:00 PST    PLOO    TEMP
## 83504 CTD008252      C6     3.0 1993-05-21 12:58:00 PST    PLOO    TEMP
## 83508 CTD008253      C6     6.1 1993-05-21 12:58:00 PST    PLOO    TEMP
## 83562 CTD004913      A7     1.5 1993-05-24 8:31:00 PST    PLOO    TEMP
## 83567 CTD004914      A7     3.0 1993-05-24 8:31:00 PST    PLOO    TEMP
## 83572 CTD004915      A7     6.1 1993-05-24 8:31:00 PST    PLOO    TEMP
## 83577 CTD004916      A7    12.2 1993-05-24 8:31:00 PST    PLOO    TEMP
## 83582 CTD004917      A7    18.3 1993-05-24 8:31:00 PST    PLOO    TEMP
## 83652 CTD009898      C7    18.3 1993-05-24 9:12:00 PST    PLOO    TEMP
##           qualifier value units
## 81483 <NA>    NA    C
## 82189 <NA>    NA    C
## 82454 <NA>    NA    C
## 82871 <NA>    NA    C
## 83293 <NA>    NA    C
## 83297 <NA>    NA    C
## 83301 <NA>    NA    C
## 83495 <NA>    NA    C
## 83500 <NA>    NA    C
## 83504 <NA>    NA    C
## 83508 <NA>    NA    C
## 83562 <NA>    NA    C
## 83567 <NA>    NA    C
## 83572 <NA>    NA    C
## 83577 <NA>    NA    C
## 83582 <NA>    NA    C
## 83652 <NA>    NA    C
## [1] "TEMP"
##           sample station depth_m date_sample      time project parameter
## Not NA n 139066 139066 139066 139066 112709.0000 139066 139066
## NA n      0      0      0      0      26357.0000      0      0
## Not NA %  1      1      1      1      0.8105      1      1
## NA %      0      0      0      0      0.1895      0      0
##           qualifier   value units
## Not NA n      0 139046.0000 139066
## NA n     139066    20.0000    0
## Not NA %      0    0.9999     1

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```

## NA %
      1      0.0001      0
##           sample station depth_m date_sample      time project parameter
## 81652    SH000903      D5      NA 1993-05-04      <NA>    PLOO    TOTAL
## 82672    SH001257      D7      NA 1993-05-11 9:43:00 PST    PLOO    TOTAL
## 101335   1124931032    C6     1.5 1993-11-24 8:23:00 PST    PLOO    TOTAL
## 103637   1208931380    A2     3.0 1993-12-08 8:20:00 PST    PLOO    TOTAL
## 103650   1208931381    A2     6.1 1993-12-08 8:20:00 PST    PLOO    TOTAL
## 103663   1208931382    A2    12.2 1993-12-08 8:20:00 PST    PLOO    TOTAL
## 103676   1208931383    A2    18.3 1993-12-08 8:20:00 PST    PLOO    TOTAL
## 103709   1208931385    A2    30.5 1993-12-08 8:20:00 PST    PLOO    TOTAL
## 103722   1208931386    A2    36.6 1993-12-08 8:20:00 PST    PLOO    TOTAL
## 103735   1208931387    A2    42.7 1993-12-08 8:20:00 PST    PLOO    TOTAL
## 103748   1208931388    A2    48.8 1993-12-08 8:20:00 PST    PLOO    TOTAL
## 103761   1208931389    A2    54.9 1993-12-08 8:20:00 PST    PLOO    TOTAL
## 103820   1208931392    A3     3.0 1993-12-08 9:49:00 PST    PLOO    TOTAL
## 103833   1208931393    A3     6.1 1993-12-08 9:49:00 PST    PLOO    TOTAL
## 103846   1208931394    A3    12.2 1993-12-08 9:49:00 PST    PLOO    TOTAL
## 103859   1208931395    A3    18.3 1993-12-08 9:49:00 PST    PLOO    TOTAL
## 103890   1208931397    A3    30.5 1993-12-08 9:49:00 PST    PLOO    TOTAL
##           qualifier value      units
## 81652      <NA>    NA CFU/100 mL
## 82672      <NA>    NA CFU/100 mL
## 101335     <NA>    NA CFU/100 mL
## 103637     <NA>    NA CFU/100 mL
## 103650     <NA>    NA CFU/100 mL
## 103663     <NA>    NA CFU/100 mL
## 103676     <NA>    NA CFU/100 mL
## 103709     <NA>    NA CFU/100 mL
## 103722     <NA>    NA CFU/100 mL
## 103735     <NA>    NA CFU/100 mL
## 103748     <NA>    NA CFU/100 mL
## 103761     <NA>    NA CFU/100 mL
## 103820     <NA>    NA CFU/100 mL
## 103833     <NA>    NA CFU/100 mL
## 103846     <NA>    NA CFU/100 mL
## 103859     <NA>    NA CFU/100 mL
## 103890     <NA>    NA CFU/100 mL
## [1] "TOTAL"
##           sample station      depth_m date_sample      time project parameter
## Not NA n 137584 137584 109594.0000 137584 137257.0000 137584 137584
## NA n      0      0 27990.0000      0 327.0000      0      0
## Not NA % 1      1 0.7966      1 0.9976      1      1
## NA %      0      0 0.2034      0 0.0024      0      0
##           qualifier      value      units
## Not NA n 121659.0000 136141.0000 137584
## NA n      15925.0000 1443.0000      0
## Not NA % 0.8843 0.9895      1
## NA %      0.1157 0.0105      0
##           sample station depth_m date_sample      time project parameter
## 81485    CTD013369    K4    18.3 1993-05-03 7:07:00 PST    PLOO    XMS
## 82191    CTD014940    A11   42.7 1993-05-06 10:45:00 PST    PLOO    XMS
## 82456    CTD013374    K4    18.3 1993-05-06 8:52:00 PST    PLOO    XMS
## 82873    CTD013384    K4    18.3 1993-05-12 7:36:00 PST    PLOO    XMS
## 83497    CTD013399    K4    18.3 1993-05-20 7:20:00 PST    PLOO    XMS

```

```

## 83564 CTD004913      A7      1.5 1993-05-24 8:31:00 PST    PLOO     XMS
## 83569 CTD004914      A7      3.0 1993-05-24 8:31:00 PST    PLOO     XMS
## 83574 CTD004915      A7      6.1 1993-05-24 8:31:00 PST    PLOO     XMS
## 83579 CTD004916      A7     12.2 1993-05-24 8:31:00 PST    PLOO     XMS
## 83584 CTD004917      A7     18.3 1993-05-24 8:31:00 PST    PLOO     XMS
## 83654 CTD009898      C7     18.3 1993-05-24 9:12:00 PST    PLOO     XMS
## 283998 526982378    E17     97.5 1998-05-26 <NA>    PLOO     XMS
## 286055 618982765    B10    115.8 1998-06-18 <NA>    PLOO     XMS
## 286090 618982769    B11     88.4 1998-06-18 <NA>    PLOO     XMS
## 286307 618982818    E17     97.5 1998-06-18 <NA>    PLOO     XMS
## 286342 618982825    E19     88.4 1998-06-18 <NA>    PLOO     XMS
## 291432 827982068    E24    115.8 1998-08-27 <NA>    PLOO     XMS
##           qualifier value units
## 81485      <NA>   NA %
## 82191      <NA>   NA %
## 82456      <NA>   NA %
## 82873      <NA>   NA %
## 83497      <NA>   NA %
## 83564      <NA>   NA %
## 83569      <NA>   NA %
## 83574      <NA>   NA %
## 83579      <NA>   NA %
## 83584      <NA>   NA %
## 83654      <NA>   NA %
## 283998     <NA>   NA %
## 286055     <NA>   NA %
## 286090     <NA>   NA %
## 286307     <NA>   NA %
## 286342     <NA>   NA %
## 291432     <NA>   NA %
## [1] "XMS"
##           sample station depth_m date_sample          time project parameter
## Not NA n 139002 139002 139002      139002 112648.0000 139002 139002
## NA n      0       0       0          0 26354.0000      0       0
## Not NA %  1       1       1          1 0.8104        1       1
## NA %      0       0       0          0 0.1896        0       0
##           qualifier      value units
## Not NA n      0 138876.0000 139002
## NA n        139002 126.0000      0
## Not NA %      0 0.9991        1
## NA %        1 0.0009        0

# Display value summaries
# Citation: Dave Hurst
params <- owt_df02 %>%
  mutate(unit_def = paste(parameter, qualifier, units)) %>%
  count(unit_def)
print(params)

##           unit_def      n
## 1 CHLOROPHYLL NA ug/L 88471
## 2 DENSITY NA sigma-t 88317
## 3 DO NA mg/L 109542
## 4 ENTERO < CFU/100 mL 95848

```

```

## 5    ENTERO > CFU/100 mL      452
## 6    ENTERO e CFU/100 mL    39766
## 7    ENTERO LA CFU/100 mL      23
## 8    ENTERO NA CFU/100 mL    8090
## 9    ENTERO ND CFU/100 mL      1
## 10   ENTERO NR CFU/100 mL      1
## 11   ENTERO NS CFU/100 mL    160
## 12   FECAL < CFU/100 mL    85819
## 13   FECAL > CFU/100 mL     746
## 14   FECAL e CFU/100 mL    41255
## 15   FECAL LA CFU/100 mL      8
## 16   FECAL NA CFU/100 mL    9655
## 17   FECAL ND CFU/100 mL      1
## 18   FECAL NR CFU/100 mL      4
## 19   FECAL NS CFU/100 mL    161
## 20          OG < mg/L    7673
## 21          OG NA mg/L    271
## 22          PH NA pH    107818
## 23          SALINITY NA ppt 109492
## 24          SUSO < mg/L    1290
## 25          SUSO NA mg/L   26253
## 26          TEMP NA C    139066
## 27          TOTAL < CFU/100 mL  66655
## 28          TOTAL > CFU/100 mL  2844
## 29          TOTAL >= CFU/100 mL  3
## 30          TOTAL e CFU/100 mL  51924
## 31          TOTAL LA CFU/100 mL  14
## 32          TOTAL NA CFU/100 mL  15925
## 33          TOTAL ND CFU/100 mL  54
## 34          TOTAL NR CFU/100 mL  4
## 35          TOTAL NS CFU/100 mL  161
## 36          XMS NA %    139002

```

Bin depth_m variable

```

owt_df02$date_sample <- as.Date(owt_df02$date_sample, "%Y-%m-%d")

# Create bins for depth_m values
depth_lvls01 <- c("[0,8)",
                  "[8,33)",
                  "[33,47)",
                  "[47,70)",
                  "[70,90)",
                  "[90,112)",
                  "[112,120]",
                  "Unknown")

# Plot distribution of depth_m values
# Citation:
→ https://community.rstudio.com/t/ggplot-x-axis-y-axis-ticks-labels-breaks-and-limits/119123/2
ggplot(owt_df02, aes(x = depth_m)) +
  geom_histogram(color = "black", bins = 40, aes(y = stat(density))) +
  geom_density(col = "blue") +

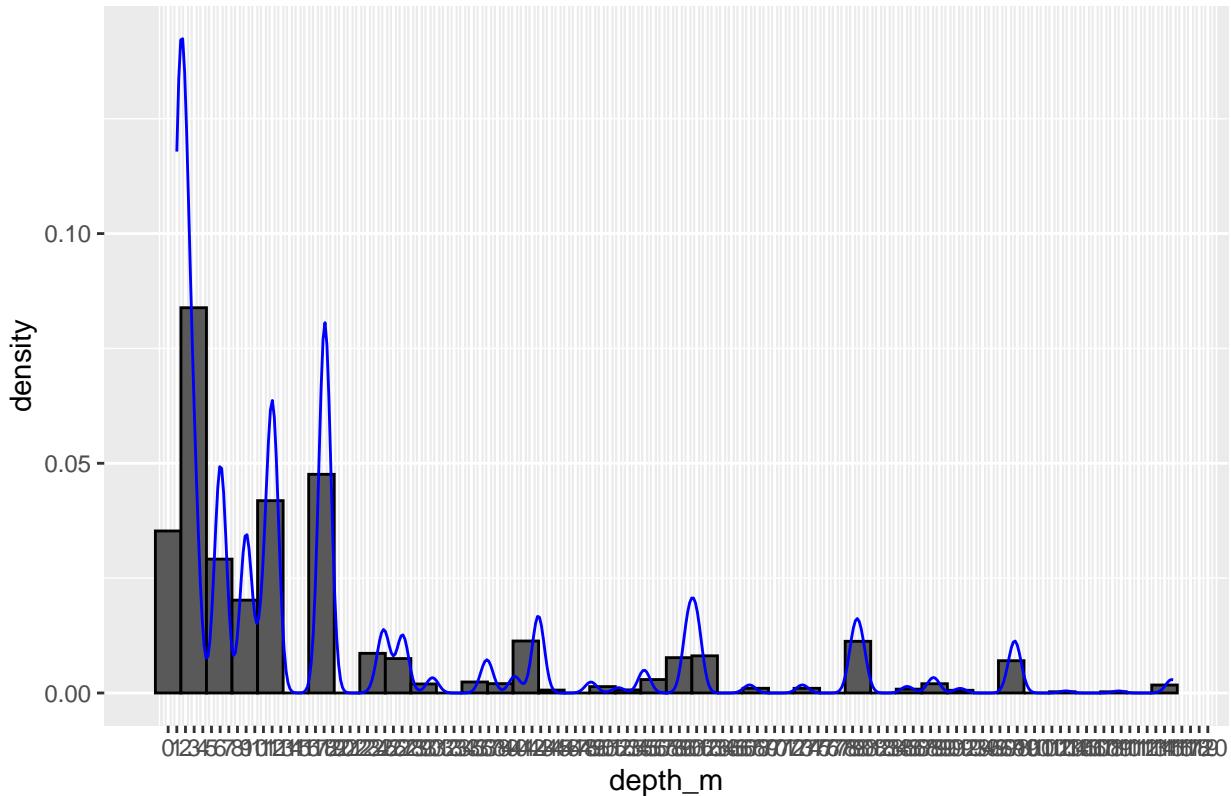
```

```

  labs(title = "Histogram of `depth_m` Feature") +
  scale_x_continuous(breaks=seq(0,120,1)) +
  theme(plot.title = element_text(hjust = 0.5, size = 12))

```

Histogram of `depth_m` Feature



```

# Create new column with bins
# Citation:
#   https://www.marsja.se/r-add-column-to-dataframe-based-on-other-columns-conditions-dplyr/
owt_df02 <- mutate(owt_df02, depth_m_bin = case_when(depth_m < 8 ~ "[0,8)",
                                                 depth_m < 33 ~ "[8,33)",
                                                 depth_m < 47 ~ "[33,47)",
                                                 depth_m < 70 ~ "[47,70)",
                                                 depth_m < 90 ~ "[70,90)",
                                                 depth_m < 112 ~ "[90,112)",
                                                 depth_m >= 112 ~ "[112,120]"))

# Replace NAs with "Unknown"
# Citation: https://statisticsglobe.com/r-replace-na-with-0/
owt_df02$depth_m_bin <- replace_na(owt_df02$depth_m_bin, "Unknown")

# Citation: https://www.statology.org/order-bars-ggplot2-bar-chart/
owt_df02$depth_m_bin_factr = factor(owt_df02$depth_m_bin, levels = depth_lvls01)
print(head(owt_df02, 17))

##           sample station depth_m date_sample      time project parameter
## 1  9011158743       C5     9.0 1990-11-15 <NA>    PL00 CHLOROPHYLL
## 2  9011158743       C5     9.0 1990-11-15 <NA>    PL00      DENSITY

```

```

## 3 9011158743 C5 9.0 1990-11-15 <NA> PLOO DO
## 4 9011158743 C5 9.0 1990-11-15 <NA> PLOO PH
## 5 9011158743 C5 9.0 1990-11-15 <NA> PLOO SALINITY
## 6 9011158743 C5 9.0 1990-11-15 <NA> PLOO TEMP
## 7 9011158743 C5 9.0 1990-11-15 <NA> PLOO XMS
## 8 9011158834 I25 6.0 1990-11-15 <NA> SB00 CHLOROPHYLL
## 9 9011158834 I25 6.0 1990-11-15 <NA> SB00 DENSITY
## 10 9011158834 I25 6.0 1990-11-15 <NA> SB00 DO
## 11 9011158834 I25 6.0 1990-11-15 <NA> SB00 PH
## 12 9011158834 I25 6.0 1990-11-15 <NA> SB00 SALINITY
## 13 9011158834 I25 6.0 1990-11-15 <NA> SB00 TEMP
## 14 9011158834 I25 6.0 1990-11-15 <NA> SB00 XMS
## 15 KE000001 A1 1.5 1991-01-02 7:18:00 PST PLOO ENTERO
## 16 KE000001 A1 1.5 1991-01-02 7:18:00 PST PLOO FECAL
## 17 CTD000001 A1 1.5 1991-01-02 7:18:00 PST PLOO TEMP
##   qualifier value units depth_m_bin depth_m_bin_factr
## 1 <NA> 0.870 ug/L [8,33) [8,33)
## 2 <NA> 23.855 sigma-t [8,33) [8,33)
## 3 <NA> 6.550 mg/L [8,33) [8,33)
## 4 <NA> 8.080 pH [8,33) [8,33)
## 5 <NA> 33.617 ppt [8,33) [8,33)
## 6 <NA> 19.430 C [8,33) [8,33)
## 7 <NA> 44.850 % [8,33) [8,33)
## 8 <NA> 1.270 ug/L [0,8) [0,8)
## 9 <NA> 23.853 sigma-t [0,8) [0,8)
## 10 <NA> 7.410 mg/L [0,8) [0,8)
## 11 <NA> 8.180 pH [0,8) [0,8)
## 12 <NA> 33.574 ppt [0,8) [0,8)
## 13 <NA> 19.310 C [0,8) [0,8)
## 14 <NA> 75.600 % [0,8) [0,8)
## 15 e 200.000 CFU/100 mL [0,8) [0,8)
## 16 > 1200.000 CFU/100 mL [0,8) [0,8)
## 17 <NA> 14.500 C [0,8) [0,8)

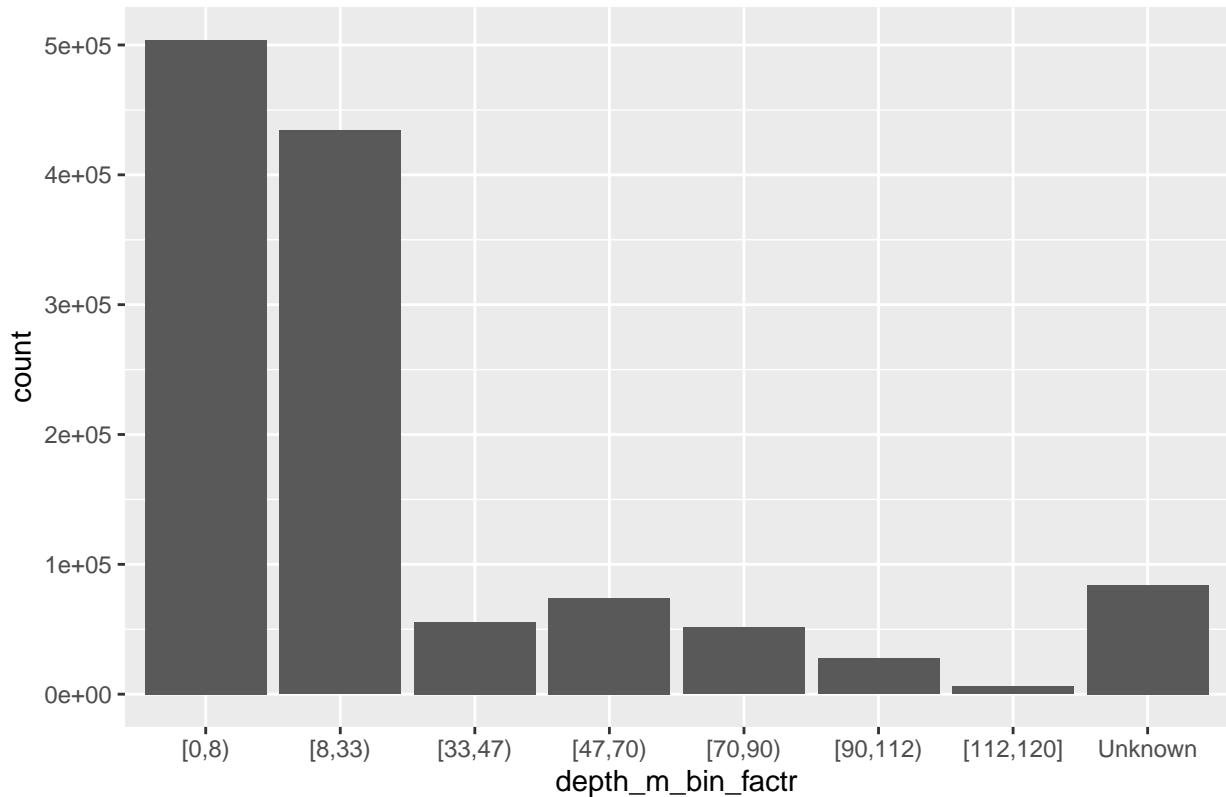
```

```

# Display transformed bar chart
ggplot(owt_df02, aes(x = depth_m_bin_factr)) +
  geom_bar() +
  labs(title = "Bar of `depth_m_bin` Feature") +
  theme(plot.title = element_text(hjust = 0.5, size = 12))

```

Bar of `depth_m_bin` Feature



Perform several aggregations on the data for performing EDA at multiple levels

```
# Display aggregations by different features
owt_df02_gb01 <- owt_df02 %>%
  group_by(station) %>%
  summarise(Count = n())

print(owt_df02_gb01[owt_df02_gb01$Count == min(owt_df02_gb01$Count), ])

## # A tibble: 2 x 2
##   station Count
##   <fct>    <int>
## 1 A15        30
## 2 A16        30

print(owt_df02_gb01[owt_df02_gb01$Count == max(owt_df02_gb01$Count), ])

## # A tibble: 1 x 2
##   station Count
##   <fct>    <int>
## 1 A1       55217

owt_df02_gb02 <- owt_df02 %>%
  group_by(project) %>%
  summarise(Count = n())
```

```

owt_df02_gb03 <- owt_df02 %>%
  group_by(date_sample) %>%
  summarise(Count = n())

# Main DF1
owt_df02_gb04 <- owt_df02 %>%
  group_by(date_sample, parameter) %>%
  summarise(Avg = mean(value, na.remove = TRUE))

## `summarise()` has grouped output by 'date_sample'. You can override using the
## `.groups` argument.

owt_df02_gb05 <- owt_df02 %>%
  group_by(parameter) %>%
  summarise(Count = n())

owt_df02_gb06 <- owt_df02 %>%
  group_by(depth_m) %>%
  summarise(Count = n())

# Main DF3
owt_df02_gb07 <- owt_df02 %>%
  group_by(date_sample, project, depth_m_bin, parameter) %>%
  summarise(Avg = mean(value, na.remove = TRUE))

## `summarise()` has grouped output by 'date_sample', 'project', 'depth_m_bin'.
## You can override using the `.groups` argument.

owt_df02_gb08 <- owt_df02 %>%
  group_by(depth_m_bin) %>%
  summarise(Count = n())

# Main DF2
owt_df02_gb09 <- owt_df02 %>%
  group_by(date_sample, project, parameter) %>%
  summarise(Avg = mean(value, na.remove = TRUE))

## `summarise()` has grouped output by 'date_sample', 'project'. You can override
## using the `.groups` argument.

print(owt_df02_gb01)

## # A tibble: 157 x 2
##       station Count
##       <fct>    <int>
## 1 A1          55217
## 2 A10         5852
## 3 A11         6602
## 4 A12         5812
## 5 A13         6599
## 6 A14         5886
## 7 A15          30
## 8 A16          30
## 9 A17        2961
## 10 A2         7572

```

```

## # ... with 147 more rows
print(dim(owt_df02_gb01))

## [1] 157    2
print(owt_df02_gb02)

## # A tibble: 2 x 2
##   project  Count
##   <fct>    <int>
## 1 PL00     805915
## 2 SB00     430854
print(dim(owt_df02_gb02))

## [1] 2 2
print(head(owt_df02_gb03, 17))

## # A tibble: 17 x 2
##   date_sample  Count
##   <date>      <int>
## 1 1990-11-15    14
## 2 1991-01-02   195
## 3 1991-01-03   195
## 4 1991-01-07   190
## 5 1991-01-08   181
## 6 1991-01-09   577
## 7 1991-01-10   200
## 8 1991-01-11   174
## 9 1991-01-14   195
## 10 1991-01-16  195
## 11 1991-01-22  194
## 12 1991-01-23  221
## 13 1991-01-28  189
## 14 1991-01-30  195
## 15 1991-02-04  222
## 16 1991-02-06  195
## 17 1991-02-11  195
print(dim(owt_df02_gb03))

## [1] 5580    2
print(head(owt_df02_gb04, 17))

## # A tibble: 17 x 3
## # Groups:   date_sample [3]
##   date_sample parameter     Avg
##   <date>      <fct>     <dbl>
## 1 1990-11-15  CHLOROPHYLL  1.07
## 2 1990-11-15  DENSITY     23.9
## 3 1990-11-15  DO          6.98
## 4 1990-11-15  PH          8.13
## 5 1990-11-15  SALINITY    33.6
## 6 1990-11-15  TEMP        19.4

```

```

## 7 1990-11-15 XMS      60.2
## 8 1991-01-02 ENTERO   32.1
## 9 1991-01-02 FECAL   126.
## 10 1991-01-02 TEMP    14.5
## 11 1991-01-02 TOTAL   442.
## 12 1991-01-02 XMS    80.0
## 13 1991-01-03 ENTERO   18.7
## 14 1991-01-03 FECAL   51.3
## 15 1991-01-03 TEMP    14.4
## 16 1991-01-03 TOTAL   181.
## 17 1991-01-03 XMS    83.9

print(dim(owt_df02_gb04))

## [1] 36811      3

print(owt_df02_gb05)

## # A tibble: 12 x 2
##       parameter     Count
##       <fct>        <int>
## 1 CHLOROPHYLL  88471
## 2 DENSITY       88317
## 3 DO            109542
## 4 ENTERO        144341
## 5 FECAL         137649
## 6 OG            7944
## 7 PH            107818
## 8 SALINITY      109492
## 9 SUSO          27543
## 10 TEMP          139066
## 11 TOTAL         137584
## 12 XMS          139002

print(dim(owt_df02_gb05))

## [1] 12  2

print(owt_df02_gb06)

## # A tibble: 51 x 2
##       depth_m     Count
##       <dbl>    <int>
## 1      1     119858
## 2      1.5    93937
## 3      2     120007
## 4      3      71058
## 5      6      55762
## 6      6.1    43265
## 7      9      65616
## 8      9.1    3052
## 9     11     23069
## 10    12     80308
## # ... with 41 more rows

```

```

print(dim(owt_df02_gb06))

## [1] 51  2

print(head(owt_df02_gb07, 17))

## # A tibble: 17 x 5
## # Groups:   date_sample, project, depth_m_bin [3]
##   date_sample project depth_m_bin parameter     Avg
##   <date>      <fct>    <chr>       <fct>     <dbl>
## 1 1990-11-15 PL00    [8,33)    CHLOROPHYLL  0.87
## 2 1990-11-15 PL00    [8,33)    DENSITY     23.9
## 3 1990-11-15 PL00    [8,33)    DO          6.55
## 4 1990-11-15 PL00    [8,33)    PH          8.08
## 5 1990-11-15 PL00    [8,33)    SALINITY    33.6
## 6 1990-11-15 PL00    [8,33)    TEMP         19.4
## 7 1990-11-15 PL00    [8,33)    XMS         44.8
## 8 1990-11-15 SB00    [0,8)     CHLOROPHYLL  1.27
## 9 1990-11-15 SB00    [0,8)     DENSITY     23.9
## 10 1990-11-15 SB00    [0,8)    DO          7.41
## 11 1990-11-15 SB00    [0,8)    PH          8.18
## 12 1990-11-15 SB00    [0,8)    SALINITY    33.6
## 13 1990-11-15 SB00    [0,8)    TEMP         19.3
## 14 1990-11-15 SB00    [0,8)    XMS         75.6
## 15 1991-01-02 PL00    [0,8)    ENTERO     34.1
## 16 1991-01-02 PL00    [0,8)    FECAL      135.
## 17 1991-01-02 PL00    [0,8)    TEMP         14.6

print(dim(owt_df02_gb07))

## [1] 121286      5

print(owt_df02_gb08)

## # A tibble: 8 x 2
##   depth_m_bin  Count
##   <chr>        <int>
## 1 [0,8)        503887
## 2 [112,120]    5908
## 3 [33,47)      55629
## 4 [47,70)      74036
## 5 [70,90)      51358
## 6 [8,33)       434169
## 7 [90,112)     27621
## 8 Unknown      84161

print(dim(owt_df02_gb08))

## [1] 8 2

print(head(owt_df02_gb09, 17))

## # A tibble: 17 x 4
## # Groups:   date_sample, project [3]
##   date_sample project parameter     Avg
##   <date>      <fct>    <fct>     <dbl>

```

```

## 1 1990-11-15 PL00 CHLOROPHYLL 0.87
## 2 1990-11-15 PL00 DENSITY 23.9
## 3 1990-11-15 PL00 DO 6.55
## 4 1990-11-15 PL00 PH 8.08
## 5 1990-11-15 PL00 SALINITY 33.6
## 6 1990-11-15 PL00 TEMP 19.4
## 7 1990-11-15 PL00 XMS 44.8
## 8 1990-11-15 SB00 CHLOROPHYLL 1.27
## 9 1990-11-15 SB00 DENSITY 23.9
## 10 1990-11-15 SB00 DO 7.41
## 11 1990-11-15 SB00 PH 8.18
## 12 1990-11-15 SB00 SALINITY 33.6
## 13 1990-11-15 SB00 TEMP 19.3
## 14 1990-11-15 SB00 XMS 75.6
## 15 1991-01-02 PL00 ENTERO 32.1
## 16 1991-01-02 PL00 FECAL 126.
## 17 1991-01-02 PL00 TEMP 14.5

print(dim(owt_df02_gb09))

```

```
## [1] 48395 4
```

Create custom function to df mutation/casting and boxplot display

```

ts_eda <- function(ts_df = NA,
                     form_lead = c(),
                     form_cast = c(),
                     param_lst = c(),
                     l1_col = c(),
                     l1_param = c(),
                     l2_col = c(),
                     l2_param = c(),
                     rtn_met = TRUE,
                     grph_title = "All",
                     box = TRUE,
                     week_agg = FALSE,
                     out_rm = FALSE) {
  # Define function to dcast, print boxplot, and print desc stats for each parameter
  dcast_form <- as.formula(paste(paste(form_lead, collapse = "+"), form_cast, sep = "~"))
  print(dcast_form)
  #print(head(ts_df))

  counter <- 1
  # Loop to dcast parameters to cols
  for(p in param_lst) {
    sym_param <- sym(p)
    print(sym_param)
    param_df <- ts_df[ts_df[, form_cast] == p, ]
    param_df <- param_df %>%
      drop_na()
    #print(param_df)

    if(week_agg == TRUE) {
      param_df02a <- param_df

```

```

param_df02a$week <- isoweek(param_df02a$date_sample)
# Citation: https://lubridate.tidyverse.org/reference/round\_date.html
param_df02a$week_end <- ceiling_date(param_df02a$date_sample,
                                         unit = "week",
                                         week_start = getOption("lubridate.week.start",
                                         ↪ 1))

#print(head(param_df02a, 17))
param_df$date_sample <- param_df02a$week_end
}

# Citation: https://www.datasciencemadesimple.com/melting-casting-r/
param_df_cast <- dcast(param_df, dcast_form, mean)
#print(head(param_df_cast, 17))

# If keyword set to TRUE, removed outliers
if(out_rm == TRUE) {
  #ts_df_mrgd01c <- na.omit(param_df_cast)
  #print(head(ts_df_mrgd01c, 17))
  #print(dim(ts_df_mrgd01c))
  ts_df_mrgd01c_s1 <- subset(x = param_df_cast, select = p)
  ts_df_mrgd01c_s1_fit <- preProcess(ts_df_mrgd01c_s1,
                                         method = c("center", "scale"))
  ts_df_mrgd01c_s1_trans <- predict(ts_df_mrgd01c_s1_fit,
                                         ts_df_mrgd01c_s1)

  # Subset non-outlier data
  print(dim(param_df_cast))
  param_df_cast <- subset(param_df_cast,
                           (abs(ts_df_mrgd01c_s1_trans) <= 3))
  dfs1b <- param_df_cast[, p]
  #print(head(param_df_cast, 17))
}

# For first item in vector, no merge is needed
if(counter == 1) {
  ts_df_mrgd <- param_df_cast
}
# For 2-n items in vector, merge dataframes iteratively
else {
  # Merge individual casted parameter df's into 1 df
  # Citation: https://www.geeksforgeeks.org/joining-of-dataframes-in-r-programming/
  ts_df_mrgd <- merge(x = ts_df_mrgd,
                        y = param_df_cast,
                        by = form_lead,
                        all = TRUE)
}

# Run custom function to ID outliers and generate boxplot
#ts_df_mrgd01a <- subset(x = ts_df_mrgd, select = num_var_lst01)
ts_df_mrgd01a <- na.omit(param_df_cast)
#print(head(ts_df_mrgd01a, 17))
print(dim(ts_df_mrgd01a))
dfs1 <- subset(x = ts_df_mrgd01a, select = p)

```

```

dfs1a <- dfs1
#print(head(dfs1a, 17))

dfs1a$Groups <- as.factor(grph_title)
box_comp(xcol = p,
          df = dfs1,
          rtn_met = rtn_met,
          box = box)
#dfs_lst <- list(dfs1)
#print(dfs_lst)

#
#-----#
# Create subplots based on additional agg layers
print(paste0("L2 length = ", length(l2_param)))
if(length(l2_param) == 0) {
  for(l1 in l1_param) {
    ts_df_mrgd_chl_dmb1 <- ts_df_mrgd01a[(ts_df_mrgd01a[, l1_col] == l1), ]

    # Run custom function to ID outliers and generate boxplot
    #print(head(ts_df_mrgd_chl_dmb1))
    # Citation: https://www.geeksforgeeks.org/handling-errors-in-r-programming/
    dfs2 <- subset(x = ts_df_mrgd_chl_dmb1, select = p)
    dfs2a <- dfs2

    try(dfs2a$Groups <- as.factor(l1))
    try(box_comp(xcol = p,
                  df = dfs2,
                  rtn_met = rtn_met,
                  grph_title = l1,
                  box = box),
        silent = TRUE)
    dfs1a <- rbind(dfs1a, dfs2a)
  }
}
else {
  for(l1 in l1_param) {
    for(l2 in l2_param) {
      ts_df_mrgd_chl_dmb1 <- ts_df_mrgd01a[(ts_df_mrgd01a[, l1_col] == l1) &
→ (ts_df_mrgd01a[, l2_col] == l2), ]

      # Run custom function to ID outliers and generate boxplot
      #print(head(ts_df_mrgd_chl_dmb1))
      # Citation: https://www.geeksforgeeks.org/handling-errors-in-r-programming/
      dfs3 <- subset(x = ts_df_mrgd_chl_dmb1, select = p)
      dfs3a <- dfs3

      try(dfs3a$Groups <- as.factor(paste0(l1, ":", l2)))
      try(box_comp(xcol = p,
                    df = dfs3,

```

```

        rtn_met = rtn_met,
        grph_title = paste0(l1, ":", l2),
        box = box),
    silent = TRUE)
  dfs1a <- rbind(dfs1a, dfs3a)
}
}
#
#-----#
#print(dim(dfs1a))
#print(head(dfs1a, 17))
bx_form <- as.formula(paste(p, "Groups", sep = "~"))
#print(bx_form)
#dfs1a$box_factr = factor(owt_df02$depth_m_bin, levels = depth_lvls01)
#print(head(dfs1a, 17))
boxplot(bx_form,
        dfs1a,
        main = "Boxplot(s)")

  counter <- counter + 1
}
print(head(ts_df_mrgd, 17))
print(describe(ts_df_mrgd))

# Display summary of NA count
ts_df_na <- sapply(ts_df, function(x) sum(is.na(x)))
ts_df_notna <- sapply(ts_df, function(x) sum(!is.na(x)))
ts_df_tbl01 <- rbind(ts_df_notna, ts_df_na)
ts_df_tbl02 <- rbind(ts_df_tbl01, round(prop.table(ts_df_tbl01, margin = 2), 4))
rownames(ts_df_tbl02) <- c("Not NA n", "NA n", "Not NA %", "NA %")
print(ts_df_tbl02) # This table w/ null counts and proportions for each feature not
  ↪ displayed for space purposes
return(ts_df_mrgd)
}

```

Run custom function on data aggregated by date_sample and parameter

```

param_lst02 <- c("CHLOROPHYLL",
                 "DENSITY",
                 "DO",
                 "ENTERO",
                 "FECAL",
                 "OG",
                 "PH",
                 "SALINITY",
                 "SUSO",
                 "TEMP",
                 "XMS")

owt_df02_gb04_mrgd = ts_eda(ts_df = owt_df02_gb04,
                             form_lead = "date_sample",
                             form_cast = "parameter",

```

```

        param_lst = param_lst02,
        rtn_met = TRUE,
        box = FALSE,
        week_agg = FALSE
    )
}

## date_sample ~ parameter
## <environment: 0x000001c4ac003258>
## CHLOROPHYLL

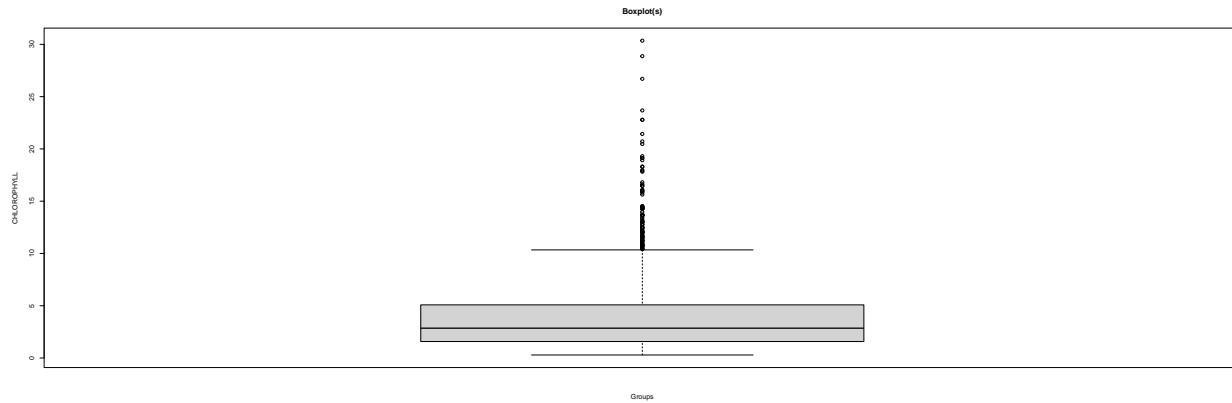
## Using Avg as value column: use value.var to override.

## [1] 2092    2
##          metric            V2
## 1           Variable: CHLOROPHYLL
## 2           Total N:
## 3             Count      2092
## 4             NA Count     0
## 5             Mean      3.91
## 6             Median     2.853
## 7   Standard Deviation     3.411
## 8             Variance    11.633
## 9             Range      30.064
## 10            Min       0.29
## 11            Max      30.353
## 12   25th Percentile     1.576
## 13   75th Percentile     5.083
## 14 Subset w/o Outliers:
## 15             Count      2050
## 16             %       98%
## 17             Outlier %     2%
## 18             NA Count     0
## 19             Mean      3.626
## 20             Median     2.791
## 21   Standard Deviation     2.74
## 22             Variance    7.507
## 23             Range      13.676
## 24             Min       0.29
## 25             Max      13.965
## [1] "L2 length = 0"

## DENSITY

## Using Avg as value column: use value.var to override.

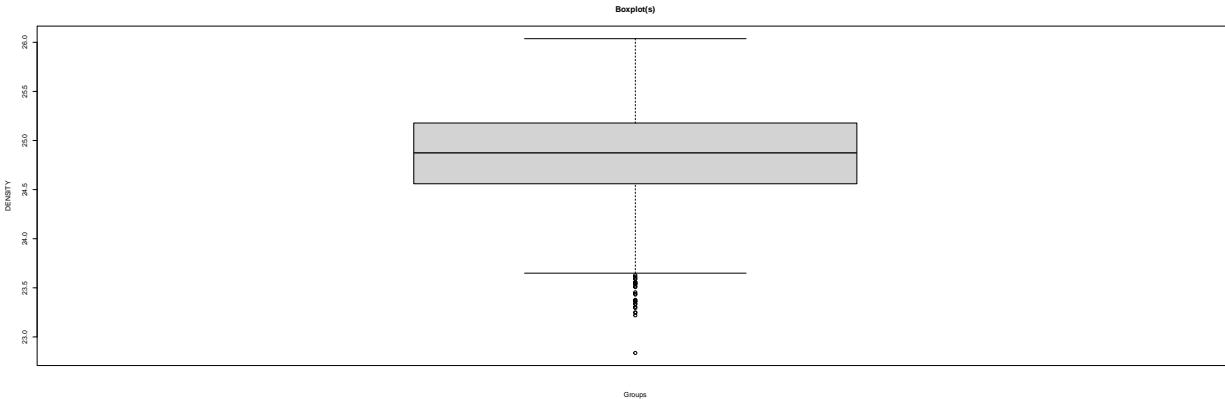
```



```

## [1] 2246    2
##               metric          V2
## 1                  Variable: DENSITY
## 2                  Total N:
## 3                  Count      2246
## 4                  NA Count   0
## 5                  Mean       24.85
## 6                  Median     24.874
## 7      Standard Deviation  0.466
## 8                  Variance   0.217
## 9                  Range      3.2
## 10                 Min       22.837
## 11                 Max       26.037
## 12      25th Percentile   24.56
## 13      75th Percentile   25.178
## 14 Subset w/o Outliers:
## 15                 Count      2232
## 16                 %        99.4%
## 17      Outlier %        0.6%
## 18                 NA Count   0
## 19                 Mean      24.86
## 20                 Median    24.877
## 21      Standard Deviation  0.451
## 22                 Variance  0.203
## 23                 Range     2.583
## 24                 Min      23.454
## 25                 Max      26.037
## [1] "L2 length = 0"
## DO
## Using Avg as value column: use value.var to override.

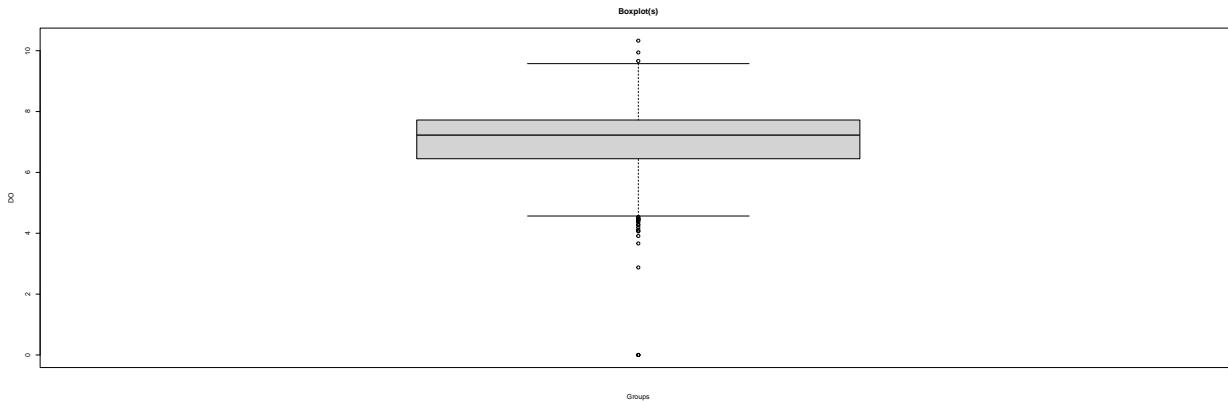
```



```

## [1] 2504    2
##           metric      V2
## 1          Variable: D0
## 2          Total N:
## 3          Count     2504
## 4          NA Count   0
## 5          Mean      7.041
## 6          Median     7.226
## 7          Standard Deviation 0.99
## 8          Variance    0.98
## 9          Range      10.329
## 10         Min       0
## 11         Max      10.329
## 12         25th Percentile 6.451
## 13         75th Percentile 7.722
## 14 Subset w/o Outliers:
## 15         Count     2494
## 16         %        99.6%
## 17         Outlier % 0.4%
## 18         NA Count   0
## 19         Mean      7.057
## 20         Median     7.232
## 21         Standard Deviation 0.937
## 22         Variance   0.877
## 23         Range      5.822
## 24         Min       4.12
## 25         Max      9.942
## [1] "L2 length = 0"
## ENTERO
## Using Avg as value column: use value.var to override.

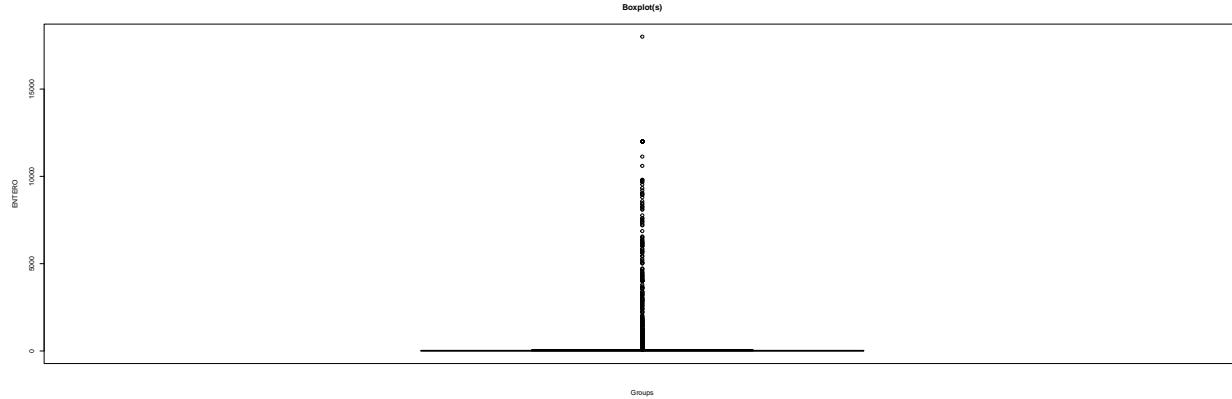
```



```

## [1] 5197    2
##           metric          V2
## 1             Variable: ENTERO
## 2             Total N:
## 3             Count      5197
## 4             NA Count     0
## 5             Mean      284.213
## 6             Median     7.333
## 7             Standard Deviation 1325.881
## 8             Variance   1757960.571
## 9             Range      18000
## 10            Min       0
## 11            Max      18000
## 12            25th Percentile 2.75
## 13            75th Percentile 35.455
## 14 Subset w/o Outliers:
## 15            Count      5090
## 16            %        97.9%
## 17            Outlier %    2.1%
## 18            NA Count     0
## 19            Mean      112.006
## 20            Median     7
## 21            Standard Deviation 417.536
## 22            Variance   174336.299
## 23            Range      4233.333
## 24            Min       0
## 25            Max      4233.333
## [1] "L2 length = 0"
## FECAL
## Using Avg as value column: use value.var to override.

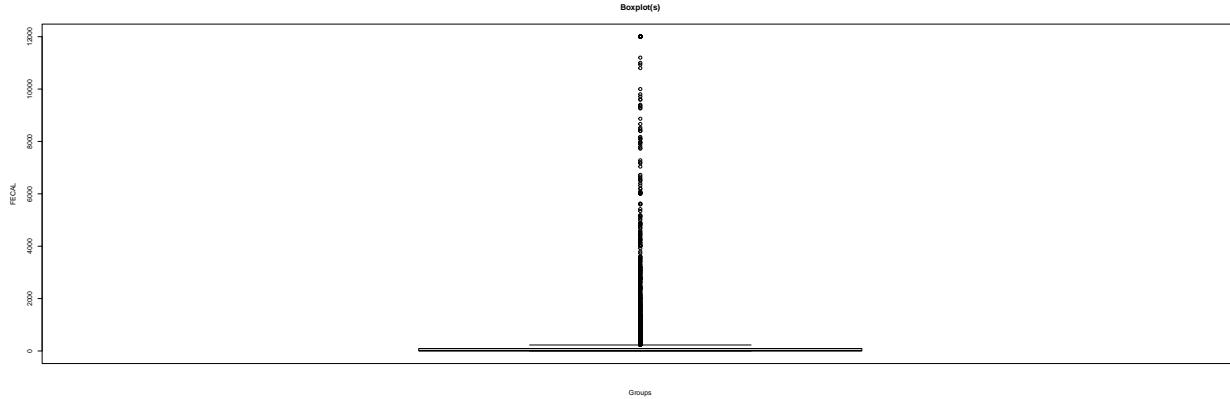
```



```

## [1] 5078    2
##          metric      V2
## 1           Variable: FECAL
## 2           Total N:
## 3           Count      5078
## 4           NA Count     0
## 5           Mean       409.934
## 6           Median      10.564
## 7   Standard Deviation   1513.552
## 8           Variance   2290838.653
## 9           Range      12000
## 10          Min        0
## 11          Max      12000
## 12   25th Percentile    3.404
## 13   75th Percentile   94.095
## 14 Subset w/o Outliers:
## 15          Count      4965
## 16          %        97.8%
## 17   Outlier %       2.2%
## 18           NA Count     0
## 19           Mean      208.248
## 20           Median      10
## 21   Standard Deviation  600.094
## 22           Variance  360113.198
## 23           Range      4900
## 24           Min        0
## 25           Max      4900
## [1] "L2 length = 0"
## OG
## Using Avg as value column: use value.var to override.

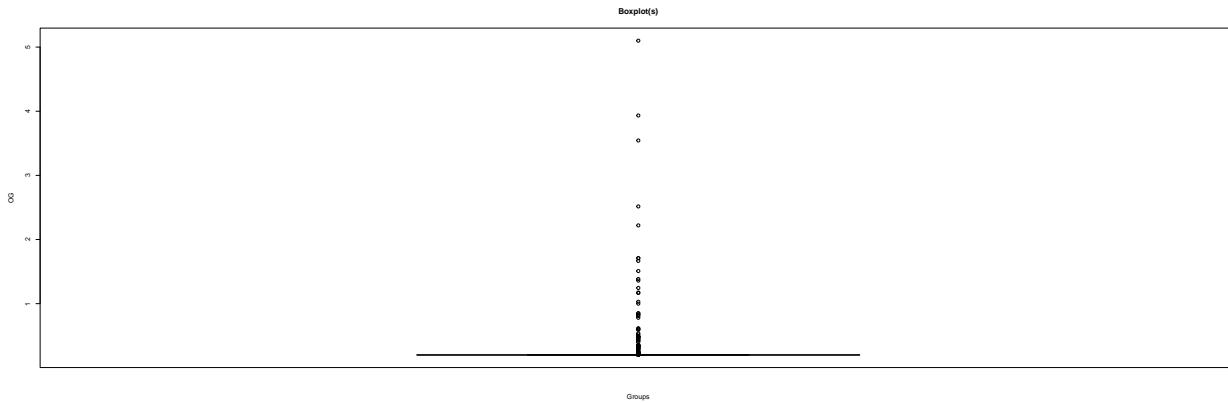
```



```

## [1] 937    2
##           metric      V2
## 1             Variable: OG
## 2             Total N:
## 3             Count      937
## 4             NA Count     0
## 5             Mean       0.244
## 6             Median      0.2
## 7             Standard Deviation 0.286
## 8             Variance     0.082
## 9             Range        4.9
## 10            Min         0.2
## 11            Max         5.1
## 12            25th Percentile 0.2
## 13            75th Percentile 0.2
## 14 Subset w/o Outliers:
## 15            Count      923
## 16            %        98.5%
## 17            Outlier %   1.5%
## 18            NA Count     0
## 19            Mean       0.215
## 20            Median      0.2
## 21            Standard Deviation 0.078
## 22            Variance     0.006
## 23            Range        0.83
## 24            Min         0.2
## 25            Max         1.03
## [1] "L2 length = 0"
## PH
## Using Avg as value column: use value.var to override.

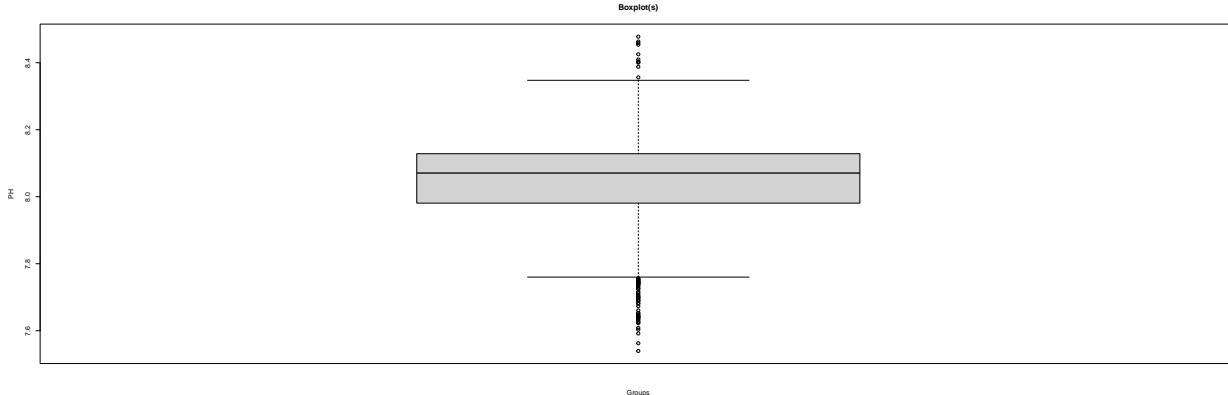
```



```

## [1] 2469    2
##               metric      V2
## 1                   Variable: PH
## 2                   Total N:
## 3                   Count     2469
## 4                   NA Count  0
## 5                   Mean      8.05
## 6                   Median    8.071
## 7   Standard Deviation 0.117
## 8       Variance        0.014
## 9       Range          0.938
## 10      Min           7.54
## 11      Max           8.478
## 12   25th Percentile 7.981
## 13   75th Percentile 8.128
## 14 Subset w/o Outliers:
## 15      Count     2435
## 16      %         98.6%
## 17   Outlier %    1.4%
## 18      NA Count  0
## 19      Mean      8.053
## 20      Median    8.071
## 21   Standard Deviation 0.108
## 22       Variance 0.012
## 23       Range    0.702
## 24      Min       7.7
## 25      Max       8.402
## [1] "L2 length = 0"
## SALINITY
## Using Avg as value column: use value.var to override.

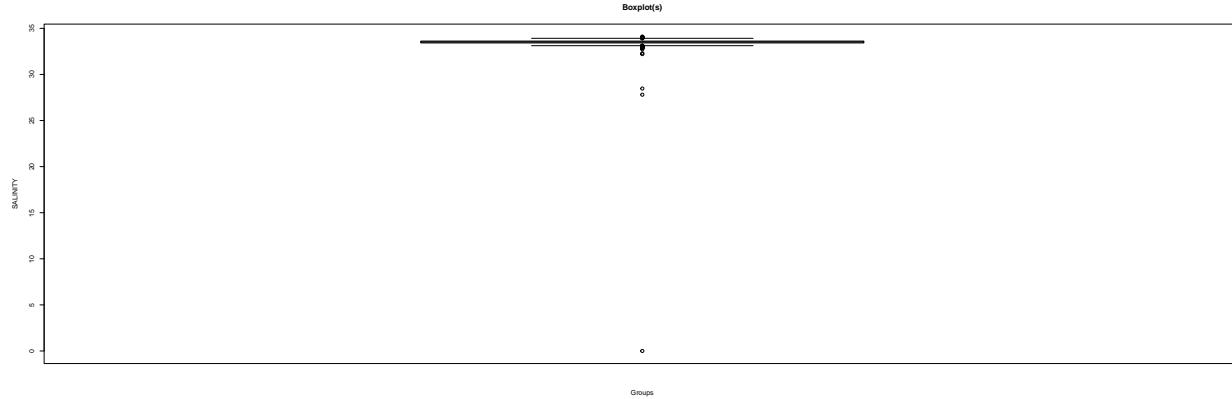
```



```

## [1] 2505    2
##          metric      V2
## 1           Variable: SALINITY
## 2           Total N:
## 3           Count      2505
## 4           NA Count     0
## 5           Mean      33.502
## 6           Median     33.527
## 7           Standard Deviation   0.706
## 8           Variance      0.499
## 9           Range       34.098
## 10          Min         0
## 11          Max       34.098
## 12          25th Percentile 33.418
## 13          75th Percentile 33.62
## 14 Subset w/o Outliers:
## 15          Count      2502
## 16          %        99.9%
## 17          Outlier %    0.1%
## 18          NA Count     0
## 19          Mean      33.519
## 20          Median     33.527
## 21          Standard Deviation   0.165
## 22          Variance      0.027
## 23          Range       1.888
## 24          Min        32.21
## 25          Max       34.098
## [1] "L2 length = 0"
## SUSO
## Using Avg as value column: use value.var to override.

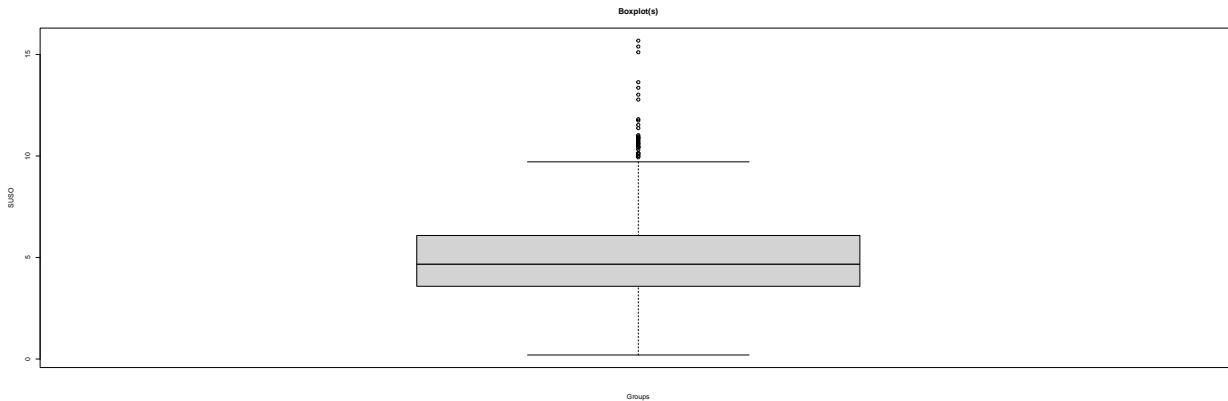
```



```

## [1] 976    2
##           metric          V2
## 1             Variable: SUSO
## 2             Total N:
## 3             Count        976
## 4             NA Count     0
## 5             Mean         4.993
## 6             Median        4.67
## 7             Standard Deviation   2.164
## 8             Variance       4.681
## 9             Range         15.48
## 10            Min          0.2
## 11            Max         15.68
## 12            25th Percentile 3.583
## 13            75th Percentile 6.083
## 14 Subset w/o Outliers:
## 15            Count        966
## 16            %          99%
## 17            Outlier %     1%
## 18            NA Count     0
## 19            Mean         4.906
## 20            Median        4.639
## 21            Standard Deviation   1.991
## 22            Variance       3.966
## 23            Range         11.172
## 24            Min          0.2
## 25            Max         11.372
## [1] "L2 length = 0"
## TEMP
## Using Avg as value column: use value.var to override.

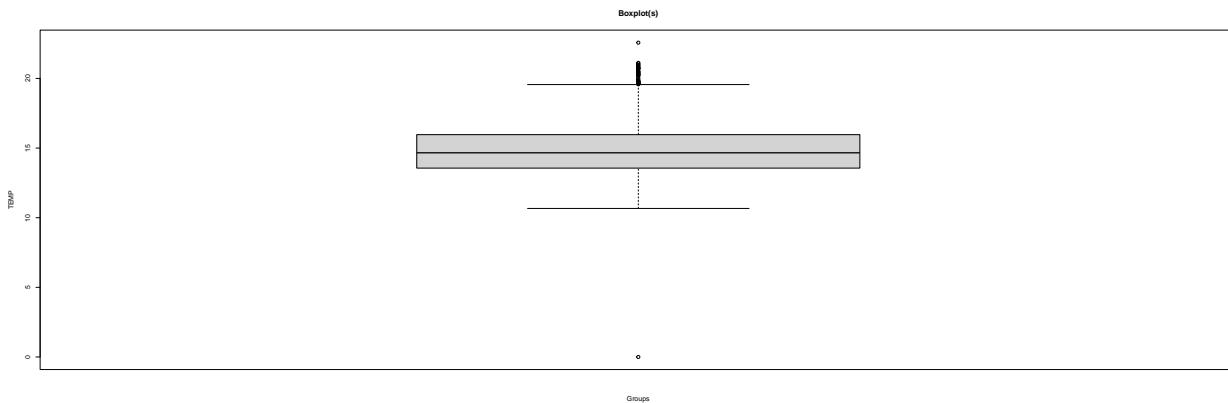
```



```

## [1] 3373    2
##          metric      V2
## 1           Variable: TEMP
## 2           Total N:
## 3           Count      3373
## 4           NA Count     0
## 5           Mean       14.843
## 6           Median      14.661
## 7   Standard Deviation     1.879
## 8           Variance      3.53
## 9           Range       22.568
## 10          Min         0
## 11          Max       22.568
## 12   25th Percentile     13.561
## 13   75th Percentile     15.964
## 14 Subset w/o Outliers:
## 15          Count      3357
## 16          %        99.5%
## 17   Outlier %        0.5%
## 18           NA Count     0
## 19           Mean       14.82
## 20           Median      14.65
## 21   Standard Deviation     1.821
## 22           Variance      3.315
## 23           Range       9.794
## 24           Min       10.666
## 25           Max       20.46
## [1] "L2 length = 0"
## XMS
## Using Avg as value column: use value.var to override.

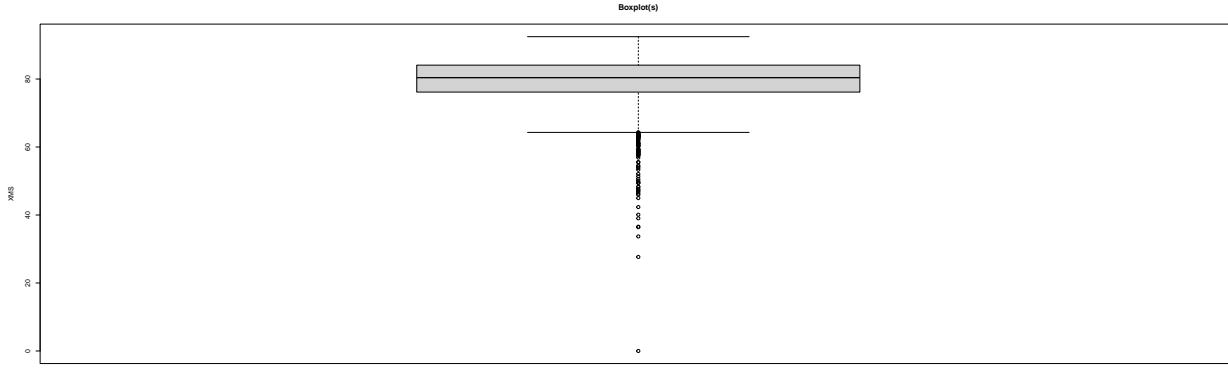
```



```

## [1] 3344      2
##           metric          V2
## 1             Variable: XMS
## 2             Total N:
## 3             Count       3344
## 4             NA Count     0
## 5             Mean        79.402
## 6             Median       80.4
## 7             Standard Deviation   6.979
## 8             Variance       48.713
## 9             Range         92.456
## 10            Min          0
## 11            Max         92.456
## 12            25th Percentile 76.156
## 13            75th Percentile 84.084
## 14 Subset w/o Outliers:
## 15            Count       3302
## 16            %          98.7%
## 17            Outlier %    1.3%
## 18            NA Count     0
## 19            Mean        79.791
## 20            Median       80.486
## 21            Standard Deviation   5.988
## 22            Variance       35.857
## 23            Range         33.88
## 24            Min          58.577
## 25            Max         92.456
## [1] "L2 length = 0"

```



```

##      date_sample CHLOROPHYLL DENSITY      DO      ENTERO      FECAL OG      PH
## 1    1990-11-15       1.07   23.854 6.98000      NA      NA NA NA 8.130
## 2    1991-01-02        NA      NA      NA 32.05128 125.64103 NA      NA
## 3    1991-01-03        NA      NA      NA 18.71795 51.28205 NA      NA
## 4    1991-01-07        NA      NA      NA 106.15385 80.76923 NA      NA
## 5    1991-01-08        NA      NA      NA 40.00000 40.55556 NA      NA
## 6    1991-01-09        NA      NA 5.47625 20.33898 40.50847 NA 8.195
## 7    1991-01-10        NA      NA 5.50000 40.22727 78.18182 NA      NA
## 8    1991-01-11        NA      NA 5.36000 83.92857 446.07143 NA      NA
## 9    1991-01-14        NA      NA      NA 33.84615 95.64103 NA      NA
## 10   1991-01-16        NA      NA      NA 12.56410 23.58974 NA      NA
## 11   1991-01-22        NA      NA      NA 20.51282 31.02564 NA      NA
## 12   1991-01-23        NA      NA      NA 43.12500 108.54167 NA      NA
## 13   1991-01-28        NA      NA      NA 183.07692 427.69231 NA      NA
## 14   1991-01-30        NA      NA      NA 125.38462 429.48718 NA      NA
## 15   1991-02-04        NA      NA      NA 16.29167 16.75000 NA      NA
## 16   1991-02-06        NA      NA      NA 17.38462 12.51282 NA      NA
## 17   1991-02-11        NA      NA      NA 51.89744 55.43590 NA      NA
##      SALINITY SUSO      TEMP      XMS
## 1    33.59550  NA 19.37000 60.22500
## 2     NA      NA 14.50769 80.02564
## 3     NA      NA 14.39231 83.89744
## 4     NA      NA 14.54103 78.97436
## 5     NA      NA 13.43000 80.20000
## 6    33.51938  NA 14.26889 86.21111
## 7    33.49300  NA 13.75000 80.45833
## 8    33.49100  NA 14.38400 84.40000
## 9     NA      NA 14.51282 72.02564
## 10   NA      NA 14.57692 68.35897
## 11   NA      NA 14.50769 76.51282
## 12   NA      NA 14.06923 78.71053
## 13   NA      NA 14.29487 82.43590
## 14   NA      NA 14.17436 81.23077
## 15   NA      NA 14.46154 72.12821
## 16   NA      NA 14.46154 69.53846
## 17   NA      NA 13.82564 79.23077
##      vars     n   mean      sd median trimmed   mad   min     max
##  date_sample 1 5450    NaN      NA     NA    NaN    NA Inf -Inf
##  CHLOROPHYLL 2 2092    3.91    3.41    2.85    3.33   2.28  0.29  30.35
##  DENSITY     3 2246    24.85   0.47   24.87   24.87   0.46 22.84  26.04

```

```

## DO          4 2504    7.04    0.99    7.23    7.11    0.86    0.00    10.33
## ENTERO      5 5197  284.21  1325.88   7.33   25.74    7.91    0.00 18000.00
## FECAL       6 5078  409.93  1513.55  10.56   69.45  12.57    0.00 12000.00
## OG           7  937    0.24    0.29    0.20    0.20    0.00    0.20    5.10
## PH           8 2469    8.05    0.12    8.07    8.06    0.10    7.54    8.48
## SALINITY     9 2505   33.50    0.71   33.53   33.52    0.15    0.00   34.10
## SUSO         10  976    4.99    2.16    4.67    4.80    1.80    0.20   15.68
## TEMP         11 3373   14.84    1.88   14.66   14.75    1.78    0.00   22.57
## XMS          12 3344   79.40    6.98   80.40   80.08    5.76    0.00   92.46
##              range skew kurtosis se
## date_sample -Inf     NA      NA  NA
## CHLOROPHYLL 30.06   2.25    7.84  0.07
## DENSITY      3.20   -0.42    0.25  0.01
## DO            10.33  -1.05    3.72  0.02
## ENTERO        18000.00  6.95   53.47 18.39
## FECAL         12000.00  5.81   36.94 21.24
## OG            4.90   10.89  144.21  0.01
## PH            0.94   -0.66   1.32  0.00
## SALINITY      34.10  -42.97 2021.03  0.01
## SUSO          15.48   1.09    2.23  0.07
## TEMP          22.57   0.35    1.15  0.03
## XMS           92.46  -1.86   9.43  0.12
##              date_sample parameter Avg
## Not NA n     36811     36811 35669.000
## NA n          0          0 1142.000
## Not NA %      1          1  0.969
## NA %          0          0  0.031

owt_df02_gb04_wkly = ts_eda(ts_df = owt_df02_gb04,
                             form_lead = "date_sample",
                             form_cast = "parameter",
                             param_lst = param_lst02,
                             rtn_met = TRUE,
                             box = FALSE,
                             week_agg = TRUE
                           )

```

```

## date_sample ~ parameter
## <environment: 0x000001c4a53592f8>
## CHLOROPHYLL

## Using Avg as value column: use value.var to override.

## [1] 1071    2
##              metric                  V2
## 1                      Variable: CHLOROPHYLL
## 2              Total N:
## 3                 Count                1071
## 4                 NA Count               0
## 5                 Mean                3.664
## 6                 Median               2.778
## 7 Standard Deviation             2.98
## 8                 Variance              8.879
## 9                 Range                22.399
## 10                Min                 0.393

```

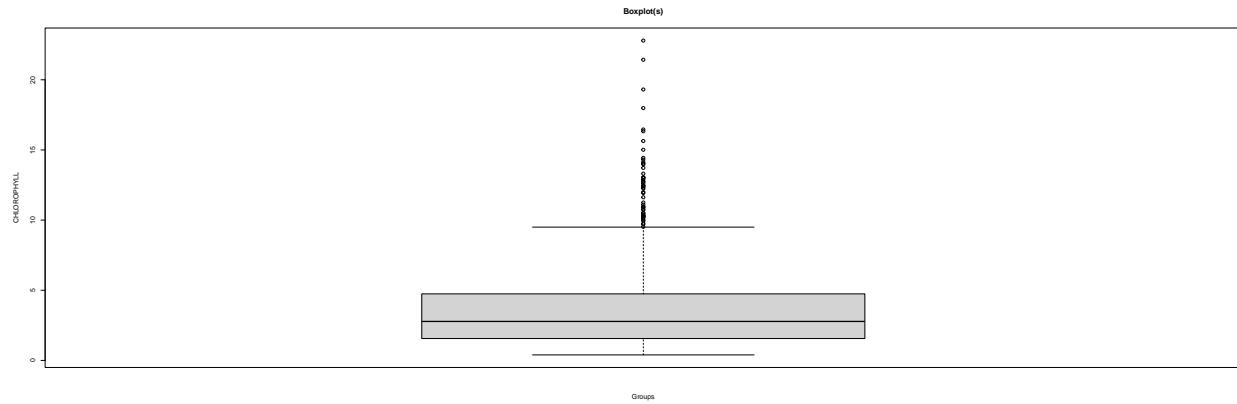
```

## 11          Max      22.792
## 12    25th Percentile     1.56
## 13    75th Percentile    4.744
## 14 Subset w/o Outliers:
## 15          Count     1049
## 16          %      97.9%
## 17    Outlier %      2.1%
## 18    NA Count        0
## 19          Mean     3.423
## 20          Median    2.726
## 21 Standard Deviation   2.465
## 22          Variance   6.074
## 23          Range     12.205
## 24          Min      0.393
## 25          Max      12.599
## [1] "L2 length = 0"

## DENSITY

## Using Avg as value column: use value.var to override.

```



```

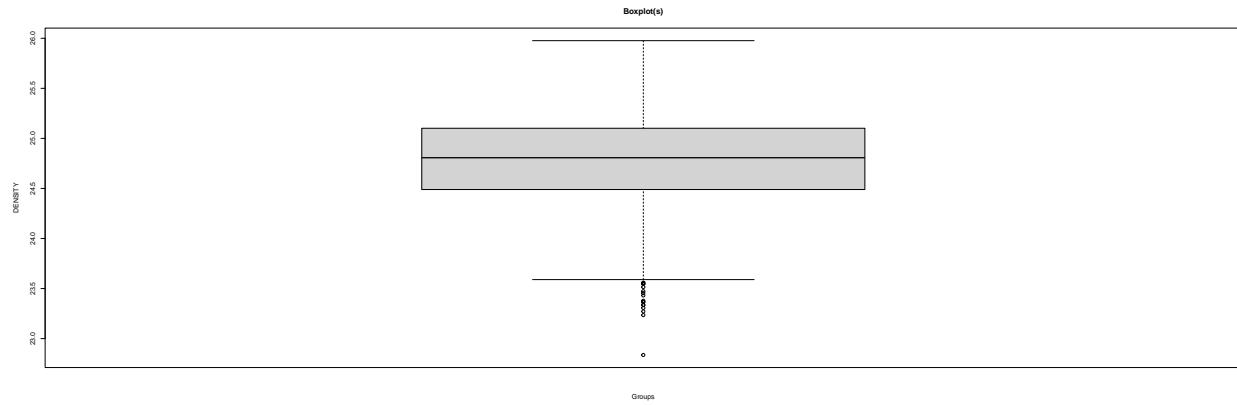
## [1] 1098    2
##           metric      V2
## 1           Variable: DENSITY
## 2           Total N:
## 3           Count     1098
## 4           NA Count     0
## 5           Mean     24.78
## 6           Median    24.807
## 7 Standard Deviation   0.467
## 8           Variance   0.218
## 9           Range     3.139
## 10          Min      22.837
## 11          Max      25.976
## 12    25th Percentile  24.489
## 13    75th Percentile  25.1
## 14 Subset w/o Outliers:
## 15          Count     1089
## 16          %      99.2%
## 17    Outlier %      0.8%
## 18    NA Count        0
## 19          Mean     24.793

```

```

## 20 Median 24.812
## 21 Standard Deviation 0.448
## 22 Variance 0.201
## 23 Range 2.545
## 24 Min 23.431
## 25 Max 25.976
## [1] "L2 length = 0"
## DO
## Using Avg as value column: use value.var to override.

```

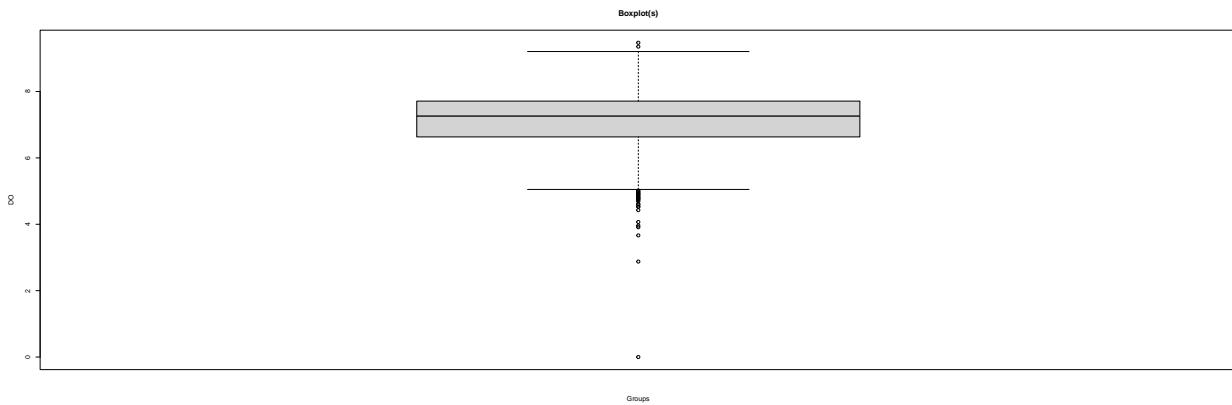


```

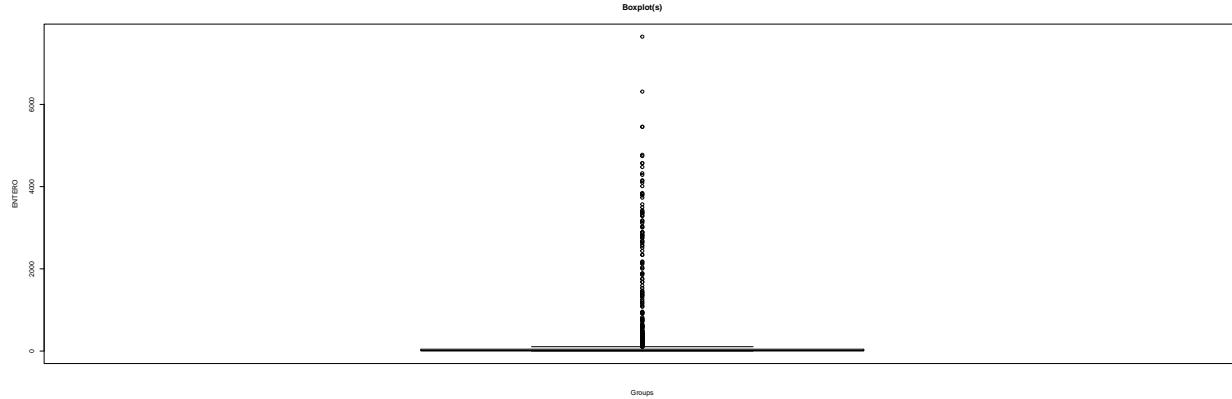
## [1] 1203 2
## metric V2
## 1 Variable: D0
## 2 Total N:
## 3 Count 1203
## 4 NA Count 0
## 5 Mean 7.102
## 6 Median 7.259
## 7 Standard Deviation 0.876
## 8 Variance 0.767
## 9 Range 9.468
## 10 Min 0
## 11 Max 9.468
## 12 25th Percentile 6.632
## 13 75th Percentile 7.71
## 14 Subset w/o Outliers:
## 15 Count 1196
## 16 % 99.4%
## 17 Outlier % 0.6%
## 18 NA Count 0
## 19 Mean 7.125
## 20 Median 7.265
## 21 Standard Deviation 0.821
## 22 Variance 0.674
## 23 Range 4.942
## 24 Min 4.527
## 25 Max 9.468
## [1] "L2 length = 0"
## ENTERO

```

```
## Using Avg as value column: use value.var to override.
```



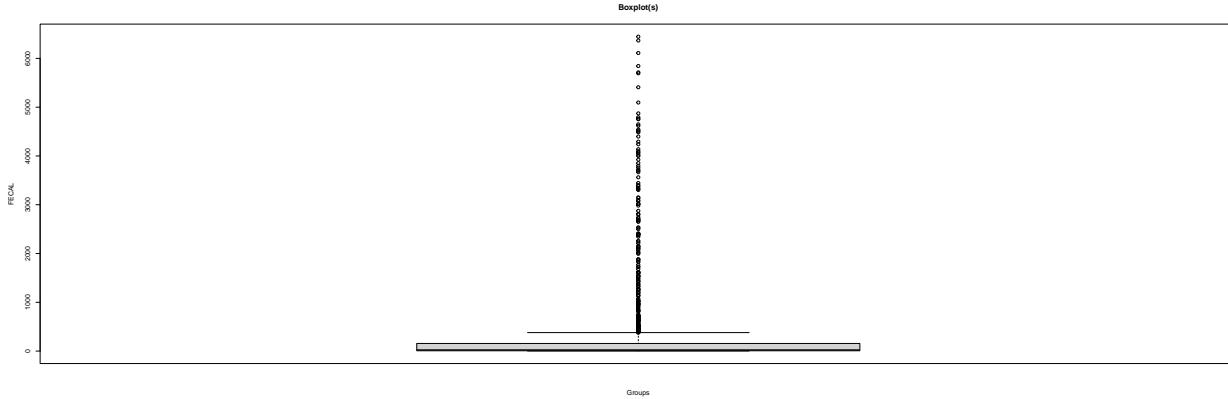
```
## [1] 1614      2
##           metric          V2
## 1                   Variable: ENTERO
## 2           Total N:
## 3           Count       1614
## 4        NA Count        0
## 5           Mean     214.198
## 6           Median    12.258
## 7 Standard Deviation   718.919
## 8           Variance  516845.04
## 9           Range     7646.278
## 10          Min        2
## 11          Max     7648.278
## 12     25th Percentile   5.434
## 13     75th Percentile  45.567
## 14 Subset w/o Outliers:
## 15           Count     1557
## 16           %      96.5%
## 17     Outlier %      3.5%
## 18        NA Count        0
## 19           Mean     91.784
## 20           Median    11.698
## 21 Standard Deviation  275.13
## 22           Variance 75696.459
## 23           Range    2344.566
## 24          Min        2
## 25          Max     2346.566
## [1] "L2 length = 0"
## FECAL
## Using Avg as value column: use value.var to override.
```



```

## [1] 1614      2
##               metric          V2
## 1                   Variable: FECAL
## 2                   Total N:
## 3                   Count       1614
## 4                   NA Count    0
## 5                   Mean        304.597
## 6                   Median       23.303
## 7   Standard Deviation     826.25
## 8   Variance            682689.747
## 9   Range              6443.07
## 10   Min                2
## 11   Max              6445.07
## 12   25th Percentile    6.236
## 13   75th Percentile    156.176
## 14 Subset w/o Outliers:
## 15   Count       1562
## 16   %           96.8%
## 17   Outlier %    3.2%
## 18   NA Count    0
## 19   Mean        177.977
## 20   Median       20.506
## 21   Standard Deviation 421.323
## 22   Variance     177512.97
## 23   Range        2737.584
## 24   Min           2
## 25   Max        2739.584
## [1] "L2 length = 0"
## OG
## Using Avg as value column: use value.var to override.

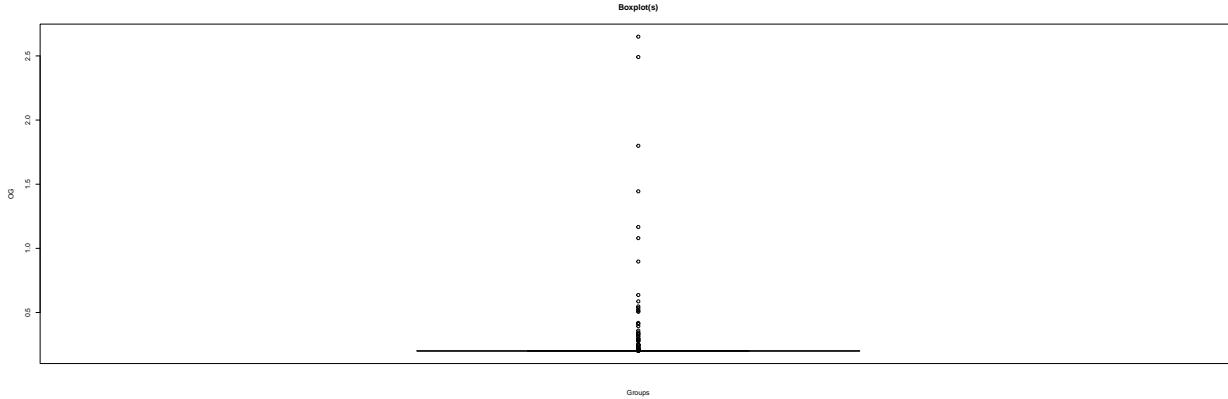
```



```

## [1] 351    2
##               metric      V2
## 1                   Variable: OG
## 2                   Total N:
## 3                   Count      351
## 4                   NA Count     0
## 5                   Mean       0.244
## 6                   Median      0.2
## 7   Standard Deviation     0.227
## 8           Variance       0.052
## 9           Range        2.45
## 10          Min         0.2
## 11          Max        2.65
## 12 25th Percentile      0.2
## 13 75th Percentile      0.2
## 14 Subset w/o Outliers:
## 15          Count      345
## 16          %        98.3%
## 17 Outlier %       1.7%
## 18          NA Count     0
## 19          Mean       0.218
## 20          Median      0.2
## 21 Standard Deviation   0.068
## 22          Variance     0.005
## 23          Range        0.697
## 24          Min         0.2
## 25          Max        0.897
## [1] "L2 length = 0"
## PH
## Using Avg as value column: use value.var to override.

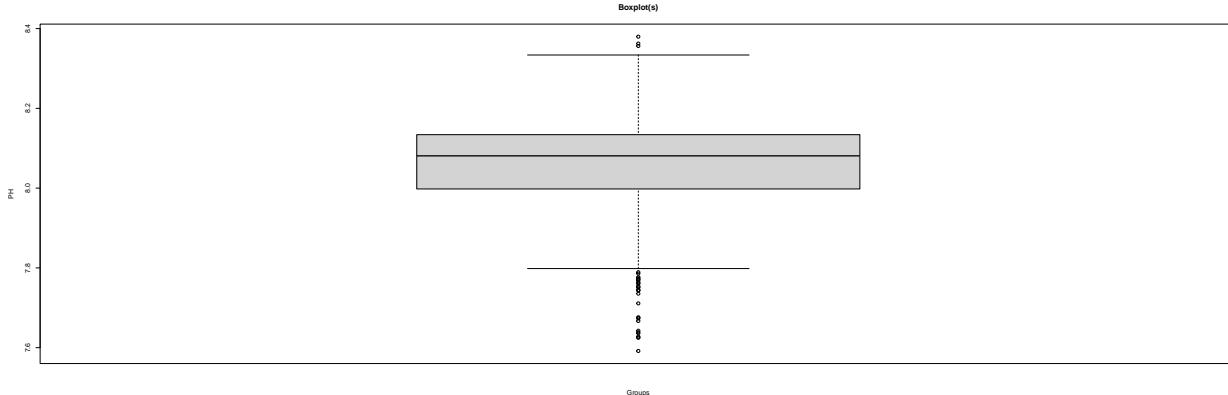
```



```

## [1] 1205    2
##           metric      V2
## 1          Variable: PH
## 2          Total N:
## 3          Count     1205
## 4          NA Count   0
## 5          Mean      8.062
## 6          Median     8.081
## 7          Standard Deviation 0.11
## 8          Variance    0.012
## 9          Range       0.788
## 10         Min        7.592
## 11         Max        8.38
## 12         25th Percentile 7.998
## 13         75th Percentile 8.134
## 14 Subset w/o Outliers:
## 15         Count     1193
## 16         %        99%
## 17         Outlier %   1%
## 18         NA Count   0
## 19         Mean      8.066
## 20         Median     8.082
## 21         Standard Deviation 0.102
## 22         Variance    0.01
## 23         Range       0.644
## 24         Min        7.735
## 25         Max        8.38
## [1] "L2 length = 0"
## SALINITY
## Using Avg as value column: use value.var to override.

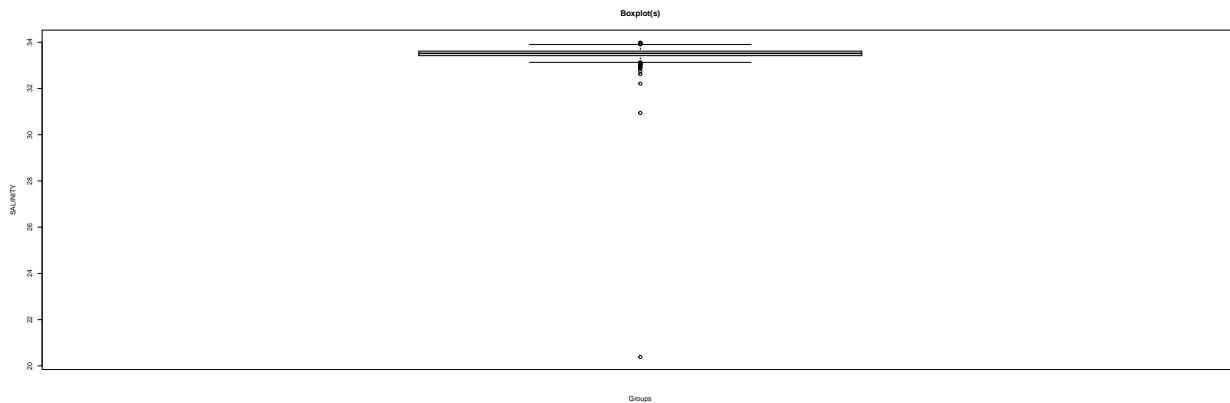
```



```

## [1] 1198    2
##          metric      V2
## 1           Variable: SALINITY
## 2           Total N:
## 3           Count      1198
## 4           NA Count     0
## 5           Mean       33.501
## 6           Median      33.521
## 7           Standard Deviation   0.42
## 8           Variance      0.177
## 9           Range        13.596
## 10          Min         20.385
## 11          Max         33.981
## 12          25th Percentile 33.418
## 13          75th Percentile 33.615
## 14 Subset w/o Outliers:
## 15          Count      1195
## 16          %         99.7%
## 17          Outlier %    0.3%
## 18          NA Count     0
## 19          Mean       33.516
## 20          Median      33.522
## 21          Standard Deviation   0.161
## 22          Variance      0.026
## 23          Range        1.36
## 24          Min         32.621
## 25          Max         33.981
## [1] "L2 length = 0"
## SUSO
## Using Avg as value column: use value.var to override.

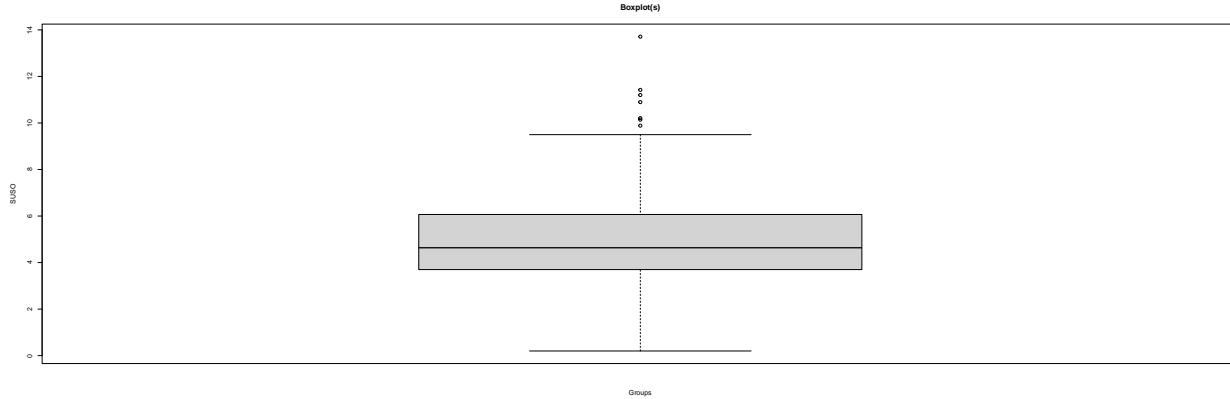
```



```

## [1] 367    2
##           metric          V2
## 1             Variable: SUSO
## 2             Total N:
## 3             Count        367
## 4             NA Count     0
## 5             Mean         4.914
## 6             Median       4.637
## 7             Standard Deviation   1.85
## 8             Variance       3.424
## 9             Range         13.509
## 10            Min          0.2
## 11            Max         13.709
## 12            25th Percentile 3.699
## 13            75th Percentile 6.067
## 14 Subset w/o Outliers:
## 15            Count        363
## 16            %          98.9%
## 17            Outlier %    1.1%
## 18            NA Count     0
## 19            Mean         4.838
## 20            Median       4.611
## 21            Standard Deviation   1.708
## 22            Variance       2.918
## 23            Range         10.009
## 24            Min          0.2
## 25            Max         10.209
## [1] "L2 length = 0"
## TEMP
## Using Avg as value column: use value.var to override.

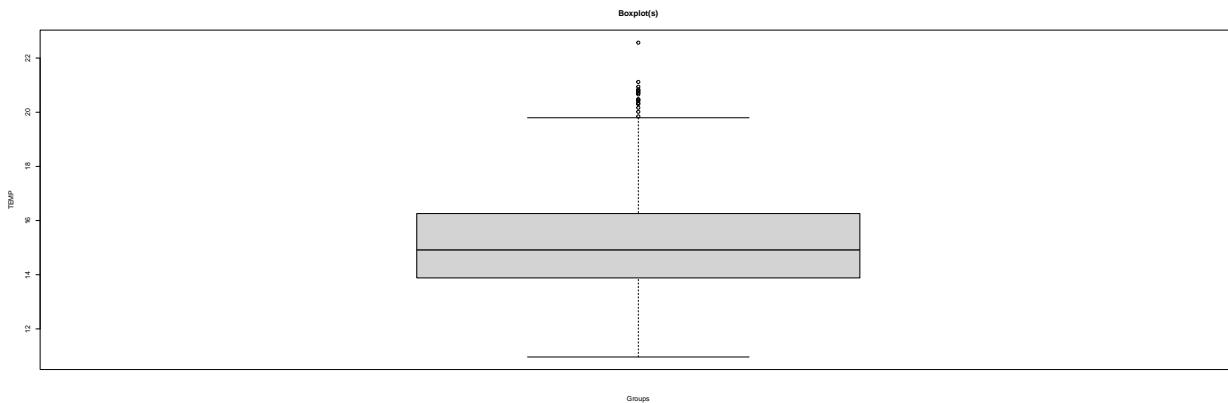
```



```

## [1] 1547    2
##               metric          V2
## 1                   Variable: TEMP
## 2             Total N:
## 3             Count      1547
## 4             NA Count     0
## 5             Mean      15.145
## 6             Median     14.915
## 7   Standard Deviation     1.783
## 8             Variance     3.179
## 9             Range      11.605
## 10            Min       10.963
## 11            Max       22.568
## 12   25th Percentile     13.883
## 13   75th Percentile     16.258
## 14 Subset w/o Outliers:
## 15             Count      1538
## 16             %        99.4%
## 17           Outlier %     0.6%
## 18             NA Count     0
## 19             Mean      15.11
## 20             Median     14.897
## 21   Standard Deviation     1.73
## 22             Variance     2.992
## 23             Range      9.52
## 24            Min       10.963
## 25            Max       20.483
## [1] "L2 length = 0"
## XMS
## Using Avg as value column: use value.var to override.

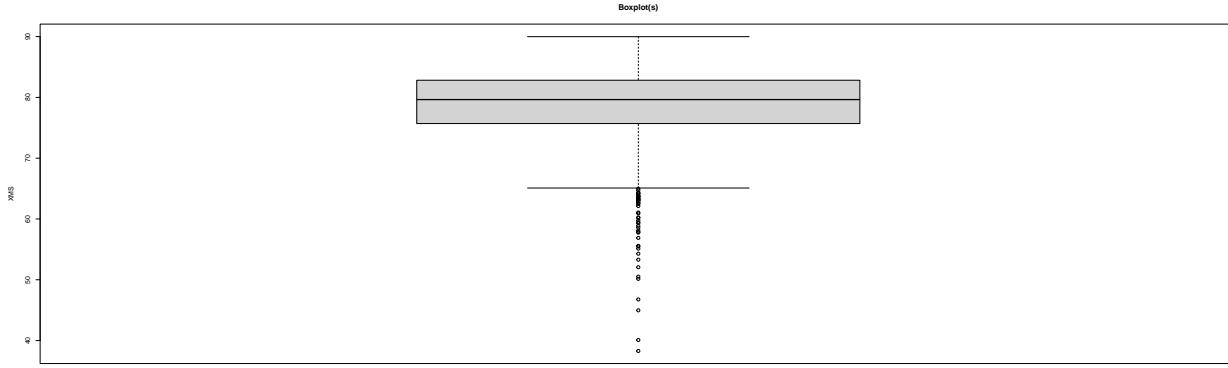
```



```

## [1] 1540    2
##           metric      V2
## 1          Variable: XMS
## 2          Total N:
## 3          Count     1540
## 4          NA Count  0
## 5          Mean      78.614
## 6          Median    79.642
## 7          Standard Deviation 6.152
## 8          Variance   37.845
## 9          Range      51.708
## 10         Min       38.282
## 11         Max       89.99
## 12         25th Percentile 75.699
## 13         75th Percentile 82.824
## 14 Subset w/o Outliers:
## 15         Count     1519
## 16         %        98.6%
## 17         Outlier % 1.4%
## 18         NA Count  0
## 19         Mean      78.961
## 20         Median    79.742
## 21         Standard Deviation 5.384
## 22         Variance   28.987
## 23         Range      29.778
## 24         Min       60.212
## 25         Max       89.99
## [1] "L2 length = 0"

```



```

##   date_sample CHLOROPHYLL DENSITY      DO      ENTERO      FECAL OG      PH
## 1 1990-11-19       1.07 23.854 6.980000      NA      NA NA NA 8.130000
## 2 1991-01-07        NA      NA      NA 25.384615 88.46154 NA      NA
## 3 1991-01-14        NA      NA 5.445417 58.129735 137.21730 NA 8.195000
## 4 1991-01-21        NA      NA      NA 23.205128 59.61538 NA      NA
## 5 1991-01-28        NA      NA      NA 31.818910 69.78365 NA      NA
## 6 1991-02-04        NA      NA      NA 154.230769 428.58974 NA      NA
## 7 1991-02-11        NA      NA      NA 16.838141 14.63141 NA      NA
## 8 1991-02-18        NA      NA 5.597500 45.317879 112.33029 NA 8.173333
## 9 1991-02-25        NA      NA      NA 9.083333 16.10737 NA      NA
## 10 1991-03-04       NA      NA      NA 16.512821 15.05128 NA      NA
## 11 1991-03-11       NA      NA 4.808333 43.496041 247.95270 NA 8.201667
## 12 1991-03-18       NA      NA      NA 32.542347 179.98990 NA      NA
## 13 1991-03-25       NA      NA      NA 1370.111538 517.44812 NA      NA
## 14 1991-04-01       NA      NA      NA 15.025641 33.15385 NA      NA
## 15 1991-04-08       NA      NA      NA 38.837607 136.90598 NA      NA
## 16 1991-04-15       NA      NA 4.730833 43.944524 190.35018 NA 8.138333
## 17 1991-04-22       NA      NA      NA 24.313390 77.44160 NA      NA
##   SALINITY SUSO      TEMP      XMS
## 1 33.59550  NA 19.37000 60.22500
## 2      NA  NA 14.45000 81.96154
## 3 33.50113  NA 14.07478 82.04876
## 4      NA  NA 14.54487 70.19231
## 5      NA  NA 14.28846 77.61167
## 6      NA  NA 14.23462 81.83333
## 7      NA  NA 14.46154 70.83333
## 8 33.51717  NA 14.00639 79.30243
## 9      NA  NA 14.05769 79.71518
## 10     NA  NA 14.24231 82.44872
## 11 33.48729  NA 13.93447 70.49667
## 12     NA  NA 12.97995 68.95260
## 13     NA  NA 13.11026 69.92308
## 14     NA  NA 13.46667 75.12719
## 15     NA  NA 13.19487 81.09818
## 16 33.55379  NA 13.33149 71.94475
## 17     NA  NA 12.97949 74.71053
##   vars    n   mean      sd median trimmed   mad   min   max range
## date_sample 1 1616    NaN      NA     NA    NaN    NA Inf -Inf -Inf
## CHLOROPHYLL 2 1071    3.66    2.98    2.78    3.16   2.07  0.39  22.79 22.40
## DENSITY     3 1098    24.78    0.47   24.81   24.80   0.45  22.84  25.98  3.14

```

```

## DO          4 1203    7.10   0.88   7.26    7.18   0.74   0.00    9.47   9.47
## ENTERO      5 1614  214.20  718.92  12.26   35.21  13.56   2.00  7648.28 7646.28
## FECAL       6 1614  304.60  826.25  23.30   86.48  29.92   2.00  6445.07 6443.07
## OG           7  351    0.24   0.23   0.20    0.20   0.00   0.20    2.65   2.45
## PH           8 1205    8.06   0.11   8.08    8.07   0.10   7.59    8.38   0.79
## SALINITY     9 1198   33.50   0.42   33.52   33.52   0.15  20.38  33.98  13.60
## SUSO          10 367    4.91   1.85   4.64    4.81   1.61   0.20   13.71  13.51
## TEMP          11 1547   15.14   1.78   14.92   15.04   1.75  10.96  22.57  11.61
## XMS           12 1540   78.61   6.15   79.64   79.25   5.14  38.28  89.99  51.71
##
## skew kurtosis    se
## date_sample     NA      NA      NA
## CHLOROPHYLL   1.97    5.38   0.09
## DENSITY        -0.45   0.37   0.01
## DO             -1.19   4.14   0.03
## ENTERO         4.84   26.56  17.89
## FECAL          4.13   18.61  20.57
## OG             7.92   70.11  0.01
## PH             -0.84   1.63   0.00
## SALINITY      -25.63  791.34  0.01
## SUSO            0.79   1.80   0.10
## TEMP            0.59   0.20   0.05
## XMS            -1.47   4.30   0.16
##
## date_sample parameter      Avg
## Not NA n      36811    36811 35669.000
## NA n          0        0    1142.000
## Not NA %      1        1    0.969
## NA %          0        0    0.031

owt_df02_gb04_wkly02 = ts_eda(ts_df = owt_df02_gb04,
                               form_lead = "date_sample",
                               form_cast = "parameter",
                               param_lst = param_lst02,
                               rtn_met = TRUE,
                               box = FALSE,
                               week_agg = TRUE,
                               out_rm = TRUE
)

## date_sample ~ parameter
## <environment: 0x000001c4ba405fa8>
## CHLOROPHYLL

## Using Avg as value column: use value.var to override.

## [1] 1071    2
## [1] 1049    2
##
##               metric          V2
## 1                   Variable: CHLOROPHYLL
## 2                   Total N:
## 3                   Count        1049
## 4                   NA Count      0
## 5                   Mean       3.423
## 6                   Median      2.726
## 7 Standard Deviation  2.465
## 8                   Variance     6.074

```

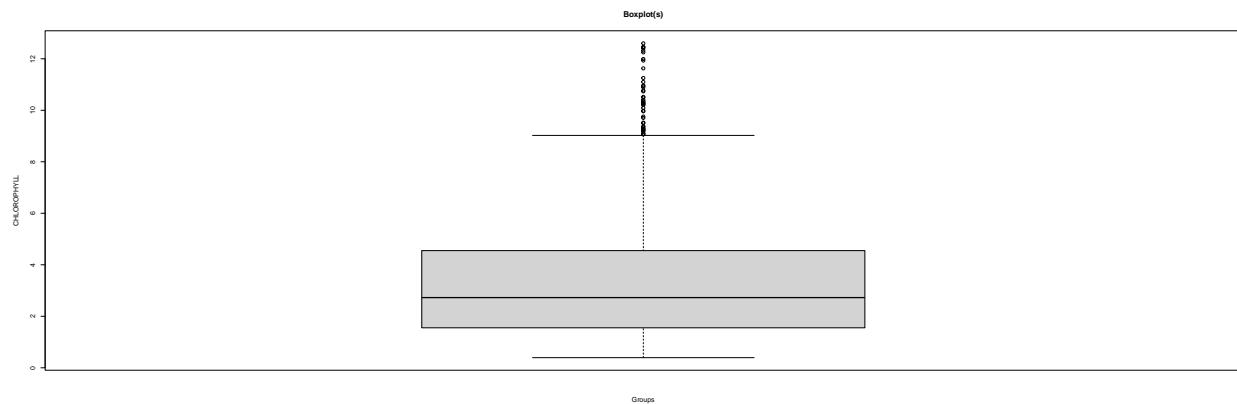
```

## 9          Range      12.205
## 10         Min       0.393
## 11         Max      12.599
## 12    25th Percentile   1.552
## 13    75th Percentile   4.55
## 14 Subset w/o Outliers:
## 15          Count     1035
## 16            %     98.7%
## 17        Outlier %    1.3%
## 18        NA Count      0
## 19          Mean      3.31
## 20          Median     2.699
## 21 Standard Deviation 2.278
## 22          Variance    5.188
## 23          Range     10.373
## 24          Min       0.393
## 25          Max      10.767
## [1] "L2 length = 0"

## DENSITY

## Using Avg as value column: use value.var to override.

```



```

## [1] 1098    2
## [1] 1089    2
##           metric      V2
## 1          Variable: DENSITY
## 2        Total N:
## 3          Count     1089
## 4        NA Count      0
## 5          Mean     24.793
## 6          Median    24.812
## 7 Standard Deviation 0.448
## 8          Variance   0.201
## 9          Range     2.545
## 10         Min      23.431
## 11         Max      25.976
## 12    25th Percentile 24.5
## 13    75th Percentile 25.103
## 14 Subset w/o Outliers:
## 15          Count     1088
## 16            %     99.9%

```

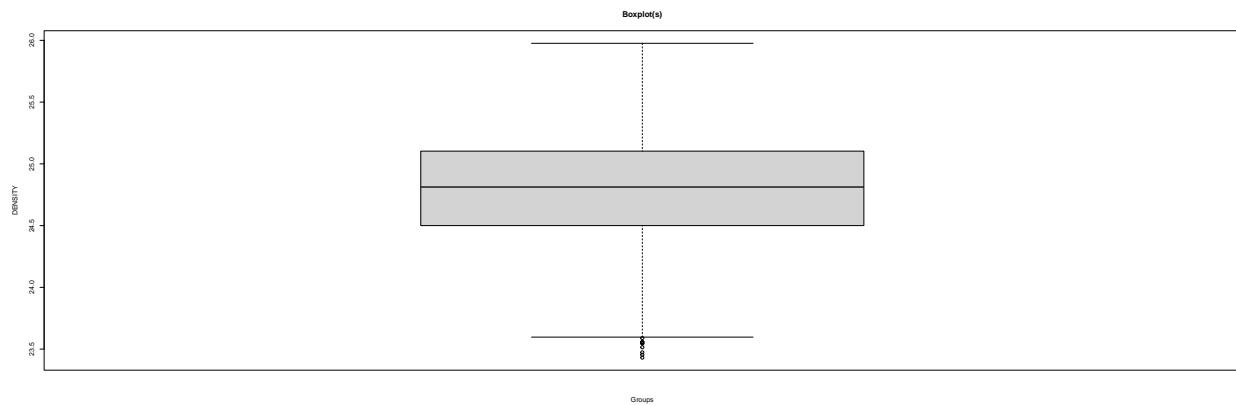
```

## 17          Outlier %      0.1%
## 18          NA Count      0
## 19          Mean          24.794
## 20          Median         24.813
## 21  Standard Deviation   0.446
## 22          Variance       0.199
## 23          Range          2.522
## 24          Min            23.454
## 25          Max            25.976
## [1] "L2 length = 0"

## DO

## Using Avg as value column: use value.var to override.

```



```

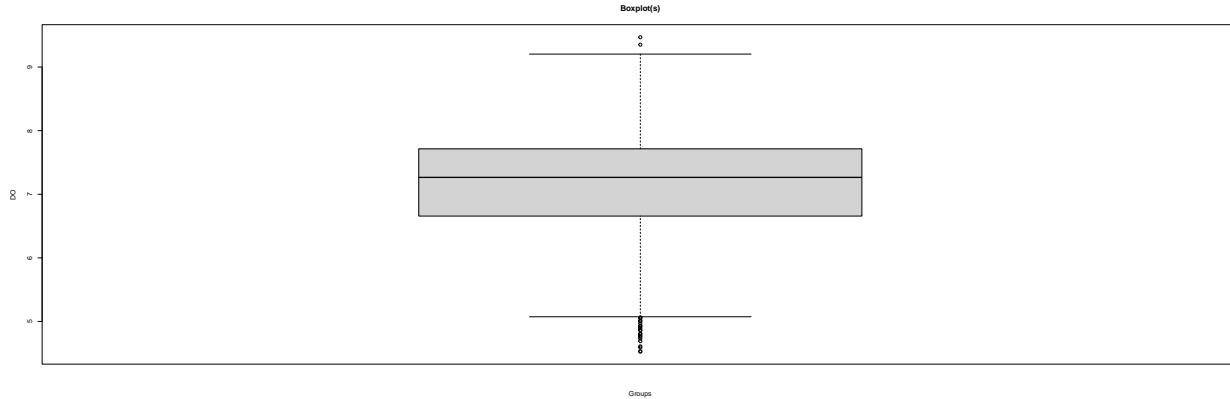
## [1] 1203    2
## [1] 1196    2
##           metric      V2
## 1          Variable: DO
## 2          Total N:
## 3          Count      1196
## 4          NA Count     0
## 5          Mean        7.125
## 6          Median       7.265
## 7  Standard Deviation  0.821
## 8          Variance     0.674
## 9          Range        4.942
## 10         Min          4.527
## 11         Max          9.468
## 12         25th Percentile 6.657
## 13         75th Percentile 7.714
## 14 Subset w/o Outliers:
## 15         Count      1192
## 16         %         99.7%
## 17         Outlier %   0.3%
## 18         NA Count     0
## 19         Mean        7.133
## 20         Median       7.267
## 21  Standard Deviation  0.809
## 22         Variance     0.654
## 23         Range        4.778
## 24         Min          4.69

```

```

## 25             Max      9.468
## [1] "L2 length = 0"
## ENTERO
## Using Avg as value column: use value.var to override.

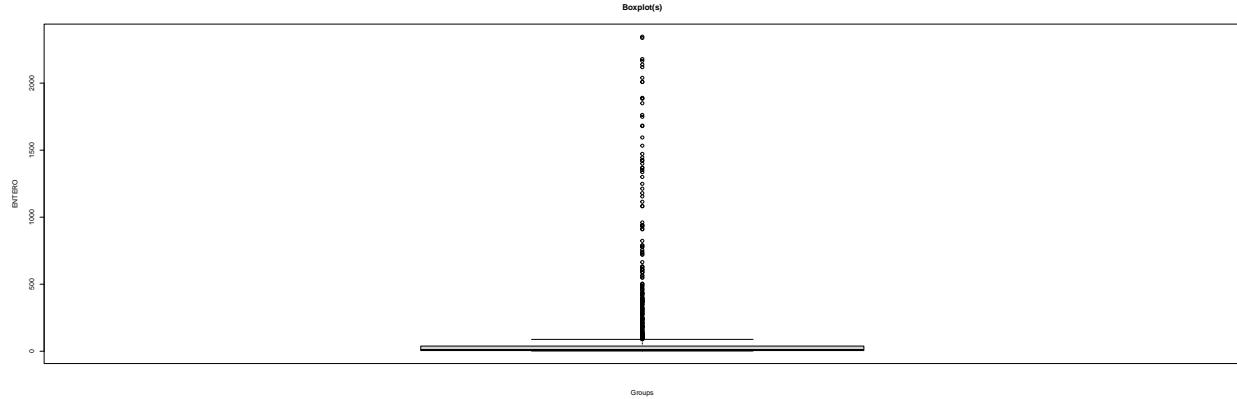
```



```

## [1] 1614    2
## [1] 1557    2
##               metric      V2
## 1                  Variable: ENTERO
## 2                  Total N:
## 3                  Count      1557
## 4                  NA Count     0
## 5                  Mean       91.784
## 6                  Median      11.698
## 7      Standard Deviation   275.13
## 8                  Variance    75696.459
## 9                  Range      2344.566
## 10                 Min        2
## 11                 Max      2346.566
## 12      25th Percentile     5.128
## 13      75th Percentile    38.694
## 14 Subset w/o Outliers:
## 15                 Count      1516
## 16                 %       97.4%
## 17      Outlier %       2.6%
## 18                 NA Count     0
## 19                 Mean      52.359
## 20                 Median     11.146
## 21      Standard Deviation 118.074
## 22                 Variance 13941.503
## 23                 Range     909.627
## 24                 Min        2
## 25                 Max      911.627
## [1] "L2 length = 0"
## FECAL
## Using Avg as value column: use value.var to override.

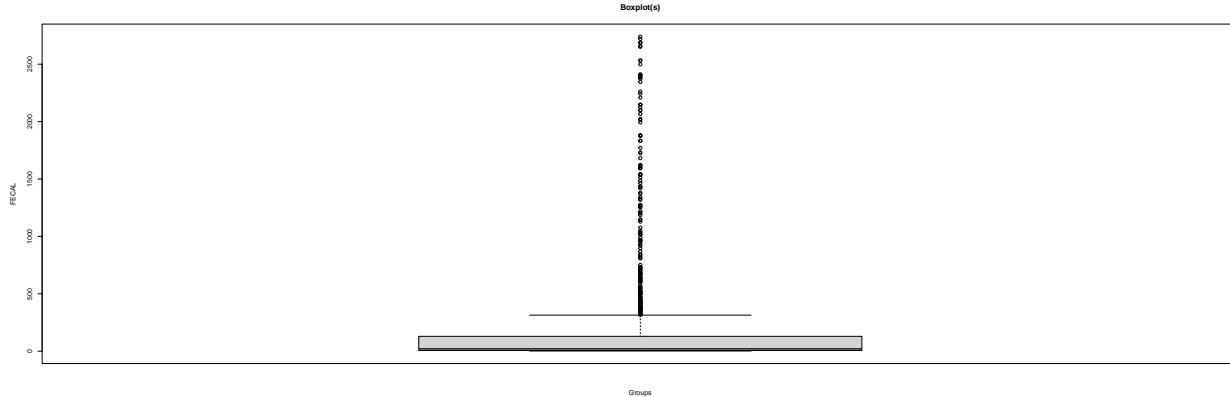
```



```

## [1] 1614    2
## [1] 1562    2
##          metric      V2
## 1                      Variable: FECAL
## 2          Total N:
## 3          Count      1562
## 4          NA Count     0
## 5          Mean       177.977
## 6          Median      20.506
## 7 Standard Deviation   421.323
## 8          Variance    177512.97
## 9          Range       2737.584
## 10         Min        2
## 11         Max       2739.584
## 12 25th Percentile    6.048
## 13 75th Percentile    129.582
## 14 Subset w/o Outliers:
## 15         Count      1509
## 16         %        96.6%
## 17 Outlier %        3.4%
## 18          NA Count     0
## 19          Mean       111.629
## 20          Median      18.395
## 21 Standard Deviation   219.97
## 22          Variance    48386.762
## 23          Range       1436.388
## 24         Min        2
## 25         Max       1438.388
## [1] "L2 length = 0"
## OG
## Using Avg as value column: use value.var to override.

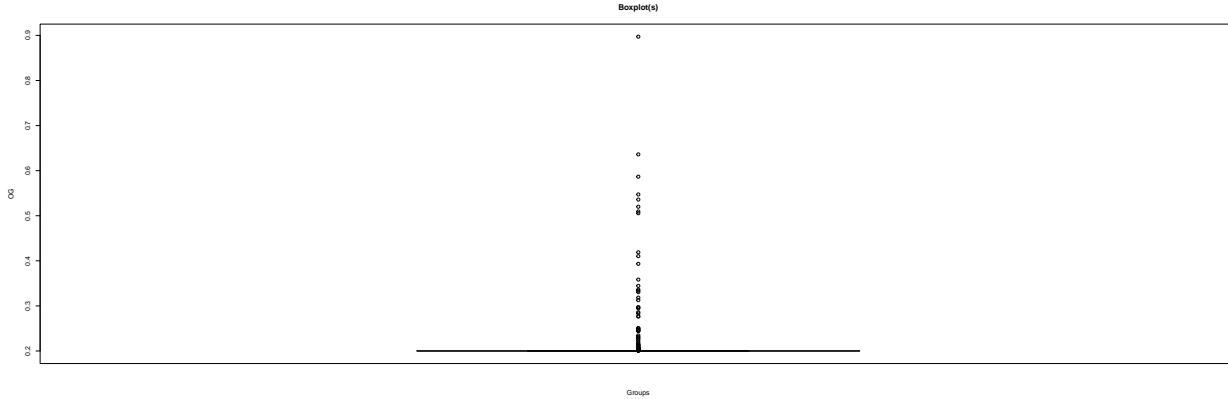
```



```

## [1] 351   2
## [1] 345   2
##               metric      V2
## 1                   Variable: OG
## 2       Total N:
## 3           Count      345
## 4           NA Count     0
## 5           Mean      0.218
## 6           Median     0.2
## 7   Standard Deviation    0.068
## 8           Variance    0.005
## 9           Range      0.697
## 10          Min       0.2
## 11          Max      0.897
## 12  25th Percentile     0.2
## 13  75th Percentile     0.2
## 14 Subset w/o Outliers:
## 15          Count      337
## 16          %      97.7%
## 17      Outlier %     2.3%
## 18           NA Count     0
## 19           Mean      0.209
## 20           Median     0.2
## 21   Standard Deviation    0.03
## 22           Variance    0.001
## 23           Range      0.219
## 24          Min       0.2
## 25          Max      0.419
## [1] "L2 length = 0"
## PH
## Using Avg as value column: use value.var to override.

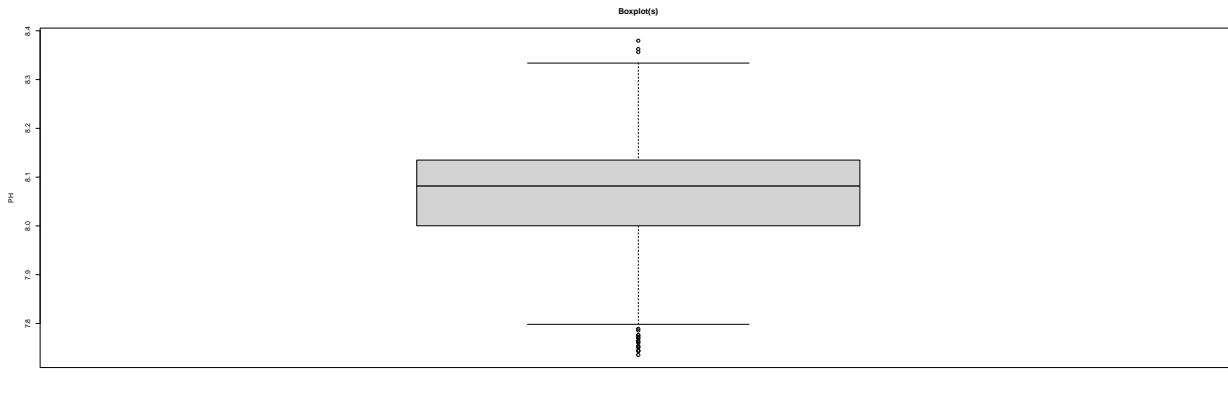
```



```

## [1] 1205    2
## [1] 1193    2
##               metric      V2
## 1                   Variable: PH
## 2                   Total N:
## 3                   Count     1193
## 4                   NA Count  0
## 5                   Mean      8.066
## 6                   Median    8.082
## 7   Standard Deviation 0.102
## 8       Variance        0.01
## 9       Range          0.644
## 10      Min            7.735
## 11      Max            8.38
## 12 25th Percentile   8
## 13 75th Percentile  8.135
## 14 Subset w/o Outliers:
## 15      Count     1185
## 16      %         99.3%
## 17  Outlier %    0.7%
## 18      NA Count  0
## 19      Mean      8.068
## 20      Median    8.082
## 21  Standard Deviation 0.099
## 22      Variance  0.01
## 23      Range     0.602
## 24      Min       7.761
## 25      Max       8.363
## [1] "L2 length = 0"
## SALINITY
## Using Avg as value column: use value.var to override.

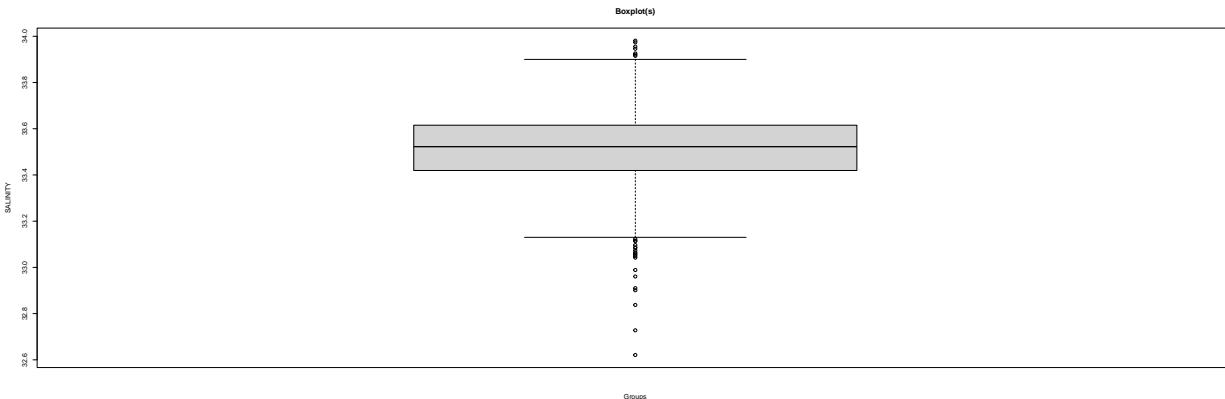
```



```

## [1] 1198    2
## [1] 1195    2
##               metric          V2
## 1                   Variable: SALINITY
## 2           Total N:
## 3           Count      1195
## 4           NA Count     0
## 5           Mean      33.516
## 6           Median     33.522
## 7   Standard Deviation     0.161
## 8           Variance     0.026
## 9           Range       1.36
## 10          Min       32.621
## 11          Max       33.981
## 12  25th Percentile     33.419
## 13  75th Percentile     33.615
## 14 Subset w/o Outliers:
## 15          Count      1188
## 16          %       99.4%
## 17        Outlier %     0.6%
## 18           NA Count     0
## 19           Mean      33.52
## 20           Median     33.523
## 21   Standard Deviation     0.152
## 22           Variance     0.023
## 23           Range       0.939
## 24          Min       33.042
## 25          Max       33.981
## [1] "L2 length = 0"
## SUSO
## Using Avg as value column: use value.var to override.

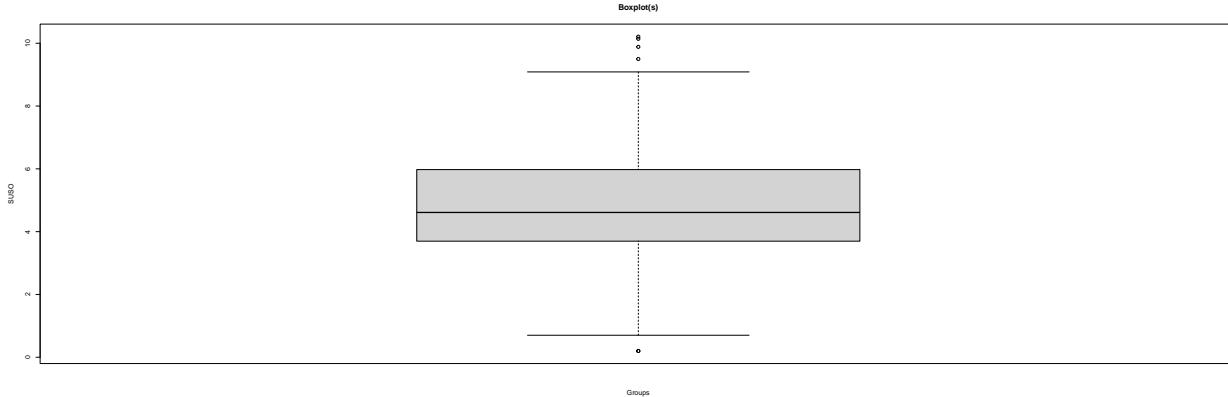
```



```

## [1] 367   2
## [1] 363   2
##               metric      V2
## 1                   Variable: SUSO
## 2                   Total N:
## 3                   Count     363
## 4                   NA Count  0
## 5                   Mean      4.838
## 6                   Median    4.611
## 7       Standard Deviation 1.708
## 8           Variance      2.918
## 9           Range        10.009
## 10          Min         0.2
## 11          Max        10.209
## 12 25th Percentile  3.697
## 13 75th Percentile  5.977
## 14 Subset w/o Outliers:
## 15          Count     361
## 16          %        99.4%
## 17 Outlier %      0.6%
## 18       NA Count  0
## 19          Mean     4.808
## 20          Median    4.607
## 21  Standard Deviation 1.666
## 22          Variance  2.775
## 23          Range     9.685
## 24          Min        0.2
## 25          Max       9.885
## [1] "L2 length = 0"
## TEMP
## Using Avg as value column: use value.var to override.

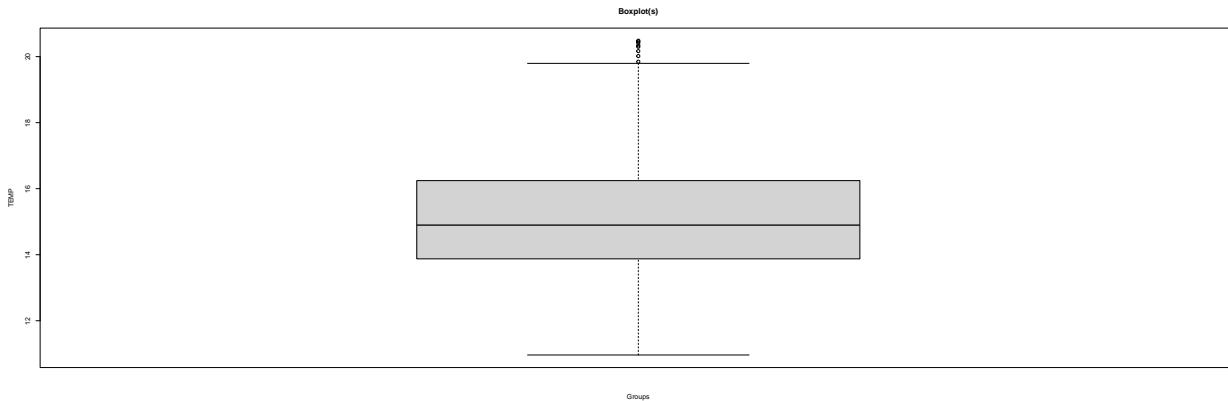
```



```

## [1] 1547    2
## [1] 1538    2
##           metric      V2
## 1                   Variable: TEMP
## 2           Total N:
## 3           Count      1538
## 4          NA Count     0
## 5           Mean      15.11
## 6           Median     14.897
## 7 Standard Deviation     1.73
## 8          Variance     2.992
## 9           Range      9.52
## 10          Min      10.963
## 11          Max      20.483
## 12 25th Percentile     13.876
## 13 75th Percentile     16.244
## 14 Subset w/o Outliers:
## 15          Count      1534
## 16          %      99.7%
## 17 Outlier %      0.3%
## 18          NA Count     0
## 19           Mean     15.097
## 20           Median     14.893
## 21 Standard Deviation     1.711
## 22          Variance     2.926
## 23           Range      9.335
## 24          Min      10.963
## 25          Max      20.298
## [1] "L2 length = 0"
## XMS
## Using Avg as value column: use value.var to override.

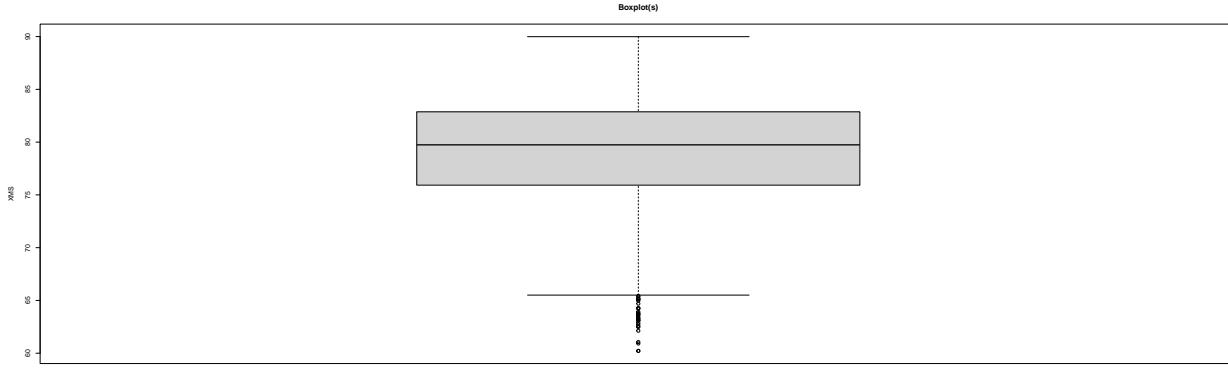
```



```

## [1] 1540    2
## [1] 1519    2
##               metric      V2
## 1                   Variable: XMS
## 2       Total N:
## 3           Count     1519
## 4           NA Count     0
## 5           Mean     78.961
## 6           Median    79.742
## 7   Standard Deviation    5.384
## 8           Variance    28.987
## 9           Range     29.778
## 10          Min     60.212
## 11          Max     89.99
## 12 25th Percentile    75.922
## 13 75th Percentile    82.87
## 14 Subset w/o Outliers:
## 15          Count     1511
## 16          %     99.5%
## 17   Outlier %     0.5%
## 18           NA Count     0
## 19           Mean     79.053
## 20           Median    79.78
## 21   Standard Deviation    5.246
## 22           Variance    27.52
## 23           Range     27.089
## 24          Min     62.901
## 25          Max     89.99
## [1] "L2 length = 0"

```



```

##      date_sample CHLOROPHYLL DENSITY      DO      ENTERO      FECAL OG      PH
## 1    1990-11-19       1.07   23.854 6.980000      NA      NA NA  NA 8.130000
## 2    1991-01-07        NA      NA      NA 25.384615 88.46154 NA      NA
## 3    1991-01-14        NA      NA 5.445417 58.129735 137.21730 NA 8.195000
## 4    1991-01-21        NA      NA      NA 23.205128 59.61538 NA      NA
## 5    1991-01-28        NA      NA      NA 31.818910 69.78365 NA      NA
## 6    1991-02-04        NA      NA      NA 154.230769 428.58974 NA      NA
## 7    1991-02-11        NA      NA      NA 16.838141 14.63141 NA      NA
## 8    1991-02-18        NA 5.597500 45.317879 112.33029 NA 8.173333
## 9    1991-02-25        NA      NA      NA 9.083333 16.10737 NA      NA
## 10   1991-03-04        NA      NA      NA 16.512821 15.05128 NA      NA
## 11   1991-03-11        NA 4.808333 43.496041 247.95270 NA 8.201667
## 12   1991-03-18        NA      NA      NA 32.542347 179.98990 NA      NA
## 13   1991-03-25        NA      NA      NA 1370.111538 517.44812 NA      NA
## 14   1991-04-01        NA      NA      NA 15.025641 33.15385 NA      NA
## 15   1991-04-08        NA      NA      NA 38.837607 136.90598 NA      NA
## 16   1991-04-15        NA      NA 4.730833 43.944524 190.35018 NA 8.138333
## 17   1991-04-22        NA      NA      NA 24.313390 77.44160 NA      NA
##      SALINITY SUSO      TEMP      XMS
## 1    33.59550  NA 19.37000 60.22500
## 2        NA  NA 14.45000 81.96154
## 3    33.50113  NA 14.07478 82.04876
## 4        NA  NA 14.54487 70.19231
## 5        NA  NA 14.28846 77.61167
## 6        NA  NA 14.23462 81.83333
## 7        NA  NA 14.46154 70.83333
## 8    33.51717  NA 14.00639 79.30243
## 9        NA  NA 14.05769 79.71518
## 10   33.48729  NA 13.93447 70.49667
## 11   33.48729  NA 13.93447 70.49667
## 12        NA  NA 12.97995 68.95260
## 13        NA  NA 13.11026 69.92308
## 14        NA  NA 13.46667 75.12719
## 15        NA  NA 13.19487 81.09818
## 16   33.55379  NA 13.33149 71.94475
## 17        NA  NA 12.97949 74.71053
##      vars     n   mean      sd median trimmed   mad   min   max range
## 1 date_sample 1615    NaN     NA     NA    NaN    NA Inf -Inf -Inf
## 2 CHLOROPHYLL 1049  3.42  2.46  2.73    3.06  1.98  0.39 12.60 12.21
## 3 DENSITY     1089 24.79  0.45 24.81  24.81  0.44 23.43 25.98  2.54

```

```

## DO          4 1196   7.12   0.82   7.27    7.19   0.74   4.53    9.47   4.94
## ENTERO      5 1557  91.78 275.13  11.70   25.40  12.59   2.00 2346.57 2344.57
## FECAL       6 1562 177.98 421.32  20.51   68.76  25.72   2.00 2739.58 2737.58
## OG           7  345   0.22   0.07   0.20    0.20   0.00   0.20    0.90   0.70
## PH           8 1193   8.07   0.10   8.08    8.07   0.09   7.74    8.38   0.64
## SALINITY     9 1195  33.52   0.16  33.52   33.52   0.15  32.62   33.98   1.36
## SUSO         10  363   4.84   1.71   4.61    4.78   1.57   0.20   10.21  10.01
## TEMP         11 1538  15.11   1.73  14.90   15.02  1.73  10.96   20.48   9.52
## XMS          12 1519  78.96   5.38  79.74   79.38  5.05  60.21   89.99  29.78
##              skew kurtosis    se
## date_sample   NA        NA      NA
## CHLOROPHYLL  1.30     1.35   0.08
## DENSITY      -0.27    -0.11   0.01
## DO            -0.65    0.23   0.02
## ENTERO        5.13    29.25  6.97
## FECAL         3.79    15.29 10.66
## OG            5.74    40.06  0.00
## PH            -0.50    0.51   0.00
## SALINITY     -0.54    1.78   0.00
## SUSO          0.37    0.29   0.09
## TEMP          0.48    -0.16   0.04
## XMS          -0.73    0.33   0.14
##              date_sample parameter      Avg
## Not NA n     36811    36811 35669.000
## NA n          0        0    1142.000
## Not NA %      1        1     0.969
## NA %          0        0     0.031

```

Run custom function on data aggregated by `date_sample`, `project` and `parameter`

```

owt_df02_gb09_mrgd = ts_eda(ts_df = owt_df02_gb09,
                             form_lead = c("date_sample", "project"),
                             form_cast = "parameter",
                             param_lst = param_lst02,
                             l1_col = c("project"),
                             l1_param = c("PLOO", "SBOO"),
                             rtn_met = FALSE,
                             box = FALSE,
                             week_agg = FALSE
)

```

```

## date_sample + project ~ parameter
## <environment: 0x000001c4a4e01a70>
## CHLOROPHYLL

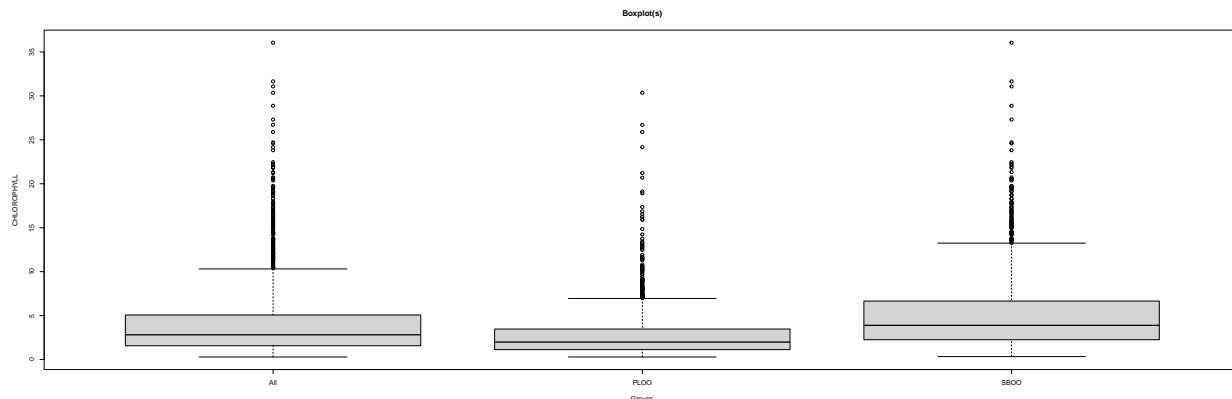
## Using Avg as value column: use value.var to override.

## [1] 3023     3
## [1] "L2 length = 0"

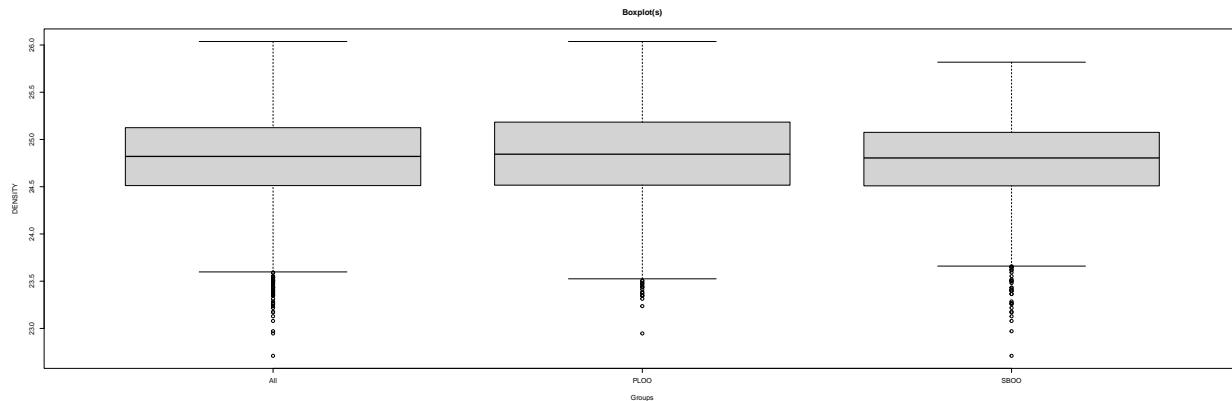
## DENSITY

## Using Avg as value column: use value.var to override.

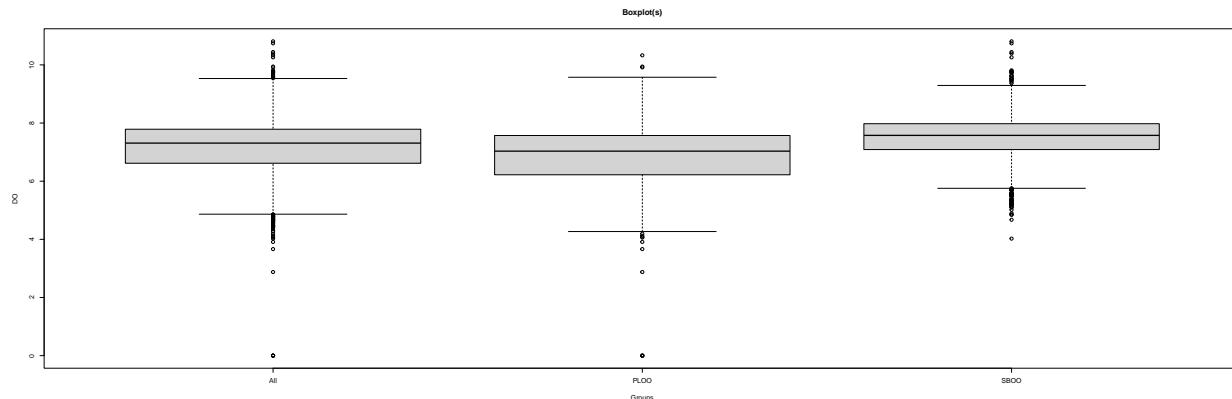
```



```
## [1] 3177    3
## [1] "L2 length = 0"
## DO
## Using Avg as value column: use value.var to override.
```



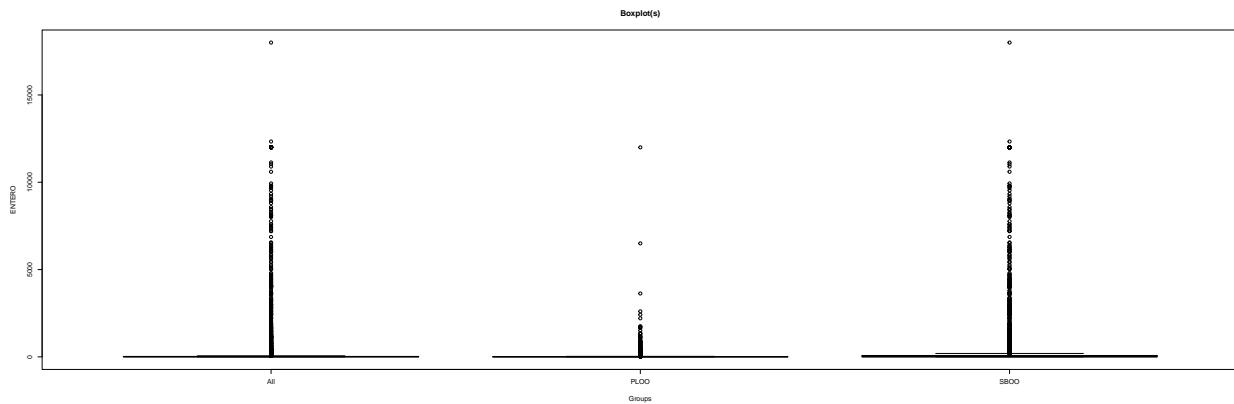
```
## [1] 3434    3
## [1] "L2 length = 0"
## ENTERO
## Using Avg as value column: use value.var to override.
```



```
## [1] 6776    3
## [1] "L2 length = 0"
```

```
## FECAL
```

```
## Using Avg as value column: use value.var to override.
```

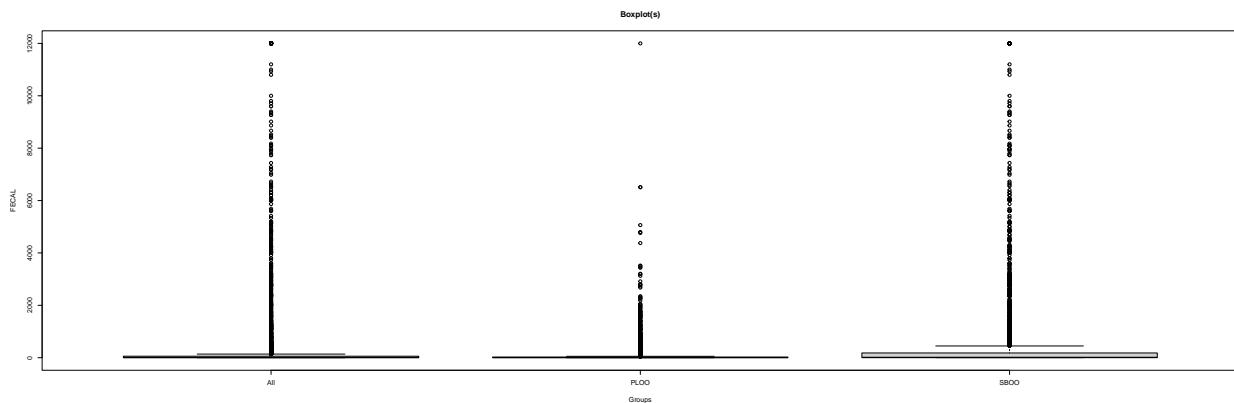


```
## [1] 6594    3
```

```
## [1] "L2 length = 0"
```

```
## OG
```

```
## Using Avg as value column: use value.var to override.
```

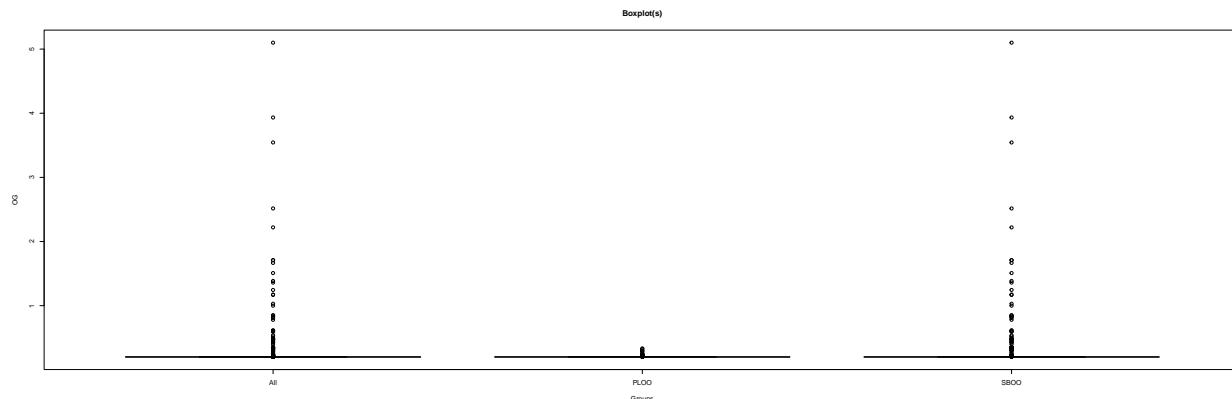


```
## [1] 937    3
```

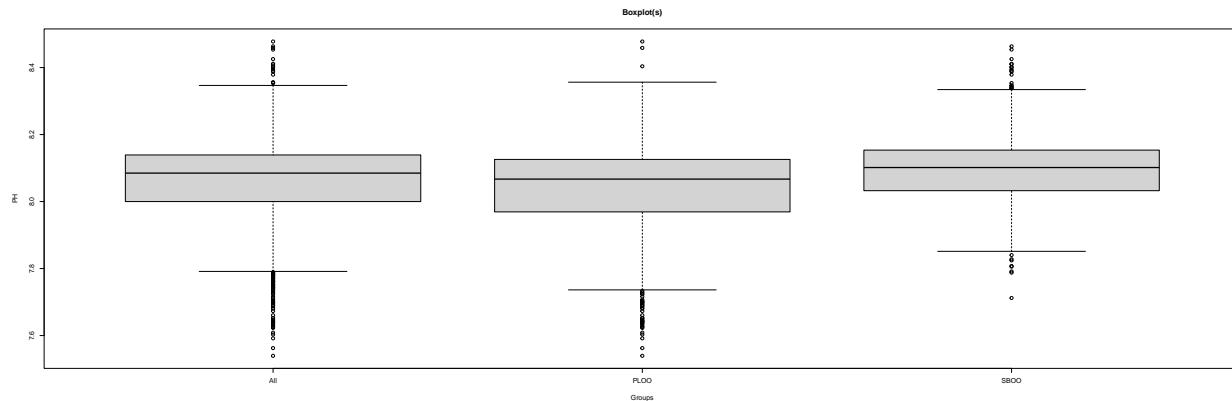
```
## [1] "L2 length = 0"
```

```
## PH
```

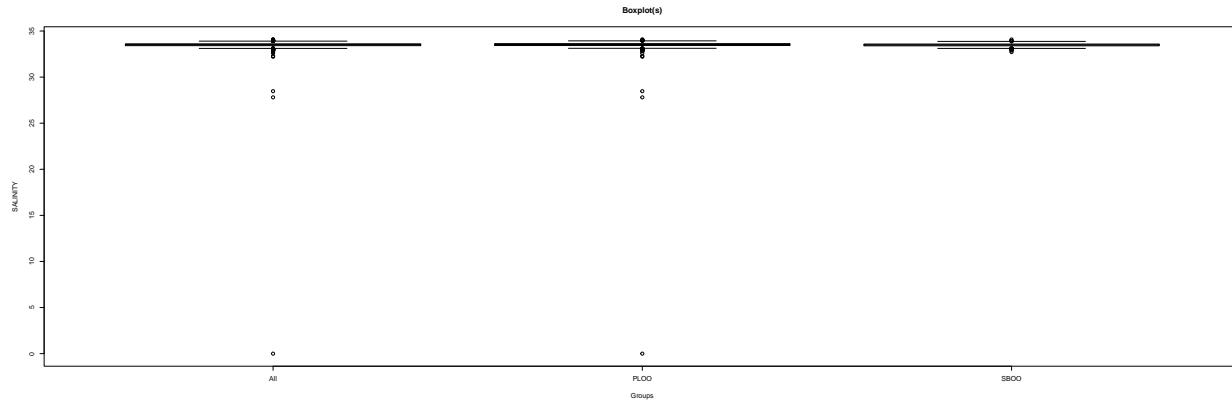
```
## Using Avg as value column: use value.var to override.
```



```
## [1] 3396    3
## [1] "L2 length = 0"
## SALINITY
## Using Avg as value column: use value.var to override.
```

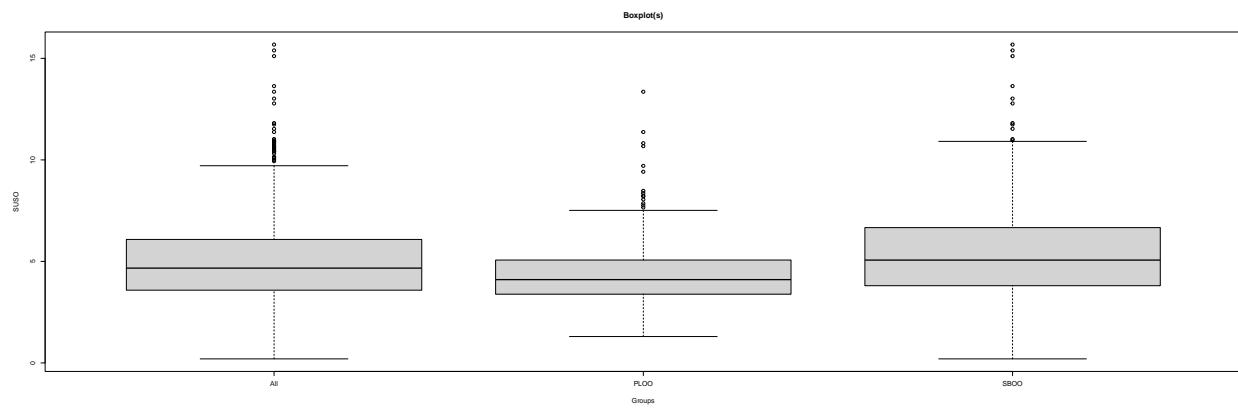


```
## [1] 3434    3
## [1] "L2 length = 0"
## SUSO
## Using Avg as value column: use value.var to override.
```

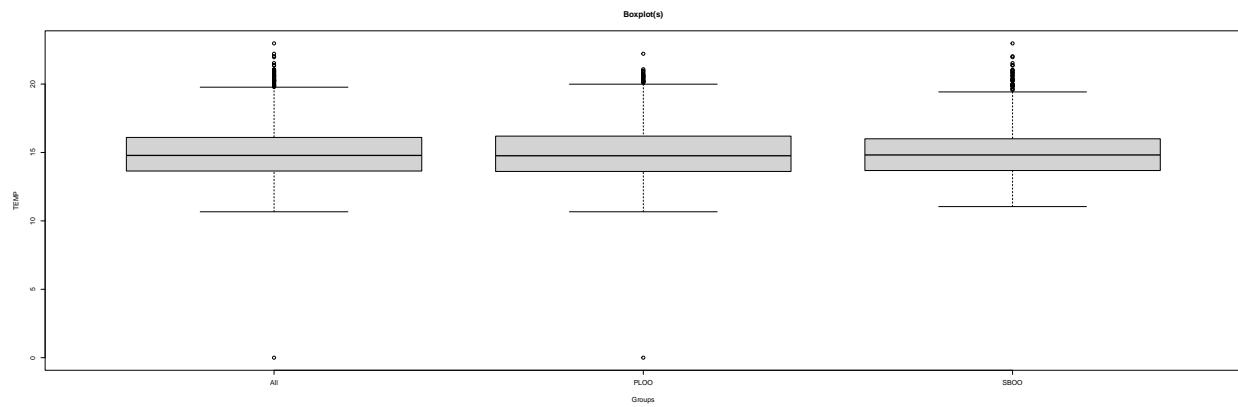


```
## [1] 977    3
## [1] "L2 length = 0"
```

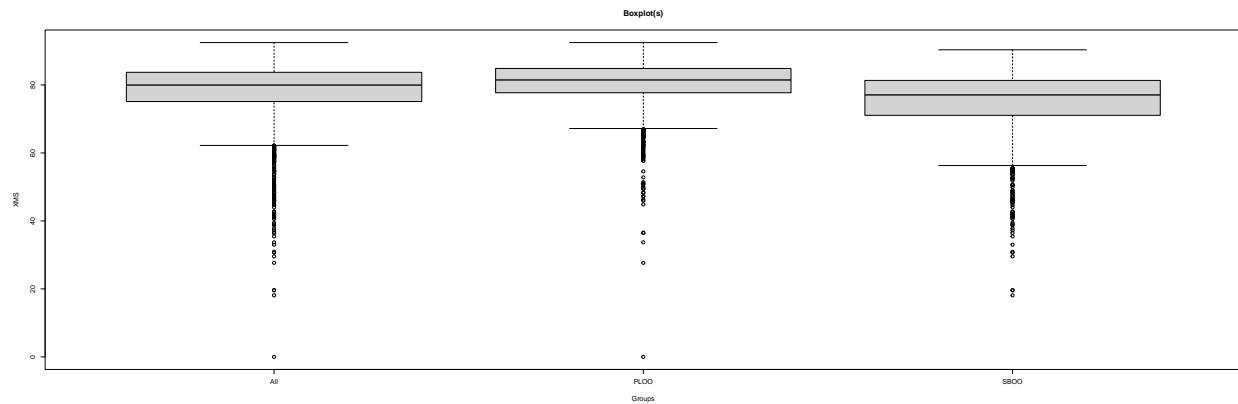
```
## TEMP
## Using Avg as value column: use value.var to override.
```



```
## [1] 4524      3
## [1] "L2 length = 0"
## XMS
## Using Avg as value column: use value.var to override.
```



```
## [1] 4494      3
## [1] "L2 length = 0"
```



```
## date_sample project CHLOROPHYLL DENSITY DO ENTERO FECAL OG PH
```

```

## 1 1990-11-15 PL00 0.87 23.855 6.55000 NA NA NA 8.080
## 2 1990-11-15 SB00 1.27 23.853 7.41000 NA NA NA 8.180
## 3 1991-01-02 PL00 NA NA NA 32.05128 125.64103 NA NA
## 4 1991-01-03 PL00 NA NA NA 18.71795 51.28205 NA NA
## 5 1991-01-07 PL00 NA NA NA 106.15385 80.76923 NA NA
## 6 1991-01-08 PL00 NA NA NA 40.00000 40.55556 NA NA
## 7 1991-01-09 PL00 NA NA 5.47625 20.33898 40.50847 NA 8.195
## 8 1991-01-10 PL00 NA NA 5.50000 40.22727 78.18182 NA NA
## 9 1991-01-11 PL00 NA NA 5.36000 83.92857 446.07143 NA NA
## 10 1991-01-14 PL00 NA NA 33.84615 95.64103 NA NA
## 11 1991-01-16 PL00 NA NA 12.56410 23.58974 NA NA
## 12 1991-01-22 PL00 NA NA 20.51282 31.02564 NA NA
## 13 1991-01-23 PL00 NA NA 43.12500 108.54167 NA NA
## 14 1991-01-28 PL00 NA NA 183.07692 427.69231 NA NA
## 15 1991-01-30 PL00 NA NA 125.38462 429.48718 NA NA
## 16 1991-02-04 PL00 NA NA 16.29167 16.75000 NA NA
## 17 1991-02-06 PL00 NA NA 17.38462 12.51282 NA NA

## SALINITY SUSO TEMP XMS
## 1 33.61700 NA 19.43000 44.85000
## 2 33.57400 NA 19.31000 75.60000
## 3 NA NA 14.50769 80.02564
## 4 NA NA 14.39231 83.89744
## 5 NA NA 14.54103 78.97436
## 6 NA NA 13.43000 80.20000
## 7 33.51938 NA 14.26889 86.21111
## 8 33.49300 NA 13.75000 80.45833
## 9 33.49100 NA 14.38400 84.40000
## 10 NA NA 14.51282 72.02564
## 11 NA NA 14.57692 68.35897
## 12 NA NA 14.50769 76.51282
## 13 NA NA 14.06923 78.71053
## 14 NA NA 14.29487 82.43590
## 15 NA NA 14.17436 81.23077
## 16 NA NA 14.46154 72.12821
## 17 NA NA 14.46154 69.53846

## vars n mean sd median trimmed mad min max
## date_sample 1 7037 NaN NA NA NaN NA Inf -Inf
## project* 2 7037 1.43 0.50 1.00 1.42 0.00 1.00 2.00
## CHLOROPHYLL 3 3023 4.01 3.81 2.81 3.31 2.27 0.29 36.05
## DENSITY 4 3177 24.79 0.47 24.82 24.81 0.45 22.71 26.04
## DO 5 3434 7.15 0.97 7.31 7.22 0.82 0.00 10.81
## ENTERO 6 6776 253.64 1249.91 5.27 18.53 4.84 0.00 18000.00
## FECAL 7 6594 355.65 1401.82 7.07 48.93 7.51 0.00 12000.00
## OG 8 937 0.24 0.29 0.20 0.20 0.00 0.20 5.10
## PH 9 3396 8.07 0.11 8.08 8.07 0.10 7.54 8.48
## SALINITY 10 3434 33.50 0.61 33.52 33.51 0.15 0.00 34.10
## SUSO 11 977 4.99 2.16 4.67 4.80 1.80 0.20 15.68
## TEMP 12 4524 14.97 1.91 14.78 14.87 1.80 0.00 22.97
## XMS 13 4494 78.31 8.29 79.96 79.37 6.18 0.00 92.46

## range skew kurtosis se
## date_sample -Inf NA NA NA
## project* 1.00 0.26 -1.93 0.01
## CHLOROPHYLL 35.76 2.56 9.61 0.07
## DENSITY 3.33 -0.46 0.38 0.01

```

```

## DO          10.81 -0.89    3.49  0.02
## ENTERO     18000.00   7.41    61.01 15.18
## FECAL      12000.00   6.25    43.27 17.26
## OG          4.90  10.89   144.21  0.01
## PH          0.94  -0.67    1.45  0.00
## SALINITY    34.10 -48.98  2674.00  0.01
## SUSO        15.48   1.09    2.23  0.07
## TEMP        22.97   0.43    0.95  0.03
## XMS         92.46  -2.00    7.54  0.12
##           date_sample project parameter      Avg
## Not NA n    48395    48395    48395 47222.0000
## NA n        0        0        0    1173.0000
## Not NA %    1        1        1    0.9758
## NA %        0        0        0    0.0242

owt_df02_gb09_wkly = ts_eda(ts_df = owt_df02_gb09,
                           form_lead = c("date_sample", "project"),
                           form_cast = "parameter",
                           param_lst = param_lst02,
                           l1_col = c("project"),
                           l1_param = c("PL00", "SB00"),
                           rtn_met = FALSE,
                           box = FALSE,
                           week_agg = TRUE
)

```

date_sample + project ~ parameter
<environment: 0x000001c4a58b3ff8>
CHLOROPHYLL

Using Avg as value column: use value.var to override.

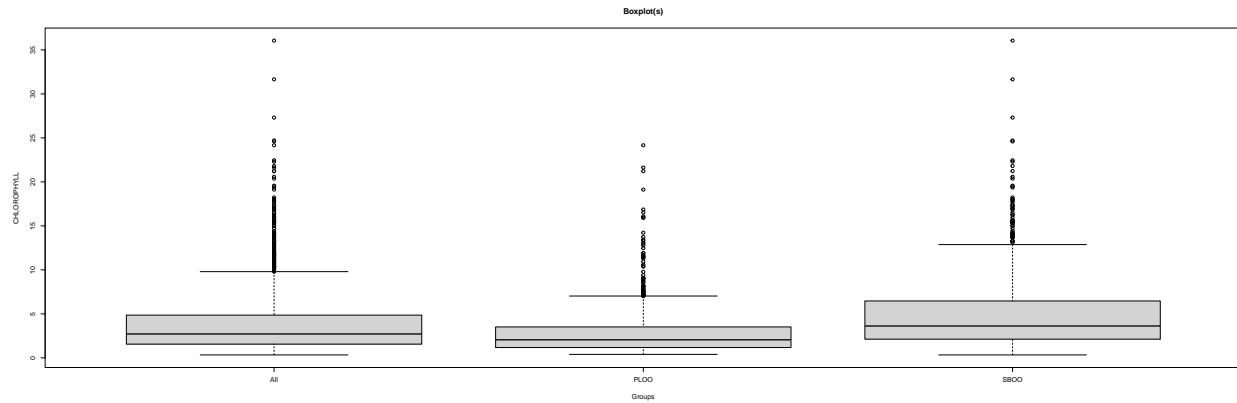
```

## [1] 1967    3
## [1] "L2 length = 0"

```

DENSITY

Using Avg as value column: use value.var to override.

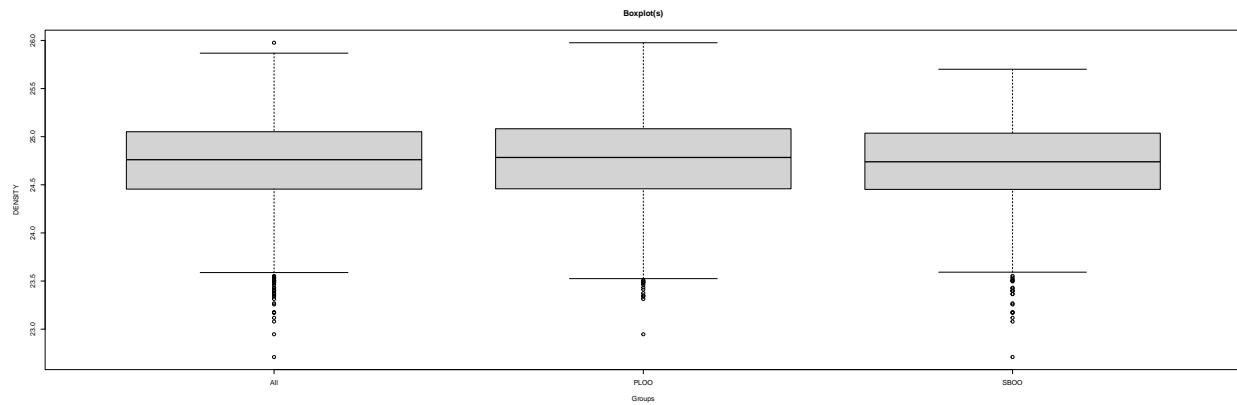


```

## [1] 2000    3
## [1] "L2 length = 0"
## DO

```

```
## Using Avg as value column: use value.var to override.
```

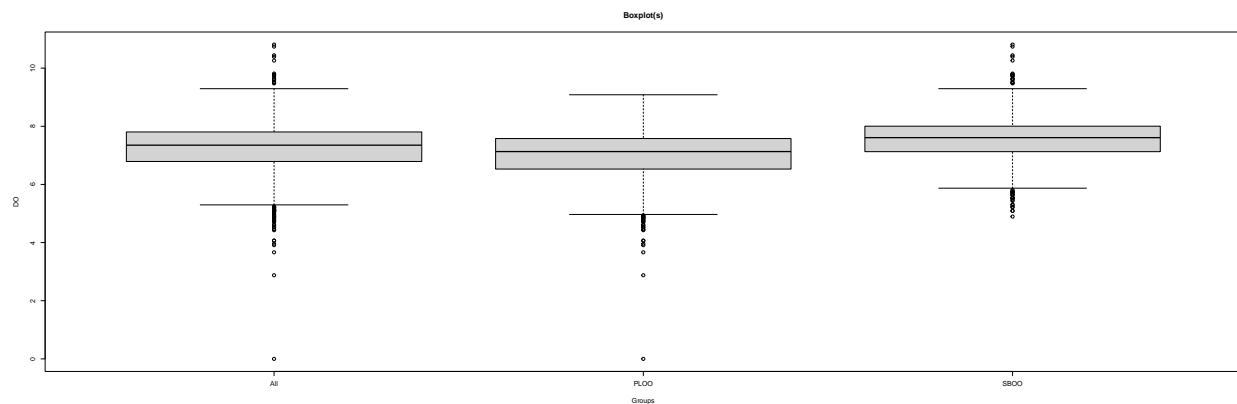


```
## [1] 2101 3
```

```
## [1] "L2 length = 0"
```

```
## ENTERO
```

```
## Using Avg as value column: use value.var to override.
```

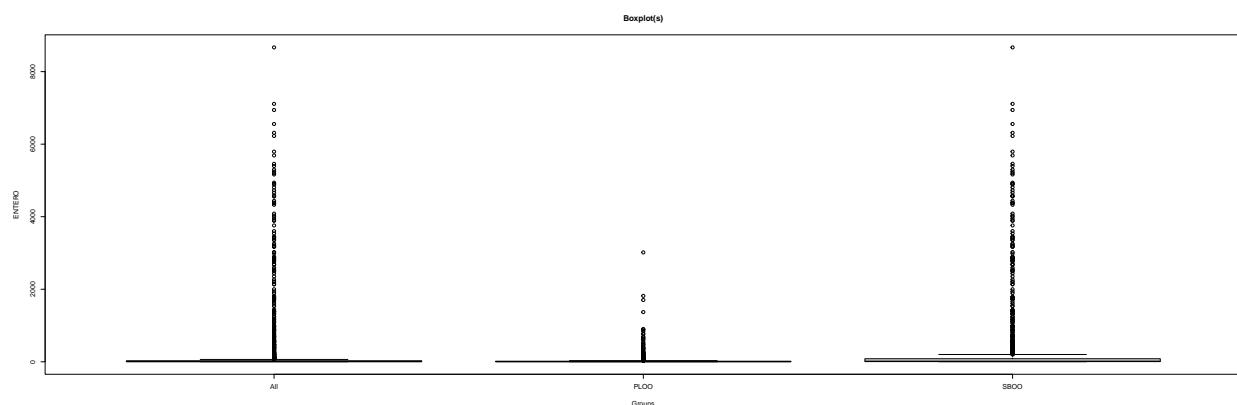


```
## [1] 2786 3
```

```
## [1] "L2 length = 0"
```

```
## FECAL
```

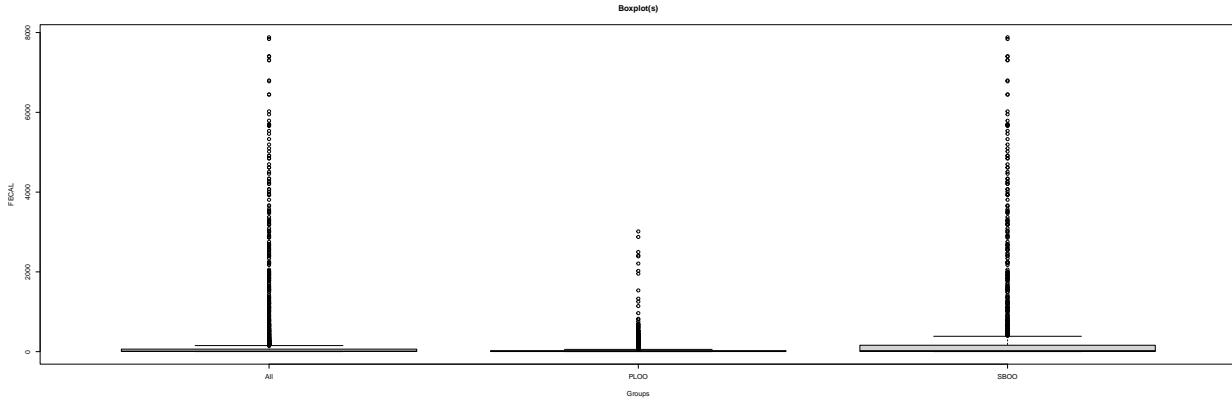
```
## Using Avg as value column: use value.var to override.
```



```

## [1] 2786      3
## [1] "L2 length = 0"
## OG
## Using Avg as value column: use value.var to override.

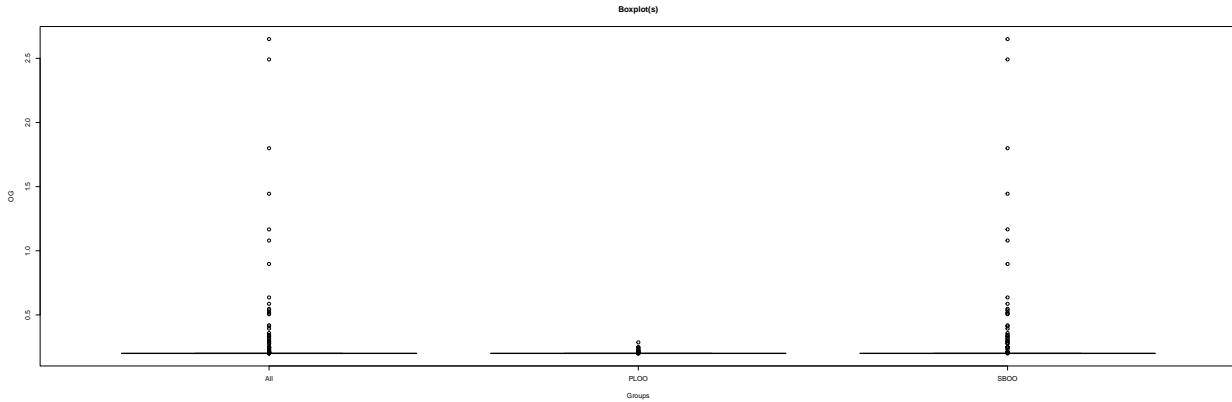
```



```

## [1] 351      3
## [1] "L2 length = 0"
## PH
## Using Avg as value column: use value.var to override.

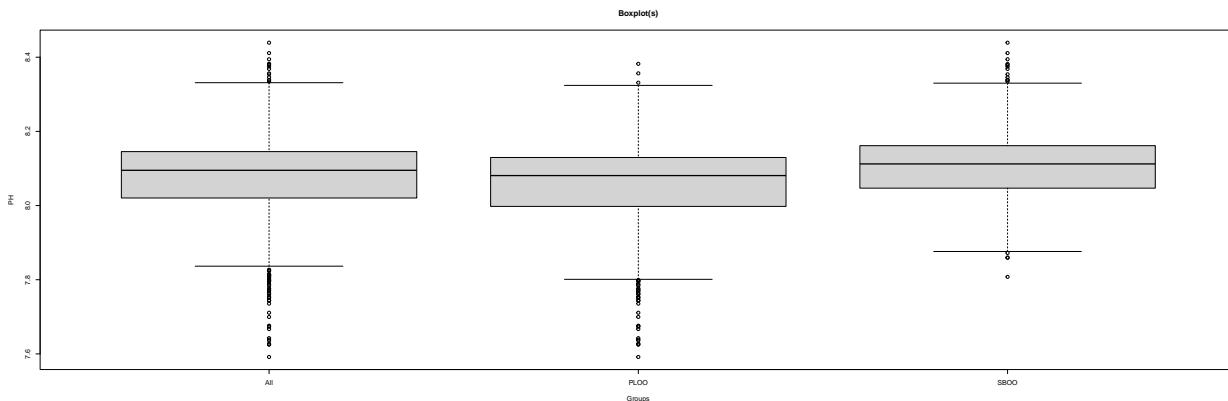
```



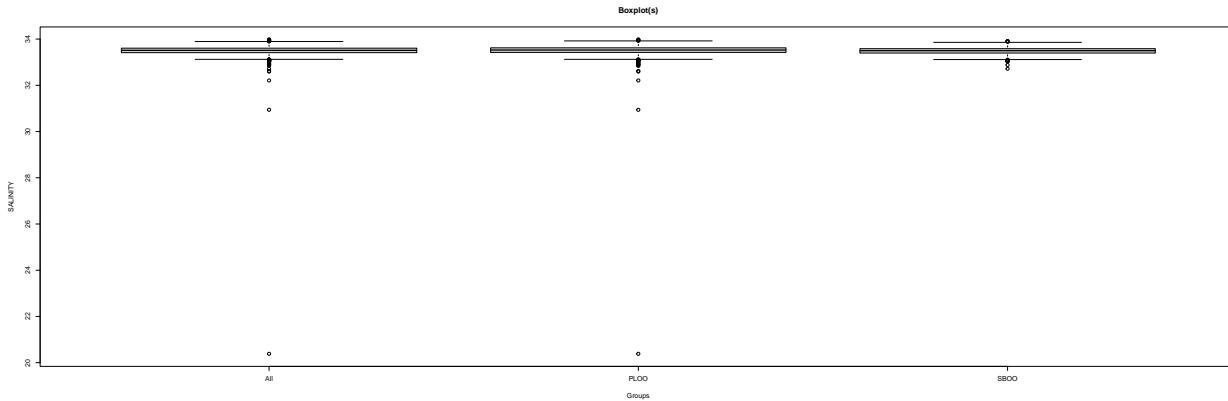
```

## [1] 2105      3
## [1] "L2 length = 0"
## SALINITY
## Using Avg as value column: use value.var to override.

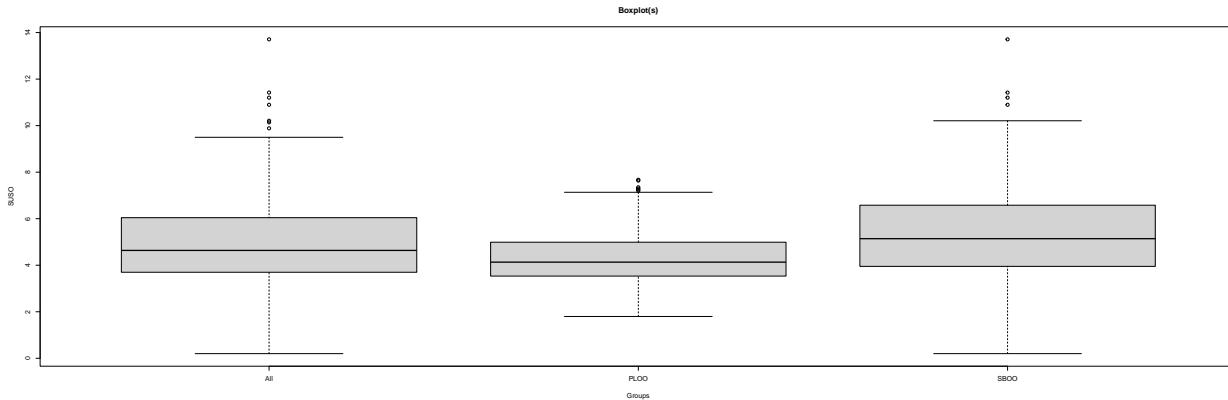
```



```
## [1] 2097    3
## [1] "L2 length = 0"
## SUSO
## Using Avg as value column: use value.var to override.
```

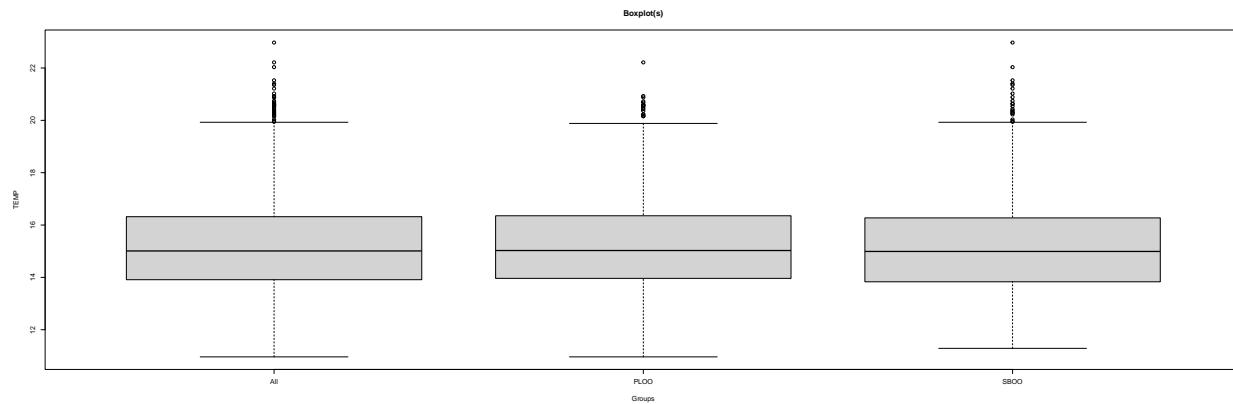


```
## [1] 369    3
## [1] "L2 length = 0"
## TEMP
## Using Avg as value column: use value.var to override.
```

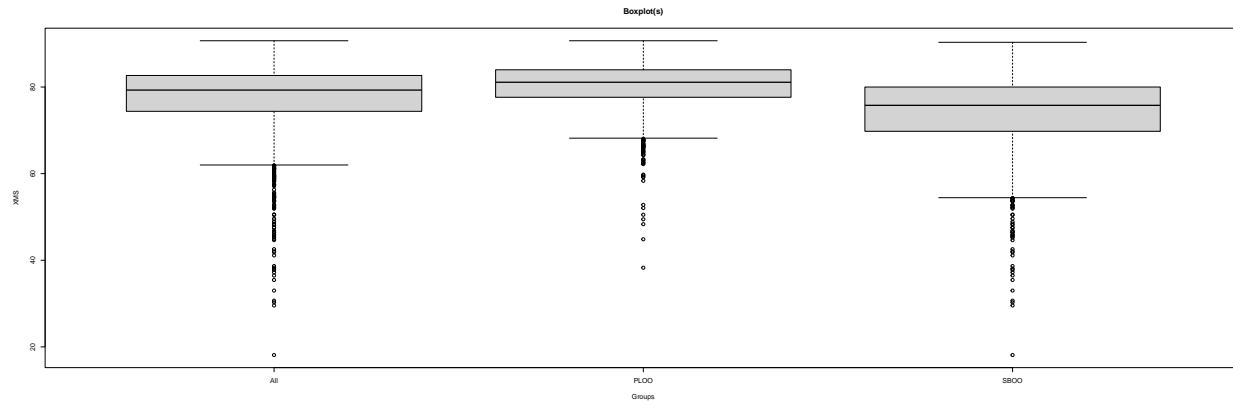


```
## [1] 2616    3
## [1] "L2 length = 0"
```

```
## XMS
## Using Avg as value column: use value.var to override.
```



```
## [1] 2606     3
## [1] "L2 length = 0"
```



```
##   date_sample project CHLOROPHYLL DENSITY      DO      ENTERO      FECAL OG
## 1 1990-11-19    PLOO        0.87 23.855 6.550000      NA      NA NA
## 2 1990-11-19    SB00        1.27 23.853 7.410000      NA      NA NA
## 3 1991-01-07    PLOO        NA       NA       NA 25.384615 88.46154 NA
## 4 1991-01-14    PLOO        NA       NA 5.445417 58.129735 137.21730 NA
## 5 1991-01-21    PLOO        NA       NA       NA 23.205128 59.61538 NA
## 6 1991-01-28    PLOO        NA       NA       NA 31.818910 69.78365 NA
## 7 1991-02-04    PLOO        NA       NA       NA 154.230769 428.58974 NA
## 8 1991-02-11    PLOO        NA       NA       NA 16.838141 14.63141 NA
## 9 1991-02-18    PLOO        NA       NA 5.597500 45.317879 112.33029 NA
## 10 1991-02-25   PLOO        NA       NA       NA 9.083333 16.10737 NA
## 11 1991-03-04   PLOO        NA       NA       NA 16.512821 15.05128 NA
## 12 1991-03-11   PLOO        NA       NA 4.808333 43.496041 247.95270 NA
## 13 1991-03-18   PLOO        NA       NA       NA 32.542347 179.98990 NA
## 14 1991-03-25   PLOO        NA       NA       NA 1370.111538 517.44812 NA
## 15 1991-04-01   PLOO        NA       NA       NA 15.025641 33.15385 NA
## 16 1991-04-08   PLOO        NA       NA       NA 38.837607 136.90598 NA
## 17 1991-04-15   PLOO        NA       NA 4.730833 43.944524 190.35018 NA
##   PH SALINITY SUSO      TEMP      XMS
## 1 8.080000 33.61700  NA 19.43000 44.85000
## 2 8.180000 33.57400  NA 19.31000 75.60000
```

```

## 3      NA      NA  NA 14.45000 81.96154
## 4  8.195000 33.50113  NA 14.07478 82.04876
## 5      NA      NA  NA 14.54487 70.19231
## 6      NA      NA  NA 14.28846 77.61167
## 7      NA      NA  NA 14.23462 81.83333
## 8      NA      NA  NA 14.46154 70.83333
## 9  8.173333 33.51717  NA 14.00639 79.30243
## 10     NA      NA  NA 14.05769 79.71518
## 11     NA      NA  NA 14.24231 82.44872
## 12  8.201667 33.48729  NA 13.93447 70.49667
## 13     NA      NA  NA 12.97995 68.95260
## 14     NA      NA  NA 13.11026 69.92308
## 15     NA      NA  NA 13.46667 75.12719
## 16     NA      NA  NA 13.19487 81.09818
## 17  8.138333 33.55379  NA 13.33149 71.94475

##          vars   n   mean     sd median trimmed   mad   min   max range
## date_sample    1 2802    NaN     NA     NA    NaN    NA Inf -Inf -Inf
## project*      2 2802    1.43    0.49    1.00    1.41   0.00  1.00  2.00  1.00
## CHLOROPHYLL  3 1967    3.89    3.68    2.71    3.19   2.09  0.33 36.05 35.72
## DENSITY       4 2000   24.73    0.47   24.76   24.75   0.44 22.71  25.98  3.27
## DO            5 2101    7.24    0.87    7.35    7.29   0.75  0.00 10.81 10.81
## ENTERO        6 2786  169.27  699.74    7.58   17.88   7.65  2.00 8668.00 8666.00
## FECAL         7 2786  233.75  815.20    9.45   42.01  10.37  2.00 7881.92 7879.92
## OG            8  351    0.24    0.23    0.20    0.20   0.00  0.20  2.65  2.45
## PH            9 2105    8.08    0.10    8.10    8.09   0.09  7.59  8.44  0.85
## SALINITY     10 2097   33.50    0.33   33.51   33.51   0.14 20.38  33.98 13.60
## SUSO          11  369    4.91    1.85    4.64    4.80   1.61  0.20 13.71 13.51
## TEMP          12 2616   15.22    1.83   15.01   15.11   1.77 10.96  22.97 12.01
## XMS           13 2606   77.43    8.03   79.29   78.55   5.84 18.11  90.68 72.57

##          skew kurtosis   se
## date_sample    NA      NA  NA
## project*      0.30   -1.91  0.01
## CHLOROPHYLL  2.63   10.24  0.08
## DENSITY      -0.47    0.46  0.01
## DO           -0.76    3.34  0.02
## ENTERO        6.11   42.36 13.26
## FECAL         5.43   33.41 15.44
## OG            7.92   70.11  0.01
## PH           -0.71    1.79  0.00
## SALINITY     -29.25  1137.46  0.01
## SUSO          0.79    1.80  0.10
## TEMP          0.61    0.27  0.04
## XMS          -1.91    5.85  0.16

##          date_sample project parameter      Avg
## Not NA n      48395    48395    48395 47222.0000
## NA n          0        0        0  1173.0000
## Not NA %      1        1        1   0.9758
## NA %          0        0        0   0.0242

```

Run custom function on data aggregated by date_sample, project, depth_m_bin and parameter

```

owt_df02_gb07_mrgd = ts_eda(ts_df = owt_df02_gb07,
                            form_lead = c("date_sample", "project", "depth_m_bin"),
                            form_cast = "parameter",
                            param_lst = param_lst02,
                            l1_col = c("project"),
                            l1_param = c("PL00", "SB00"),
                            l2_col = c("depth_m_bin"),
                            l2_param = depth_lvls01,
                            rtn_met = FALSE,
                            box = FALSE
                           )

## date_sample + project + depth_m_bin ~ parameter
## <environment: 0x000001c4b56d53e0>
## CHLOROPHYLL

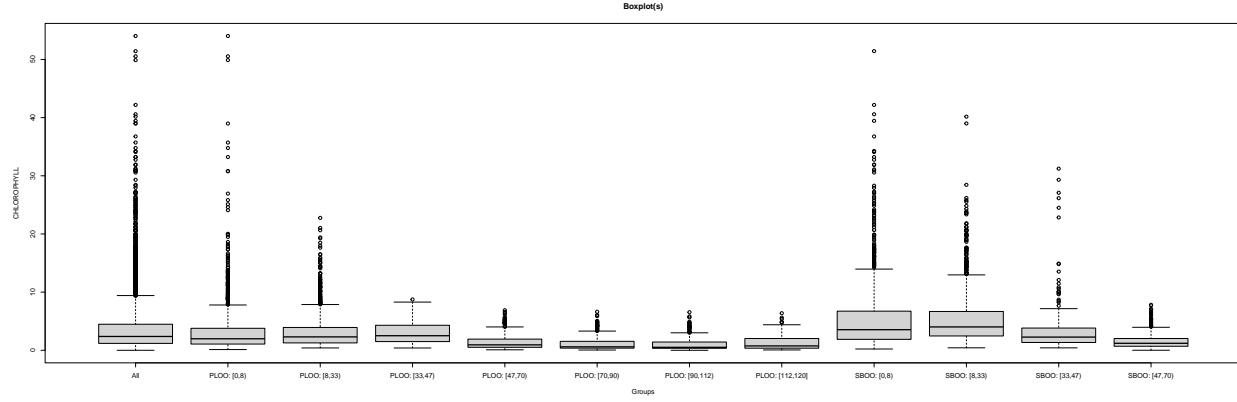
## Using Avg as value column: use value.var to override.

## [1] 8386    4
## [1] "L2 length = 8"
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "PL00: Unknown", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SB00: [70,90)", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SB00: [90,112)", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SB00: [112,120]", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SB00: Unknown", class =
##   replacement has 1 row, data has 0

## DENSITY

## Using Avg as value column: use value.var to override.

```



```

## [1] 8627    4
## [1] "L2 length = 8"
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "PL00: Unknown", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SB00: [70,90)", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SB00: [90,112)", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SB00: [112,120]", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SB00: Unknown", class =
##   replacement has 1 row, data has 0

```

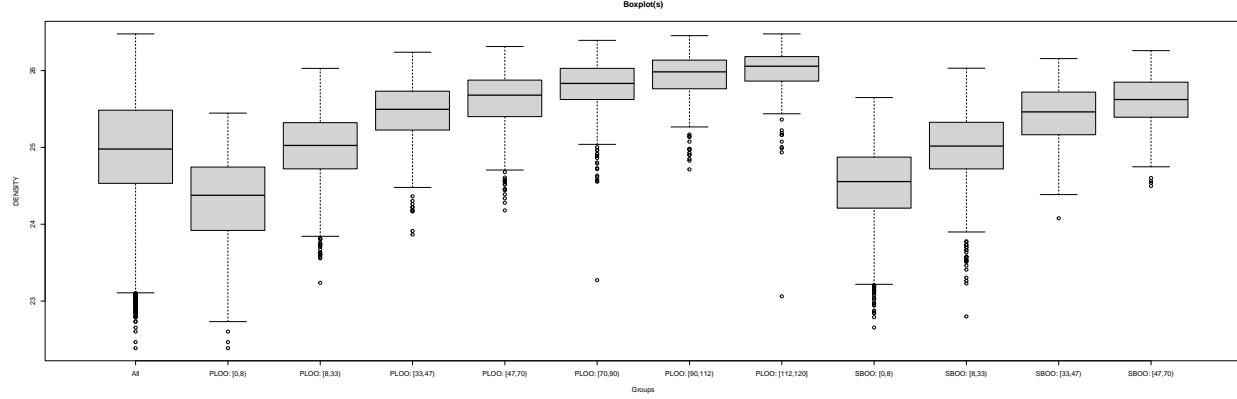
```

## replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [112,120]", class =
## replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: Unknown", class =
## replacement has 1 row, data has 0

## DO

## Using Avg as value column: use value.var to override.

```



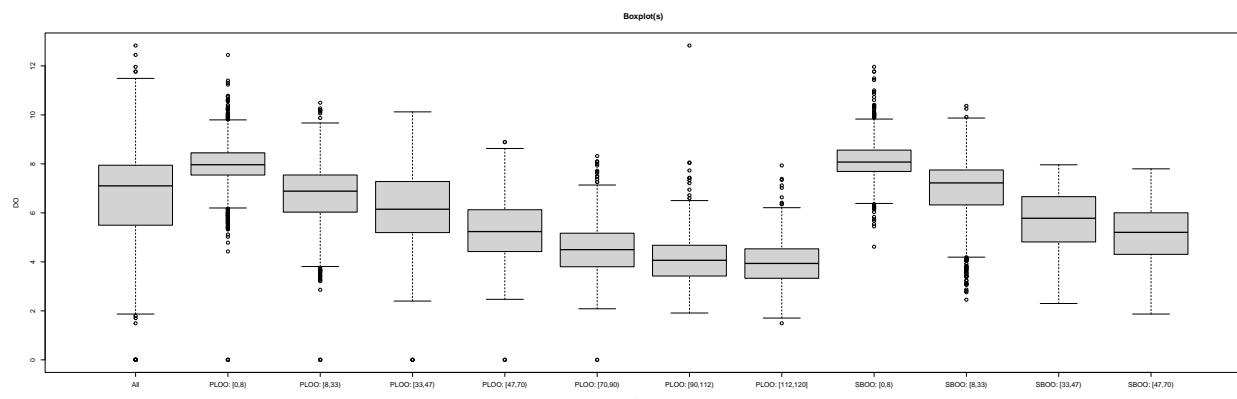
```

## [1] 9842      4
## [1] "L2 length = 8"
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "PLOO: Unknown", class =
## replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [70,90]", class =
## replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [90,112]", class =
## replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [112,120]", class =
## replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: Unknown", class =
## replacement has 1 row, data has 0

## ENTERO

## Using Avg as value column: use value.var to override.

```



```

## [1] 15533      4
## [1] "L2 length = 8"

```

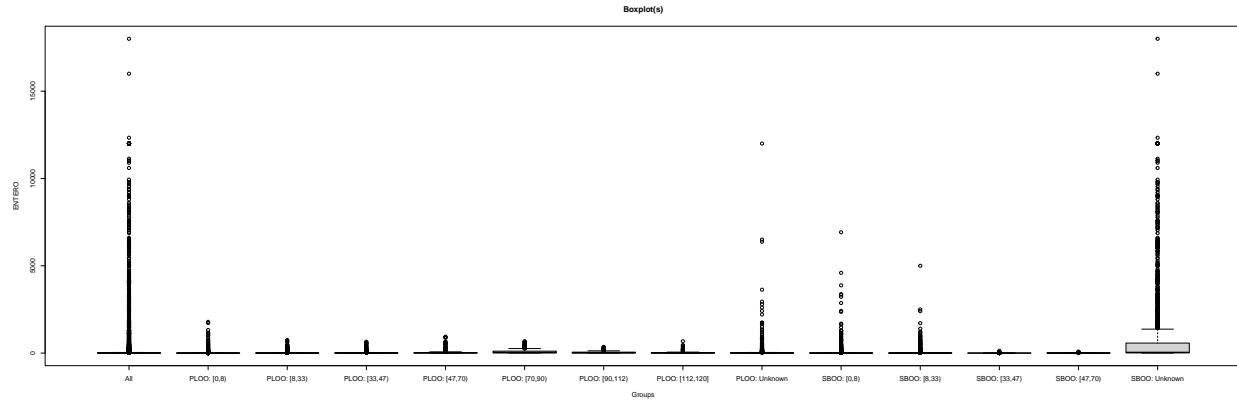
```

## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SB00: [70,90)", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SB00: [90,112)", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SB00: [112,120]", class =
##   replacement has 1 row, data has 0

## FECAL

## Using Avg as value column: use value.var to override.

```



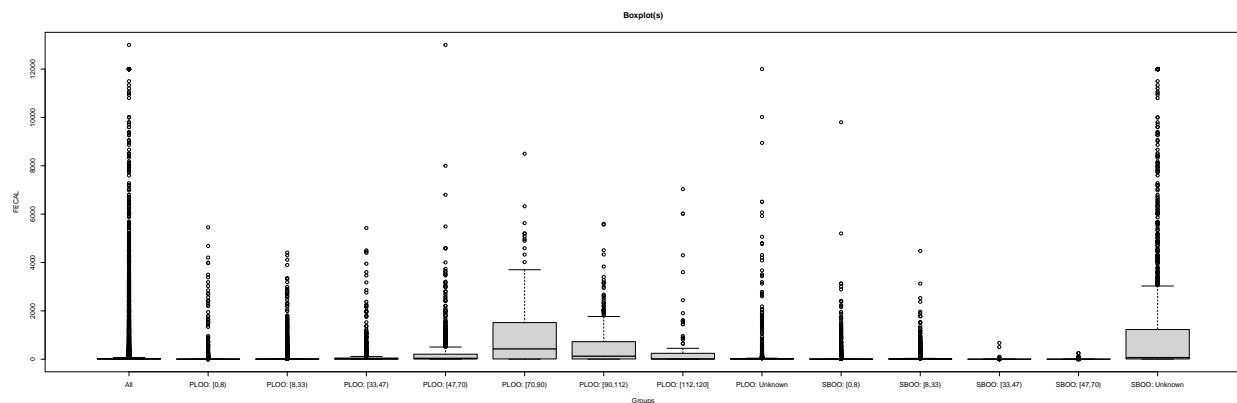
```

## [1] 14874      4
## [1] "L2 length = 8"
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SB00: [70,90)", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SB00: [90,112)", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SB00: [112,120]", class =
##   replacement has 1 row, data has 0

## OG

## Using Avg as value column: use value.var to override.

```



```

## [1] 1115      4
## [1] "L2 length = 8"
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "PLOO: [33,47)", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "PLOO: Unknown", class =
##   replacement has 1 row, data has 0

```

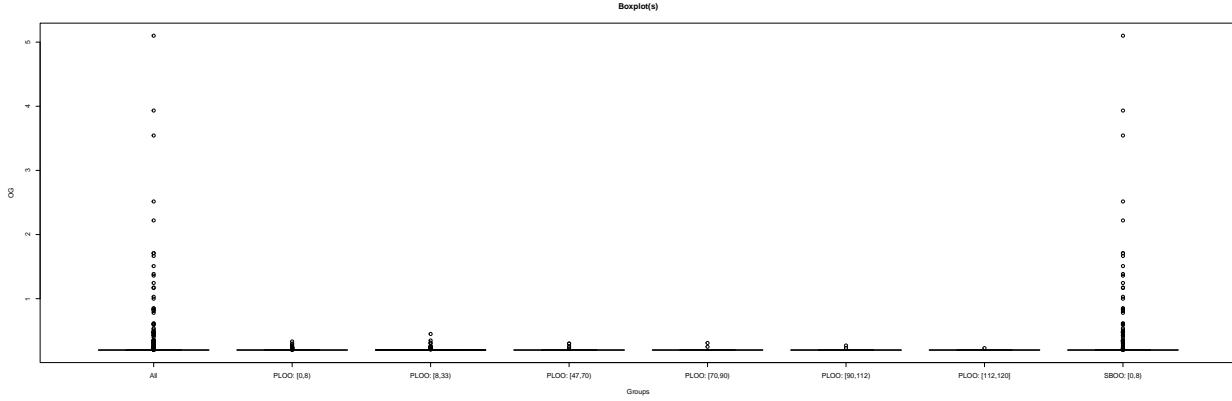
```

## replacement has 1 row, data has 0
## Error in `\$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [8,33)", class =
## replacement has 1 row, data has 0
## Error in `\$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [33,47)", class =
## replacement has 1 row, data has 0
## Error in `\$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [47,70)", class =
## replacement has 1 row, data has 0
## Error in `\$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [70,90)", class =
## replacement has 1 row, data has 0
## Error in `\$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [90,112)", class =
## replacement has 1 row, data has 0
## Error in `\$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [112,120]", class =
## replacement has 1 row, data has 0
## Error in `\$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: Unknown", class =
## replacement has 1 row, data has 0

## PH

## Using Avg as value column: use value.var to override.

```



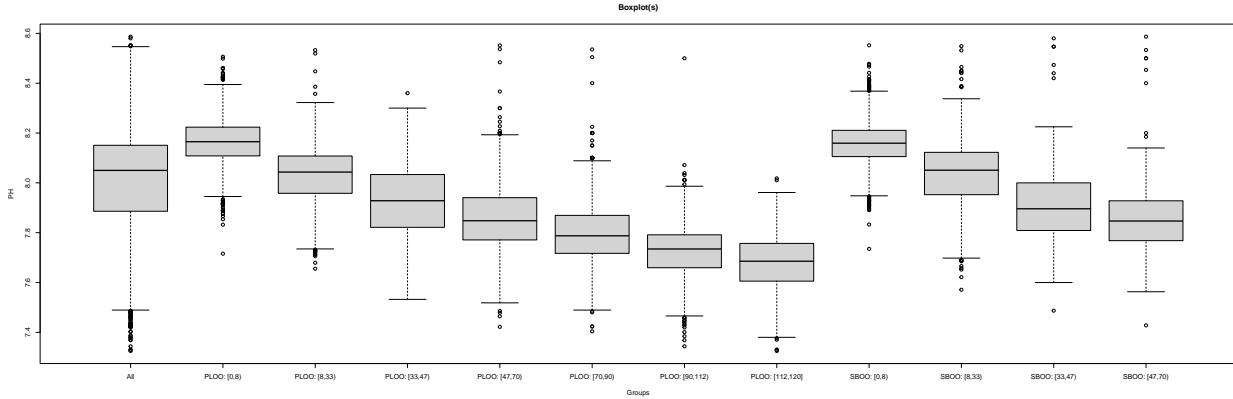
```

## [1] 9695      4
## [1] "L2 length = 8"
## Error in `\$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "PLOO: Unknown", class =
## replacement has 1 row, data has 0
## Error in `\$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [70,90)", class =
## replacement has 1 row, data has 0
## Error in `\$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [90,112)", class =
## replacement has 1 row, data has 0
## Error in `\$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [112,120]", class =
## replacement has 1 row, data has 0
## Error in `\$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: Unknown", class =
## replacement has 1 row, data has 0

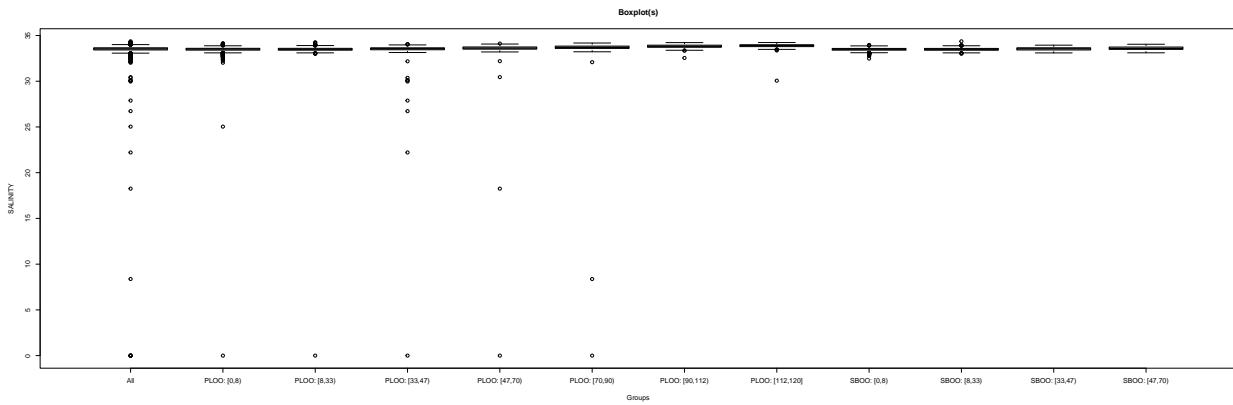
## SALINITY

## Using Avg as value column: use value.var to override.

```



```
## [1] 9844      4
## [1] "L2 length = 8"
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "PLOO: Unknown", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [70,90)", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [90,112)", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [112,120]", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: Unknown", class =
##   replacement has 1 row, data has 0
## SUSO
## Using Avg as value column: use value.var to override.
```

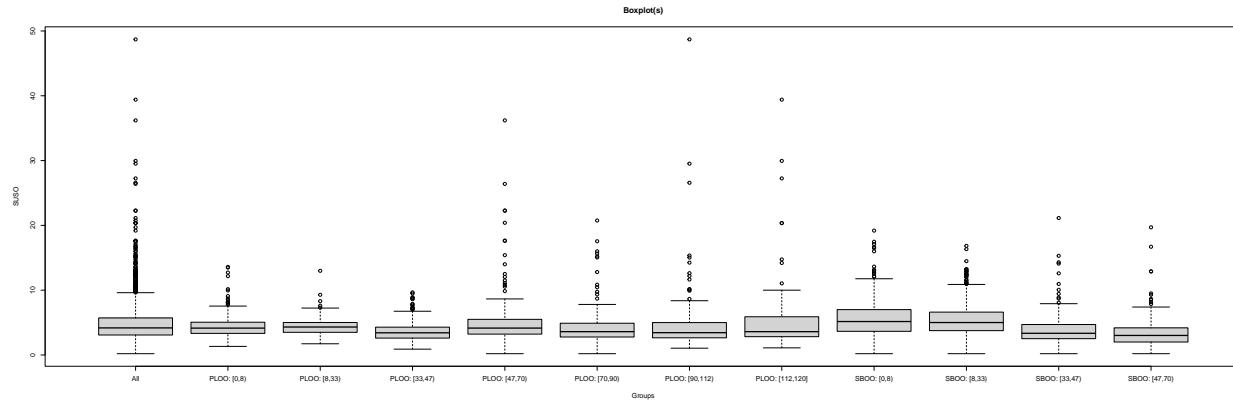


```
## [1] 3023      4
## [1] "L2 length = 8"
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "PLOO: Unknown", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [70,90)", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [90,112)", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [112,120]", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: Unknown", class =
```

```

## replacement has 1 row, data has 0
## TEMP
## Using Avg as value column: use value.var to override.

```



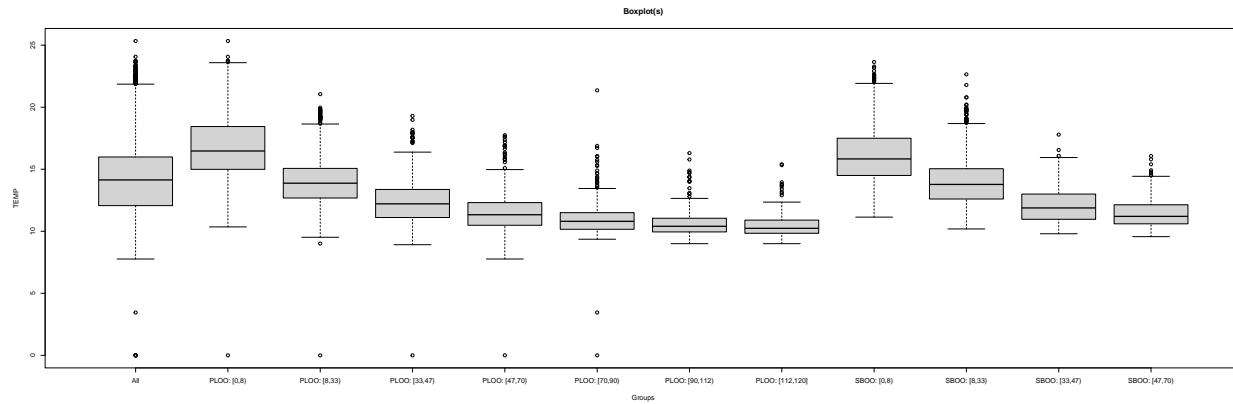
```

## [1] 12010      4
## [1] "L2 length = 8"
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "PLOO: Unknown", class =
## replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [70,90]", class =
## replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [90,112]", class =
## replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [112,120]", class =
## replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: Unknown", class =
## replacement has 1 row, data has 0

## XMS

## Using Avg as value column: use value.var to override.

```



```

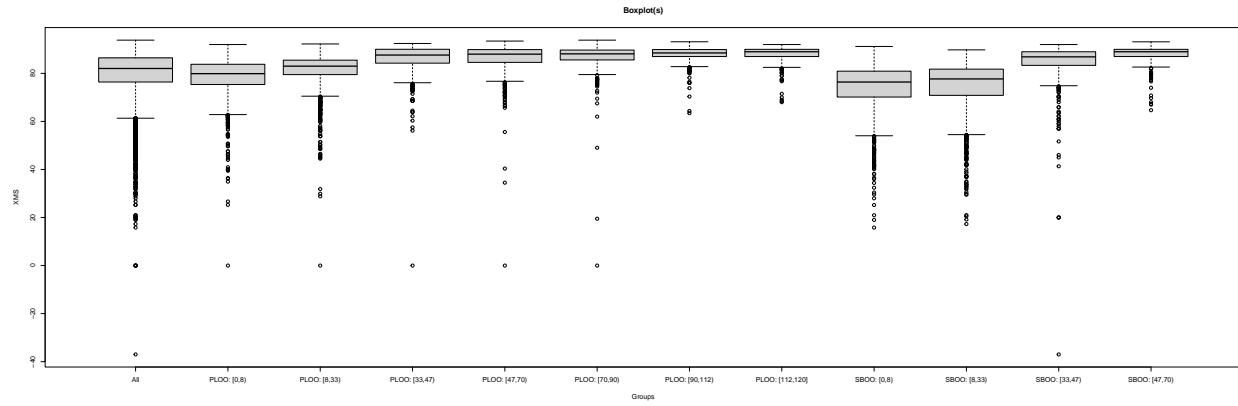
## [1] 11969      4
## [1] "L2 length = 8"
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "PLOO: Unknown", class =
## replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [70,90]", class =
## replacement has 1 row, data has 0

```

```

## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SB00: [90,112)", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SB00: [112,120]", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SB00: Unknown", class =
##   replacement has 1 row, data has 0

```



	date_sample	project	depth_m_bin	CHLOROPHYLL	DENSITY	DO	ENTERO
## 1	1990-11-15	PLOO	[8,33)	0.87	23.855	6.550000	NA
## 2	1990-11-15	SB00	[0,8)	1.27	23.853	7.410000	NA
## 3	1991-01-02	PLOO	[0,8)	NA	NA	NA	34.07407
## 4	1991-01-02	PLOO	[8,33)	NA	NA	NA	27.50000
## 5	1991-01-03	PLOO	[0,8)	NA	NA	NA	17.40741
## 6	1991-01-03	PLOO	[8,33)	NA	NA	NA	21.66667
## 7	1991-01-07	PLOO	[0,8)	NA	NA	NA	77.40741
## 8	1991-01-07	PLOO	[8,33)	NA	NA	NA	170.83333
## 9	1991-01-08	PLOO	[0,8)	NA	NA	NA	36.25000
## 10	1991-01-08	PLOO	[33,47)	NA	NA	NA	10.00000
## 11	1991-01-08	PLOO	[47,70)	NA	NA	NA	16.66667
## 12	1991-01-08	PLOO	[8,33)	NA	NA	NA	57.50000
## 13	1991-01-09	PLOO	[0,8)	NA	NA	5.675000	11.81818
## 14	1991-01-09	PLOO	[33,47)	NA	NA	5.391667	32.50000
## 15	1991-01-09	PLOO	[47,70)	NA	NA	5.300000	10.00000
## 16	1991-01-09	PLOO	[70,90)	NA	NA	5.025000	10.00000
## 17	1991-01-09	PLOO	[8,33)	NA	NA	5.496154	30.00000
		FECAL OG	PH	SALINITY	SUSO	TEMP	XMS
## 1		NA NA	8.080000	33.61700	NA	19.43000	44.85000
## 2		NA NA	8.180000	33.57400	NA	19.31000	75.60000
## 3	134.81481	NA	NA	NA	NA	14.56667	77.03704
## 4	105.00000	NA	NA	NA	NA	14.37500	86.75000
## 5	45.55556	NA	NA	NA	NA	14.48519	83.55556
## 6	64.16667	NA	NA	NA	NA	14.18333	84.66667
## 7	44.07407	NA	NA	NA	NA	14.61852	77.62963
## 8	163.33333	NA	NA	NA	NA	14.36667	82.00000
## 9	31.66667	NA	NA	NA	NA	13.36667	81.00000
## 10	12.50000	NA	NA	NA	NA	NA	NA
## 11	10.00000	NA	NA	NA	NA	NA	NA
## 12	66.00000	NA	NA	NA	NA	13.52500	79.00000
## 13	11.36364	NA	8.200000	33.51292	NA	14.59333	85.96667
## 14	10.00000	NA	8.200000	33.52583	NA	14.08333	86.25000
## 15	75.00000	NA	8.192857	33.52500	NA	13.70000	85.50000

```

## 16 10.00000 NA 8.150000 33.52500    NA 13.07500 85.00000
## 17 42.50000 NA 8.200000 33.51846    NA 14.44333 86.93333
##          vars     n   mean      sd median trimmed  mad   min   max
## date_sample    1 17003    NaN      NA     NA  NaN  NA Inf -Inf
## project*      2 17003    1.37    0.48    1.00   1.34  0.00  1.00  2.00
## depth_m_bin*   3 17003    4.49    2.61    5.00   4.48  2.97  1.00  8.00
## CHLOROPHYLL   4  8386    3.60    4.09    2.38   2.82  2.13  0.00 54.04
## DENSITY        5  8627   24.96    0.69   24.98  24.99  0.70 22.39 26.48
## DO             6  9842    6.70    1.69    7.10   6.80  1.58  0.00 12.83
## ENTERO         7 15533 150.11   925.42   2.80 10.66 1.19  0.00 18000.00
## FECAL          8 14874 269.82 1129.98   3.85 28.41 2.74  0.00 13000.00
## OG             9  1115    0.24    0.26    0.20   0.20  0.00  0.20  5.10
## PH             10  9695    8.01    0.18    8.05   8.02  0.18  7.33  8.59
## SALINITY       11  9844   33.52    0.86   33.54  33.54  0.17  0.00 34.36
## SUSO           12  3023    4.77    2.99    4.18   4.40  1.89  0.20 48.70
## TEMP           13 12010   14.27    2.80   14.14  14.11  2.90  0.00 25.34
## XMS            14 11969   80.22    9.07   82.04  81.41  7.25 -37.00 93.83
##          range   skew kurtosis   se
## date_sample   -Inf    NA     NA  NA
## project*      1.00   0.54   -1.71 0.00
## depth_m_bin*  7.00  -0.11   -1.42 0.02
## CHLOROPHYLL  54.04   3.70   22.87 0.04
## DENSITY       4.09  -0.36   -0.15 0.01
## DO            12.83  -0.55   -0.16 0.02
## ENTERO        18000.00  9.88 111.40 7.43
## FECAL          13000.00  7.12 59.92 9.27
## OG             4.90 11.87 171.74 0.01
## PH             1.26  -0.50   -0.10 0.00
## SALINITY      34.36 -34.13 1283.78 0.01
## SUSO           48.50   3.91 33.72 0.05
## TEMP           25.34   0.42   0.06 0.03
## XMS            130.83 -2.14   9.79 0.08
##          date_sample project depth_m_bin parameter      Avg
## Not NA n      121286  121286    121286   121286 119635.0000
## NA n          0       0       0       0     1651.0000
## Not NA %      1       1       1       1     0.9864
## NA %          0       0       0       0     0.0136

```

```

owt_df02_gb07_wkly = ts_eda(ts_df = owt_df02_gb07,
                           form_lead = c("date_sample", "project", "depth_m_bin"),
                           form_cast = "parameter",
                           param_lst = param_lst02,
                           l1_col = c("project"),
                           l1_param = c("PLOO", "SBOO"),
                           l2_col = c("depth_m_bin"),
                           l2_param = depth_lvls01,
                           rtn_met = FALSE,
                           box = FALSE,
                           week_agg = TRUE
)

```

```

## date_sample + project + depth_m_bin ~ parameter
## <environment: 0x000001c4b82a48b0>
## CHLOROPHYLL

```

```

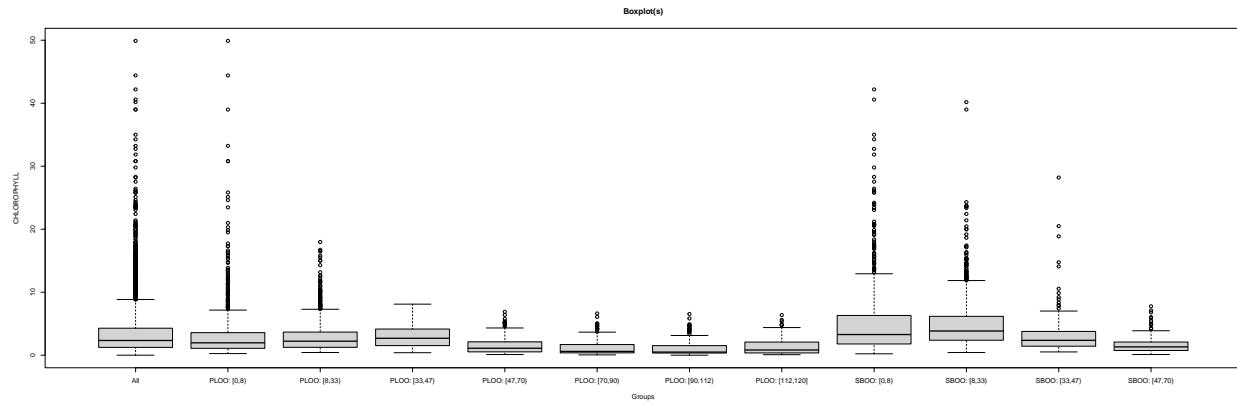
## Using Avg as value column: use value.var to override.

## [1] 5198    4
## [1] "L2 length = 8"
## Error in `<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "PLOO: Unknown", class =
##   replacement has 1 row, data has 0
## Error in `<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [70,90)", class =
##   replacement has 1 row, data has 0
## Error in `<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [90,112)", class =
##   replacement has 1 row, data has 0
## Error in `<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [112,120]", class =
##   replacement has 1 row, data has 0
## Error in `<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: Unknown", class =
##   replacement has 1 row, data has 0

## DENSITY

## Using Avg as value column: use value.var to override.

```



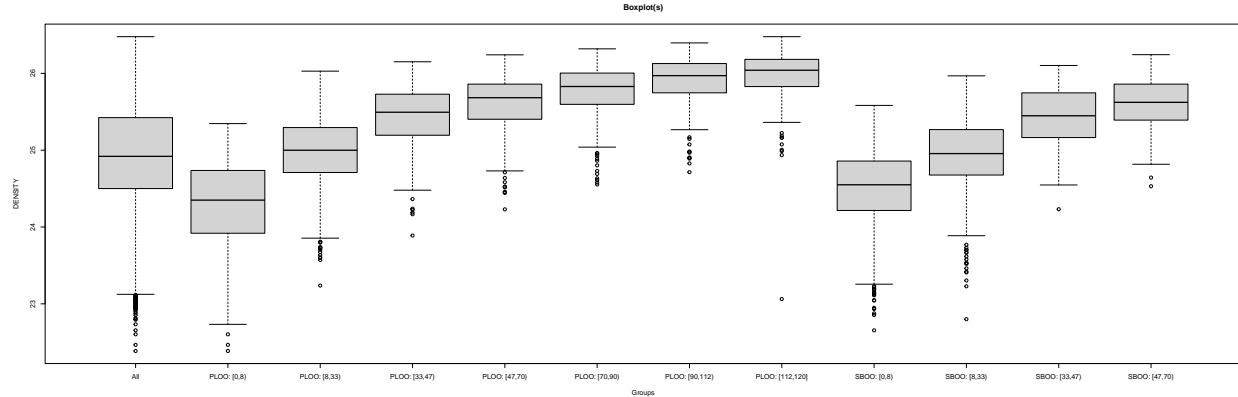
```

## [1] 5282    4
## [1] "L2 length = 8"
## Error in `<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "PLOO: Unknown", class =
##   replacement has 1 row, data has 0
## Error in `<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [70,90)", class =
##   replacement has 1 row, data has 0
## Error in `<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [90,112)", class =
##   replacement has 1 row, data has 0
## Error in `<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [112,120]", class =
##   replacement has 1 row, data has 0
## Error in `<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: Unknown", class =
##   replacement has 1 row, data has 0

## DO

## Using Avg as value column: use value.var to override.

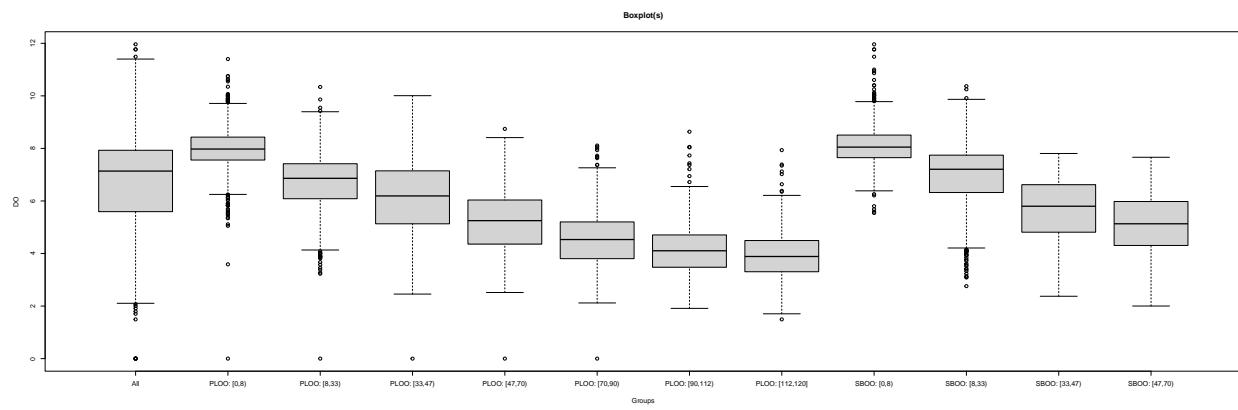
```



```

## [1] 5851      4
## [1] "L2 length = 8"
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "PLOO: Unknown", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [70,90)", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [90,112]", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [112,120]", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: Unknown", class =
##   replacement has 1 row, data has 0
## ENTERO
## Using Avg as value column: use value.var to override.

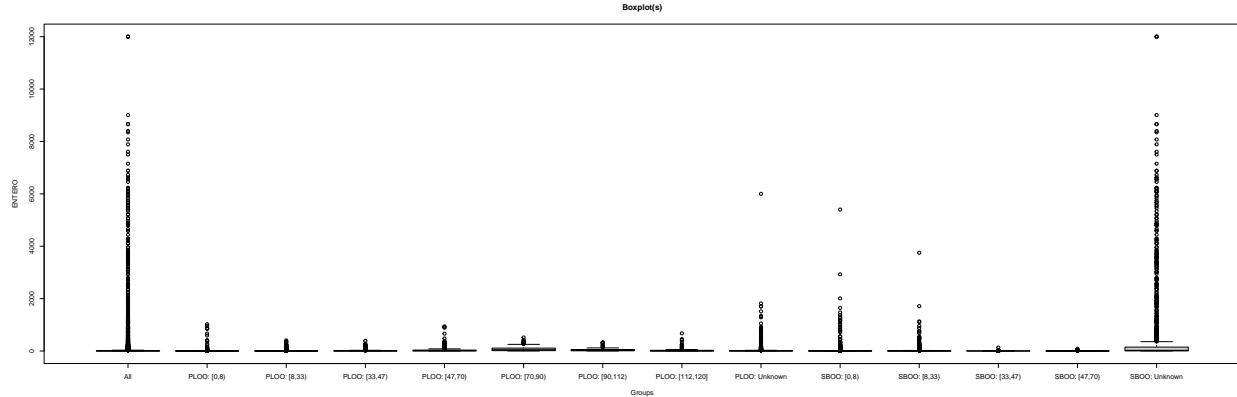
```



```

## [1] 9986      4
## [1] "L2 length = 8"
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [70,90)", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [90,112]", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [112,120]", class =
##   replacement has 1 row, data has 0
## FECAL
## Using Avg as value column: use value.var to override.

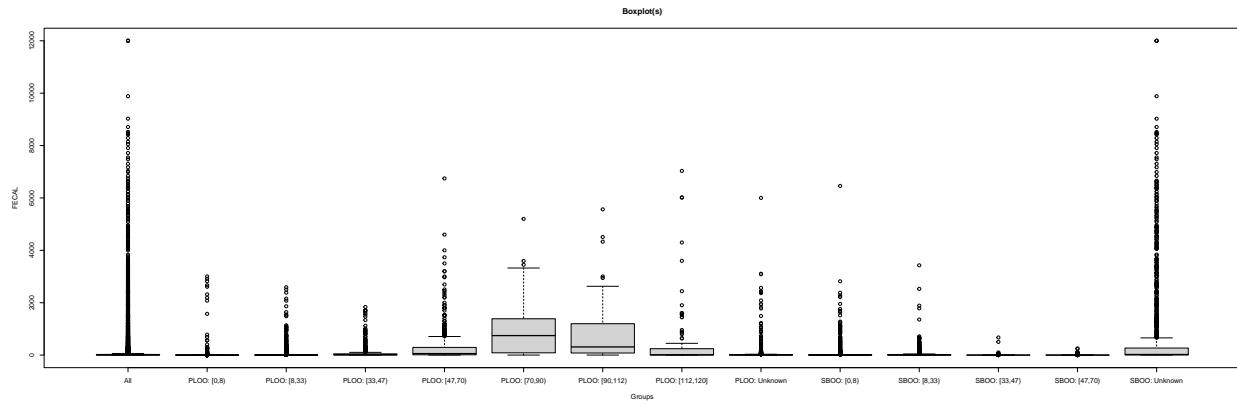
```



```

## [1] 9842    4
## [1] "L2 length = 8"
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [70,90]", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [90,112]", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [112,120]", class =
##   replacement has 1 row, data has 0
## OG
## Using Avg as value column: use value.var to override.

```



```

## [1] 458    4
## [1] "L2 length = 8"
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "PLOO: [33,47]", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "PLOO: Unknown", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [8,33]", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [33,47]", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [47,70]", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [70,90]", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [90,112]", class =

```

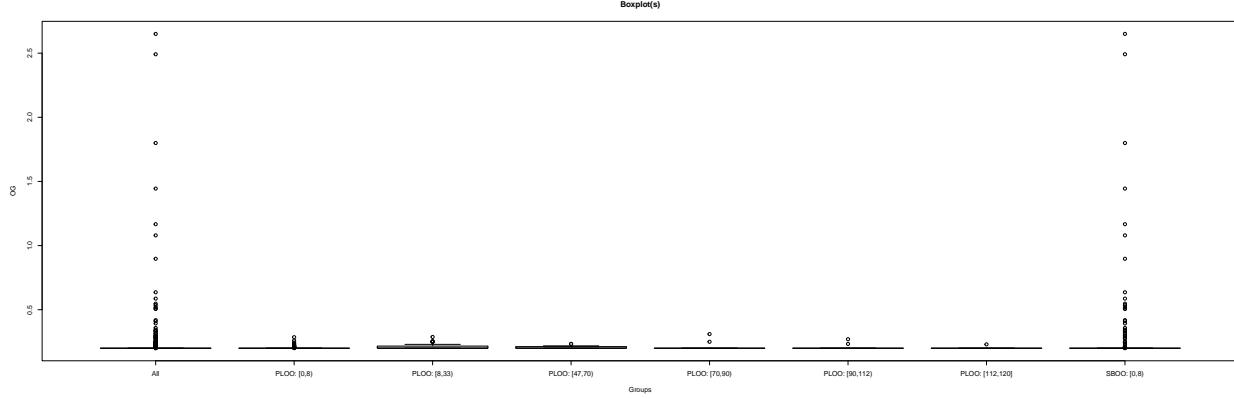
```

## replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [112,120]", class =
## replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: Unknown", class =
## replacement has 1 row, data has 0

## PH

## Using Avg as value column: use value.var to override.

```



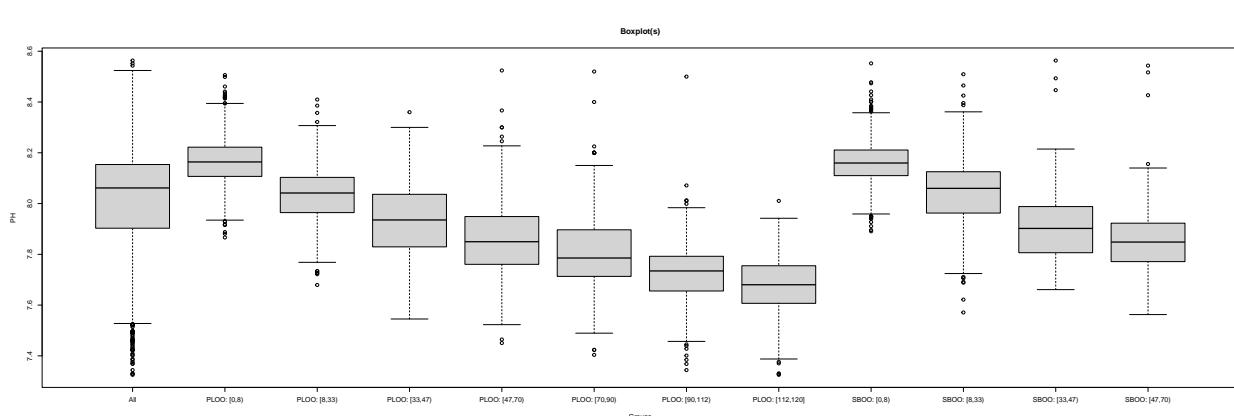
```

## [1] 5856    4
## [1] "L2 length = 8"
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "PLOO: Unknown", class =
## replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [70,90]", class =
## replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [90,112]", class =
## replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [112,120]", class =
## replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: Unknown", class =
## replacement has 1 row, data has 0

## SALINITY

## Using Avg as value column: use value.var to override.

```



```

## [1] 5851    4
## [1] "L2 length = 8"

```

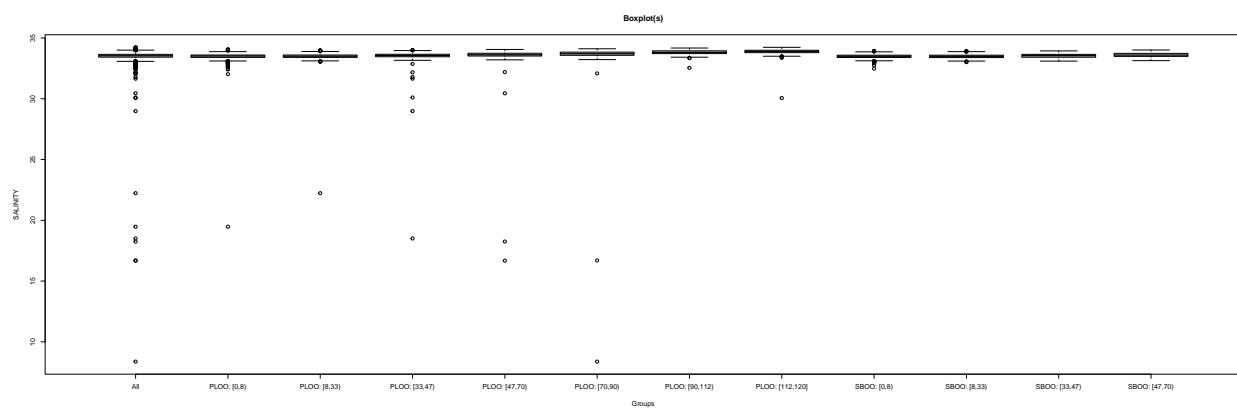
```

## Error in `\$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "PLOO: Unknown", class =
##   replacement has 1 row, data has 0
## Error in `\$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [70,90)", class =
##   replacement has 1 row, data has 0
## Error in `\$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [90,112)", class =
##   replacement has 1 row, data has 0
## Error in `\$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [112,120]", class =
##   replacement has 1 row, data has 0
## Error in `\$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: Unknown", class =
##   replacement has 1 row, data has 0

## SUSO

## Using Avg as value column: use value.var to override.

```



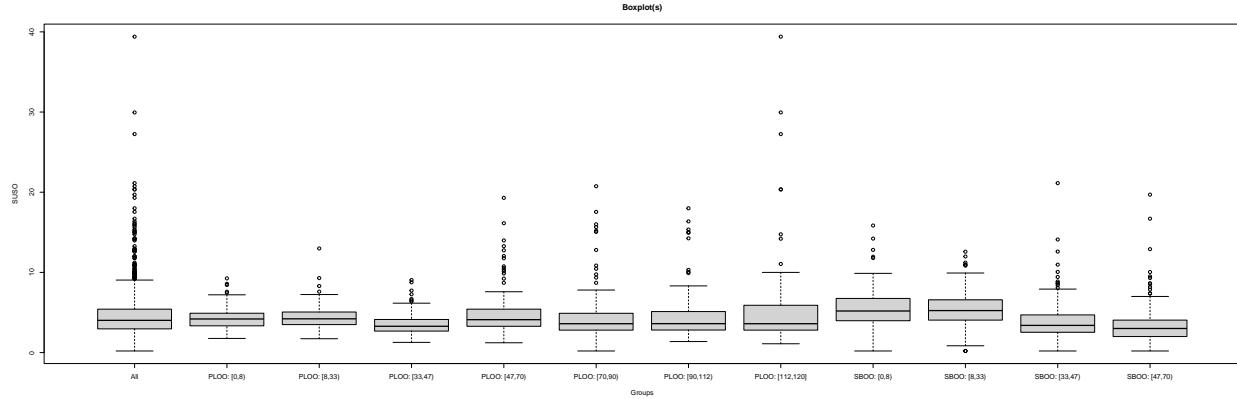
```

## [1] 1709      4
## [1] "L2 length = 8"
## Error in `\$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "PLOO: Unknown", class =
##   replacement has 1 row, data has 0
## Error in `\$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [70,90)", class =
##   replacement has 1 row, data has 0
## Error in `\$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [90,112)", class =
##   replacement has 1 row, data has 0
## Error in `\$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [112,120]", class =
##   replacement has 1 row, data has 0
## Error in `\$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: Unknown", class =
##   replacement has 1 row, data has 0

## TEMP

## Using Avg as value column: use value.var to override.

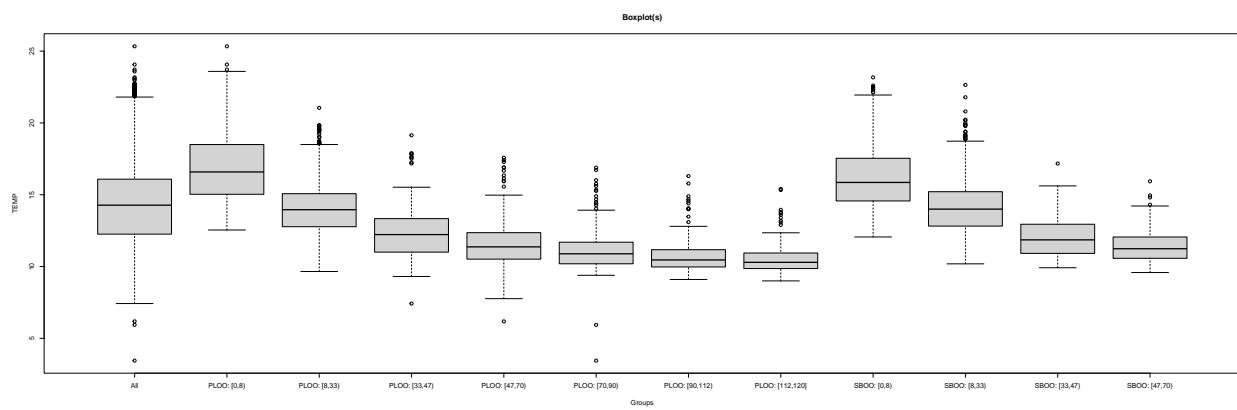
```



```

## [1] 6958      4
## [1] "L2 length = 8"
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "PLOO: Unknown", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [70,90)", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [90,112)", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [112,120]", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: Unknown", class =
##   replacement has 1 row, data has 0
## XMS
## Using Avg as value column: use value.var to override.

```

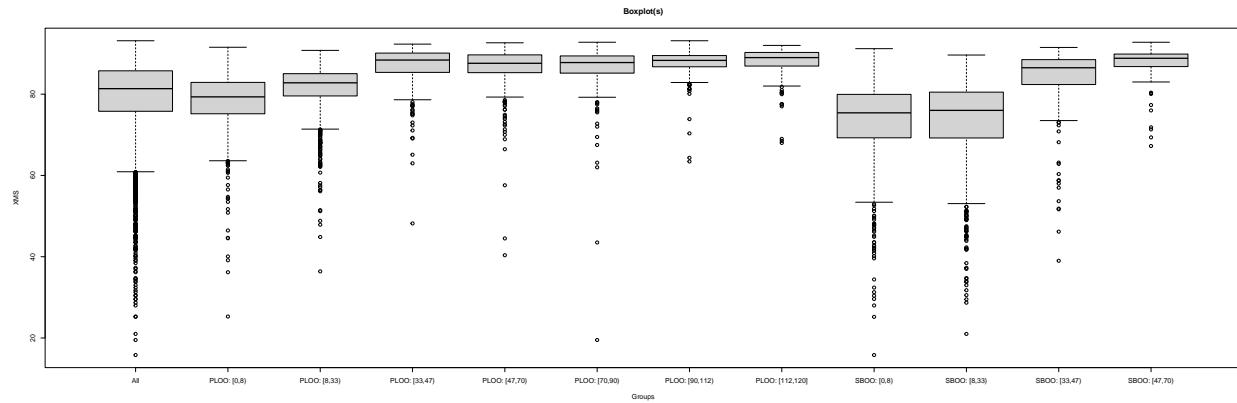


```

## [1] 6937      4
## [1] "L2 length = 8"
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "PLOO: Unknown", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [70,90)", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [90,112)", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: [112,120]", class =
##   replacement has 1 row, data has 0
## Error in `$<-.data.frame`(`*tmp*`, "Groups", value = structure(1L, levels = "SBOO: Unknown", class =
##   replacement has 1 row, data has 0

```

```
## replacement has 1 row, data has 0
```



```
## date_sample project depth_m_bin CHLOROPHYLL DENSITY DO ENTERO
## 1 1990-11-19 PL00 [8,33) 0.87 23.855 6.550000 NA
## 2 1990-11-19 SB00 [0,8) 1.27 23.853 7.410000 NA
## 3 1991-01-07 PL00 [0,8) NA NA NA 25.74074
## 4 1991-01-07 PL00 [8,33) NA NA NA 24.58333
## 5 1991-01-14 PL00 [0,8) NA NA 5.550000 36.09512
## 6 1991-01-14 PL00 [33,47) NA NA 5.347222 66.25000
## 7 1991-01-14 PL00 [47,70) NA NA 5.300000 13.33333
## 8 1991-01-14 PL00 [70,90) NA NA 5.025000 10.00000
## 9 1991-01-14 PL00 [8,33) NA NA 5.448718 85.73333
## 10 1991-01-14 PL00 Unknown NA NA NA 18.88889
## 11 1991-01-21 PL00 [0,8) NA NA NA 11.11111
## 12 1991-01-21 PL00 [8,33) NA NA NA 50.41667
## 13 1991-01-28 PL00 [0,8) NA NA NA 39.62963
## 14 1991-01-28 PL00 [8,33) NA NA NA 26.66667
## 15 1991-01-28 PL00 Unknown NA NA NA 10.00000
## 16 1991-02-04 PL00 [0,8) NA NA NA 137.96296
## 17 1991-02-04 PL00 [8,33) NA NA NA 190.83333
## FECAL OG PH SALINITY SUSO TEMP XMS
## 1 NA NA 8.080000 33.61700 NA 19.43000 44.85000
## 2 NA NA 8.180000 33.57400 NA 19.31000 75.60000
## 3 90.18519 NA NA NA NA 14.52593 80.29630
## 4 84.58333 NA NA NA NA 14.27917 85.70833
## 5 33.47643 NA 8.200000 33.49806 NA 14.19729 82.40221
## 6 352.50000 NA 8.200000 33.50861 NA 14.15278 82.25000
## 7 31.66667 NA 8.192857 33.52500 NA 13.70000 85.50000
## 8 10.00000 NA 8.150000 33.52500 NA 13.07500 85.00000
## 9 200.06667 NA 8.200000 33.49907 NA 14.01900 82.28000
## 10 120.00000 NA NA NA NA NA NA
## 11 17.22222 NA NA NA NA 14.65926 70.83333
## 12 155.00000 NA NA NA NA 14.28750 68.75000
## 13 77.96296 NA NA NA NA 14.46296 76.07407
## 14 87.50000 NA NA NA NA 13.89583 81.14015
## 15 12.22222 NA NA NA NA NA NA
## 16 296.48148 NA NA NA NA 14.37407 82.00000
## 17 725.83333 NA NA NA NA 13.92083 81.45833
## vars n mean sd median trimmed mad min max
## date_sample 1 10371 NaN NA NA NaN NA Inf -Inf
## project* 2 10371 1.36 0.48 1.00 1.33 0.00 1.00 2.00
```

```

## depth_m_bin*    3 10371   4.69   2.66   6.00   4.74 2.97 1.00   8.00
## CHLOROPHYLL  4 5198    3.50   3.91   2.34   2.76 1.97 0.00  49.89
## DENSITY       5 5282   24.93   0.69  24.92  24.95 0.68 22.39  26.48
## DO            6 5851    6.72   1.66   7.14   6.84 1.49 0.00  11.96
## ENTERO        7 9986   92.65 572.67  3.16   9.41 1.72 1.93 12000.00
## FECAL         8 9842   175.67 733.02  4.00  21.43 2.97 1.00 12000.00
## OG            9 458     0.24   0.20   0.20   0.20 0.00 0.20   2.65
## PH            10 5856    8.02   0.18   8.06   8.03 0.17 7.33   8.56
## SALINITY      11 5851   33.52   0.62  33.54  33.54 0.17 8.38  34.23
## SUSO          12 1709    4.54   2.80   4.02   4.19 1.74 0.20  39.40
## TEMP          13 6958   14.37   2.78  14.27  14.23 2.84 3.45  25.34
## XMS           14 6937   79.59   8.90  81.36  80.71 7.23 15.80  93.15
##
##             range skew kurtosis se
## date_sample -Inf   NA     NA  NA
## project*     1.00  0.56  -1.68 0.00
## depth_m_bin* 7.00 -0.21  -1.42 0.03
## CHLOROPHYLL 49.89  3.74  22.93 0.05
## DENSITY      4.09 -0.29  -0.15 0.01
## DO            11.96 -0.59  -0.20 0.02
## ENTERO        11998.07 10.78 141.08 5.73
## FECAL         11999.00  7.39 68.78 7.39
## OG            2.45   9.07  92.51 0.01
## PH            1.24  -0.62  0.11 0.00
## SALINITY      25.86 -26.02 816.01 0.01
## SUSO          39.20  3.44  24.87 0.07
## TEMP          21.89  0.42  -0.15 0.03
## XMS           77.35 -1.69  4.81 0.11
##
##      date_sample project depth_m_bin parameter      Avg
## Not NA n      121286  121286     121286  121286 119635.0000
## NA n          0        0        0        0      1651.0000
## Not NA %      1        1        1        1      0.9864
## NA %          0        0        0        0      0.0136

# Define function that imputes the missing values to parameter dataframe using linear
# interpolation
impute_missing_values <- function(df_data) {

  params <- c("CHLOROPHYLL", "DENSITY", "DO", "ENTERO", "FECAL", "OG", "PH",
  "SALINITY", "SUSO", "TEMP", "XMS")

  for (param in params) {
    print(head(df_data, 17))
    print(param)
    print(date_sample)

    x <- zoo(df_data$param, df_data$date_sample)
    df_data$param <- na.interpolation(x, option = "linear")
    return(df_data)
  }
}

# remove NAs
# Linear Interpolation

```

```

# owt_df02_gb04_mrgd
x <- zoo(owt_df02_gb04_mrgd$CHLOROPHYLL, owt_df02_gb04_mrgd$date_sample)
owt_df02_gb04_mrgd$CHLOROPHYLL <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb04_mrgd$DENSITY, owt_df02_gb04_mrgd$date_sample)
owt_df02_gb04_mrgd$DENSITY <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb04_mrgd$D0, owt_df02_gb04_mrgd$date_sample)
owt_df02_gb04_mrgd$D0 <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb04_mrgd$ENTERO, owt_df02_gb04_mrgd$date_sample)
owt_df02_gb04_mrgd$ENTERO <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb04_mrgd$FECAL, owt_df02_gb04_mrgd$date_sample)
owt_df02_gb04_mrgd$FECAL <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb04_mrgd$OG, owt_df02_gb04_mrgd$date_sample)
owt_df02_gb04_mrgd$OG <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb04_mrgd$PH, owt_df02_gb04_mrgd$date_sample)
owt_df02_gb04_mrgd$PH <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb04_mrgd$SALINITY, owt_df02_gb04_mrgd$date_sample)
owt_df02_gb04_mrgd$SALINITY <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb04_mrgd$SUSO, owt_df02_gb04_mrgd$date_sample)
owt_df02_gb04_mrgd$SUSO <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb04_mrgd$TEMP, owt_df02_gb04_mrgd$date_sample)
owt_df02_gb04_mrgd$TEMP <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb04_mrgd$XMS, owt_df02_gb04_mrgd$date_sample)
owt_df02_gb04_mrgd$XMS <- na.interpolation(x, option = "linear")

# owt_df02_gb04_wkly
x <- zoo(owt_df02_gb04_wkly$CHLOROPHYLL, owt_df02_gb04_wkly$date_sample)
owt_df02_gb04_wkly$CHLOROPHYLL <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb04_wkly$DENSITY, owt_df02_gb04_wkly$date_sample)
owt_df02_gb04_wkly$DENSITY <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb04_wkly$D0, owt_df02_gb04_wkly$date_sample)
owt_df02_gb04_wkly$D0 <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb04_wkly$ENTERO, owt_df02_gb04_wkly$date_sample)
owt_df02_gb04_wkly$ENTERO <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb04_wkly$FECAL, owt_df02_gb04_wkly$date_sample)
owt_df02_gb04_wkly$FECAL <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb04_wkly$OG, owt_df02_gb04_wkly$date_sample)

```

```

owt_df02_gb04_wkly$OG <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb04_wkly$PH, owt_df02_gb04_wkly$date_sample)
owt_df02_gb04_wkly$PH <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb04_wkly$SALINITY, owt_df02_gb04_wkly$date_sample)
owt_df02_gb04_wkly$SALINITY <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb04_wkly$SUSO, owt_df02_gb04_wkly$date_sample)
owt_df02_gb04_wkly$SUSO <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb04_wkly$TEMP, owt_df02_gb04_wkly$date_sample)
owt_df02_gb04_wkly$TEMP <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb04_wkly$XMS, owt_df02_gb04_wkly$date_sample)
owt_df02_gb04_wkly$XMS <- na.interpolation(x, option = "linear")

# owt_df02_gb09_mrgd
x <- zoo(owt_df02_gb09_mrgd$CHLOROPHYLL, owt_df02_gb09_mrgd$date_sample)
owt_df02_gb09_mrgd$CHLOROPHYLL <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb09_mrgd$DENSITY, owt_df02_gb09_mrgd$date_sample)
owt_df02_gb09_mrgd$DENSITY <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb09_mrgd$D0, owt_df02_gb09_mrgd$date_sample)
owt_df02_gb09_mrgd$D0 <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb09_mrgd$ENTERO, owt_df02_gb09_mrgd$date_sample)
owt_df02_gb09_mrgd$ENTERO <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb09_mrgd$FECAL, owt_df02_gb09_mrgd$date_sample)
owt_df02_gb09_mrgd$FECAL <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb09_mrgd$OG, owt_df02_gb09_mrgd$date_sample)
owt_df02_gb09_mrgd$OG <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb09_mrgd$PH, owt_df02_gb09_mrgd$date_sample)
owt_df02_gb09_mrgd$PH <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb09_mrgd$SALINITY, owt_df02_gb09_mrgd$date_sample)
owt_df02_gb09_mrgd$SALINITY <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb09_mrgd$SUSO, owt_df02_gb09_mrgd$date_sample)
owt_df02_gb09_mrgd$SUSO <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb09_mrgd$TEMP, owt_df02_gb09_mrgd$date_sample)
owt_df02_gb09_mrgd$TEMP <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb09_mrgd$XMS, owt_df02_gb09_mrgd$date_sample)
owt_df02_gb09_mrgd$XMS <- na.interpolation(x, option = "linear")

```

```

# owt_df02_gb09_wkly <- impute_missing_values(owt_df02_gb09_wkly)
x <- zoo(owt_df02_gb09_wkly$CHLOROPHYLL, owt_df02_gb09_wkly$date_sample)
owt_df02_gb09_wkly$CHLOROPHYLL <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb09_wkly$DENSITY, owt_df02_gb09_wkly$date_sample)
owt_df02_gb09_wkly$DENSITY <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb09_wkly$DO, owt_df02_gb09_wkly$date_sample)
owt_df02_gb09_wkly$DO <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb09_wkly$ENTERO, owt_df02_gb09_wkly$date_sample)
owt_df02_gb09_wkly$ENTERO <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb09_wkly$FECAL, owt_df02_gb09_wkly$date_sample)
owt_df02_gb09_wkly$FECAL <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb09_wkly$OG, owt_df02_gb09_wkly$date_sample)
owt_df02_gb09_wkly$OG <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb09_wkly$PH, owt_df02_gb09_wkly$date_sample)
owt_df02_gb09_wkly$PH <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb09_wkly$SALINITY, owt_df02_gb09_wkly$date_sample)
owt_df02_gb09_wkly$SALINITY <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb09_wkly$SUSO, owt_df02_gb09_wkly$date_sample)
owt_df02_gb09_wkly$SUSO <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb09_wkly$TEMP, owt_df02_gb09_wkly$date_sample)
owt_df02_gb09_wkly$TEMP <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb09_wkly$XMS, owt_df02_gb09_wkly$date_sample)
owt_df02_gb09_wkly$XMS <- na.interpolation(x, option = "linear")

# owt_df02_gb07_mrgd
x <- zoo(owt_df02_gb07_mrgd$CHLOROPHYLL, owt_df02_gb07_mrgd$date_sample)
owt_df02_gb07_mrgd$CHLOROPHYLL <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb07_mrgd$DENSITY, owt_df02_gb07_mrgd$date_sample)
owt_df02_gb07_mrgd$DENSITY <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb07_mrgd$DO, owt_df02_gb07_mrgd$date_sample)
owt_df02_gb07_mrgd$DO <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb07_mrgd$ENTERO, owt_df02_gb07_mrgd$date_sample)
owt_df02_gb07_mrgd$ENTERO <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb07_mrgd$FECAL, owt_df02_gb07_mrgd$date_sample)
owt_df02_gb07_mrgd$FECAL <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb07_mrgd$OG, owt_df02_gb07_mrgd$date_sample)
owt_df02_gb07_mrgd$OG <- na.interpolation(x, option = "linear")

```

```

x <- zoo(owt_df02_gb07_mrgd$PH, owt_df02_gb07_mrgd$date_sample)
owt_df02_gb07_mrgd$PH <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb07_mrgd$SALINITY, owt_df02_gb07_mrgd$date_sample)
owt_df02_gb07_mrgd$SALINITY <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb07_mrgd$SUSO, owt_df02_gb07_mrgd$date_sample)
owt_df02_gb07_mrgd$SUSO <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb07_mrgd$TEMP, owt_df02_gb07_mrgd$date_sample)
owt_df02_gb07_mrgd$TEMP <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb07_mrgd$XMS, owt_df02_gb07_mrgd$date_sample)
owt_df02_gb07_mrgd$XMS <- na.interpolation(x, option = "linear")

# owt_df02_gb07_mrgd
x <- zoo(owt_df02_gb07_wkly$CHLOROPHYLL, owt_df02_gb07_wkly$date_sample)
owt_df02_gb07_wkly$CHLOROPHYLL <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb07_wkly$DENSITY, owt_df02_gb07_wkly$date_sample)
owt_df02_gb07_wkly$DENSITY <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb07_wkly$DO, owt_df02_gb07_wkly$date_sample)
owt_df02_gb07_wkly$DO <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb07_wkly$ENTERO, owt_df02_gb07_wkly$date_sample)
owt_df02_gb07_wkly$ENTERO <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb07_wkly$FECAL, owt_df02_gb07_wkly$date_sample)
owt_df02_gb07_wkly$FECAL <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb07_wkly$OG, owt_df02_gb07_wkly$date_sample)
owt_df02_gb07_wkly$OG <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb07_wkly$PH, owt_df02_gb07_wkly$date_sample)
owt_df02_gb07_wkly$PH <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb07_wkly$SALINITY, owt_df02_gb07_wkly$date_sample)
owt_df02_gb07_wkly$SALINITY <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb07_wkly$SUSO, owt_df02_gb07_wkly$date_sample)
owt_df02_gb07_wkly$SUSO <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb07_wkly$TEMP, owt_df02_gb07_wkly$date_sample)
owt_df02_gb07_wkly$TEMP <- na.interpolation(x, option = "linear")

x <- zoo(owt_df02_gb07_wkly$XMS, owt_df02_gb07_wkly$date_sample)
owt_df02_gb07_wkly$XMS <- na.interpolation(x, option = "linear")

# https://cran.r-project.org/web/packages/padr/vignettes/padr.html
library(padr)

```

```
## Warning: package 'padr' was built under R version 4.2.2
library(dplyr)

owt_df02_gb04_mrgd %>% pad()

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

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```

```

## if the index entries in 'order.by' are not unique

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## pad applied on the interval: day

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## if the index entries in 'order.by' are not unique

##      date_sample CHLOROPHYLL DENSITY      DO     ENTERO     FECAL
## 1    1990-11-15   1.0700000 23.85400 6.9800000 32.051282 125.641026
## 2    1990-11-16   1.0690476 23.85410 6.6792500 32.051282 125.641026
## 3    1990-11-17   1.0680952 23.85420 6.3785000 18.717949 51.282051
## 4    1990-11-18   1.0671429 23.85431 6.0777500 106.153846 80.769231
## 5    1990-11-19   1.0661905 23.85441 5.7770000 40.000000 40.555556
## 6    1990-11-20   1.0652381 23.85451 5.4762500 20.338983 40.508475
## 7    1990-11-21   1.0642857 23.85461 5.5000000 40.227273 78.181818
## 8    1990-11-22   1.0633333 23.85471 5.3600000 83.928571 446.071429
## 9    1990-11-23   1.0623810 23.85482 5.3561364 33.846154 95.641026
## 10   1990-11-24   1.0614286 23.85492 5.3522727 12.564103 23.589744
## 11   1990-11-25   1.0604762 23.85502 5.3484091 20.512821 31.025641
## 12   1990-11-26   1.0595238 23.85512 5.3445455 43.125000 108.541667
## 13   1990-11-27   1.0585714 23.85522 5.3406818 183.076923 427.692308
## 14   1990-11-28   1.0576190 23.85533 5.3368182 125.384615 429.487179
## 15   1990-11-29   1.0566667 23.85543 5.3329545 16.291667 16.750000
## 16   1990-11-30   1.0557143 23.85553 5.3290909 17.384615 12.512821
## 17   1990-12-01   1.0547619 23.85563 5.3252273 51.897436 55.435897
## 18   1990-12-02   1.0538095 23.85573 5.3213636 45.666667 49.925926
## 19   1990-12-03   1.0528571 23.85584 5.3175000 6.700000 33.900000
## 20   1990-12-04   1.0519048 23.85594 5.8800000 36.204082 120.571429
## 21   1990-12-05   1.0509524 23.85604 5.5950000 86.121212 301.818182
## 22   1990-12-06   1.0500000 23.85614 5.4528571 15.500000 27.291667
## 23   1990-12-07   1.0490476 23.85624 5.3107143 2.666667 4.923077
## 24   1990-12-08   1.0480952 23.85635 5.1685714 26.666667 18.410256
## 25   1990-12-09   1.0471429 23.85645 5.0264286 6.358974 11.692308
## 26   1990-12-10   1.0461905 23.85655 4.8842857 122.923077 575.230769
## 27   1990-12-11   1.0452381 23.85665 4.7421429 7.746032 11.841270
## 28   1990-12-12   1.0442857 23.85676 4.6000000 49.240000 374.160000
## 29   1990-12-13   1.0433333 23.85686 4.8700000 3.692308 5.743590
## 30   1990-12-14   1.0423810 23.85696 4.9550000 33.878788 272.787879
## 31   1990-12-15   1.0414286 23.85706 4.9370313 72.717949 406.666667
## 32   1990-12-16   1.0404762 23.85716 4.9190625 18.242424 98.303030
## 33   1990-12-17   1.0395238 23.85727 4.9010938 6.666667 35.000000
## 34   1990-12-18   1.0385714 23.85737 4.8831250 6.974359 10.512821
## 35   1990-12-19   1.0376190 23.85747 4.8651563 173.333333 125.777778
## 36   1990-12-20   1.0366667 23.85757 4.8471875 138.000000 1650.000000
## 37   1990-12-21   1.0357143 23.85767 4.8292187 6500.000000 725.000000
## 38   1990-12-22   1.0347619 23.85778 4.8112500 32.250000 75.950000
## 39   1990-12-23   1.0338095 23.85788 4.7932813 7.333333 5.076923
## 40   1990-12-24   1.0328571 23.85798 4.7753125 22.717949 61.230769
## 41   1990-12-25   1.0319048 23.85808 4.7573438 48.923077 240.923077
## 42   1990-12-26   1.0309524 23.85818 4.7393750 2.000000 2.000000
## 43   1990-12-27   1.0300000 23.85829 4.7214063 65.589744 167.794872
## 44   1990-12-28   1.0290476 23.85839 4.7034375 17.897436 10.820513

```

## 45	1990-12-29	1.0280952	23.85849	4.6854688	15.074074	21.407407
## 46	1990-12-30	1.0271429	23.85859	4.6675000	168.440000	856.560000
## 47	1990-12-31	1.0261905	23.85869	4.7400000	2.444444	16.518519
## 48	1991-01-01	1.0252381	23.85880	4.7850000	15.866667	46.444444
## 49	1991-01-02	1.0242857	23.85890	4.7770833	41.076923	127.076923
## 50	1991-01-03	1.0233333	23.85900	4.7691667	5.555556	3.555556
## 51	1991-01-04	1.0223810	23.85910	4.7612500	26.307692	101.692308
## 52	1991-01-05	1.0214286	23.85920	4.7533333	4.974359	6.051282
## 53	1991-01-06	1.0204762	23.85931	4.7454167	15.692308	15.230769
## 54	1991-01-07	1.0195238	23.85941	4.7375000	13.025641	42.358974
## 55	1991-01-08	1.0185714	23.85951	4.7295833	3.111111	4.222222
## 56	1991-01-09	1.0176190	23.85961	4.7216667	7.846154	35.435897
## 57	1991-01-10	1.0166667	23.85971	4.7137500	7.435897	7.333333
## 58	1991-01-11	1.0157143	23.85982	4.7058333	15.125000	28.208333
## 59	1991-01-12	1.0147619	23.85992	4.6979167	12.051282	0.000000
## 60	1991-01-13	1.0138095	23.86002	4.6900000	36.476190	152.571429
## 61	1991-01-14	1.0128571	23.86012	4.1200000	27.600000	162.520000
## 62	1991-01-15	1.0119048	23.86022	4.6400000	21.076923	39.589744
## 63	1991-01-16	1.0109524	23.86033	4.6750000	275.272727	1842.242424
## 64	1991-01-17	1.0100000	23.86043	4.7220000	101.179487	124.307692
## 65	1991-01-18	1.0090476	23.86053	4.7690000	52.250000	119.083333
## 66	1991-01-19	1.0080952	23.86063	4.8160000	46.051282	205.384615
## 67	1991-01-20	1.0071429	23.86073	4.8630000	45.250000	362.708333
## 68	1991-01-21	1.0061905	23.86084	4.9100000	6.205128	8.820513
## 69	1991-01-22	1.0052381	23.86094	4.9570000	2.444444	2.000000
## 70	1991-01-23	1.0042857	23.86104	5.0040000	13.179487	69.538462
## 71	1991-01-24	1.0033333	23.86114	5.0510000	16.512821	19.692308
## 72	1991-01-25	1.0023810	23.86124	5.0980000	34.380952	178.126984
## 73	1991-01-26	1.0014286	23.86135	5.1450000	103.800000	849.960000
## 74	1991-01-27	1.0004762	23.86145	6.0500000	27.948718	162.102564
## 75	1991-01-28	0.9995238	23.86155	6.5700000	21.575758	292.000000
## 76	1991-01-29	0.9985714	23.86165	6.5060648	4.666667	18.923077
## 77	1991-01-30	0.9976190	23.86176	6.4421296	3.333333	7.555556
## 78	1991-01-31	0.9966667	23.86186	6.3781944	11.641026	16.256410
## 79	1991-02-01	0.9957143	23.86196	6.3142593	61.076923	189.897436
## 80	1991-02-02	0.9947619	23.86206	6.2503241	8.222222	18.000000
## 81	1991-02-03	0.9938095	23.86216	6.1863889	12.256410	73.384615
## 82	1991-02-04	0.9928571	23.86227	6.1224537	18.564103	48.923077
## 83	1991-02-05	0.9919048	23.86237	6.0585185	2.666667	2.000000
## 84	1991-02-06	0.9909524	23.86247	5.9945833	13.230769	10.717949
## 85	1991-02-07	0.9900000	23.86257	5.9306481	73.743590	1348.564103
## 86	1991-02-08	0.9890476	23.86267	5.8667130	113.904762	798.190476
## 87	1991-02-09	0.9880952	23.86278	5.8027778	61.200000	424.080000
## 88	1991-02-10	0.9871429	23.86288	6.3300000	55.487179	530.051282
## 89	1991-02-11	0.9861905	23.86298	6.6700000	125.757576	1728.000000
## 90	1991-02-12	0.9852381	23.86308	6.6078824	16.102564	65.897436
## 91	1991-02-13	0.9842857	23.86318	6.5457647	24.888889	50.444444
## 92	1991-02-14	0.9833333	23.86329	6.4836471	35.076923	172.205128
## 93	1991-02-15	0.9823810	23.86339	6.4215294	157.897436	1172.666667
## 94	1991-02-16	0.9814286	23.86349	6.3594118	122.820513	925.333333
## 95	1991-02-17	0.9804762	23.86359	6.2972941	19.333333	5.777778
## 96	1991-02-18	0.9795238	23.86369	6.2351765	5.333333	14.222222
## 97	1991-02-19	0.9785714	23.86380	6.1730588	17.128205	298.615385
## 98	1991-02-20	0.9776190	23.86390	6.1109412	16.461538	367.384615

## 99	1991-02-21	0.9766667	23.86400	6.0488235	24.615385	26.794872
## 100	1991-02-22	0.9757143	23.86410	5.9867059	16.444444	7.111111
## 101	1991-02-23	0.9747619	23.86420	5.9245882	38.820513	566.051282
## 102	1991-02-24	0.9738095	23.86431	5.8624706	12.820513	34.615385
## 103	1991-02-25	0.9728571	23.86441	5.8003529	32.444444	480.476190
## 104	1991-02-26	0.9719048	23.86451	5.7382353	11.160000	227.000000
## 105	1991-02-27	0.9709524	23.86461	5.8200000	5.025641	221.538462
## 106	1991-02-28	0.9700000	23.86471	5.8800000	97.515152	1627.818182
## 107	1991-03-01	0.9690476	23.86482	5.8840271	9.666667	172.875000
## 108	1991-03-02	0.9680952	23.86492	5.8880543	69.076923	725.846154
## 109	1991-03-03	0.9671429	23.86502	5.8920814	167.589744	1607.897436
## 110	1991-03-04	0.9661905	23.86512	5.8961086	5.166667	38.916667
## 111	1991-03-05	0.9652381	23.86522	5.9001357	6.666667	41.487179
## 112	1991-03-06	0.9642857	23.86533	5.9041629	6.444444	2.222222
## 113	1991-03-07	0.9633333	23.86543	5.9081900	9.743590	2.358974
## 114	1991-03-08	0.9623810	23.86553	5.9122172	4.410256	19.230769
## 115	1991-03-09	0.9614286	23.86563	5.9162443	8.444444	8.888889
## 116	1991-03-10	0.9604762	23.86573	5.9202715	6.871795	23.179487
## 117	1991-03-11	0.9595238	23.86584	5.9242986	3.897436	8.307692
## 118	1991-03-12	0.9585714	23.86594	5.9283258	19.592593	188.703704
## 119	1991-03-13	0.9576190	23.86604	5.9323529	3.830508	4.677966
## 120	1991-03-14	0.9566667	23.86614	6.3000000	7.076923	3.384615
## 121	1991-03-15	0.9557143	23.86624	6.7650000	2.484848	30.242424
## 122	1991-03-16	0.9547619	23.86635	6.6540196	16.666667	30.000000
## 123	1991-03-17	0.9538095	23.86645	6.5430392	41.128205	518.205128
## 124	1991-03-18	0.9528571	23.86655	6.4320588	12.358974	97.897436
## 125	1991-03-19	0.9519048	23.86665	6.3210784	3.025641	25.743590
## 126	1991-03-20	0.9509524	23.86676	6.2100980	4.000000	7.777778
## 127	1991-03-21	0.9500000	23.86686	6.0991176	2.512821	15.743590
## 128	1991-03-22	0.9490476	23.86696	5.9881373	14.615385	97.282051
## 129	1991-03-23	0.9480952	23.86706	5.8771569	9.619048	31.714286
## 130	1991-03-24	0.9471429	23.86716	5.7661765	15.322344	603.200000
## 131	1991-03-25	0.9461905	23.86727	5.8900000	21.025641	1116.461538
## 132	1991-03-26	0.9452381	23.86737	6.2100000	2.000000	4.424242
## 133	1991-03-27	0.9442857	23.86747	6.1741176	10.256410	23.641026
## 134	1991-03-28	0.9433333	23.86757	6.1382353	7.333333	95.555556
## 135	1991-03-29	0.9423810	23.86767	6.1023529	4.153846	14.923077
## 136	1991-03-30	0.9414286	23.86778	6.0664706	6.974359	139.076923
## 137	1991-03-31	0.9404762	23.86788	6.0305882	15.777778	8.888889
## 138	1991-04-01	0.9395238	23.86798	5.9947059	17.794872	300.358974
## 139	1991-04-02	0.9385714	23.86808	5.9588235	12.717949	11.538462
## 140	1991-04-03	0.9376190	23.86818	5.9229412	141.555556	380.888889
## 141	1991-04-04	0.9366667	23.86829	5.8870588	17.743590	124.000000
## 142	1991-04-05	0.9357143	23.86839	5.8511765	13.743590	79.333333
## 143	1991-04-06	0.9347619	23.86849	5.8152941	21.074074	15.629630
## 144	1991-04-07	0.9338095	23.86859	5.7794118	51.560000	196.920000
## 145	1991-04-08	0.9328571	23.86869	6.0066667	2.000000	3.638889
## 146	1991-04-09	0.9319048	23.86880	6.1711111	44.333333	179.625000
## 147	1991-04-10	0.9309524	23.86890	6.3355556	2.933333	9.066667
## 148	1991-04-11	0.9300000	23.86900	6.5000000	18.222222	142.888889
## 149	1991-04-12	0.9299043	23.86905	6.4151471	20.880000	127.520000
## 150	1991-04-13	0.9298086	23.86911	6.3302941	16.428571	14.285714
## 151	1991-04-14	0.9297129	23.86916	6.2454412	15.025641	71.948718
## 152	1991-04-15	0.9296172	23.86921	6.1605882	25.948718	217.743590

## 153	1991-04-16	0.9295215	23.86926	6.0757353	6.416667	27.541667
## 154	1991-04-17	0.9294258	23.86932	5.9908824	6.615385	26.256410
## 155	1991-04-18	0.9293301	23.86937	5.9060294	24.923077	188.410256
## 156	1991-04-19	0.9292344	23.86942	5.8211765	27.529412	111.235294
## 157	1991-04-20	0.9291388	23.86947	5.7363235	123.904762	1099.238095
## 158	1991-04-21	0.9290431	23.86953	5.6514706	10.640000	280.080000
## 159	1991-04-22	0.9289474	23.86958	5.3600000	5.589744	40.102564
## 160	1991-04-23	0.9288517	23.86963	5.3300000	72.000000	791.142857
## 161	1991-04-24	0.9287560	23.86968	5.3730719	2.058824	6.823529
## 162	1991-04-25	0.9286603	23.86974	5.4161438	5.285714	13.647059
## 163	1991-04-26	0.9285646	23.86979	5.4592157	74.235294	8.352941
## 164	1991-04-27	0.9284689	23.86984	5.5022876	36.232558	6.093023
## 165	1991-04-28	0.9283732	23.86989	5.5453595	87.764706	258.000000
## 166	1991-04-29	0.9282775	23.86995	5.5884314	19.705882	15.823529
## 167	1991-04-30	0.9281818	23.87000	5.6315033	113.466667	623.133333
## 168	1991-05-01	0.9280861	23.87005	5.6745752	26.476190	16.222222
## 169	1991-05-02	0.9279904	23.87011	5.7176471	88.290909	317.864407
## 170	1991-05-03	0.9278947	23.87016	5.6766667	18.833333	172.055556
## 171	1991-05-04	0.9277990	23.87021	5.2036111	497.333333	1991.487179
## 172	1991-05-05	0.9277033	23.87026	4.7305556	33.230769	29.692308
## 173	1991-05-06	0.9276077	23.87032	4.2575000	9.435897	28.256410
## 174	1991-05-07	0.9275120	23.87037	3.7844444	16.153846	39.282051
## 175	1991-05-08	0.9274163	23.87042	3.3113889	3.111111	10.888889
## 176	1991-05-09	0.9273206	23.87047	2.8383333	7.948718	16.631579
## 177	1991-05-10	0.9272249	23.87053	2.3652778	6.717949	13.487179
## 178	1991-05-11	0.9271292	23.87058	1.8922222	68.000000	272.717949
## 179	1991-05-12	0.9270335	23.87063	1.4191667	231.538462	1394.871795
## 180	1991-05-13	0.9269378	23.87068	0.9461111	12.000000	13.272727
## 181	1991-05-14	0.9268421	23.87074	0.4730556	70.000000	427.916667
## 182	1991-05-15	0.9267464	23.87079	0.0000000	78.177215	793.478261
## 183	1991-05-16	0.9266507	23.87084	0.0000000	315.928571	2185.142857
## 184	1991-05-17	0.9265550	23.87089	0.0000000	1151.456790	3205.111111
## 185	1991-05-18	0.9264593	23.87095	0.2476716	504.222222	915.111111
## 186	1991-05-19	0.9263636	23.87100	0.4953431	179.555556	462.000000
## 187	1991-05-20	0.9262679	23.87105	0.7430147	674.604651	4376.000000
## 188	1991-05-21	0.9261722	23.87111	0.9906863	884.444444	2718.666667
## 189	1991-05-22	0.9260766	23.87116	1.2383578	351.125000	1597.208333
## 190	1991-05-23	0.9259809	23.87121	1.4860294	848.222222	3453.555556
## 191	1991-05-24	0.9258852	23.87126	1.7337010	415.625000	1085.291667
## 192	1991-05-25	0.9257895	23.87132	1.9813725	473.555556	732.888889
## 193	1991-05-26	0.9256938	23.87137	2.2290441	754.222222	2772.888889
## 194	1991-05-27	0.9255981	23.87142	2.4767157	241.111111	1648.000000
## 195	1991-05-28	0.9255024	23.87147	2.7243873	122.375000	1143.833333
## 196	1991-05-29	0.9254067	23.87153	2.9720588	413.333333	1564.625000
## 197	1991-05-30	0.9253110	23.87158	3.2197304	75.777778	382.222222
## 198	1991-05-31	0.9252153	23.87163	3.4674020	200.500000	1596.375000
## 199	1991-06-01	0.9251196	23.87168	3.7150735	352.666667	3126.000000
## 200	1991-06-02	0.9250239	23.87174	3.9627451	327.777778	1284.000000
## 201	1991-06-03	0.9249282	23.87179	4.2104167	700.416667	2808.833333
## 202	1991-06-04	0.9248325	23.87184	4.4580882	209.555556	1689.333333
## 203	1991-06-05	0.9247368	23.87189	4.7057598	483.000000	1747.458333
## 204	1991-06-06	0.9246411	23.87195	4.9534314	797.333333	4762.000000
## 205	1991-06-07	0.9245455	23.87200	5.2011029	435.500000	1515.583333
## 206	1991-06-08	0.9244498	23.87205	5.4487745	160.888889	1094.666667

## 207	1991-06-09	0.9243541	23.87211	5.6964461	1650.00000	6506.888889
## 208	1991-06-10	0.9242584	23.87216	5.9441176	35.755102	88.857143
## 209	1991-06-11	0.9241627	23.87221	6.0045588	887.00000	2295.583333
## 210	1991-06-12	0.9240670	23.87226	6.0650000	301.956044	1697.708333
## 211	1991-06-13	0.9239713	23.87232	5.8900000	238.22222	1099.833333
## 212	1991-06-14	0.9238756	23.87237	5.8630607	460.458333	1874.208333
## 213	1991-06-15	0.9237799	23.87242	5.8361213	256.666667	842.22222
## 214	1991-06-16	0.9236842	23.87247	5.8091820	391.555556	1769.777778
## 215	1991-06-17	0.9235885	23.87253	5.7822426	636.666667	1993.000000
## 216	1991-06-18	0.9234928	23.87258	5.7553033	34.888889	57.111111
## 217	1991-06-19	0.9233971	23.87263	5.7283640	213.083333	1354.916667
## 218	1991-06-20	0.9233014	23.87268	5.7014246	370.22222	3435.111111
## 219	1991-06-21	0.9232057	23.87274	5.6744853	674.291667	1548.083333
## 220	1991-06-22	0.9231100	23.87279	5.6475460	44.22222	162.000000
## 221	1991-06-23	0.9230144	23.87284	5.6206066	39.333333	227.333333
## 222	1991-06-24	0.9229187	23.87289	5.5936673	264.041667	1163.791667
## 223	1991-06-25	0.9228230	23.87295	5.5667279	262.666667	1796.000000
## 224	1991-06-26	0.9227273	23.87300	5.5397886	582.958333	2253.333333
## 225	1991-06-27	0.9226316	23.87305	5.5128493	145.333333	352.000000
## 226	1991-06-28	0.9225359	23.87311	5.4859099	652.625000	2266.750000
## 227	1991-06-29	0.9224402	23.87316	5.4589706	2605.777778	6511.777778
## 228	1991-06-30	0.9223445	23.87321	5.4320313	775.777778	1118.000000
## 229	1991-07-01	0.9222488	23.87326	5.4050919	1166.500000	3512.916667
## 230	1991-07-02	0.9221531	23.87332	5.3781526	80.000000	98.888889
## 231	1991-07-03	0.9220574	23.87337	5.3512132	84.708333	598.166667
## 232	1991-07-04	0.9219617	23.87342	5.3242739	750.500000	2913.500000
## 233	1991-07-05	0.9218660	23.87347	5.2973346	256.888889	1587.333333
## 234	1991-07-06	0.9217703	23.87353	5.2703952	534.888889	2781.111111
## 235	1991-07-07	0.9216746	23.87358	5.2434559	436.000000	2678.000000
## 236	1991-07-08	0.9215789	23.87363	5.2165165	288.958333	2054.833333
## 237	1991-07-09	0.9214833	23.87368	5.1895772	1191.777778	5062.888889
## 238	1991-07-10	0.9213876	23.87374	5.1626379	173.458333	1310.666667
## 239	1991-07-11	0.9212919	23.87379	5.1356985	230.444444	3508.444444
## 240	1991-07-12	0.9211962	23.87384	5.1087592	389.291667	2344.833333
## 241	1991-07-13	0.9211005	23.87389	5.0818199	343.777778	3192.000000
## 242	1991-07-14	0.9210048	23.87395	5.0548805	8.22222	16.888889
## 243	1991-07-15	0.9209091	23.87400	5.0279412	51.536232	391.362319
## 244	1991-07-16	0.9208134	23.87405	5.1497386	6.875000	4.960000
## 245	1991-07-17	0.9207177	23.87411	5.2715359	39.458333	107.583333
## 246	1991-07-18	0.9206220	23.87416	5.3933333	51.916667	141.805556
## 247	1991-07-19	0.9205263	23.87421	5.3425408	18.888889	2.851852
## 248	1991-07-20	0.9204306	23.87426	5.2917484	25.897436	86.564103
## 249	1991-07-21	0.9203349	23.87432	5.2409559	50.461538	129.076923
## 250	1991-07-22	0.9202392	23.87437	5.1901634	141.846154	640.000000
## 251	1991-07-23	0.9201435	23.87442	5.1393709	2.444444	3.111111
## 252	1991-07-24	0.9200478	23.87447	5.0885784	6.871795	11.487179
## 253	1991-07-25	0.9199522	23.87453	5.0377859	3.435897	2.871795
## 254	1991-07-26	0.9198565	23.87458	4.9869935	2.102564	3.641026
## 255	1991-07-27	0.9197608	23.87463	4.9362010	2.000000	6.358974
## 256	1991-07-28	0.9196651	23.87468	4.8854085	21.794872	303.102564
## 257	1991-07-29	0.9195694	23.87474	4.8346160	14.539683	95.142857
## 258	1991-07-30	0.9194737	23.87479	4.7838235	51.345455	486.036364
## 259	1991-07-31	0.9193780	23.87484	4.8685784	4.666667	13.555556
## 260	1991-08-01	0.9192823	23.87489	4.9533333	70.296296	306.740741

## 261	1991-08-02	0.9191866	23.87495	4.9768441	2.666667	33.692308
## 262	1991-08-03	0.9190909	23.87500	5.0003548	11.777778	4.222222
## 263	1991-08-04	0.9189952	23.87505	5.0238655	2.051282	2.153846
## 264	1991-08-05	0.9188995	23.87511	5.0473763	44.820513	335.641026
## 265	1991-08-06	0.9188038	23.87516	5.0708870	74.717949	404.512821
## 266	1991-08-07	0.9187081	23.87521	5.0943978	4.888889	10.666667
## 267	1991-08-08	0.9186124	23.87526	5.1179085	167.948718	1503.692308
## 268	1991-08-09	0.9185167	23.87532	5.1414192	9.333333	16.461538
## 269	1991-08-10	0.9184211	23.87537	5.1649300	8.307692	7.538462
## 270	1991-08-11	0.9183254	23.87542	5.1884407	4.000000	7.777778
## 271	1991-08-12	0.9182297	23.87547	5.2119514	36.358974	162.512821
## 272	1991-08-13	0.9181340	23.87553	5.2354622	123.948718	1446.615385
## 273	1991-08-14	0.9180383	23.87558	5.2589729	58.000000	27.333333
## 274	1991-08-15	0.9179426	23.87563	5.2824837	173.076923	972.153846
## 275	1991-08-16	0.9178469	23.87568	5.3059944	22.307692	261.692308
## 276	1991-08-17	0.9177512	23.87574	5.3295051	44.102564	203.384615
## 277	1991-08-18	0.9176555	23.87579	5.3530159	16.000000	4.666667
## 278	1991-08-19	0.9175598	23.87584	5.3765266	10.307692	64.923077
## 279	1991-08-20	0.9174641	23.87589	5.4000373	17.487179	11.025641
## 280	1991-08-21	0.9173684	23.87595	5.4235481	2.380952	26.031746
## 281	1991-08-22	0.9172727	23.87600	5.4470588	57.520000	427.280000
## 282	1991-08-23	0.9171770	23.87605	5.6500000	5.846154	14.307692
## 283	1991-08-24	0.9170813	23.87611	5.7300000	47.636364	306.969697
## 284	1991-08-25	0.9169856	23.87616	5.7832773	44.051282	185.948718
## 285	1991-08-26	0.9168900	23.87621	5.8365546	31.333333	108.500000
## 286	1991-08-27	0.9167943	23.87626	5.8898319	91.589744	796.256410
## 287	1991-08-28	0.9166986	23.87632	5.9431092	53.875000	202.166667
## 288	1991-08-29	0.9166029	23.87637	5.9963866	115.897436	1366.051282
## 289	1991-08-30	0.9165072	23.87642	6.0496639	55.460317	208.126984
## 290	1991-08-31	0.9164115	23.87647	6.1029412	131.280000	1031.920000
## 291	1991-09-01	0.9163158	23.87653	6.7900000	19.128205	553.230769
## 292	1991-09-02	0.9162201	23.87658	6.9800000	4.727273	20.848485
## 293	1991-09-03	0.9161244	23.87663	6.9014916	13.538462	145.641026
## 294	1991-09-04	0.9160287	23.87668	6.8229832	4.222222	9.333333
## 295	1991-09-05	0.9159330	23.87674	6.7444748	22.512821	123.487179
## 296	1991-09-06	0.9158373	23.87679	6.6659664	84.615385	809.743590
## 297	1991-09-07	0.9157416	23.87684	6.5874580	25.025641	165.538462
## 298	1991-09-08	0.9156459	23.87689	6.5089496	2.666667	10.222222
## 299	1991-09-09	0.9155502	23.87695	6.4304412	9.794872	77.179487
## 300	1991-09-10	0.9154545	23.87700	6.3519328	12.512821	109.948718
## 301	1991-09-11	0.9153589	23.87705	6.2734244	140.888889	73.777778
## 302	1991-09-12	0.9152632	23.87711	6.1949160	61.897436	965.230769
## 303	1991-09-13	0.9151675	23.87716	6.1164076	35.894737	363.105263
## 304	1991-09-14	0.9150718	23.87721	6.0378992	161.487179	860.512821
## 305	1991-09-15	0.9149761	23.87726	5.9593908	18.031746	196.222222
## 306	1991-09-16	0.9148804	23.87732	5.8808824	87.680000	816.200000
## 307	1991-09-17	0.9147847	23.87737	6.0900000	23.333333	191.384615
## 308	1991-09-18	0.9146890	23.87742	6.2050000	50.242424	200.909091
## 309	1991-09-19	0.9145933	23.87747	6.1626316	10.358974	106.820513
## 310	1991-09-20	0.9144976	23.87753	6.1202632	23.555556	1227.555556
## 311	1991-09-21	0.9144019	23.87758	6.0778947	81.743590	617.538462
## 312	1991-09-22	0.9143062	23.87763	6.0355263	8.615385	26.051282
## 313	1991-09-23	0.9142105	23.87768	5.9931579	20.820513	114.153846
## 314	1991-09-24	0.9141148	23.87774	5.9507895	4.222222	76.666667

## 315	1991-09-25	0.9140191	23.87779	5.9084211	6.205128	25.846154
## 316	1991-09-26	0.9139234	23.87784	5.8660526	2.958333	20.833333
## 317	1991-09-27	0.9138278	23.87789	5.8236842	13.333333	178.256410
## 318	1991-09-28	0.9137321	23.87795	5.7813158	7.487179	13.179487
## 319	1991-09-29	0.9136364	23.87800	5.7389474	5.777778	36.444444
## 320	1991-09-30	0.9135407	23.87805	5.6965789	44.769231	564.871795
## 321	1991-10-01	0.9134450	23.87811	5.6542105	69.230769	469.384615
## 322	1991-10-02	0.9133493	23.87816	5.6118421	4.205128	21.025641
## 323	1991-10-03	0.9132536	23.87821	5.5694737	7.777778	228.666667
## 324	1991-10-04	0.9131579	23.87826	5.5271053	39.128205	396.153846
## 325	1991-10-05	0.9130622	23.87832	5.4847368	40.769231	271.846154
## 326	1991-10-06	0.9129665	23.87837	5.4423684	23.301587	506.666667
## 327	1991-10-07	0.9128708	23.87842	5.4000000	18.560000	351.240000
## 328	1991-10-08	0.9127751	23.87847	5.8366667	24.138889	353.305556
## 329	1991-10-09	0.9126794	23.87853	5.8085730	5.794872	3.333333
## 330	1991-10-10	0.9125837	23.87858	5.7804793	17.333333	78.888889
## 331	1991-10-11	0.9124880	23.87863	5.7523856	3.384615	6.717949
## 332	1991-10-12	0.9123923	23.87868	5.7242919	8.564103	19.897436
## 333	1991-10-13	0.9122967	23.87874	5.6961983	7.555556	19.333333
## 334	1991-10-14	0.9122010	23.87879	5.6681046	7.641026	3.692308
## 335	1991-10-15	0.9121053	23.87884	5.6400109	54.153846	348.358974
## 336	1991-10-16	0.9120096	23.87889	5.6119172	16.476190	46.539683
## 337	1991-10-17	0.9119139	23.87895	5.5838235	29.640000	371.640000
## 338	1991-10-18	0.9118182	23.87900	5.9700000	56.769231	466.205128
## 339	1991-10-19	0.9117225	23.87905	5.7450000	102.363636	625.212121
## 340	1991-10-20	0.9116268	23.87911	5.7212896	2.717949	17.692308
## 341	1991-10-21	0.9115311	23.87916	5.6975792	6.222222	16.222222
## 342	1991-10-22	0.9114354	23.87921	5.6738688	13.384615	110.666667
## 343	1991-10-23	0.9113397	23.87926	5.6501584	4.512821	35.230769
## 344	1991-10-24	0.9112440	23.87932	5.6264480	2.541667	27.958333
## 345	1991-10-25	0.9111483	23.87937	5.6027376	3.692308	8.358974
## 346	1991-10-26	0.9110526	23.87942	5.5790271	3.589744	21.384615
## 347	1991-10-27	0.9109569	23.87947	5.5553167	4.444444	13.111111
## 348	1991-10-28	0.9108612	23.87953	5.5316063	31.025641	316.461538
## 349	1991-10-29	0.9107656	23.87958	5.5078959	28.256410	253.076923
## 350	1991-10-30	0.9106699	23.87963	5.4841855	97.435897	47.333333
## 351	1991-10-31	0.9105742	23.87968	5.4604751	8.571429	6.793651
## 352	1991-11-01	0.9104785	23.87974	5.4367647	100.000000	153.520000
## 353	1991-11-02	0.9103828	23.87979	5.6833333	29.555556	570.388889
## 354	1991-11-03	0.9102871	23.87984	5.8850000	2.051282	2.256410
## 355	1991-11-04	0.9101914	23.87989	6.0866667	8.871795	41.897436
## 356	1991-11-05	0.9100957	23.87995	6.2883333	7.282051	3.333333
## 357	1991-11-06	0.9100000	23.88000	6.4900000	5.666667	3.794872
## 358	1991-11-07	0.9098333	23.88002	6.4202451	4.051282	4.256410
## 359	1991-11-08	0.9096667	23.88004	6.3504902	3.333333	120.222222
## 360	1991-11-09	0.9095000	23.88007	6.2807353	6.358974	55.692308
## 361	1991-11-10	0.9093333	23.88009	6.2109804	7.794872	17.589744
## 362	1991-11-11	0.9091667	23.88011	6.1412255	26.000000	132.615385
## 363	1991-11-12	0.9090000	23.88013	6.0714706	33.487179	110.000000
## 364	1991-11-13	0.9088333	23.88016	6.0017157	2.222222	16.666667
## 365	1991-11-14	0.9086667	23.88018	5.9319608	73.897436	336.923077
## 366	1991-11-15	0.9085000	23.88020	5.8622059	9.538462	100.307692
## 367	1991-11-16	0.9083333	23.88022	5.7924510	10.333333	2.000000
## 368	1991-11-17	0.9081667	23.88024	5.7226961	29.222222	73.407407

## 369	1991-11-18	0.9080000	23.88027	5.6529412	16.960000	101.160000
## 370	1991-11-19	0.9078333	23.88029	5.7600000	5.384615	35.384615
## 371	1991-11-20	0.9076667	23.88031	5.5250000	41.212121	396.484848
## 372	1991-11-21	0.9075000	23.88033	5.5273529	2.000000	2.421053
## 373	1991-11-22	0.9073333	23.88036	5.5297059	3.333333	6.444444
## 374	1991-11-23	0.9071667	23.88038	5.5320588	25.794872	182.666667
## 375	1991-11-24	0.9070000	23.88040	5.5344118	18.307692	18.102564
## 376	1991-11-25	0.9068333	23.88042	5.5367647	78.153846	409.025641
## 377	1991-11-26	0.9066667	23.88044	5.5391176	85.250000	86.041667
## 378	1991-11-27	0.9065000	23.88047	5.5414706	8.871795	15.692308
## 379	1991-11-28	0.9063333	23.88049	5.5438235	2.000000	2.205128
## 380	1991-11-29	0.9061667	23.88051	5.5461765	2.000000	2.037037
## 381	1991-11-30	0.9060000	23.88053	5.5485294	6.840000	19.440000
## 382	1991-12-01	0.9058333	23.88056	5.5933333	34.333333	157.777778
## 383	1991-12-02	0.9056667	23.88058	5.6251120	62.307692	24.205128
## 384	1991-12-03	0.9055000	23.88060	5.6568908	290.000000	163.333333
## 385	1991-12-04	0.9053333	23.88062	5.6886695	24.153846	8.769231
## 386	1991-12-05	0.9051667	23.88064	5.7204482	348.564103	893.333333
## 387	1991-12-06	0.9050000	23.88067	5.7522269	590.000000	956.733333
## 388	1991-12-07	0.9048333	23.88069	5.7840056	101.555556	159.111111
## 389	1991-12-08	0.9046667	23.88071	5.8157843	37.846154	20.717949
## 390	1991-12-09	0.9045000	23.88073	5.8475630	59.897436	174.974359
## 391	1991-12-10	0.9043333	23.88076	5.8793417	16.222222	26.444444
## 392	1991-12-11	0.9041667	23.88078	5.9111204	8.358974	16.102564
## 393	1991-12-12	0.9040000	23.88080	5.9428992	12.205128	16.102564
## 394	1991-12-13	0.9038333	23.88082	5.9746779	18.000000	17.076923
## 395	1991-12-14	0.9036667	23.88084	6.0064566	18.451613	111.015873
## 396	1991-12-15	0.9035000	23.88087	6.0382353	154.720000	273.660714
## 397	1991-12-16	0.9033333	23.88089	6.1266667	121.888889	436.305556
## 398	1991-12-17	0.9031667	23.88091	6.0608734	35.179487	240.820513
## 399	1991-12-18	0.9030000	23.88093	5.9950802	60.717949	103.538462
## 400	1991-12-19	0.9028333	23.88096	5.9292870	20.974359	27.076923
## 401	1991-12-20	0.9026667	23.88098	5.8634938	57.384615	99.435897
## 402	1991-12-21	0.9025000	23.88100	5.7977005	27.375000	187.875000
## 403	1991-12-22	0.9023333	23.88102	5.7319073	41.333333	46.205128
## 404	1991-12-23	0.9021667	23.88104	5.6661141	74.000000	278.051282
## 405	1991-12-24	0.9020000	23.88107	5.6003209	110.615385	328.102564
## 406	1991-12-25	0.9018333	23.88109	5.5345276	28.820513	39.846154
## 407	1991-12-26	0.9016667	23.88111	5.4687344	69.111111	111.873016
## 408	1991-12-27	0.9015000	23.88113	5.4029412	81.080000	160.440000
## 409	1991-12-28	0.9013333	23.88116	5.7200000	18.194444	32.972222
## 410	1991-12-29	0.9011667	23.88118	5.6653922	12.461538	6.410256
## 411	1991-12-30	0.9010000	23.88120	5.6107843	11.384615	47.435897
## 412	1991-12-31	0.9008333	23.88122	5.5561765	25.333333	97.487179
## 413	1992-01-01	0.9006667	23.88124	5.5015686	2.222222	3.777778
## 414	1992-01-02	0.9005000	23.88127	5.4469608	3.025641	4.256410
## 415	1992-01-03	0.9003333	23.88129	5.3923529	63.333333	130.410256
## 416	1992-01-04	0.9001667	23.88131	5.3377451	152.256410	917.025641
## 417	1992-01-05	0.9000000	23.88133	5.2831373	14.769231	40.871795
## 418	1992-01-06	0.8998333	23.88136	5.2285294	5.166667	4.291667
## 419	1992-01-07	0.8996667	23.88138	5.1739216	39.641026	56.564103
## 420	1992-01-08	0.8995000	23.88140	5.1193137	46.296296	108.481481
## 421	1992-01-09	0.8993333	23.88142	5.0647059	67.320000	238.440000
## 422	1992-01-10	0.8991667	23.88144	5.6933333	73.361111	348.416667

## 423	1992-01-11	0.8990000	23.88147	5.6214480	5.076923	6.769231
## 424	1992-01-12	0.8988333	23.88149	5.5495626	2.222222	2.000000
## 425	1992-01-13	0.8986667	23.88151	5.4776772	21.846154	74.615385
## 426	1992-01-14	0.8985000	23.88153	5.4057919	5.794872	14.871795
## 427	1992-01-15	0.8983333	23.88156	5.3339065	50.256410	288.717949
## 428	1992-01-16	0.8981667	23.88158	5.2620211	7.641026	17.794872
## 429	1992-01-17	0.8980000	23.88160	5.1901357	2.923077	5.384615
## 430	1992-01-18	0.8978333	23.88162	5.1182504	2.222222	10.000000
## 431	1992-01-19	0.8976667	23.88164	5.0463650	8.358974	45.384615
## 432	1992-01-20	0.8975000	23.88167	4.9744796	6.205128	12.871795
## 433	1992-01-21	0.8973333	23.88169	4.9025943	24.769231	6.564103
## 434	1992-01-22	0.8971667	23.88171	4.8307089	51.384615	256.307051
## 435	1992-01-23	0.8970000	23.88173	4.7588235	78.000000	506.050000
## 436	1992-01-24	0.8968333	23.88176	4.7669853	103.965517	546.655172
## 437	1992-01-25	0.8966667	23.88178	4.7751471	70.769231	541.435897
## 438	1992-01-26	0.8965000	23.88180	4.7833088	891.333333	300.435897
## 439	1992-01-27	0.8963333	23.88182	4.7914706	22.410256	59.435897
## 440	1992-01-28	0.8961667	23.88184	4.7996324	96.512821	121.487179
## 441	1992-01-29	0.8960000	23.88187	4.8077941	8.717949	59.948718
## 442	1992-01-30	0.8958333	23.88189	4.8159559	7.111111	61.777778
## 443	1992-01-31	0.8956667	23.88191	4.8241176	2.000000	2.000000
## 444	1992-02-01	0.8955000	23.88193	4.8322794	27.897436	148.717949
## 445	1992-02-02	0.8953333	23.88196	4.8404412	604.666667	8.000000
## 446	1992-02-03	0.8951667	23.88198	4.8486029	45.846154	221.487179
## 447	1992-02-04	0.8950000	23.88200	4.8567647	3.555556	101.777778
## 448	1992-02-05	0.8948333	23.88202	4.8649265	50.564103	192.974359
## 449	1992-02-06	0.8946667	23.88204	4.8730882	28.564103	147.282051
## 450	1992-02-07	0.8945000	23.88207	4.8812500	141.948718	476.307692
## 451	1992-02-08	0.8943333	23.88209	4.8894118	12.444444	4.666667
## 452	1992-02-09	0.8941667	23.88211	4.8975735	11.076923	84.205128
## 453	1992-02-10	0.8940000	23.88213	4.9057353	106.153846	769.435897
## 454	1992-02-11	0.8938333	23.88216	4.9138971	12.465116	118.511628
## 455	1992-02-12	0.8936667	23.88218	4.9220588	72.150000	725.850000
## 456	1992-02-13	0.8935000	23.88220	5.0800000	45.137931	502.482759
## 457	1992-02-14	0.8933333	23.88222	5.1016544	2.000000	2.000000
## 458	1992-02-15	0.8931667	23.88224	5.1233088	37.125000	257.583333
## 459	1992-02-16	0.8930000	23.88227	5.1449632	2.000000	4.000000
## 460	1992-02-17	0.8928333	23.88229	5.1666176	2.102564	2.717949
## 461	1992-02-18	0.8926667	23.88231	5.1882721	83.791667	625.208333
## 462	1992-02-19	0.8925000	23.88233	5.2099265	22.000000	20.000000
## 463	1992-02-20	0.8923333	23.88236	5.2315809	30.000000	398.923077
## 464	1992-02-21	0.8921667	23.88238	5.2532353	2.102564	2.666667
## 465	1992-02-22	0.8920000	23.88240	5.2748897	3.777778	27.333333
## 466	1992-02-23	0.8918333	23.88242	5.2965441	27.076923	64.051282
## 467	1992-02-24	0.8916667	23.88244	5.3181985	3.435897	9.641026
## 468	1992-02-25	0.8915000	23.88247	5.3398529	8.888889	17.111111
## 469	1992-02-26	0.8913333	23.88249	5.3615074	4.450000	3.450000
## 470	1992-02-27	0.8911667	23.88251	5.3831618	2.512821	2.871795
## 471	1992-02-28	0.8910000	23.88253	5.4048162	42.634921	96.920635
## 472	1992-02-29	0.8908333	23.88256	5.4264706	7.098039	96.392157
## 473	1992-03-01	0.8906667	23.88258	5.4333333	8.166667	3.222222
## 474	1992-03-02	0.8905000	23.88260	5.4197415	3.589744	8.871795
## 475	1992-03-03	0.8903333	23.88262	5.4061497	23.333333	180.222222
## 476	1992-03-04	0.8901667	23.88264	5.3925579	19.300000	180.100000

## 477	1992-03-05	0.8900000	23.88267	5.3789661	42.923077	271.230769
## 478	1992-03-06	0.8898333	23.88269	5.3653743	4.153846	5.589744
## 479	1992-03-07	0.8896667	23.88271	5.3517825	2.222222	12.888889
## 480	1992-03-08	0.8895000	23.88273	5.3381907	3.750000	8.250000
## 481	1992-03-09	0.8893333	23.88276	5.3245989	8.461538	30.974359
## 482	1992-03-10	0.8891667	23.88278	5.3110071	14.051282	17.025641
## 483	1992-03-11	0.8890000	23.88280	5.2974153	29.396825	222.857143
## 484	1992-03-12	0.8888333	23.88282	5.2838235	8.392157	123.568627
## 485	1992-03-13	0.8886667	23.88284	5.9233333	28.916667	182.231884
## 486	1992-03-14	0.8885000	23.88287	5.9471919	9.897436	33.435897
## 487	1992-03-15	0.8883333	23.88289	5.9710504	4.666667	12.666667
## 488	1992-03-16	0.8881667	23.88291	5.9949090	26.358974	72.923077
## 489	1992-03-17	0.8880000	23.88293	6.0187675	0.000000	44.820513
## 490	1992-03-18	0.8878333	23.88296	6.0426261	26.666667	616.888889
## 491	1992-03-19	0.8876667	23.88298	6.0664846	49.000000	237.050000
## 492	1992-03-20	0.8875000	23.88300	6.0903431	110.051282	915.333333
## 493	1992-03-21	0.8873333	23.88302	6.1142017	80.708333	732.458333
## 494	1992-03-22	0.8871667	23.88304	6.1380602	34.153846	394.769231
## 495	1992-03-23	0.8870000	23.88307	6.1619188	4.871795	69.743590
## 496	1992-03-24	0.8868333	23.88309	6.1857773	3.282051	13.897436
## 497	1992-03-25	0.8866667	23.88311	6.2096359	16.000000	6.222222
## 498	1992-03-26	0.8865000	23.88313	6.2334944	6.592593	23.333333
## 499	1992-03-27	0.8863333	23.88316	6.2573529	139.160000	931.320000
## 500	1992-03-28	0.8861667	23.88318	6.3666667	2.138889	2.222222
## 501	1992-03-29	0.8860000	23.88320	6.3727839	20.083333	5.541667
## 502	1992-03-30	0.8858333	23.88322	6.3789011	6.000000	12.000000
## 503	1992-03-31	0.8856667	23.88324	6.3850183	13.076923	58.820513
## 504	1992-04-01	0.8855000	23.88327	6.3911355	3.487179	12.307692
## 505	1992-04-02	0.8853333	23.88329	6.3972527	90.000000	108.666667
## 506	1992-04-03	0.8851667	23.88331	6.4033700	2.100000	4.800000
## 507	1992-04-04	0.8850000	23.88333	6.4094872	7.538462	53.948718
## 508	1992-04-05	0.8848333	23.88336	6.4156044	4.410256	12.615385
## 509	1992-04-06	0.8846667	23.88338	6.4217216	6.444444	23.111111
## 510	1992-04-07	0.8845000	23.88340	6.4278388	9.550000	31.450000
## 511	1992-04-08	0.8843333	23.88342	6.4339560	2.000000	2.871795
## 512	1992-04-09	0.8841667	23.88344	6.4400733	5.541667	37.291667
## 513	1992-04-10	0.8840000	23.88347	6.4461905	8.727273	154.109091
## 514	1992-04-11	0.8838333	23.88349	6.4523077	24.840000	521.920000
## 515	1992-04-12	0.8836667	23.88351	5.4300000	2.285714	2.363636
## 516	1992-04-13	0.8835000	23.88353	0.0000000	11.642857	14.181818
## 517	1992-04-14	0.8833333	23.88356	0.3625000	21.000000	26.000000
## 518	1992-04-15	0.8831667	23.88358	0.7250000	2.051282	2.000000
## 519	1992-04-16	0.8830000	23.88360	1.0875000	146.000000	177.555556
## 520	1992-04-17	0.8828333	23.88362	1.4500000	7.047619	23.428571
## 521	1992-04-18	0.8826667	23.88364	1.8125000	28.000000	56.000000
## 522	1992-04-19	0.8825000	23.88367	2.1750000	24.769231	180.615385
## 523	1992-04-20	0.8823333	23.88369	2.5375000	8.666667	77.538462
## 524	1992-04-21	0.8821667	23.88371	2.9000000	7.833333	74.333333
## 525	1992-04-22	0.8820000	23.88373	3.2625000	16.000000	8.000000
## 526	1992-04-23	0.8818333	23.88376	3.6250000	19.230769	58.820513
## 527	1992-04-24	0.8816667	23.88378	3.9875000	18.564103	67.897436
## 528	1992-04-25	0.8815000	23.88380	4.3500000	16.583333	63.875000
## 529	1992-04-26	0.8813333	23.88382	4.7125000	10.000000	54.000000
## 530	1992-04-27	0.8811667	23.88384	5.0750000	7.384615	53.230769

## 531	1992-04-28	0.8810000	23.88387	5.4375000	5.074074	12.777778
## 532	1992-04-29	0.8808333	23.88389	5.8000000	10.000000	106.392157
## 533	1992-04-30	0.8806667	23.88391	5.2433333	5.722222	35.805556
## 534	1992-05-01	0.8805000	23.88393	5.5550000	7.555556	2.888889
## 535	1992-05-02	0.8803333	23.88396	5.8666667	46.871795	273.743590
## 536	1992-05-03	0.8801667	23.88398	6.1783333	16.256410	62.410256
## 537	1992-05-04	0.8800000	23.88400	6.4900000	28.512821	202.564103
## 538	1992-05-05	0.8798830	23.88402	6.4663284	36.153846	134.410256
## 539	1992-05-06	0.8797661	23.88405	6.4426568	6.000000	12.888889
## 540	1992-05-07	0.8796491	23.88407	6.4189853	6.358974	6.358974
## 541	1992-05-08	0.8795322	23.88409	6.3953137	21.435897	14.820513
## 542	1992-05-09	0.8794152	23.88412	6.3716421	2.000000	2.615385
## 543	1992-05-10	0.8792982	23.88414	6.3479705	2.102564	2.102564
## 544	1992-05-11	0.8791813	23.88416	6.3242990	6.153846	21.076923
## 545	1992-05-12	0.8790643	23.88419	6.3006274	108.000000	7.555556
## 546	1992-05-13	0.8789474	23.88421	6.2769558	3.384615	2.307692
## 547	1992-05-14	0.8788304	23.88423	6.2532842	11.631083	27.153846
## 548	1992-05-15	0.8787135	23.88426	7.4965367	19.877551	52.000000
## 549	1992-05-16	0.8785965	23.88428	6.6097509	9.784615	12.800000
## 550	1992-05-17	0.8784795	23.88430	6.8048389	4.769231	3.076923
## 551	1992-05-18	0.8783626	23.88433	6.9999269	4.051282	3.179487
## 552	1992-05-19	0.8782456	23.88435	7.1239043	3.333333	3.282051
## 553	1992-05-20	0.8781287	23.88437	7.2261491	2.615385	3.384615
## 554	1992-05-21	0.8780117	23.88440	7.3283940	2.068966	3.218391
## 555	1992-05-22	0.8778947	23.88442	7.4306388	3.230769	3.230769
## 556	1992-05-23	0.8777778	23.88444	7.5328836	5.897436	2.461538
## 557	1992-05-24	0.8776608	23.88447	7.6351284	2.512821	3.128205
## 558	1992-05-25	0.8775439	23.88449	7.7373732	3.692308	5.333333
## 559	1992-05-26	0.8774269	23.88451	7.8396180	2.444444	3.555556
## 560	1992-05-27	0.8773099	23.88454	7.9418629	2.512821	2.871795
## 561	1992-05-28	0.8771930	23.88456	8.0441077	2.000000	2.871795
## 562	1992-05-29	0.8770760	23.88458	8.1463525	5.272727	4.545455
## 563	1992-05-30	0.8769591	23.88461	7.7147970	4.032915	8.858934
## 564	1992-05-31	0.8768421	23.88463	7.9296952	2.793103	13.172414
## 565	1992-06-01	0.8767251	23.88465	7.6750258	2.000000	7.282051
## 566	1992-06-02	0.8766082	23.88468	7.4203564	7.777778	9.333333
## 567	1992-06-03	0.8764912	23.88470	7.4175935	2.000000	3.230769
## 568	1992-06-04	0.8763743	23.88473	7.4148306	2.000000	2.641026
## 569	1992-06-05	0.8762573	23.88475	7.4831195	2.000000	2.051282
## 570	1992-06-06	0.8761404	23.88477	7.5514083	2.051282	9.692308
## 571	1992-06-07	0.8760234	23.88480	7.6196971	3.538462	2.461538
## 572	1992-06-08	0.8759064	23.88482	7.6879860	16.717949	6.410256
## 573	1992-06-09	0.8757895	23.88484	7.7562748	2.000000	2.000000
## 574	1992-06-10	0.8756725	23.88487	7.8245637	7.375000	3.708333
## 575	1992-06-11	0.8755556	23.88489	7.8928525	6.767241	6.702107
## 576	1992-06-12	0.8754386	23.88491	7.8851421	6.159483	9.695881
## 577	1992-06-13	0.8753216	23.88494	7.9787590	5.551724	12.689655
## 578	1992-06-14	0.8752047	23.88496	7.6818610	4.051282	3.538462
## 579	1992-06-15	0.8750877	23.88498	7.3849631	7.076923	3.589744
## 580	1992-06-16	0.8749708	23.88501	7.0880651	5.256410	2.794872
## 581	1992-06-17	0.8748538	23.88503	5.9766136	3.435897	2.000000
## 582	1992-06-18	0.8747368	23.88505	4.8651622	10.606838	10.333333
## 583	1992-06-19	0.8746199	23.88508	6.9143915	17.777778	18.666667
## 584	1992-06-20	0.8745029	23.88510	7.1184833	16.000000	22.000000

## 585	1992-06-21	0.8743860	23.88512	7.3225752	2.051282	4.512821
## 586	1992-06-22	0.8742690	23.88515	7.5266670	2.256410	2.410256
## 587	1992-06-23	0.8741520	23.88517	7.7307589	2.102564	3.333333
## 588	1992-06-24	0.8740351	23.88519	7.9348507	2.102564	2.051282
## 589	1992-06-25	0.8739181	23.88522	8.1389426	2.000000	2.205128
## 590	1992-06-26	0.8738012	23.88524	8.3430344	2.102564	2.307692
## 591	1992-06-27	0.8736842	23.88526	8.5471263	3.333333	16.666667
## 592	1992-06-28	0.8735673	23.88529	8.7512181	3.550000	14.650000
## 593	1992-06-29	0.8734503	23.88531	8.9553100	103.090909	3.045455
## 594	1992-06-30	0.8733333	23.88533	8.2420666	65.045455	5.591693
## 595	1992-07-01	0.8732164	23.88536	8.0308553	27.000000	8.137931
## 596	1992-07-02	0.8730994	23.88538	7.8346420	7.333333	9.641026
## 597	1992-07-03	0.8729825	23.88540	7.6384287	3.846154	2.102564
## 598	1992-07-04	0.8728655	23.88543	7.4422154	170.888889	1066.222222
## 599	1992-07-05	0.8727485	23.88545	7.2460021	2.093023	2.093023
## 600	1992-07-06	0.8726316	23.88547	7.0497888	8.379845	4.841383
## 601	1992-07-07	0.8725146	23.88550	6.8615583	14.666667	7.589744
## 602	1992-07-08	0.8723977	23.88552	6.6733278	9.358974	6.153846
## 603	1992-07-09	0.8722807	23.88554	6.8996152	4.051282	4.717949
## 604	1992-07-10	0.8721637	23.88557	7.1259026	7.230769	4.000000
## 605	1992-07-11	0.8720468	23.88559	7.3521899	3.500000	6.458333
## 606	1992-07-12	0.8719298	23.88561	7.5784773	2.863636	2.363636
## 607	1992-07-13	0.8718129	23.88564	6.9972805	7.880094	3.612853
## 608	1992-07-14	0.8716959	23.88566	8.3055789	12.896552	4.862069
## 609	1992-07-15	0.8715789	23.88568	7.8916610	3.230769	4.000000
## 610	1992-07-16	0.8714620	23.88571	7.4777430	2.820513	3.692308
## 611	1992-07-17	0.8713450	23.88573	7.0638250	2.410256	8.358974
## 612	1992-07-18	0.8712281	23.88575	6.6499070	3.333333	3.384615
## 613	1992-07-19	0.8711111	23.88578	6.2359890	2.666667	3.111111
## 614	1992-07-20	0.8709942	23.88580	6.0396410	2.000000	2.410256
## 615	1992-07-21	0.8708772	23.88582	5.8432930	2.230769	2.589744
## 616	1992-07-22	0.8707602	23.88585	6.0974162	2.461538	2.769231
## 617	1992-07-23	0.8706433	23.88587	6.3515394	2.000000	2.410256
## 618	1992-07-24	0.8705263	23.88589	6.6056626	2.102564	3.025641
## 619	1992-07-25	0.8704094	23.88592	6.8597859	2.000000	3.282051
## 620	1992-07-26	0.8702924	23.88594	7.1139091	6.045455	4.227273
## 621	1992-07-27	0.8701754	23.88596	6.5139756	4.022727	3.217085
## 622	1992-07-28	0.8700585	23.88599	7.7331207	2.000000	2.206897
## 623	1992-07-29	0.8699415	23.88601	7.6034085	4.461538	2.102564
## 624	1992-07-30	0.8698246	23.88604	7.4736964	2.000000	2.051282
## 625	1992-07-31	0.8697076	23.88606	7.3439843	17.777778	118.444444
## 626	1992-08-01	0.8695906	23.88608	7.2142721	10.000000	86.000000
## 627	1992-08-02	0.8694737	23.88611	7.0845600	5.692308	2.307692
## 628	1992-08-03	0.8693567	23.88613	6.9548478	3.846154	2.153846
## 629	1992-08-04	0.8692398	23.88615	6.8915440	2.000000	2.000000
## 630	1992-08-05	0.8691228	23.88618	6.8282401	6.333333	2.222222
## 631	1992-08-06	0.8690058	23.88620	6.9021026	10.666667	2.444444
## 632	1992-08-07	0.8688889	23.88622	6.9759651	10.256410	5.384615
## 633	1992-08-08	0.8687719	23.88625	7.0498276	18.974359	3.025641
## 634	1992-08-09	0.8686550	23.88627	7.1236901	2.000000	2.051282
## 635	1992-08-10	0.8685380	23.88629	7.1975526	2.222222	5.555556
## 636	1992-08-11	0.8684211	23.88632	7.2714151	4.102564	3.333333
## 637	1992-08-12	0.8683041	23.88634	7.3452775	8.358974	2.256410
## 638	1992-08-13	0.8681871	23.88636	7.4191400	2.222222	2.000000

## 639	1992-08-14	0.8680702	23.88639	7.4930025	2.153846	5.435897
## 640	1992-08-15	0.8679532	23.88641	7.5668650	5.794872	3.538462
## 641	1992-08-16	0.8678363	23.88643	7.6407275	123.875000	7.416667
## 642	1992-08-17	0.8677193	23.88646	7.7145900	24.136364	7.136364
## 643	1992-08-18	0.8676023	23.88648	7.5864465	20.688871	5.016458
## 644	1992-08-19	0.8674854	23.88650	8.7135324	17.241379	2.896552
## 645	1992-08-20	0.8673684	23.88653	7.9235537	4.410256	2.461538
## 646	1992-08-21	0.8672515	23.88655	7.1335750	18.444444	7.777778
## 647	1992-08-22	0.8671345	23.88657	7.0367289	2.102564	2.461538
## 648	1992-08-23	0.8670175	23.88660	6.9398829	2.666667	4.102564
## 649	1992-08-24	0.8669006	23.88662	7.1831561	3.230769	5.743590
## 650	1992-08-25	0.8667836	23.88664	7.4264293	3.041667	6.708333
## 651	1992-08-26	0.8666667	23.88667	7.6697024	4.461538	2.000000
## 652	1992-08-27	0.8665497	23.88669	7.9129756	3.344406	3.886364
## 653	1992-08-28	0.8664327	23.88671	6.6736892	2.227273	5.772727
## 654	1992-08-29	0.8663158	23.88674	6.8077935	2.000000	4.000000
## 655	1992-08-30	0.8661988	23.88676	7.7734655	46.413793	438.379310
## 656	1992-08-31	0.8660819	23.88678	7.7350211	2.000000	2.102564
## 657	1992-09-01	0.8659649	23.88681	7.6965768	7.777778	10.444444
## 658	1992-09-02	0.8658480	23.88683	7.6581324	4.000000	6.000000
## 659	1992-09-03	0.8657310	23.88685	7.6196880	12.205128	2.000000
## 660	1992-09-04	0.8656140	23.88688	7.5812436	3.230769	2.000000
## 661	1992-09-05	0.8654971	23.88690	7.5427993	3.333333	3.111111
## 662	1992-09-06	0.8653801	23.88692	7.5043549	3.230769	3.333333
## 663	1992-09-07	0.8652632	23.88695	7.4659105	2.000000	2.666667
## 664	1992-09-08	0.8651462	23.88697	7.4274661	2.564103	3.333333
## 665	1992-09-09	0.8650292	23.88699	7.3890217	8.079772	5.111111
## 666	1992-09-10	0.8649123	23.88702	7.1496872	13.595442	6.888889
## 667	1992-09-11	0.8647953	23.88704	7.5241233	19.111111	8.666667
## 668	1992-09-12	0.8646784	23.88706	7.8985595	12.000000	5.230769
## 669	1992-09-13	0.8645614	23.88709	8.2729957	115.333333	233.333333
## 670	1992-09-14	0.8644444	23.88711	8.6474318	2.266667	3.244444
## 671	1992-09-15	0.8643275	23.88713	8.4449146	4.667816	2.742912
## 672	1992-09-16	0.8642105	23.88716	8.3231034	7.068966	2.241379
## 673	1992-09-17	0.8640936	23.88718	8.3353146	3.538462	4.717949
## 674	1992-09-18	0.8639766	23.88720	8.3475257	4.444444	7.777778
## 675	1992-09-19	0.8638596	23.88723	8.3597368	4.461538	2.000000
## 676	1992-09-20	0.8637427	23.88725	8.3719480	5.111111	2.000000
## 677	1992-09-21	0.8636257	23.88727	8.3841591	4.272727	6.363636
## 678	1992-09-22	0.8635088	23.88730	8.2770690	2.066667	5.400000
## 679	1992-09-23	0.8633918	23.88732	8.3028780	5.654955	4.051351
## 680	1992-09-24	0.8632749	23.88735	8.9337143	9.243243	2.702703
## 681	1992-09-25	0.8631579	23.88737	8.7626736	2.000000	2.000000
## 682	1992-09-26	0.8630409	23.88739	8.5916328	3.384615	2.000000
## 683	1992-09-27	0.8629240	23.88742	8.4205921	18.888889	11.111111
## 684	1992-09-28	0.8628070	23.88744	8.2495514	11.222222	7.444444
## 685	1992-09-29	0.8626901	23.88746	8.0785107	3.555556	3.777778
## 686	1992-09-30	0.8625731	23.88749	7.9074699	9.726496	2.914530
## 687	1992-10-01	0.8624561	23.88751	7.8810145	15.897436	2.051282
## 688	1992-10-02	0.8623392	23.88753	7.8545590	11.118529	5.742622
## 689	1992-10-03	0.8622222	23.88756	8.4362727	6.339623	9.433962
## 690	1992-10-04	0.8621053	23.88758	8.2676071	3.714286	3.714286
## 691	1992-10-05	0.8619883	23.88760	8.5352222	4.457143	3.990476
## 692	1992-10-06	0.8618713	23.88763	8.6629667	5.200000	4.266667

## 693	1992-10-07	0.8617544	23.88765	8.3262306	12.461538	4.102564
## 694	1992-10-08	0.8616374	23.88767	7.9894945	2.444444	2.666667
## 695	1992-10-09	0.8615205	23.88770	7.6527584	2.222222	2.461538
## 696	1992-10-10	0.8614035	23.88772	7.8057921	2.000000	2.256410
## 697	1992-10-11	0.8612865	23.88774	7.9588258	23.333333	2.222222
## 698	1992-10-12	0.8611696	23.88777	8.1118596	13.333333	2.393162
## 699	1992-10-13	0.8610526	23.88779	8.0879876	3.333333	2.564103
## 700	1992-10-14	0.8609357	23.88781	8.0641157	3.333333	2.222222
## 701	1992-10-15	0.8608187	23.88784	8.0402438	3.282051	4.512821
## 702	1992-10-16	0.8607018	23.88786	8.0163719	6.000000	8.000000
## 703	1992-10-17	0.8605848	23.88788	7.9925000	7.681818	16.545455
## 704	1992-10-18	0.8604678	23.88791	7.7699444	3.888889	59.222222
## 705	1992-10-19	0.8603509	23.88793	7.8848171	3.276353	40.216524
## 706	1992-10-20	0.8602339	23.88795	7.9091935	2.663818	21.210826
## 707	1992-10-21	0.8601170	23.88798	7.5769019	2.051282	2.205128
## 708	1992-10-22	0.8600000	23.88800	7.2446102	3.515670	50.507123
## 709	1992-10-23	0.8602098	23.88803	7.6376099	4.980057	98.809117
## 710	1992-10-24	0.8604196	23.88806	7.6771246	6.444444	147.111111
## 711	1992-10-25	0.8606294	23.88808	7.7166392	3.024390	6.439024
## 712	1992-10-26	0.8608392	23.88811	7.7561539	3.794872	2.205128
## 713	1992-10-27	0.8610490	23.88814	7.7956686	2.974359	10.923077
## 714	1992-10-28	0.8612587	23.88817	7.8351833	15.333333	67.777778
## 715	1992-10-29	0.8614685	23.88820	7.8746979	9.666667	34.888889
## 716	1992-10-30	0.8616783	23.88822	7.9142126	4.000000	2.000000
## 717	1992-10-31	0.8618881	23.88825	7.9537273	6.636364	3.272727
## 718	1992-11-01	0.8620979	23.88828	7.1947561	5.518182	4.003030
## 719	1992-11-02	0.8623077	23.88831	7.7671333	4.400000	4.733333
## 720	1992-11-03	0.8625175	23.88834	7.9194615	3.714286	2.214286
## 721	1992-11-04	0.8627273	23.88836	6.7083880	3.549451	2.132784
## 722	1992-11-05	0.8629371	23.88839	6.5872258	3.384615	2.051282
## 723	1992-11-06	0.8631469	23.88842	6.4660636	2.000000	2.256410
## 724	1992-11-07	0.8633566	23.88845	6.3449014	2.025641	2.384615
## 725	1992-11-08	0.8635664	23.88848	6.5445146	2.051282	2.512821
## 726	1992-11-09	0.8637762	23.88850	6.7441278	19.777778	7.333333
## 727	1992-11-10	0.8639860	23.88853	6.9437410	14.452991	7.743590
## 728	1992-11-11	0.8641958	23.88856	7.1433542	9.128205	8.153846
## 729	1992-11-12	0.8644056	23.88859	7.3429674	39.609557	50.849650
## 730	1992-11-13	0.8646154	23.88862	7.5181136	70.090909	93.545455
## 731	1992-11-14	0.8648252	23.88864	5.8326104	40.183386	48.945141
## 732	1992-11-15	0.8650350	23.88867	6.3540862	10.275862	4.344828
## 733	1992-11-16	0.8652448	23.88870	5.7453821	8.371942	4.298261
## 734	1992-11-17	0.8654545	23.88873	5.9861944	6.468022	4.251695
## 735	1992-11-18	0.8656643	23.88876	6.2270067	4.564103	4.205128
## 736	1992-11-19	0.8658741	23.88878	6.4678190	8.871795	3.025641
## 737	1992-11-20	0.8660839	23.88881	6.7086313	6.461538	6.102564
## 738	1992-11-21	0.8662937	23.88884	6.9494436	37.555556	19.333333
## 739	1992-11-22	0.8665035	23.88887	7.1902559	42.000000	18.666667
## 740	1992-11-23	0.8667133	23.88890	7.4310682	3.863636	4.136364
## 741	1992-11-24	0.8669231	23.88892	7.5278281	10.086991	3.430251
## 742	1992-11-25	0.8671329	23.88895	8.2166533	16.310345	2.724138
## 743	1992-11-26	0.8673427	23.88898	7.7391229	9.538462	2.102564
## 744	1992-11-27	0.8675524	23.88901	7.2615924	81.766382	64.364672
## 745	1992-11-28	0.8677622	23.88903	7.1009775	153.994302	126.626781
## 746	1992-11-29	0.8679720	23.88906	7.3202780	226.222222	188.888889

## 747	1992-11-30	0.8681818	23.88909	7.5395785	38.000000	30.000000
## 748	1992-12-01	0.8683916	23.88912	7.7588790	10.800000	2.600000
## 749	1992-12-02	0.8686014	23.88915	7.9781794	48.000000	18.000000
## 750	1992-12-03	0.8688112	23.88917	8.1974799	9.846154	5.897436
## 751	1992-12-04	0.8690210	23.88920	8.4167804	4.461538	2.102564
## 752	1992-12-05	0.8692308	23.88923	8.6360809	7.555556	17.111111
## 753	1992-12-06	0.8694406	23.88926	8.8553813	12000.000000	12000.000000
## 754	1992-12-07	0.8696503	23.88929	9.0746818	42.954545	38.818182
## 755	1992-12-08	0.8698601	23.88931	8.5992317	27.063480	23.840125
## 756	1992-12-09	0.8700699	23.88934	8.8388448	11.172414	8.862069
## 757	1992-12-10	0.8702797	23.88937	7.7121010	9.333333	9.333333
## 758	1992-12-11	0.8704895	23.88940	6.5853571	9.358974	8.538462
## 759	1992-12-12	0.8706993	23.88943	6.3172494	9.384615	7.743590
## 760	1992-12-13	0.8709091	23.88945	6.0491417	22.666667	15.555556
## 761	1992-12-14	0.8711189	23.88948	5.7810339	94.000000	52.000000
## 762	1992-12-15	0.8713287	23.88951	5.5129262	71.435897	39.897436
## 763	1992-12-16	0.8715385	23.88954	6.3039715	48.871795	27.794872
## 764	1992-12-17	0.8717483	23.88957	5.9234444	26.307692	15.692308
## 765	1992-12-18	0.8719580	23.88959	5.6949821	3.743590	3.589744
## 766	1992-12-19	0.8721678	23.88962	5.6049423	5.743590	7.589744
## 767	1992-12-20	0.8723776	23.88965	5.5149025	16.888889	5.333333
## 768	1992-12-21	0.8725874	23.88968	5.4248627	2.083333	126.916667
## 769	1992-12-22	0.8727972	23.88971	5.3348229	18.531746	109.087302
## 770	1992-12-23	0.8730070	23.88973	5.2447831	34.980159	91.257937
## 771	1992-12-24	0.8732168	23.88976	5.5375800	51.428571	73.428571
## 772	1992-12-25	0.8734266	23.88979	5.1796905	86.727273	522.545455
## 773	1992-12-26	0.8736364	23.88982	5.7654972	49.113636	263.314394
## 774	1992-12-27	0.8738462	23.88985	6.4830588	11.500000	4.083333
## 775	1992-12-28	0.8740559	23.88987	6.2892311	17.083333	8.833333
## 776	1992-12-29	0.8742657	23.88990	6.0954033	6.888889	36.222222
## 777	1992-12-30	0.8744755	23.88993	5.9015755	49.333333	18.666667
## 778	1992-12-31	0.8746853	23.88996	5.7077478	9.916667	23.583333
## 779	1993-01-01	0.8748951	23.88999	5.5139200	7.000000	36.142857
## 780	1993-01-02	0.8751049	23.89001	8.5644545	2.666667	2.909091
## 781	1993-01-03	0.8753147	23.89004	6.7272683	2.000000	2.200000
## 782	1993-01-04	0.8755245	23.89007	4.7412337	10.767677	6.193939
## 783	1993-01-05	0.8757343	23.89010	4.4753006	19.535354	10.187879
## 784	1993-01-06	0.8759441	23.89013	4.8090555	28.303030	14.181818
## 785	1993-01-07	0.8761538	23.89015	5.1428104	12.000000	14.000000
## 786	1993-01-08	0.8763636	23.89018	5.4765654	2.083333	2.083333
## 787	1993-01-09	0.8765734	23.89021	5.8103203	7.212121	4.181818
## 788	1993-01-10	0.8767832	23.89024	6.1440752	4.606061	6.424242
## 789	1993-01-11	0.8769930	23.89027	6.4778301	86.000000	250.000000
## 790	1993-01-12	0.8772028	23.89029	6.8115851	2.606061	5.757576
## 791	1993-01-13	0.8774126	23.89032	7.1453400	10.000000	28.714286
## 792	1993-01-14	0.8776224	23.89035	7.4751707	2.200000	4.400000
## 793	1993-01-15	0.8778322	23.89038	7.9042059	10.500000	10.333333
## 794	1993-01-16	0.8780420	23.89041	6.6786328	5.636364	8.969697
## 795	1993-01-17	0.8782517	23.89043	5.4530598	6.212121	7.969697
## 796	1993-01-18	0.8784615	23.89046	5.4685327	6.787879	6.969697
## 797	1993-01-19	0.8786713	23.89049	5.4840056	7.424242	8.090909
## 798	1993-01-20	0.8788811	23.89052	5.4976554	8.060606	9.212121
## 799	1993-01-21	0.8790909	23.89055	5.5113052	3.454545	4.484848
## 800	1993-01-22	0.8793007	23.89057	5.5249549	13.996503	446.953963

## 801	1993-01-23	0.8795105	23.89060	5.0785294	24.538462	889.423077
## 802	1993-01-24	0.8797203	23.89063	5.7174076	40.606061	4.727273
## 803	1993-01-25	0.8799301	23.89066	6.3562857	6.000000	15.000000
## 804	1993-01-26	0.8801399	23.89069	5.6736000	2.400000	7.400000
## 805	1993-01-27	0.8803497	23.89071	7.2800417	23.666667	2.333333
## 806	1993-01-28	0.8805594	23.89074	7.1822465	3.757576	28.363636
## 807	1993-01-29	0.8807692	23.89077	7.0844512	2.000000	4.000000
## 808	1993-01-30	0.8809790	23.89080	6.9866560	10.000000	2.181818
## 809	1993-01-31	0.8811888	23.89083	6.8888608	4.000000	12.000000
## 810	1993-02-01	0.8813986	23.89085	6.7910656	2.000000	24.000000
## 811	1993-02-02	0.8816084	23.89088	6.6932704	2.000000	2.000000
## 812	1993-02-03	0.8818182	23.89091	6.5954752	6.181818	3.757576
## 813	1993-02-04	0.8820280	23.89094	6.4976800	60.538462	502.500000
## 814	1993-02-05	0.8822378	23.89097	6.0728627	35.435897	252.333333
## 815	1993-02-06	0.8824476	23.89099	6.9507696	10.333333	2.166667
## 816	1993-02-07	0.8826573	23.89102	7.8286765	25.555556	8.888889
## 817	1993-02-08	0.8828671	23.89105	8.7065833	2.000000	2.000000
## 818	1993-02-09	0.8830769	23.89108	8.4361429	2.133333	3.333333
## 819	1993-02-10	0.8832867	23.89110	8.2450000	2.000000	3.600000
## 820	1993-02-11	0.8834965	23.89113	8.1750238	13.555556	2.222222
## 821	1993-02-12	0.8837063	23.89116	8.1050476	3.000000	3.666667
## 822	1993-02-13	0.8839161	23.89119	8.0350714	68.909091	366.000000
## 823	1993-02-14	0.8841259	23.89122	7.9650952	2.000000	12.000000
## 824	1993-02-15	0.8843357	23.89124	7.8951190	3.575758	6.060606
## 825	1993-02-16	0.8845455	23.89127	7.8251429	25.142857	124.571429
## 826	1993-02-17	0.8847552	23.89130	8.5787917	3.666667	3.833333
## 827	1993-02-18	0.8849650	23.89133	7.4667000	29.200000	231.000000
## 828	1993-02-19	0.8851748	23.89136	6.3657127	8.121212	2.545455
## 829	1993-02-20	0.8853846	23.89138	5.2647255	6.080808	2.272727
## 830	1993-02-21	0.8855944	23.89141	5.5433846	4.040404	2.000000
## 831	1993-02-22	0.8858042	23.89144	5.5791019	2.000000	2.166667
## 832	1993-02-23	0.8860140	23.89147	5.6148193	8.000000	2.000000
## 833	1993-02-24	0.8862238	23.89150	5.6505366	3.636364	2.303030
## 834	1993-02-25	0.8864336	23.89152	5.6862539	2.000000	2.000000
## 835	1993-02-26	0.8866434	23.89155	5.7219713	133.111111	33.777778
## 836	1993-02-27	0.8868531	23.89158	5.7576886	2.000000	3.000000
## 837	1993-02-28	0.8870629	23.89161	5.7934059	92.096154	324.865385
## 838	1993-03-01	0.8872727	23.89164	5.2955577	182.192308	646.730769
## 839	1993-03-02	0.8874825	23.89166	6.0889931	2.121212	2.303030
## 840	1993-03-03	0.8876923	23.89169	6.8824286	9.000000	18.142857
## 841	1993-03-04	0.8879021	23.89172	5.9310000	14.000000	84.800000
## 842	1993-03-05	0.8881119	23.89175	7.3413750	4.060606	4.424242
## 843	1993-03-06	0.8883217	23.89178	7.1245937	589.333333	94.888889
## 844	1993-03-07	0.8885315	23.89180	6.9078125	2.000000	2.083333
## 845	1993-03-08	0.8887413	23.89183	6.6910312	44.000000	26.000000
## 846	1993-03-09	0.8889510	23.89186	6.4742500	2.750000	18.750000
## 847	1993-03-10	0.8891608	23.89189	7.0094103	7.000000	4.900000
## 848	1993-03-11	0.8893706	23.89192	6.5236061	2.000000	2.000000
## 849	1993-03-12	0.8895804	23.89194	6.0378020	11.961538	222.115385
## 850	1993-03-13	0.8897902	23.89197	6.1336863	21.923077	442.230769
## 851	1993-03-14	0.8900000	23.89200	6.3000000	2.000000	2.000000
## 852	1993-03-15	0.8687211	23.89202	6.4004388	4.000000	2.000000
## 853	1993-03-16	0.8474423	23.89204	6.5008776	80.666667	61.333333
## 854	1993-03-17	0.8261634	23.89207	6.6013163	6.000000	2.083333

## 855	1993-03-18	0.8048846	23.89209	6.7017551	10.416667	2.583333
## 856	1993-03-19	0.7836057	23.89211	6.8021939	10.444444	14.000000
## 857	1993-03-20	0.7623269	23.89213	6.9026327	6.500000	6.750000
## 858	1993-03-21	0.7410480	23.89215	7.0030714	5.428571	13.714286
## 859	1993-03-22	0.7197691	23.89218	6.7753333	10.250000	2.166667
## 860	1993-03-23	0.6984903	23.89220	7.3783000	4.600000	27.800000
## 861	1993-03-24	0.6772114	23.89222	6.3182186	9.454545	6.121212
## 862	1993-03-25	0.6559326	23.89224	5.2581373	35.304196	386.829837
## 863	1993-03-26	0.6346537	23.89226	5.6931154	61.153846	767.538462
## 864	1993-03-27	0.6133749	23.89228	5.8748150	2.083333	2.666667
## 865	1993-03-28	0.5920960	23.89231	6.0565147	2.166667	3.000000
## 866	1993-03-29	0.5708171	23.89233	6.2382143	7.652174	29.043478
## 867	1993-03-30	0.5495383	23.89235	7.0215833	18.583333	4.333333
## 868	1993-03-31	0.5282594	23.89237	7.4406000	29.636364	385.818182
## 869	1993-04-01	0.5069806	23.89239	6.7816235	12.250000	4.666667
## 870	1993-04-02	0.4857017	23.89242	6.1226471	144.307692	1073.807692
## 871	1993-04-03	0.4644228	23.89244	6.0051244	20.000000	36.888889
## 872	1993-04-04	0.4431440	23.89246	5.8876018	5.416667	4.583333
## 873	1993-04-05	0.4218651	23.89248	5.7700792	4.611111	4.333333
## 874	1993-04-06	0.4005863	23.89250	6.4255882	3.805556	4.083333
## 875	1993-04-07	0.4062829	23.89253	6.5289940	3.000000	3.833333
## 876	1993-04-08	0.4119795	23.89255	6.6323998	3.833333	6.833333
## 877	1993-04-09	0.4176761	23.89257	6.7358055	65.777778	136.444444
## 878	1993-04-10	0.4233727	23.89259	6.8392113	878.000000	1922.000000
## 879	1993-04-11	0.4290693	23.89261	6.9426170	4.000000	3.250000
## 880	1993-04-12	0.4347659	23.89264	7.0460228	2.000000	4.416667
## 881	1993-04-13	0.4404626	23.89266	7.1494286	6.142857	5.142857
## 882	1993-04-14	0.4461592	23.89268	6.9820000	2.000000	2.000000
## 883	1993-04-15	0.4518558	23.89270	8.4575833	2.000000	2.416667
## 884	1993-04-16	0.4575524	23.89272	7.2417367	12.000000	8.000000
## 885	1993-04-17	0.4632490	23.89274	6.0258900	57.519231	264.038462
## 886	1993-04-18	0.4689456	23.89277	5.7824706	103.038462	520.076923
## 887	1993-04-19	0.4746422	23.89279	5.9162850	2.500000	3.833333
## 888	1993-04-20	0.4803388	23.89281	6.0500994	10.416667	2.000000
## 889	1993-04-21	0.4860354	23.89283	6.1839139	2.888889	11.555556
## 890	1993-04-22	0.4917321	23.89285	6.3177283	2.000000	2.833333
## 891	1993-04-23	0.4974287	23.89288	6.4515427	2.000000	2.500000
## 892	1993-04-24	0.5031253	23.89290	6.5853571	6.000000	3.428571
## 893	1993-04-25	0.5088219	23.89292	7.6523043	2.083333	3.083333
## 894	1993-04-26	0.5145185	23.89294	7.2853333	2.000000	22.600000
## 895	1993-04-27	0.5202151	23.89296	5.5194038	189.076923	593.500000
## 896	1993-04-28	0.5259117	23.89299	5.1077451	102.316239	308.416667
## 897	1993-04-29	0.5316083	23.89301	5.1134338	15.555556	23.333333
## 898	1993-04-30	0.5373050	23.89303	5.1191225	2.916667	4.333333
## 899	1993-05-01	0.5430016	23.89305	5.1248113	11.333333	91.833333
## 900	1993-05-02	0.5486982	23.89307	5.1305000	35.000000	2.000000
## 901	1993-05-03	0.5543948	23.89309	5.1361887	108.000000	10.000000
## 902	1993-05-04	0.5600914	23.89312	5.1418775	4.083333	6.333333
## 903	1993-05-05	0.5657880	23.89314	5.1475662	2.416667	9.750000
## 904	1993-05-06	0.5714846	23.89316	5.1532549	85.615385	1203.423077
## 905	1993-05-07	0.5771812	23.89318	5.0955000	48.029915	611.267094
## 906	1993-05-08	0.5828778	23.89320	6.3639375	10.444444	19.111111
## 907	1993-05-09	0.5885745	23.89323	7.6323750	3.666667	10.916667
## 908	1993-05-10	0.5942711	23.89325	6.0377917	39.500000	12.416667

## 909	1993-05-11	0.5999677	23.89327	5.9931097	6.416667	2.000000
## 910	1993-05-12	0.6056643	23.89329	5.9484278	2.000000	5.000000
## 911	1993-05-13	0.6113609	23.89331	5.9037458	5.777778	3.333333
## 912	1993-05-14	0.6170575	23.89334	5.8590639	10.250000	5.416667
## 913	1993-05-15	0.6227541	23.89336	5.8143819	2.484848	4.727273
## 914	1993-05-16	0.6284507	23.89338	5.7697000	26.200000	45.400000
## 915	1993-05-17	0.6341474	23.89340	6.7875000	6.000000	16.285714
## 916	1993-05-18	0.6398440	23.89342	9.0058750	2.000000	2.250000
## 917	1993-05-19	0.6455406	23.89345	5.1739314	34.229508	93.534836
## 918	1993-05-20	0.6512372	23.89347	5.5310385	66.459016	184.819672
## 919	1993-05-21	0.6569338	23.89349	5.7481736	4.083333	2.000000
## 920	1993-05-22	0.6626304	23.89351	5.9653088	2.888889	2.444444
## 921	1993-05-23	0.6683270	23.89353	6.1824440	2.000000	2.000000
## 922	1993-05-24	0.6740236	23.89355	6.3995791	3.555556	7.111111
## 923	1993-05-25	0.6797202	23.89358	6.6167143	15.428571	2.000000
## 924	1993-05-26	0.6854169	23.89360	7.5704783	4.083333	2.000000
## 925	1993-05-27	0.6911135	23.89362	6.1944000	3.800000	10.000000
## 926	1993-05-28	0.6968101	23.89364	5.9543042	2.888889	5.555556
## 927	1993-05-29	0.7025067	23.89366	5.7142083	2.000000	2.000000
## 928	1993-05-30	0.7082033	23.89369	5.4741125	2.000000	2.000000
## 929	1993-05-31	0.7138999	23.89371	5.2340166	2.222222	2.888889
## 930	1993-06-01	0.7195965	23.89373	4.9939208	45.034188	83.636752
## 931	1993-06-02	0.7252931	23.89375	5.1538269	87.846154	164.384615
## 932	1993-06-03	0.7309897	23.89377	5.3531653	4.000000	2.083333
## 933	1993-06-04	0.7366864	23.89380	5.5525037	4.000000	2.083333
## 934	1993-06-05	0.7423830	23.89382	5.7518420	2.222222	2.444444
## 935	1993-06-06	0.7480796	23.89384	5.9511804	2.083333	3.250000
## 936	1993-06-07	0.7537762	23.89386	6.1505188	7.333333	7.333333
## 937	1993-06-08	0.7594728	23.89388	6.3498571	28.285714	250.142857
## 938	1993-06-09	0.7651694	23.89391	7.9825000	2.000000	4.000000
## 939	1993-06-10	0.7708660	23.89393	5.3586000	8.200000	58.200000
## 940	1993-06-11	0.7765626	23.89395	5.3308779	4.444444	25.111111
## 941	1993-06-12	0.7822593	23.89397	5.3031558	2.000000	2.166667
## 942	1993-06-13	0.7879559	23.89399	5.2754337	2.444444	2.222222
## 943	1993-06-14	0.7936525	23.89401	5.2477115	47.923077	773.807692
## 944	1993-06-15	0.7993491	23.89404	4.8729314	24.961538	388.070513
## 945	1993-06-16	0.8050457	23.89406	5.4461985	2.000000	2.333333
## 946	1993-06-17	0.8107423	23.89408	6.0194657	117.939394	14.060606
## 947	1993-06-18	0.8164389	23.89410	6.5927328	6.000000	2.666667
## 948	1993-06-19	0.8221355	23.89412	7.1660000	10.869565	17.130435
## 949	1993-06-20	0.8278321	23.89415	7.0467000	16.400000	2.400000
## 950	1993-06-21	0.8335288	23.89417	7.9263750	18.500000	2.333333
## 951	1993-06-22	0.8392254	23.89419	7.4381246	7.111111	14.444444
## 952	1993-06-23	0.8449220	23.89421	6.9498742	2.000000	4.250000
## 953	1993-06-24	0.8506186	23.89423	6.4616238	2.000000	3.125000
## 954	1993-06-25	0.8563152	23.89426	6.4944753	2.000000	2.000000
## 955	1993-06-26	0.8620118	23.89428	6.5273269	6.196721	354.524590
## 956	1993-06-27	0.8677084	23.89430	6.8127564	2.166667	5.083333
## 957	1993-06-28	0.8734050	23.89432	7.0981859	8.222222	137.111111
## 958	1993-06-29	0.8791017	23.89434	7.3836154	2.000000	48.000000
## 959	1993-06-30	0.8847983	23.89436	7.6690449	2.000000	2.083333
## 960	1993-07-01	0.8904949	23.89439	7.9544744	2.222222	2.000000
## 961	1993-07-02	0.8961915	23.89441	8.2399038	2.083333	13.666667
## 962	1993-07-03	0.9018881	23.89443	8.5253333	2.083333	4.833333

## 963	1993-07-04	0.9075847	23.89445	7.9400122	2.000000	10.916667
## 964	1993-07-05	0.9132813	23.89447	7.3546911	116.888889	4.888889
## 965	1993-07-06	0.9189779	23.89450	6.7693700	68.502137	155.021368
## 966	1993-07-07	0.9246745	23.89452	6.9927692	20.115385	305.153846
## 967	1993-07-08	0.9303712	23.89454	6.9345410	2.000000	4.000000
## 968	1993-07-09	0.9360678	23.89456	6.8763128	4.000000	13.777778
## 969	1993-07-10	0.9417644	23.89458	6.8180846	4.083333	5.166667
## 970	1993-07-11	0.9474610	23.89461	6.7598564	4.888889	10.222222
## 971	1993-07-12	0.9531576	23.89463	6.7016282	2.000000	4.833333
## 972	1993-07-13	0.9588542	23.89465	6.6434000	11.000000	45.000000
## 973	1993-07-14	0.9645508	23.89467	7.1370714	7.913043	31.478261
## 974	1993-07-15	0.9702474	23.89469	7.5849167	2.250000	2.000000
## 975	1993-07-16	0.9759440	23.89472	7.6180410	175.333333	299.111111
## 976	1993-07-17	0.9816407	23.89474	7.6511654	3.000000	4.000000
## 977	1993-07-18	0.9873373	23.89476	7.6842897	4.166667	2.166667
## 978	1993-07-19	0.9930339	23.89478	7.7174141	3.500000	5.333333
## 979	1993-07-20	0.9987305	23.89480	7.7505385	59.409836	654.196721
## 980	1993-07-21	1.0044271	23.89482	7.4260454	2.000000	2.000000
## 981	1993-07-22	1.0101237	23.89485	7.1015524	5.214286	21.714286
## 982	1993-07-23	1.0158203	23.89487	6.7770594	2.714286	2.714286
## 983	1993-07-24	1.0215169	23.89489	6.2608313	5.272727	23.151515
## 984	1993-07-25	1.0272136	23.89491	5.7446031	35.000000	26.000000
## 985	1993-07-26	1.0329102	23.89493	5.2283750	5.166667	6.416667
## 986	1993-07-27	1.0386068	23.89496	5.4725000	4.000000	2.000000
## 987	1993-07-28	1.0443034	23.89498	5.8312500	4.166667	2.166667
## 988	1993-07-29	1.0500000	23.89500	6.1900000	6.305556	2.194444
## 989	1993-07-30	1.0125319	23.96153	6.3183558	8.444444	2.222222
## 990	1993-07-31	0.9750637	24.02807	6.4467115	57.692308	542.307692
## 991	1993-08-01	0.9375956	24.09460	6.1825686	30.512821	277.862179
## 992	1993-08-02	0.9001275	24.16114	6.3940827	3.333333	13.416667
## 993	1993-08-03	0.8626593	24.22767	6.6055968	4.166667	9.833333
## 994	1993-08-04	0.8251912	24.29420	6.8171109	2.222222	2.888889
## 995	1993-08-05	0.7877230	24.36074	7.0286250	9.166667	38.416667
## 996	1993-08-06	0.7502549	24.42727	7.5027083	13.583333	6.916667
## 997	1993-08-07	0.7127868	24.49380	7.0212286	3.166667	7.000000
## 998	1993-08-08	0.6753186	24.56034	6.5397489	8.363636	2.606061
## 999	1993-08-09	0.6378505	24.62687	6.0582692	23.769231	260.769231
## 1000	1993-08-10	0.6003824	24.69341	6.0639118	14.000000	12.000000
## 1001	1993-08-11	0.5629142	24.75994	6.4192544	2.000000	2.166667
## 1002	1993-08-12	0.5254461	24.82647	6.7745971	2.000000	2.000000
## 1003	1993-08-13	0.4879779	24.89301	7.1299397	4.888889	22.222222
## 1004	1993-08-14	0.4505098	24.95954	7.4852824	2.083333	2.333333
## 1005	1993-08-15	0.4130417	25.02607	7.8406250	4.083333	8.916667
## 1006	1993-08-16	0.4193208	25.28558	6.7653750	75.666667	314.916667
## 1007	1993-08-17	0.4155739	25.30111	6.6974176	1039.777778	479.333333
## 1008	1993-08-18	0.4118270	25.31665	6.6294603	122.400000	74.000000
## 1009	1993-08-19	0.4080801	25.33218	6.5615029	2.000000	4.083333
## 1010	1993-08-20	0.4043332	25.34772	6.4935456	2.416667	6.583333
## 1011	1993-08-21	0.4005863	25.36325	6.4255882	166.769231	818.423077
## 1012	1993-08-22	0.4304683	25.34881	6.4979505	84.551282	411.711538
## 1013	1993-08-23	0.4512429	25.38724	6.6105566	2.333333	5.000000
## 1014	1993-08-24	0.4720175	25.42568	6.7231627	3.111111	8.888889
## 1015	1993-08-25	0.4927921	25.46411	6.8357689	2.083333	10.583333
## 1016	1993-08-26	0.5135667	25.50254	6.9483750	9.000000	16.166667

##	1017	1993-08-27	0.5460417	25.54097	7.6870417	2.500000	3.000000
##	1018	1993-08-28	0.5283656	25.57941	6.9984381	2.000000	2.303030
##	1019	1993-08-29	0.5106895	25.61784	6.3098346	10.666667	5.333333
##	1020	1993-08-30	0.4930134	25.65627	5.6212310	2.500000	6.583333
##	1021	1993-08-31	0.4753373	25.69470	4.9326275	90.038462	349.576923
##	1022	1993-09-01	0.4607545	25.76662	4.8654950	46.019231	177.010684
##	1023	1993-09-02	0.7036043	25.51559	6.3339975	2.000000	4.444444
##	1024	1993-09-03	0.9464542	25.26456	7.8025000	2.583333	3.333333
##	1025	1993-09-04	0.5079958	25.45370	6.2973750	7.583333	23.083333
##	1026	1993-09-05	0.4816964	25.49462	6.0394362	2.000000	2.333333
##	1027	1993-09-06	0.4553969	25.53555	5.7814975	8.060606	3.212121
##	1028	1993-09-07	0.4290975	25.57647	5.5235588	2.000000	2.833333
##	1029	1993-09-08	0.4027980	25.61739	5.2656200	132.192308	1047.500000
##	1030	1993-09-09	0.3999465	25.64865	5.2059596	67.346154	524.958333
##	1031	1993-09-10	0.4153657	25.49573	5.8124314	2.500000	2.416667
##	1032	1993-09-11	0.4307849	25.34282	6.4189032	2.222222	2.000000
##	1033	1993-09-12	0.4462042	25.18991	7.0253750	3.916667	12.666667
##	1034	1993-09-13	0.5586167	24.83966	8.3332083	2.000000	2.833333
##	1035	1993-09-14	0.5279276	25.05520	7.5126191	2.000000	3.666667
##	1036	1993-09-15	0.4972385	25.27073	6.6920299	2.000000	2.000000
##	1037	1993-09-16	0.4665495	25.48627	5.8714407	2.000000	2.000000
##	1038	1993-09-17	0.4358604	25.70181	5.0508515	109.980769	316.326923
##	1039	1993-09-18	0.4178192	25.72990	5.1255769	217.961538	630.653846
##	1040	1993-09-19	0.4635632	25.59637	5.4582516	119.132284	316.357226
##	1041	1993-09-20	0.5093073	25.46284	5.7909263	20.303030	2.060606
##	1042	1993-09-21	0.5550513	25.32931	6.1236010	5.333333	4.222222
##	1043	1993-09-22	0.6007953	25.19578	6.4562756	2.083333	2.250000
##	1044	1993-09-23	0.6465393	25.06225	6.7889503	2.333333	2.333333
##	1045	1993-09-24	0.6922833	24.92873	7.1216250	3.000000	10.166667
##	1046	1993-09-25	2.0893583	24.02102	9.5001667	55.388889	6.305556
##	1047	1993-09-26	1.2729850	24.72270	7.4858186	107.777778	2.444444
##	1048	1993-09-27	0.4566118	25.42439	5.4714706	2.000000	2.000000
##	1049	1993-09-28	0.4467213	25.39292	5.5914757	2.000000	2.250000
##	1050	1993-09-29	0.4368308	25.36145	5.7114808	104.692308	1895.692308
##	1051	1993-09-30	0.4424071	25.26330	5.8185513	13.111111	69.777778
##	1052	1993-10-01	0.4479835	25.16515	5.9256218	12.000000	4.000000
##	1053	1993-10-02	0.4535598	25.06701	6.0326923	2.000000	2.000000
##	1054	1993-10-03	0.4591362	24.96886	6.1397628	3.333333	6.000000
##	1055	1993-10-04	0.4647125	24.87071	6.2468333	25.666667	322.083333
##	1056	1993-10-05	0.7101125	24.11960	7.7550417	2.000000	3.416667
##	1057	1993-10-06	0.6016850	24.59381	6.8422286	17.777778	86.888889
##	1058	1993-10-07	0.4932576	25.06803	5.9294155	3.920000	14.800000
##	1059	1993-10-08	0.3848301	25.54225	5.0166024	4.444444	2.222222
##	1060	1993-10-09	0.4171567	25.46766	5.6738507	39.192308	1048.500000
##	1061	1993-10-10	0.4395077	25.29683	5.9915978	2.000000	2.083333
##	1062	1993-10-11	0.4618586	25.12600	6.3093449	2.121212	4.242424
##	1063	1993-10-12	0.4842096	24.95517	6.6270920	2.000000	2.000000
##	1064	1993-10-13	0.5065606	24.78434	6.9448391	2.000000	3.583333
##	1065	1993-10-14	0.5289115	24.61352	7.2625862	2.444444	3.333333
##	1066	1993-10-15	0.5512625	24.44269	7.5803333	2.583333	4.833333
##	1067	1993-10-16	0.4713417	24.83196	6.5817500	14.916667	325.666667
##	1068	1993-10-17	0.4479519	25.39206	5.3582115	74.423077	1390.192308
##	1069	1993-10-18	0.4384171	25.33597	5.6124612	2.000000	2.666667
##	1070	1993-10-19	0.4288824	25.27989	5.8667109	12.500000	2.333333

##	1071	1993-10-20	0.4193476	25.22380	6.1209606	20.888889	27.111111
##	1072	1993-10-21	0.4098128	25.16772	6.3752103	2.000000	2.000000
##	1073	1993-10-22	0.4002780	25.11163	6.6294600	3.888889	3.000000
##	1074	1993-10-23	0.4236372	24.99504	6.9935222	5.777778	4.000000
##	1075	1993-10-24	0.4469964	24.87845	7.3575844	4.000000	4.916667
##	1076	1993-10-25	0.4703557	24.76186	7.7216467	10.888889	6.000000
##	1077	1993-10-26	0.4937149	24.64527	8.0857089	2.000000	2.083333
##	1078	1993-10-27	0.5170741	24.52868	8.4497711	4.000000	7.555556
##	1079	1993-10-28	0.5404333	24.41209	8.8138333	2.083333	5.250000
##	1080	1993-10-29	0.4534250	24.88048	7.1030385	78.692308	821.076923
##	1081	1993-10-30	0.5917583	23.86565	9.2438750	2.000000	4.000000
##	1082	1993-10-31	0.5543827	24.03935	8.7658060	12.000000	250.666667
##	1083	1993-11-01	0.5170070	24.21305	8.2877370	2.400000	7.280000
##	1084	1993-11-02	0.4796313	24.38674	7.8096680	2.000000	5.416667
##	1085	1993-11-03	0.4422557	24.56044	7.3315990	2.444444	2.444444
##	1086	1993-11-04	0.4048800	24.73414	6.8535300	4.222222	2.222222
##	1087	1993-11-05	0.4300937	24.59941	7.0183792	6.000000	2.000000
##	1088	1993-11-06	0.4553075	24.46468	7.1832283	6.000000	4.444444
##	1089	1993-11-07	0.4805213	24.32995	7.3480775	2.000000	2.250000
##	1090	1993-11-08	0.5057350	24.19522	7.5129267	2.000000	2.000000
##	1091	1993-11-09	0.5309488	24.06049	7.6777758	2.888889	4.444444
##	1092	1993-11-10	0.5561625	23.92576	7.8426250	6.166667	2.333333
##	1093	1993-11-11	0.4762292	24.23198	7.9285000	7.333333	7.000000
##	1094	1993-11-12	0.4416667	24.46900	7.7027843	24.500000	877.230769
##	1095	1993-11-13	0.4412197	24.44481	7.7617522	164.888889	3.555556
##	1096	1993-11-14	0.4407727	24.42063	7.8207201	4.000000	4.666667
##	1097	1993-11-15	0.4403257	24.39644	7.8796880	8.000000	2.166667
##	1098	1993-11-16	0.4398787	24.37226	7.9386559	10.000000	19.777778
##	1099	1993-11-17	0.4394317	24.34807	7.9976238	6.000000	10.888889
##	1100	1993-11-18	0.4353633	24.36616	7.9677074	2.000000	2.000000
##	1101	1993-11-19	0.4312950	24.38424	7.9377910	2.666667	5.111111
##	1102	1993-11-20	0.4272267	24.40233	7.9078747	16.333333	4.166667
##	1103	1993-11-21	0.4231583	24.42041	7.8779583	6.545455	112.060606
##	1104	1993-11-22	0.4197160	24.65221	7.7762800	28.423077	1213.769231
##	1105	1993-11-23	0.5135792	24.02755	7.9774167	15.363054	610.339161
##	1106	1993-11-24	0.4629385	24.21577	7.9445820	2.303030	6.909091
##	1107	1993-11-25	0.4122978	24.40400	7.9117473	3.151515	4.496212
##	1108	1993-11-26	0.4185921	24.27111	7.7067375	4.000000	2.083333
##	1109	1993-11-27	0.4248864	24.13822	7.5017278	74.000000	100.666667
##	1110	1993-11-28	0.4311807	24.00533	7.2967181	4.000000	3.250000
##	1111	1993-11-29	0.4374750	23.87245	7.0917083	8.166667	13.166667
##	1112	1993-11-30	0.4071588	24.26412	7.7582549	41.192308	448.653846
##	1113	1993-12-01	0.4298042	23.83694	7.1936250	20.666667	6.545455
##	1114	1993-12-02	1.2300000	23.89600	6.1600000	15.361111	4.272727
##	1115	1993-12-03	1.0626943	24.01709	6.4593465	10.055556	2.000000
##	1116	1993-12-04	0.8953885	24.13818	6.7586931	4.750000	7.833333
##	1117	1993-12-05	0.7280828	24.25927	7.0580396	10.250000	2.000000
##	1118	1993-12-06	0.5607770	24.38035	7.3573861	2.000000	2.000000
##	1119	1993-12-07	0.3934713	24.50144	7.6567327	6.333333	3.111111
##	1120	1993-12-08	0.4003461	24.41219	7.6938079	10.666667	4.222222
##	1121	1993-12-09	0.4072210	24.32293	7.7308831	10.608696	2.250000
##	1122	1993-12-10	0.4140958	24.23367	7.7679583	63.666667	195.833333
##	1123	1993-12-11	0.3754188	24.52170	7.6150312	18.187500	812.687500
##	1124	1993-12-12	0.3858000	24.43867	7.6079333	7.066667	127.200000

## 1125	1993-12-13	0.4468655	24.43566	7.9288276	46.896552	953.034483
## 1126	1993-12-14	0.7189916	24.47034	7.7911697	10.222222	8.666667
## 1127	1993-12-15	0.9911176	24.50501	7.6535118	4.000000	2.250000
## 1128	1993-12-16	1.2632436	24.53969	7.5158540	2.000000	2.083333
## 1129	1993-12-17	1.5353697	24.57437	7.3781961	43.111111	14.000000
## 1130	1993-12-18	1.8074957	24.58471	4.9187974	2.166667	2.666667
## 1131	1993-12-19	2.0796218	24.59504	2.4593987	26.833333	2.083333
## 1132	1993-12-20	2.3517478	24.60538	0.0000000	41.246855	190.475629
## 1133	1993-12-21	2.6109880	24.64546	7.0857314	55.660377	378.867925
## 1134	1993-12-22	3.3651542	24.60319	7.7145958	5.000000	25.250000
## 1135	1993-12-23	2.9234974	24.71686	7.1853669	14.333333	10.416667
## 1136	1993-12-24	2.4818406	24.83053	6.6561379	8.333333	8.750000
## 1137	1993-12-25	2.6741000	24.78975	6.8565614	2.333333	7.083333
## 1138	1993-12-26	2.8663594	24.74896	7.0569849	58.000000	29.555556
## 1139	1993-12-27	3.0586187	24.70818	7.2574084	49.805556	25.870370
## 1140	1993-12-28	3.2508781	24.66739	7.4578319	41.611111	22.185185
## 1141	1993-12-29	3.4431375	24.62661	7.6582554	33.416667	18.500000
## 1142	1993-12-30	2.9389255	24.78953	6.7645022	17.730769	61.538462
## 1143	1993-12-31	2.9916750	24.59386	7.3774221	41.636364	12.969697
## 1144	1994-01-01	3.0444246	24.75041	6.9168219	250.000000	40.000000
## 1145	1994-01-02	3.0971741	24.90696	6.4562216	126.333333	21.000000
## 1146	1994-01-03	3.1499236	25.06350	5.9956214	2.666667	2.000000
## 1147	1994-01-04	3.2026732	25.22005	5.5350212	12.000000	10.541667
## 1148	1994-01-05	3.2554227	25.11124	6.0040266	21.333333	19.083333
## 1149	1994-01-06	3.3081722	25.00242	6.4730320	20.666667	17.777778
## 1150	1994-01-07	3.3609218	24.89361	6.9420375	32.000000	8.000000
## 1151	1994-01-08	3.4136713	24.78479	7.4110429	8.583333	8.583333
## 1152	1994-01-09	3.4664208	24.67598	7.8800483	18.500000	2.333333
## 1153	1994-01-10	3.3428273	24.94494	7.0765030	6.083333	32.750000
## 1154	1994-01-11	3.2192337	25.21732	6.3072408	34.730769	586.115385
## 1155	1994-01-12	3.0956401	25.18621	6.4312269	22.363636	3.878788
## 1156	1994-01-13	2.9720466	25.15511	6.5552130	19.640152	4.897727
## 1157	1994-01-14	2.8484530	25.14776	6.6715763	16.916667	5.916667
## 1158	1994-01-15	2.7248594	25.14042	6.7879396	172.444444	51.111111
## 1159	1994-01-16	2.6012658	25.13307	6.9043030	3.461538	9.615385
## 1160	1994-01-17	2.4776723	25.12573	7.0206663	5.000000	5.416667
## 1161	1994-01-18	2.3540787	25.11839	7.1370296	2.000000	2.250000
## 1162	1994-01-19	2.2304851	25.11104	7.2533929	4.121212	10.969697
## 1163	1994-01-20	2.1068916	25.37577	6.0038929	22.083333	169.750000
## 1164	1994-01-21	1.9832980	25.78804	4.7017534	17.169811	345.396226
## 1165	1994-01-22	2.1173646	25.70396	4.6141912	2.250000	8.916667
## 1166	1994-01-23	2.2514311	25.61988	4.5266290	2.569444	9.125000
## 1167	1994-01-24	2.3854977	25.50355	4.9853251	2.888889	9.333333
## 1168	1994-01-25	2.5195643	25.38722	5.4440211	2.320000	3.680000
## 1169	1994-01-26	2.6536308	25.27090	5.9027172	2.000000	2.000000
## 1170	1994-01-27	2.7876974	25.15457	6.3614133	232.444444	1416.222222
## 1171	1994-01-28	2.9217639	25.03824	6.8201094	2.000000	6.000000
## 1172	1994-01-29	3.0558305	24.92192	7.2788055	2.000000	3.333333
## 1173	1994-01-30	3.1898971	25.21591	5.6101408	3.416667	8.000000
## 1174	1994-01-31	3.3239636	25.47394	5.1798498	20.384615	661.615385
## 1175	1994-02-01	3.4580302	25.48214	5.1165943	158.666667	253.555556
## 1176	1994-02-02	3.5920968	25.49034	5.0533389	9.000000	72.000000
## 1177	1994-02-03	3.7261633	25.49854	4.9900834	2.060606	2.545455
## 1178	1994-02-04	3.8602299	25.50674	4.9268279	6.363636	7.814394

## 1179	1994-02-05	3.9942965	25.40359	5.2511861	10.666667	13.083333
## 1180	1994-02-06	4.1283630	25.30045	5.5755443	2.444444	2.000000
## 1181	1994-02-07	4.2624296	25.19730	5.8999025	2.000000	2.250000
## 1182	1994-02-08	4.3964961	25.09415	6.2242607	2.000000	2.000000
## 1183	1994-02-09	4.5305627	24.99100	6.5486189	2.000000	3.555556
## 1184	1994-02-10	4.6646293	24.88785	6.8729771	4.166667	3.333333
## 1185	1994-02-11	4.7986958	25.10279	6.8961762	12.250000	31.916667
## 1186	1994-02-12	4.7491106	25.46306	5.6500989	84.461538	1710.500000
## 1187	1994-02-13	4.6995254	25.44177	5.7800904	7.111111	18.000000
## 1188	1994-02-14	4.6499402	25.42049	5.9100818	4.080000	14.080000
## 1189	1994-02-15	4.6003549	25.39921	6.0400733	15.498333	8.040000
## 1190	1994-02-16	4.5507697	25.33570	6.2176112	26.916667	2.000000
## 1191	1994-02-17	4.5011845	25.27219	6.3951491	4.666667	4.222222
## 1192	1994-02-18	4.4515992	25.20868	6.5726870	20.000000	100.000000
## 1193	1994-02-19	4.4020140	25.14517	6.7502250	2.000000	2.000000
## 1194	1994-02-20	4.3524288	25.08166	6.9277629	3.575758	13.272727
## 1195	1994-02-21	4.3028436	25.01815	7.1053008	2.000000	6.000000
## 1196	1994-02-22	4.2532583	24.95464	7.2828387	12.500000	10.500000
## 1197	1994-02-23	7.2718979	25.34558	6.7451398	27.692308	331.115385
## 1198	1994-02-24	10.2905375	24.70418	9.9423662	2.363636	2.787879
## 1199	1994-02-25	6.7068045	24.91738	8.3573803	4.333333	2.333333
## 1200	1994-02-26	3.1230714	25.13059	6.7723943	5.500000	18.166667
## 1201	1994-02-27	3.2416399	25.05586	6.9185705	6.666667	34.000000
## 1202	1994-02-28	3.3602083	24.98114	7.0647467	14.000000	50.000000
## 1203	1994-03-01	3.4787768	24.90642	7.2109229	4.166667	7.458333
## 1204	1994-03-02	3.5973452	24.83169	7.3570990	242.666667	29.333333
## 1205	1994-03-03	3.7159137	24.75697	7.5032752	2.083333	8.416667
## 1206	1994-03-04	3.8344821	24.68225	7.6494514	10.333333	5.583333
## 1207	1994-03-05	3.9530506	24.60752	7.7956276	2.666667	6.000000
## 1208	1994-03-06	4.0716190	24.53280	7.9418038	10.333333	18.833333
## 1209	1994-03-07	4.1901875	24.45808	8.0879800	2.363636	7.151515
## 1210	1994-03-08	3.9013833	24.69610	7.8564342	2.316498	6.101010
## 1211	1994-03-09	3.4552327	24.86780	7.6283573	2.269360	5.050505
## 1212	1994-03-10	3.4161050	24.88170	7.3887795	2.222222	4.000000
## 1213	1994-03-11	3.3769773	24.89559	7.1492017	4.000000	5.416667
## 1214	1994-03-12	3.3378497	24.90949	6.9096239	7.333333	2.444444
## 1215	1994-03-13	3.2987220	24.92338	6.6700461	8.833333	3.847222
## 1216	1994-03-14	2.9925565	24.83685	7.1012187	10.333333	5.250000
## 1217	1994-03-15	2.6863911	24.75032	7.5323913	2.000000	2.166667
## 1218	1994-03-16	2.3802256	24.66379	7.9635639	6.666667	16.222222
## 1219	1994-03-17	2.0740601	24.57726	8.3947365	2.000000	4.083333
## 1220	1994-03-18	1.7678946	24.49073	8.8259091	4.222222	2.666667
## 1221	1994-03-19	1.4617292	24.40420	9.2570817	2.166667	2.416667
## 1222	1994-03-20	1.6479463	24.89415	6.9633191	4.416667	10.208333
## 1223	1994-03-21	1.8341634	24.89452	6.9737284	6.666667	18.000000
## 1224	1994-03-22	2.0203806	24.89490	6.9841378	18.583333	2.083333
## 1225	1994-03-23	2.2065977	24.89528	6.9945471	11.291667	13.708333
## 1226	1994-03-24	2.3928148	24.82194	7.0636383	4.000000	25.333333
## 1227	1994-03-25	2.5790319	24.74861	7.1327295	6.500000	243.666667
## 1228	1994-03-26	2.7652491	24.67527	7.2018206	6.000000	2.000000
## 1229	1994-03-27	2.9514662	24.60194	7.2709118	2.000000	10.916667
## 1230	1994-03-28	3.1376833	24.52860	7.3400029	9.212121	41.636364
## 1231	1994-03-29	3.4182028	24.89319	6.8685830	29.614035	440.175439
## 1232	1994-03-30	3.6987222	25.11103	6.3355681	16.727273	518.690909

##	1233	1994-03-31	3.9792417	25.13286	6.1452410	5.111111	5.333333
##	1234	1994-04-01	4.2597611	25.15470	5.9549139	2.000000	10.250000
##	1235	1994-04-02	4.5402806	25.17654	5.7645869	2.083333	6.875000
##	1236	1994-04-03	4.8208000	25.03081	6.1680124	2.166667	3.500000
##	1237	1994-04-04	5.1013194	24.88508	6.5714380	4.333333	4.666667
##	1238	1994-04-05	5.3818389	24.73936	6.9748636	2.888889	9.555556
##	1239	1994-04-06	5.6623583	24.59363	7.3782892	2.000000	2.666667
##	1240	1994-04-07	1.8257458	24.87494	7.1496133	21.583333	28.666667
##	1241	1994-04-08	1.8596366	25.17820	6.4958837	30.076923	1083.115385
##	1242	1994-04-09	1.8935274	25.19926	6.3432328	8.500000	6.500000
##	1243	1994-04-10	1.9274182	25.22032	6.1905819	10.250000	2.000000
##	1244	1994-04-11	1.9613090	25.24139	6.0379310	4.444444	8.000000
##	1245	1994-04-12	1.9951998	25.26245	5.8852801	2.083333	5.333333
##	1246	1994-04-13	2.0290906	25.28352	5.7326292	2.000000	2.000000
##	1247	1994-04-14	2.0629814	25.30458	5.5799783	18.000000	7.000000
##	1248	1994-04-15	2.0968722	25.38397	5.4379717	34.000000	12.000000
##	1249	1994-04-16	2.1307630	25.46336	5.2959651	2.250000	4.916667
##	1250	1994-04-17	2.1646538	25.54274	5.1539585	49.576923	524.423077
##	1251	1994-04-18	2.9860417	25.33336	5.5837325	59.166667	164.500000
##	1252	1994-04-19	4.5063042	25.18432	6.3259117	5.000000	12.500000
##	1253	1994-04-20	4.1661140	25.28463	6.0043458	8.222222	4.000000
##	1254	1994-04-21	3.8259238	25.38495	5.6827799	2.583333	4.166667
##	1255	1994-04-22	3.4857337	25.48526	5.3612141	3.291667	3.541667
##	1256	1994-04-23	3.6080586	25.42610	5.6655470	4.000000	2.916667
##	1257	1994-04-24	3.7303836	25.36695	5.9698799	3.111111	4.444444
##	1258	1994-04-25	3.8527085	25.30779	6.2742129	2.166667	3.500000
##	1259	1994-04-26	3.9750334	25.24863	6.5785458	3.250000	7.416667
##	1260	1994-04-27	4.0973584	25.18948	6.8828787	2.250000	11.833333
##	1261	1994-04-28	4.2196833	25.13032	7.1872117	6.333333	4.750000
##	1262	1994-04-29	4.3698923	25.07031	7.1720812	6.000000	3.757576
##	1263	1994-04-30	4.5201013	25.31702	6.2839068	45.230769	273.700000
##	1264	1994-05-01	4.6703103	25.33222	6.1612013	72.727273	123.818182
##	1265	1994-05-02	4.8205193	25.34742	6.0384957	3.818182	3.151515
##	1266	1994-05-03	4.9707283	25.36262	5.9157902	19.835017	353.750000
##	1267	1994-05-04	5.1209373	25.37783	5.7930847	35.851852	390.114286
##	1268	1994-05-05	5.2711463	25.34460	6.8868948	888.101695	718.169492
##	1269	1994-05-06	5.4213553	25.22979	7.7111622	198.888889	119.555556
##	1270	1994-05-07	5.5715642	25.21151	8.0360596	2.000000	169.000000
##	1271	1994-05-08	5.7217732	25.19323	8.3609570	23.818182	39.393939
##	1272	1994-05-09	5.8719822	25.17494	8.6858544	5.333333	45.342857
##	1273	1994-05-10	5.2666253	25.21664	8.3817212	63.625000	54.250000
##	1274	1994-05-11	4.6612683	25.28857	8.1083034	10.055556	88.888889
##	1275	1994-05-12	4.5175240	25.31711	8.0350131	108.060606	78.121212
##	1276	1994-05-13	4.3737796	25.34565	7.9617228	5.333333	3.333333
##	1277	1994-05-14	4.2300353	25.37420	7.8884325	277.454545	282.454545
##	1278	1994-05-15	4.0862910	25.40274	7.8151422	170.949495	754.000000
##	1279	1994-05-16	3.9425466	25.43128	7.7418519	64.444444	11.777778
##	1280	1994-05-17	3.7988023	25.45982	7.6685616	35.555556	145.500000
##	1281	1994-05-18	3.6550580	25.48836	7.5952713	6.666667	13.454545
##	1282	1994-05-19	3.5113137	25.51691	7.5219810	488.545455	33.090909
##	1283	1994-05-20	3.3675693	25.54545	7.4486907	7.757576	59.560976
##	1284	1994-05-21	3.2238250	25.57399	7.3754004	5.083333	228.312500
##	1285	1994-05-22	5.6028676	25.92533	4.8787416	139.111111	1061.428571
##	1286	1994-05-23	7.9819103	25.79384	5.5531154	15.416667	22.666667

##	1287	1994-05-24	10.3609529	25.70183	7.4609583	7.777778	15.764706
##	1288	1994-05-25	12.7399956	25.60982	9.3688011	2.000000	4.962963
##	1289	1994-05-26	11.8853738	25.52976	8.0173006	38.437500	112.000000
##	1290	1994-05-27	11.0307521	25.51350	8.1908351	21.944444	438.666667
##	1291	1994-05-28	10.1761304	25.48815	8.2797559	12.699495	408.750000
##	1292	1994-05-29	9.3215086	25.46280	8.3686768	3.454545	2.181818
##	1293	1994-05-30	8.4668869	25.43745	8.4575976	74.909091	112.909091
##	1294	1994-05-31	7.6122652	25.41210	8.5465184	52.848485	39.750000
##	1295	1994-06-01	6.7576435	25.38674	8.6354392	30.787879	17.939394
##	1296	1994-06-02	5.9030217	25.36139	8.7243600	5.777778	6.444444
##	1297	1994-06-03	5.0484000	25.33604	8.8132808	3.259259	17.185185
##	1298	1994-06-04	4.5084600	25.66640	6.4259793	91.307692	308.076923
##	1299	1994-06-05	4.2114924	25.85643	5.2872535	153.904762	1011.320000
##	1300	1994-06-06	3.9145247	25.74964	6.0469610	9.894737	72.315789
##	1301	1994-06-07	3.6175571	25.68919	6.3331789	12.311005	19.750000
##	1302	1994-06-08	3.3205895	25.62875	6.6193968	14.727273	8.727273
##	1303	1994-06-09	3.0236219	25.56830	6.9056148	2.060606	2.969697
##	1304	1994-06-10	2.7266542	25.50785	7.1918327	11.111111	8.888889
##	1305	1994-06-11	2.4296866	25.44740	7.4780506	3.957447	20.085106
##	1306	1994-06-12	2.1327190	25.38696	7.7642685	5.200000	56.266667
##	1307	1994-06-13	1.8357514	25.41308	7.4927384	141.106383	696.297872
##	1308	1994-06-14	1.5387837	25.24285	8.0519364	336.228571	481.885714
##	1309	1994-06-15	1.2418161	24.58020	7.6117258	4.722222	22.722222
##	1310	1994-06-16	0.9448485	23.91755	7.1715152	6.227778	29.872222
##	1311	1994-06-17	1.1047081	24.28973	6.8992361	7.733333	37.022222
##	1312	1994-06-18	1.2645678	24.66192	6.6269570	264.727273	224.909091
##	1313	1994-06-19	1.4244274	25.03411	6.3546779	41.333333	58.666667
##	1314	1994-06-20	1.5842870	25.40630	6.0823988	5.722222	92.888889
##	1315	1994-06-21	1.7441467	25.77848	5.8101197	27.363636	256.545455
##	1316	1994-06-22	3.6596714	25.51554	7.2912500	7.461538	32.153846
##	1317	1994-06-23	5.5751961	25.77726	5.1481054	9.333333	134.952381
##	1318	1994-06-24	7.4907208	24.95150	8.4401108	3.259259	40.518519
##	1319	1994-06-25	6.9353928	25.11889	8.0948322	4.900000	3.400000
##	1320	1994-06-26	6.3800647	25.28628	7.7495536	5.111111	20.166667
##	1321	1994-06-27	5.8247366	25.45367	7.4042750	4.190476	11.238095
##	1322	1994-06-28	5.2694085	25.48226	7.5510762	11.392857	164.642857
##	1323	1994-06-29	4.7140804	25.51241	7.7561719	2.074074	3.037037
##	1324	1994-06-30	4.1587523	25.52180	7.4193834	2.000000	2.611111
##	1325	1994-07-01	3.6034243	25.53119	7.0825949	4.042553	22.127660
##	1326	1994-07-02	3.0480962	25.54059	6.7458065	9.111111	12.000000
##	1327	1994-07-03	2.4927681	25.54998	6.4090180	15.157895	135.052632
##	1328	1994-07-04	1.9374400	25.24668	7.1530693	44.055138	891.407268
##	1329	1994-07-05	2.2762010	25.59256	7.6376887	72.952381	1647.761905
##	1330	1994-07-06	2.6149619	24.81500	8.1843471	2.740741	7.407407
##	1331	1994-07-07	2.9537229	24.93294	8.0189210	3.111111	6.666667
##	1332	1994-07-08	3.2924838	25.05089	7.8534949	63.777778	367.666667
##	1333	1994-07-09	3.6312448	25.16884	7.6880688	28.909091	38.181818
##	1334	1994-07-10	3.9700057	25.28679	7.5226428	17.500000	89.944444
##	1335	1994-07-11	4.3087667	25.40473	7.3572167	13.861111	48.861111
##	1336	1994-07-12	5.1925892	25.39674	7.5182613	10.222222	7.777778
##	1337	1994-07-13	6.0764117	25.38875	7.6793059	20.181818	84.181818
##	1338	1994-07-14	6.9602342	25.38075	7.8403505	2.000000	2.055556
##	1339	1994-07-15	7.8440567	25.37276	8.0013951	2.222222	2.444444
##	1340	1994-07-16	8.7278792	25.36476	8.1624397	4.571429	44.095238

## 1341	1994-07-17	9.6117017	25.27592	8.6892836	2.785714	3.857143
## 1342	1994-07-18	10.4955242	25.27942	8.3872285	2.111111	2.111111
## 1343	1994-07-19	9.7544426	25.30849	8.0675436	2.055556	2.111111
## 1344	1994-07-20	9.0133609	25.33756	7.7478588	2.055556	4.055556
## 1345	1994-07-21	8.2722792	25.36664	7.4281739	8.666667	28.444444
## 1346	1994-07-22	7.5311975	25.39571	7.1084890	9.818182	7.636364
## 1347	1994-07-23	6.7901159	25.42478	6.7888042	17.473684	112.631579
## 1348	1994-07-24	6.0490342	25.20668	7.4731640	18.800000	407.371429
## 1349	1994-07-25	5.3079525	25.54452	6.1552293	52.952381	899.285714
## 1350	1994-07-26	4.5668708	24.84181	9.1078283	4.962963	15.703704
## 1351	1994-07-27	4.5041937	24.85003	9.0881759	2.000000	2.666667
## 1352	1994-07-28	4.4415165	24.85825	9.0685235	4.000000	5.818182
## 1353	1994-07-29	4.3788393	24.86648	9.0488711	2.000000	2.888889
## 1354	1994-07-30	4.3161622	24.87470	9.0292187	3.111111	34.166667
## 1355	1994-07-31	4.2534850	24.88292	9.0095663	3.500000	29.500000
## 1356	1994-08-01	4.1908078	24.95239	8.3855921	28.666667	69.644444
## 1357	1994-08-02	4.1281307	24.84656	8.7383145	15.481481	19.185185
## 1358	1994-08-03	4.0654535	24.88643	8.5452018	2.000000	12.000000
## 1359	1994-08-04	4.0027763	24.92630	8.3520890	3.444444	3.666667
## 1360	1994-08-05	3.9400992	24.96617	8.1589762	6.363636	6.909091
## 1361	1994-08-06	3.8774220	25.00605	7.9658634	2.166667	5.111111
## 1362	1994-08-07	3.8147448	25.04592	7.7727506	30.000000	12.444444
## 1363	1994-08-08	3.7520677	25.08579	7.5796378	4.000000	12.000000
## 1364	1994-08-09	3.6893905	25.12566	7.3865250	42.842105	495.157895
## 1365	1994-08-10	3.6267133	24.88090	9.0009307	4.846154	12.230769
## 1366	1994-08-11	3.6000820	25.31006	6.7392307	5.666667	420.761905
## 1367	1994-08-12	3.5734506	24.69775	10.3293479	3.777778	3.925926
## 1368	1994-08-13	3.5468192	24.75164	9.9479489	135.111111	3.555556
## 1369	1994-08-14	3.5201879	24.80553	9.5665500	60.909091	30.545455
## 1370	1994-08-15	3.4935565	24.85941	9.1851510	2.333333	6.444444
## 1371	1994-08-16	3.4669252	24.91330	8.8037520	13.777778	4.000000
## 1372	1994-08-17	3.4402938	24.96719	8.4223530	4.285714	2.000000
## 1373	1994-08-18	3.4136624	25.13634	8.8185031	17.357143	219.392857
## 1374	1994-08-19	3.3870311	25.05531	8.7829579	2.000000	2.000000
## 1375	1994-08-20	3.3603997	25.12335	8.1117525	5.111111	7.822222
## 1376	1994-08-21	3.3337683	25.19138	7.4405471	5.818182	13.090909
## 1377	1994-08-22	3.3071370	25.25942	6.7693417	2.888889	6.611111
## 1378	1994-08-23	3.2805056	25.32746	6.0981363	36.631579	234.526316
## 1379	1994-08-24	3.2538742	25.25613	6.8552433	3.485714	17.600000
## 1380	1994-08-25	3.2272429	25.54476	5.8030337	5.761905	375.142857
## 1381	1994-08-26	3.2006115	25.05747	8.6988871	2.000000	2.083333
## 1382	1994-08-27	3.1739802	25.07557	8.4931422	2.000000	11.636364
## 1383	1994-08-28	3.1473488	25.09366	8.2873972	5.288889	24.222222
## 1384	1994-08-29	3.1207174	25.11176	8.0816523	3.702128	51.191489
## 1385	1994-08-30	3.0940861	25.12985	7.8759074	7.777778	6.222222
## 1386	1994-08-31	3.0674547	25.14794	7.6701625	2.111111	4.000000
## 1387	1994-09-01	3.0408233	25.16604	7.4644176	3.724138	7.172414
## 1388	1994-09-02	3.0141920	25.30790	6.9037009	13.555556	66.044444
## 1389	1994-09-03	2.9875606	25.26102	7.0546188	3.142857	12.285714
## 1390	1994-09-04	3.2512415	25.27254	6.9346733	13.777778	203.555556
## 1391	1994-09-05	3.5149223	25.28407	6.8147279	16.000000	2.000000
## 1392	1994-09-06	3.7786032	25.29560	6.6947824	8.388889	68.944444
## 1393	1994-09-07	4.0422841	25.30713	6.5748369	2.363636	3.090909
## 1394	1994-09-08	4.3059649	25.31866	6.4548915	8.622222	15.688889

## 1395	1994-09-09	4.5696458	25.33018	6.3349460	7.263158	18.000000
## 1396	1994-09-10	4.8333267	25.26841	7.2740860	4.538462	5.769231
## 1397	1994-09-11	4.7652380	25.49129	5.6217510	35.619048	895.190476
## 1398	1994-09-12	4.6971494	25.00958	8.2793938	3.777778	3.333333
## 1399	1994-09-13	4.6290607	25.02334	8.2092189	10.222222	5.555556
## 1400	1994-09-14	4.5609721	25.03711	8.1390440	3.333333	3.944444
## 1401	1994-09-15	4.4928834	25.05087	8.0688691	5.454545	6.363636
## 1402	1994-09-16	4.4247948	25.06463	7.9986943	2.055556	2.166667
## 1403	1994-09-17	4.3567061	25.07840	7.9285194	2.466667	7.200000
## 1404	1994-09-18	4.2886175	25.04301	8.2033106	3.428571	21.857143
## 1405	1994-09-19	4.2205289	25.02492	8.1573321	2.111111	2.000000
## 1406	1994-09-20	4.1524402	25.11954	7.7652591	4.055556	11.055556
## 1407	1994-09-21	4.0843516	25.21416	7.3731861	5.500000	46.722222
## 1408	1994-09-22	4.0162629	25.30878	6.9811130	5.000000	44.000000
## 1409	1994-09-23	3.9481743	25.40340	6.5890400	2.526316	8.526316
## 1410	1994-09-24	3.8800856	25.09278	7.6944133	4.461538	8.461538
## 1411	1994-09-25	3.8119970	25.38562	6.4252195	19.725490	855.568627
## 1412	1994-09-26	3.7439083	24.79397	8.3278188	2.000000	6.296296
## 1413	1994-09-27	4.0580261	24.82322	8.2269196	2.333333	5.722222
## 1414	1994-09-28	4.3721439	24.85248	8.1260205	245.636364	83.272727
## 1415	1994-09-29	4.6862617	24.88174	8.0251213	20.888889	7.333333
## 1416	1994-09-30	5.0003795	24.91100	7.9242222	3.523810	17.619048
## 1417	1994-10-01	5.3144973	24.96085	7.8870855	14.755556	151.200000
## 1418	1994-10-02	5.6286152	24.98569	8.0191927	2.000000	5.555556
## 1419	1994-10-03	5.5502026	25.06322	7.6737220	10.000000	9.454545
## 1420	1994-10-04	5.4717901	25.14074	7.3282514	4.666667	12.133333
## 1421	1994-10-05	5.3933776	25.21827	6.9827807	2.611111	16.666667
## 1422	1994-10-06	5.3149651	25.29579	6.6373100	28.909091	22.363636
## 1423	1994-10-07	5.2365525	25.37332	6.2918393	2.210526	2.421053
## 1424	1994-10-08	5.1581400	25.22215	7.0163333	4.769231	21.384615
## 1425	1994-10-09	5.1023263	25.50194	5.7011177	87.190476	1746.047619
## 1426	1994-10-10	5.0465125	25.08632	7.5045404	3.259259	17.333333
## 1427	1994-10-11	5.1320441	25.09949	7.5892879	31.777778	35.777778
## 1428	1994-10-12	5.2175757	25.11266	7.6740355	3.837838	23.675676
## 1429	1994-10-13	5.3031073	25.12582	7.7587830	64.545455	15.272727
## 1430	1994-10-14	5.3886389	25.13899	7.8435305	22.468085	63.787234
## 1431	1994-10-15	5.4741705	25.15216	7.9282781	2.444444	13.333333
## 1432	1994-10-16	5.5597021	25.16532	8.0130256	21.555556	6.666667
## 1433	1994-10-17	5.6452338	25.17849	8.0977731	4.571429	26.571429
## 1434	1994-10-18	5.7307654	25.13632	8.0065853	35.107143	401.892857
## 1435	1994-10-19	5.8162970	25.14939	8.2927003	2.111111	7.777778
## 1436	1994-10-20	5.7920457	25.27642	7.5501117	2.333333	8.333333
## 1437	1994-10-21	5.7677945	25.40344	6.8075231	4.809524	9.095238
## 1438	1994-10-22	5.7435432	25.55306	6.0929051	55.733333	591.688889
## 1439	1994-10-23	5.7192920	25.22272	8.0506929	6.148148	19.259259
## 1440	1994-10-24	5.6950407	25.21392	8.0201634	3.866667	3.511111
## 1441	1994-10-25	5.6707895	25.20512	7.9896338	171.636364	33.090909
## 1442	1994-10-26	5.6465383	25.19633	7.9591043	5.272727	10.727273
## 1443	1994-10-27	5.6222870	25.18753	7.9285747	2.388889	5.611111
## 1444	1994-10-28	5.5980358	25.17873	7.8980452	2.222222	3.111111
## 1445	1994-10-29	5.5737845	25.16231	7.8496557	11.138462	128.184615
## 1446	1994-10-30	5.5495333	25.19443	7.7877918	7.142857	20.000000
## 1447	1994-10-31	5.5252820	25.49758	6.1724208	4.682540	12.250000
## 1448	1994-11-01	5.5010308	25.48309	6.2488133	2.222222	4.500000

## 1449	1994-11-02	5.4767795	25.46861	6.3252057	8.727273	19.272727
## 1450	1994-11-03	5.4525283	25.45412	6.4015982	9.555556	40.611111
## 1451	1994-11-04	5.4282771	25.43963	6.4779907	6.382979	13.106383
## 1452	1994-11-05	5.4040258	25.42514	6.5543831	40.888889	107.555556
## 1453	1994-11-06	5.3797746	25.41065	6.6307756	41.000000	79.000000
## 1454	1994-11-07	5.3555233	25.39616	6.7071681	7.952381	14.095238
## 1455	1994-11-08	5.3312721	25.48661	6.3581781	31.155556	167.733333
## 1456	1994-11-09	5.3070208	25.12791	7.8837308	10.666667	71.185185
## 1457	1994-11-10	5.2614525	25.19512	8.0487459	3.055556	3.722222
## 1458	1994-11-11	5.2158842	25.26233	8.2137609	5.241379	7.448276
## 1459	1994-11-12	5.1703158	25.37398	7.2248658	207.866667	380.311111
## 1460	1994-11-13	5.1247475	25.27871	7.9612955	15.600000	136.000000
## 1461	1994-11-14	5.0791792	25.41191	7.0180007	2.500000	5.444444
## 1462	1994-11-15	5.0336108	25.54511	6.0747060	6.292553	9.828605
## 1463	1994-11-16	4.9880425	25.43690	6.4638047	10.085106	14.212766
## 1464	1994-11-17	4.9424742	25.32869	6.8529033	4.967742	5.548387
## 1465	1994-11-18	4.8969058	25.60256	5.6404936	88.285714	1024.035714
## 1466	1994-11-19	4.8513375	25.02425	7.9340500	6.296296	45.481481
## 1467	1994-11-20	4.7597068	25.02590	7.9745114	40.000000	150.000000
## 1468	1994-11-21	4.6680760	25.02756	8.0149728	24.888889	8.666667
## 1469	1994-11-22	4.5764453	25.02922	8.0554341	5813.636364	4695.454545
## 1470	1994-11-23	4.4848145	25.03087	8.0958955	1006.250000	542.500000
## 1471	1994-11-24	4.3931838	25.03253	8.1363569	191.666667	76.388889
## 1472	1994-11-25	4.3015530	25.03419	8.1768183	516.833333	692.285354
## 1473	1994-11-26	4.2099223	25.03584	8.2172796	842.000000	1308.181818
## 1474	1994-11-27	4.1182915	25.03750	8.2577410	737.333333	1176.000000
## 1475	1994-11-28	4.0266608	25.03916	8.2982024	11.944444	40.777778
## 1476	1994-11-29	3.9350300	25.04081	8.3386638	142.222222	71.222222
## 1477	1994-11-30	3.8433993	25.04247	8.3791252	101.818182	78.363636
## 1478	1994-12-01	3.7517686	25.00182	8.5066838	130.424242	73.060606
## 1479	1994-12-02	3.6601378	25.18093	8.0179261	159.030303	67.757576
## 1480	1994-12-03	3.5685071	25.67289	5.7380022	85.570707	49.628788
## 1481	1994-12-04	3.4768763	25.63628	5.8483545	12.111111	31.500000
## 1482	1994-12-05	3.3852456	25.59967	5.9587069	967.090909	2833.272727
## 1483	1994-12-06	3.2936148	25.56306	6.0690593	614.333333	2885.000000
## 1484	1994-12-07	3.2019841	25.52645	6.1794116	5.777778	3.777778
## 1485	1994-12-08	3.1103533	25.48984	6.2897640	13.161290	37.161290
## 1486	1994-12-09	2.5972911	25.79730	5.0872251	22.977778	297.288889
## 1487	1994-12-10	3.3304072	25.05303	7.8484213	2.666667	6.000000
## 1488	1994-12-11	4.0635233	25.07531	7.8838370	6.000000	34.000000
## 1489	1994-12-12	4.7966394	25.09758	7.9192528	41.000000	67.000000
## 1490	1994-12-13	5.5297556	25.11986	7.9546686	13.388889	86.277778
## 1491	1994-12-14	6.2628717	25.14213	7.9900843	24.545455	25.454545
## 1492	1994-12-15	6.9959878	25.16441	8.0255001	200.000000	60.000000
## 1493	1994-12-16	7.7291039	25.18669	8.0609159	3.333333	5.500000
## 1494	1994-12-17	8.4622200	25.20896	8.0963317	22.444444	6.666667
## 1495	1994-12-18	8.9659770	25.26411	7.5525864	98.821429	169.535714
## 1496	1994-12-19	9.4697341	25.52614	6.3242642	3.142857	5.238095
## 1497	1994-12-20	9.9734911	25.83738	4.8689561	3.265873	19.007937
## 1498	1994-12-21	10.4772481	25.81200	5.1961877	3.388889	32.777778
## 1499	1994-12-22	10.9810052	25.78662	5.5234193	10.893617	26.723404
## 1500	1994-12-23	11.4847622	25.76124	5.8506508	40.000000	26.000000
## 1501	1994-12-24	11.9885193	25.73586	6.1778824	12.451613	279.483871
## 1502	1994-12-25	12.4922763	25.84801	4.9706430	9.165200	149.863148

##	1503	1994-12-26	12.9960333	25.19712	9.0058163	5.878788	20.242424
##	1504	1994-12-27	12.5614391	25.20482	8.5248482	2.000000	2.000000
##	1505	1994-12-28	12.1268448	25.21253	8.0438801	2.111111	10.388889
##	1506	1994-12-29	11.6922505	25.22023	7.5629121	2.000000	3.444444
##	1507	1994-12-30	11.2576562	25.22794	7.0819440	35.454545	26.000000
##	1508	1994-12-31	10.8230620	25.23564	6.6009759	40.000000	58.000000
##	1509	1995-01-01	10.3884677	25.24335	6.1200079	11.288889	320.844444
##	1510	1995-01-02	9.9538734	25.23142	6.4926585	4.068966	4.896552
##	1511	1995-01-03	9.5192791	25.25422	5.9333681	2.333333	2.266667
##	1512	1995-01-04	9.0846848	25.43613	6.7504618	6.888889	14.244444
##	1513	1995-01-05	9.0846848	25.61368	5.5881975	11.444444	26.222222
##	1514	1995-01-06	9.0846848	25.79123	4.4259332	7.090909	11.090909
##	1515	1995-01-07	9.0846848	25.77708	4.8348534	2.577778	21.688889
##	1516	1995-01-08	9.0846848	25.76293	5.2437735	2.645161	5.548387
##	1517	1995-01-09	9.0846848	25.84509	4.8149919	14.892857	207.714286
##	1518	1995-01-10	9.0846848	25.56779	7.0849279	2.518519	2.888889
##	1519	1995-01-11	9.0846848	25.55133	7.0431197	2.444444	5.333333
##	1520	1995-01-12	9.0846848	25.53487	7.0013114	30.340426	173.063830
##	1521	1995-01-13	9.0846848	25.51842	6.9595031	133.000000	312.000000
##	1522	1995-01-14	9.0846848	25.50196	6.9176949	8.222222	18.222222
##	1523	1995-01-15	9.0846848	25.48550	6.8758866	6.936170	11.404255
##	1524	1995-01-16	9.0846848	25.46904	6.8340783	2.500000	3.333333
##	1525	1995-01-17	9.0846848	25.45259	6.7922701	6.888889	7.777778
##	1526	1995-01-18	9.0846848	25.43613	6.7504618	2.000000	4.888889
##	1527	1995-01-19	8.9938543	25.35828	6.8991260	11.642857	98.785714
##	1528	1995-01-20	8.9030237	25.40862	6.7309025	2.476190	3.238095
##	1529	1995-01-21	8.8121931	25.83448	4.8334305	2.960317	2.896825
##	1530	1995-01-22	8.7213626	25.63364	5.5405133	3.444444	2.555556
##	1531	1995-01-23	8.6305320	25.43281	6.2475961	3.600000	16.050000
##	1532	1995-01-24	8.5397014	25.69458	5.2633891	28.607143	743.107143
##	1533	1995-01-25	8.4488708	25.04280	8.4871433	2.000000	2.740741
##	1534	1995-01-26	8.2423745	25.04751	8.3440204	69.100000	93.800000
##	1535	1995-01-27	8.0358781	25.05221	8.2008975	2.000000	3.055556
##	1536	1995-01-28	7.8293818	25.05692	8.0577746	7.636364	11.272727
##	1537	1995-01-29	7.6228854	25.06163	7.9146517	4.222222	9.111111
##	1538	1995-01-30	7.4163890	25.06633	7.7715288	2.000000	2.277778
##	1539	1995-01-31	7.2098927	25.07104	7.6284059	2.000000	8.000000
##	1540	1995-02-01	7.0033963	25.07575	7.4852830	35.172414	11.310345
##	1541	1995-02-02	6.7969000	24.85794	7.8787881	5.703704	29.925926
##	1542	1995-02-03	6.5904036	24.82943	7.5639400	2.000000	3.714286
##	1543	1995-02-04	6.3839072	25.08348	6.6077729	2.000000	2.666667
##	1544	1995-02-05	6.1774109	25.33753	5.6516058	78.321429	662.928571
##	1545	1995-02-06	5.9709145	24.95399	6.6140394	37.225806	339.096774
##	1546	1995-02-07	5.7644182	24.53445	6.4556348	2.000000	2.000000
##	1547	1995-02-08	5.5579218	24.73807	6.2972303	4.000000	5.777778
##	1548	1995-02-09	5.3514254	24.94169	6.1388257	13.090909	16.363636
##	1549	1995-02-10	5.1449291	25.14531	5.9804212	27.111111	319.111111
##	1550	1995-02-11	4.9384327	25.34892	5.8220166	2.000000	2.000000
##	1551	1995-02-12	4.7319364	25.29693	5.9430868	2.468085	4.680851
##	1552	1995-02-13	4.5254400	25.24494	6.0641570	4.166667	4.277778
##	1553	1995-02-14	5.5290285	25.10558	6.4566689	20.444444	9.111111
##	1554	1995-02-15	6.5326170	24.96622	6.8491808	2.055556	2.333333
##	1555	1995-02-16	7.5362055	24.82686	7.2416927	56.727273	535.454545
##	1556	1995-02-17	8.5397939	24.68750	7.6342045	3.185185	2.518519

## 1557	1995-02-18	6.6741269	24.51069	7.2319902	11.535714	48.428571
## 1558	1995-02-19	6.7382046	24.56035	6.9079387	2.000000	2.000000
## 1559	1995-02-20	6.8022822	24.48160	6.7865829	2.111111	5.777778
## 1560	1995-02-21	6.8663599	24.40284	6.6652271	18.500000	95.600000
## 1561	1995-02-22	6.9304375	24.32408	6.5438713	2.444444	6.000000
## 1562	1995-02-23	3.8501226	24.80383	6.4225155	3.225806	21.935484
## 1563	1995-02-24	3.9483123	25.28946	5.2191891	53.377778	765.200000
## 1564	1995-02-25	4.0465019	24.98819	5.2804075	2.055556	4.555556
## 1565	1995-02-26	4.1446916	24.68692	5.3416259	6.181818	3.818182
## 1566	1995-02-27	4.2428813	24.38564	5.4028444	2.000000	2.222222
## 1567	1995-02-28	4.3410710	24.08437	5.4640628	2.388889	4.972222
## 1568	1995-03-01	4.4392606	24.26161	5.7658371	2.777778	7.722222
## 1569	1995-03-02	4.5374503	24.43885	6.0676114	4.909091	6.727273
## 1570	1995-03-03	4.6356400	24.61609	6.3693857	12.177778	50.088889
## 1571	1995-03-04	4.7338297	24.79333	6.6711600	2.000000	6.000000
## 1572	1995-03-05	4.8320194	24.97057	6.9729344	39.875000	19.937500
## 1573	1995-03-06	4.9302090	24.77238	7.2747087	17.155556	318.133333
## 1574	1995-03-07	5.0283987	24.72854	7.1060683	14.000000	62.111111
## 1575	1995-03-08	5.1265884	24.84551	6.9374279	3.777778	2.222222
## 1576	1995-03-09	5.2247781	24.96248	6.7687875	2.000000	2.111111
## 1577	1995-03-10	5.3229677	25.07945	6.6001471	3.806452	52.451613
## 1578	1995-03-11	5.2611964	25.25367	7.4962856	13.714286	381.607143
## 1579	1995-03-12	5.1994250	24.51420	8.3924242	2.000000	2.888889
## 1580	1995-03-13	5.0515272	24.61446	8.2952468	2.333333	7.944444
## 1581	1995-03-14	4.9036293	24.71473	8.1980694	58.888889	6.888889
## 1582	1995-03-15	4.7557315	24.81500	8.1008920	7.243243	24.756757
## 1583	1995-03-16	4.6078336	24.91526	8.0037147	26.000000	177.636364
## 1584	1995-03-17	4.4599358	25.01553	7.9065373	5.111111	6.222222
## 1585	1995-03-18	4.3120380	25.11580	7.8093599	10.737374	5.383838
## 1586	1995-03-19	4.1641401	24.89987	7.7121825	16.363636	4.545455
## 1587	1995-03-20	4.0162423	24.68395	7.6150052	7.277778	11.833333
## 1588	1995-03-21	3.8683444	24.46802	7.5178278	1343.555556	33.111111
## 1589	1995-03-22	4.5243117	24.34115	8.1617003	39.396226	771.283019
## 1590	1995-03-23	5.9892718	24.28404	7.5580564	2.333333	3.066667
## 1591	1995-03-24	5.6533359	25.26590	7.7891915	2.474359	6.482051
## 1592	1995-03-25	5.3174000	24.23263	8.0203267	2.615385	9.897436
## 1593	1995-03-26	5.0342133	24.50442	7.5891609	14.700000	42.100000
## 1594	1995-03-27	4.7510267	24.77620	7.1579951	14.324324	74.891892
## 1595	1995-03-28	4.4678400	25.04798	6.7268294	4.516129	10.258065
## 1596	1995-03-29	4.1846533	25.33931	7.4348666	211.964286	1025.428571
## 1597	1995-03-30	3.9014667	24.65720	8.1429038	10.333333	32.055556
## 1598	1995-03-31	4.2820102	24.65933	8.0903151	6.297872	17.063830
## 1599	1995-04-01	4.6625538	24.66147	8.0377264	28.222222	41.333333
## 1600	1995-04-02	5.0430973	24.66360	7.9851378	2.722222	10.388889
## 1601	1995-04-03	5.4236409	24.66573	7.9325491	263.818182	508.545455
## 1602	1995-04-04	5.8041845	24.66787	7.8799605	10.000000	38.000000
## 1603	1995-04-05	6.1847280	24.67000	7.8273718	3.111111	6.222222
## 1604	1995-04-06	6.5652716	24.67213	7.7747832	5.500000	25.555556
## 1605	1995-04-07	6.9458152	24.67427	7.7221945	2.444444	13.333333
## 1606	1995-04-08	6.5038326	24.58614	7.5397556	8.642857	64.500000
## 1607	1995-04-09	6.0618500	24.89044	7.3573167	16.095238	193.047619
## 1608	1995-04-10	4.2479000	24.55363	7.1748778	3.277778	34.111111
## 1609	1995-04-11	2.4339500	24.21681	6.9924389	487.234043	54.425532
## 1610	1995-04-12	0.6200000	23.88000	6.8100000	244.839243	28.323877

## 1611	1995-04-13	1.5848250	24.56756	7.1375852	2.444444	2.222222
## 1612	1995-04-14	2.5496500	25.25512	7.4651704	3.419355	9.870968
## 1613	1995-04-15	3.5144750	25.44774	7.7927556	250.500000	334.928571
## 1614	1995-04-16	4.4793000	24.99288	8.1203408	2.000000	2.370370
## 1615	1995-04-17	3.9481265	25.21743	7.0190960	2.611111	7.944444
## 1616	1995-04-18	3.4169529	25.44197	5.9178512	31.454545	16.181818
## 1617	1995-04-19	3.9158149	25.37040	6.1994459	3.888889	30.388889
## 1618	1995-04-20	4.4146768	25.29883	6.4810407	10.444444	7.111111
## 1619	1995-04-21	4.9135387	25.22726	6.7626355	6.645161	23.870968
## 1620	1995-04-22	4.3572841	25.35443	6.1861349	79.928571	656.500000
## 1621	1995-04-23	4.5724083	25.02482	7.2912225	6.074074	6.888889
## 1622	1995-04-24	8.0498773	25.15172	7.3210066	4.500000	108.666667
## 1623	1995-04-25	7.9485500	25.11187	7.3441137	4.016667	101.533333
## 1624	1995-04-26	7.9466119	25.10275	7.4269525	3.533333	94.400000
## 1625	1995-04-27	7.9446737	25.19735	7.5097913	4.055556	18.944444
## 1626	1995-04-28	7.9427356	25.29194	7.5926301	4.500000	30.222222
## 1627	1995-04-29	7.9407975	25.38654	7.6754688	4.444444	6.222222
## 1628	1995-04-30	7.9388593	25.48113	7.7583076	32.000000	430.545455
## 1629	1995-05-01	7.9369212	25.57572	7.8411464	17.111111	217.467172
## 1630	1995-05-02	7.9349831	25.34067	7.9239852	2.222222	4.388889
## 1631	1995-05-03	7.9330449	25.10561	8.0068239	5.052632	4.052632
## 1632	1995-05-04	7.9311068	25.00813	7.9289693	3.388889	3.055556
## 1633	1995-05-05	7.1764512	24.90811	7.5982118	2.933333	3.933333
## 1634	1995-05-06	6.4217956	24.96817	7.2674543	3.388889	5.666667
## 1635	1995-05-07	5.6671400	25.02824	6.9366968	8.451613	14.451613
## 1636	1995-05-08	4.9124844	25.19683	6.6059393	13.077658	16.707288
## 1637	1995-05-09	3.7434375	24.94779	7.5647333	17.703704	18.962963
## 1638	1995-05-10	4.6333694	25.16390	7.6096273	347.090909	2507.090909
## 1639	1995-05-11	5.5233014	25.38000	7.6545212	28.808511	128.255319
## 1640	1995-05-12	6.4132333	25.59611	7.6994151	38.978723	164.680851
## 1641	1995-05-13	7.3031653	25.54920	7.7443091	49.148936	201.106383
## 1642	1995-05-14	8.1930972	25.50229	7.7892030	60.400000	1970.000000
## 1643	1995-05-15	9.0830291	25.45539	7.8340969	2.000000	6.000000
## 1644	1995-05-16	9.9729611	25.40848	7.8789909	81.611111	94.333333
## 1645	1995-05-17	10.8628930	25.36157	7.9238848	482.727273	1731.090909
## 1646	1995-05-18	11.7528249	25.31467	7.9687788	1922.000000	3100.800000
## 1647	1995-05-19	12.6427569	25.26776	8.0136727	2.000000	6.222222
## 1648	1995-05-20	13.5326888	25.22085	8.0585666	3.833333	5.166667
## 1649	1995-05-21	14.4226208	25.17395	8.1034606	16.044444	3.644444
## 1650	1995-05-22	9.5592333	25.09894	7.8971050	23.000000	7.384615
## 1651	1995-05-23	8.6907630	25.22652	7.8696809	4.857143	3.047619
## 1652	1995-05-24	7.8222927	25.60051	7.7488286	2.000000	2.000000
## 1653	1995-05-25	6.9538224	25.54960	7.6279763	4.222222	7.000000
## 1654	1995-05-26	6.0853522	25.49869	7.5071240	5404.545455	9363.636364
## 1655	1995-05-27	5.2168819	25.44779	7.3862717	4721.428571	4550.000000
## 1656	1995-05-28	4.3484116	25.39688	7.2654194	29.688889	17.022222
## 1657	1995-05-29	3.4799413	25.34597	7.1445671	39.000000	122.000000
## 1658	1995-05-30	2.6114710	25.29506	7.0237148	75.809524	383.761905
## 1659	1995-05-31	2.5100295	25.53357	6.0804077	30.166667	261.666667
## 1660	1995-06-01	4.2868125	25.20181	7.5002729	6.962963	10.296296
## 1661	1995-06-02	4.6057826	25.18431	7.5590076	2528.481481	1515.564815
## 1662	1995-06-03	4.9247527	25.16681	7.6177423	5050.000000	3020.833333
## 1663	1995-06-04	5.2437227	25.14931	7.6764770	210.000000	74.388889
## 1664	1995-06-05	5.5626928	25.13181	7.7352117	17.555556	5.555556

##	1665	1995-06-06	5.8816629	25.11431	7.7939464	190.000000	262.000000
##	1666	1995-06-07	6.2006330	25.09680	7.8526811	24.044444	349.466667
##	1667	1995-06-08	6.5196030	24.93507	7.9114158	2383.000000	2372.230769
##	1668	1995-06-09	6.5599455	24.97352	7.7232488	77.055556	101.111111
##	1669	1995-06-10	6.6002879	25.01198	7.5350818	20.086957	6.608696
##	1670	1995-06-11	5.4992226	25.23664	6.7099906	31.636364	32.909091
##	1671	1995-06-12	4.3981573	25.46131	5.8848994	2400.000000	9600.000000
##	1672	1995-06-13	3.2970921	25.68598	5.0598081	1202.833333	4806.000000
##	1673	1995-06-14	4.0988990	25.61543	5.2793937	5.666667	12.000000
##	1674	1995-06-15	4.9007060	25.54487	5.4989793	4.222222	3.111111
##	1675	1995-06-16	5.7025129	25.47432	5.7185648	11.612903	27.870968
##	1676	1995-06-17	7.4113815	25.68204	4.8683050	43.357143	565.250000
##	1677	1995-06-18	9.1202500	25.11575	7.2499179	14.733333	407.466667
##	1678	1995-06-19	9.3028821	25.24044	6.7713573	44.363636	613.818182
##	1679	1995-06-20	9.4855141	25.36514	6.2927966	4.166667	9.944444
##	1680	1995-06-21	9.6681462	25.48983	5.8142360	14.444444	46.000000
##	1681	1995-06-22	9.8507783	25.61453	5.3356753	47.224490	165.959184
##	1682	1995-06-23	10.0334104	25.73923	4.8571147	24.778912	84.035147
##	1683	1995-06-24	10.2160424	25.25963	7.0364597	2.333333	2.111111
##	1684	1995-06-25	10.2476617	25.41103	6.8163838	668.000000	694.062500
##	1685	1995-06-26	10.2792811	25.35718	6.5963079	167.125000	459.208333
##	1686	1995-06-27	10.3109004	25.55551	5.7709727	14.055556	36.944444
##	1687	1995-06-28	10.3425197	25.75383	4.9456374	34.967742	127.741935
##	1688	1995-06-29	10.3741390	26.03695	5.6532239	81.630769	667.169231
##	1689	1995-06-30	10.4057583	25.62177	6.3608104	6.962963	11.333333
##	1690	1995-07-01	10.2517791	25.57901	6.4286697	34.166667	14.666667
##	1691	1995-07-02	10.0977999	25.53624	6.4965290	2.000000	2.000000
##	1692	1995-07-03	9.9438206	25.49348	6.5643883	5.818182	107.454545
##	1693	1995-07-04	9.7898414	25.45071	6.6322476	20.000000	84.000000
##	1694	1995-07-05	9.6358622	25.40795	6.7001069	2.611111	10.944444
##	1695	1995-07-06	9.4818829	25.36518	6.7679662	7.454545	6.909091
##	1696	1995-07-07	9.3279037	25.32242	6.8358256	4.000000	4.222222
##	1697	1995-07-08	9.1739245	25.27965	6.9036849	5.277778	37.833333
##	1698	1995-07-09	9.0199452	25.23689	6.9715442	31.818182	16.545455
##	1699	1995-07-10	8.8659660	25.19412	7.0394035	4.888889	12.666667
##	1700	1995-07-11	8.7119868	25.15136	7.1072628	2.000000	7.944444
##	1701	1995-07-12	8.5580075	25.10859	7.1751221	8.488889	152.666667
##	1702	1995-07-13	8.7783545	25.18898	7.0167991	12.689655	7.310345
##	1703	1995-07-14	7.1903438	25.26353	6.8641203	2.095238	2.000000
##	1704	1995-07-15	6.5930152	25.27931	6.5886297	2.000000	2.444444
##	1705	1995-07-16	5.9956866	25.29508	6.3131390	2.444444	4.444444
##	1706	1995-07-17	5.3983581	25.31085	6.0376484	10.000000	36.258065
##	1707	1995-07-18	4.8684364	25.56157	5.4061150	25.785714	446.964286
##	1708	1995-07-19	4.6687542	25.05598	8.0041779	2.370370	4.296296
##	1709	1995-07-20	5.7096391	25.61416	5.4998008	9.518519	5.703704
##	1710	1995-07-21	6.7505240	25.53046	5.9004423	16.666667	7.111111
##	1711	1995-07-22	7.7914089	25.44676	6.3010838	4.000000	5.531915
##	1712	1995-07-23	8.8322938	25.36306	6.7017252	6.277778	372.888889
##	1713	1995-07-24	9.8731787	25.27936	7.1023667	3.000000	4.200000
##	1714	1995-07-25	10.9140636	25.19565	7.5030082	2.555556	3.888889
##	1715	1995-07-26	6.6314970	25.24094	7.0558076	5.312500	4.437500
##	1716	1995-07-27	6.2930518	25.14201	6.8712927	4.400000	22.977778
##	1717	1995-07-28	5.9546066	25.14671	6.6867778	12.611111	53.055556
##	1718	1995-07-29	5.6161614	25.15140	6.5022630	2.133333	3.688889

##	1719	1995-07-30	5.2777162	25.15610	6.3177481	4.545455	31.454545
##	1720	1995-07-31	4.9392710	25.16079	6.1332332	19.870968	104.516129
##	1721	1995-08-01	6.6386626	24.75680	7.0608416	7.000000	4.600000
##	1722	1995-08-02	8.3380542	24.35280	7.9884500	3.111111	6.370370
##	1723	1995-08-03	4.1667214	25.40696	5.6330283	23.511111	941.466667
##	1724	1995-08-04	3.4835485	25.48441	5.4598658	15.505556	472.011111
##	1725	1995-08-05	3.7655154	25.50210	5.4876805	7.500000	2.555556
##	1726	1995-08-06	4.0474823	25.51979	5.5154952	16.000000	48.363636
##	1727	1995-08-07	4.3294492	25.53747	5.5433098	2.000000	2.444444
##	1728	1995-08-08	4.6114161	25.55516	5.5711245	114.727273	199.818182
##	1729	1995-08-09	4.8933830	25.57285	5.5989392	2.666667	3.777778
##	1730	1995-08-10	5.1753499	25.59054	5.6267538	2.500000	5.277778
##	1731	1995-08-11	5.4573168	25.60822	5.6545685	10.696809	6.872931
##	1732	1995-08-12	6.3369962	25.51829	6.0332373	18.893617	8.468085
##	1733	1995-08-13	7.2166755	25.42836	6.4119061	4.444444	9.777778
##	1734	1995-08-14	8.0963548	25.33843	6.7905748	5.741935	27.354839
##	1735	1995-08-15	5.1422511	25.55815	5.6331520	11.071429	399.678571
##	1736	1995-08-16	26.7030333	24.76613	9.5748733	2.666667	7.037037
##	1737	1995-08-17	24.6262576	24.80026	9.1504701	34.000000	117.555556
##	1738	1995-08-18	22.5494818	24.83438	8.7260669	8.000000	2.000000
##	1739	1995-08-19	20.4727061	24.86851	8.3016636	2.111111	2.444444
##	1740	1995-08-20	14.3479195	24.75980	7.9122556	11.861111	169.888889
##	1741	1995-08-21	19.1238705	24.77453	7.8031059	21.611111	337.333333
##	1742	1995-08-22	17.0738092	24.81874	7.6650405	2.777778	2.277778
##	1743	1995-08-23	15.0237480	24.86295	7.5269751	6.444444	5.777778
##	1744	1995-08-24	12.9736867	24.90715	7.3889096	12.833333	90.277778
##	1745	1995-08-25	10.9236255	24.95136	7.2508442	18.545455	6.909091
##	1746	1995-08-26	8.8735643	24.99557	7.1127788	2.444444	5.611111
##	1747	1995-08-27	6.8235030	25.03977	6.9747133	3.777778	2.296296
##	1748	1995-08-28	6.4529364	25.08631	6.9702607	12.000000	31.659574
##	1749	1995-08-29	7.2780952	24.98649	7.1589810	4.800000	31.266667
##	1750	1995-08-30	6.8780233	25.07235	6.8387675	2.833333	6.166667
##	1751	1995-08-31	6.4779514	25.15820	6.5185540	3.722222	2.444444
##	1752	1995-09-01	6.0778795	25.24406	6.1983406	2.700000	3.800000
##	1753	1995-09-02	5.6778075	25.32991	5.8781271	3.350000	18.029032
##	1754	1995-09-03	5.5293459	24.92148	6.4258465	4.000000	32.258065
##	1755	1995-09-04	8.0329875	24.23176	7.1874279	28.157895	18.157895
##	1756	1995-09-05	5.0581244	25.34542	5.9733002	28.555556	336.555556
##	1757	1995-09-06	5.7126399	25.27754	6.2366591	2.000000	2.000000
##	1758	1995-09-07	6.3671554	25.20967	6.5000179	2.545455	4.727273
##	1759	1995-09-08	7.0216708	25.14180	6.7633767	11.444444	5.166667
##	1760	1995-09-09	7.6761863	25.07393	7.0267355	19.777778	17.555556
##	1761	1995-09-10	8.3307018	25.00606	7.2900944	2.000000	6.000000
##	1762	1995-09-11	8.9852172	24.93819	7.5534532	4.000000	3.636364
##	1763	1995-09-12	9.6397327	24.87032	7.8168120	11.555556	12.444444
##	1764	1995-09-13	10.2942482	24.80244	8.0801709	2.500000	4.611111
##	1765	1995-09-14	10.9487636	24.73457	8.3435297	2.888889	12.111111
##	1766	1995-09-15	10.5602381	25.01580	7.7040707	7.466667	44.200000
##	1767	1995-09-16	9.9513747	25.06376	7.5328589	4.500000	3.888889
##	1768	1995-09-17	9.3425114	25.11172	7.3616470	4.500000	66.666667
##	1769	1995-09-18	7.4225702	25.09162	6.8305156	11.777778	22.666667
##	1770	1995-09-19	5.5026290	25.07151	6.2993842	23.548387	268.064516
##	1771	1995-09-20	10.6365375	24.64760	7.7240521	12.052632	45.473684
##	1772	1995-09-21	4.8968200	25.35855	5.8611524	52.000000	771.911111

##	1773	1995-09-22	5.1802605	25.44145	5.6224550	2.666667	2.888889
##	1774	1995-09-23	5.4637010	25.52434	5.3837575	2.787879	2.717172
##	1775	1995-09-24	6.1733394	25.35363	6.0139714	2.909091	2.545455
##	1776	1995-09-25	6.8829778	25.18291	6.6441853	2.000000	2.333333
##	1777	1995-09-26	7.5926162	25.01219	7.2743992	3.333333	2.055556
##	1778	1995-09-27	8.3022545	24.84148	7.9046130	8.645833	4.486111
##	1779	1995-09-28	8.0128386	24.64807	8.0163166	13.958333	6.916667
##	1780	1995-09-29	7.2518000	24.66479	7.8346402	20.533333	59.533333
##	1781	1995-09-30	6.7231008	24.73861	7.5079305	9.111111	93.611111
##	1782	1995-10-01	6.1944016	24.81244	7.1812208	6.400000	28.600000
##	1783	1995-10-02	5.6657024	24.88626	6.8545110	2.944444	11.166667
##	1784	1995-10-03	5.1370032	24.96008	6.5278013	5.354839	39.290323
##	1785	1995-10-04	9.1804542	24.56856	7.2445917	15.052632	26.736842
##	1786	1995-10-05	8.6567762	24.72505	6.4755823	4.888889	15.555556
##	1787	1995-10-06	8.1330982	24.88153	5.7065729	25.466667	419.911111
##	1788	1995-10-07	7.6094203	25.03802	5.6474687	2.000000	2.000000
##	1789	1995-10-08	7.0857423	25.19451	5.5883644	5.636364	129.636364
##	1790	1995-10-09	6.5620644	25.35100	5.5292602	2.000000	2.444444
##	1791	1995-10-10	7.6497012	25.26249	5.9919335	8.545455	8.545455
##	1792	1995-10-11	8.7373380	25.17399	6.4546068	2.277778	11.055556
##	1793	1995-10-12	9.8249748	25.08548	6.9172801	3.388889	7.722222
##	1794	1995-10-13	10.9126117	24.99698	7.3799534	2.611111	5.333333
##	1795	1995-10-14	12.0002485	24.90848	7.8426267	81.724138	359.448276
##	1796	1995-10-15	10.1886727	24.90749	7.8490673	30.789474	613.105263
##	1797	1995-10-16	7.3018119	24.91360	7.7922048	2.266667	13.933333
##	1798	1995-10-17	7.3324141	25.37398	5.7781821	2.666667	11.555556
##	1799	1995-10-18	5.3034129	25.06903	6.8719584	27.619048	45.571429
##	1800	1995-10-19	6.7189708	24.83469	7.2020325	5.629630	6.518519
##	1801	1995-10-20	0.7200000	23.88100	6.7900000	19.348148	268.459259
##	1802	1995-10-21	4.9806956	25.34418	5.8001376	33.066667	530.400000
##	1803	1995-10-22	5.3204780	25.31808	5.9962685	6.833333	27.166667
##	1804	1995-10-23	5.6602605	25.29199	6.1923995	26.000000	31.272727
##	1805	1995-10-24	6.00000430	25.26590	6.3885305	11.555556	2.888889
##	1806	1995-10-25	6.3398255	25.23980	6.5846614	15.276596	128.893617
##	1807	1995-10-26	6.6796080	25.21371	6.7807924	36.000000	36.000000
##	1808	1995-10-27	7.0193905	25.18762	6.9769234	871.272727	84.000000
##	1809	1995-10-28	7.3591730	25.16152	7.1730544	3.055556	9.444444
##	1810	1995-10-29	7.6989555	25.13543	7.3691853	2.888889	6.444444
##	1811	1995-10-30	8.0387380	25.10934	7.5653163	9.957447	6.510638
##	1812	1995-10-31	8.3785205	25.08324	7.7614473	22.944444	148.444444
##	1813	1995-11-01	11.6486303	25.08554	7.7497815	2.111111	10.000000
##	1814	1995-11-02	8.4714667	25.07515	7.7971452	8.333333	7.733333
##	1815	1995-11-03	6.1791645	25.25078	6.7051381	48.193548	269.612903
##	1816	1995-11-04	5.7560614	25.38723	6.3294814	28.750000	543.500000
##	1817	1995-11-05	7.0688417	25.09216	7.6022063	3.777778	2.592593
##	1818	1995-11-06	4.9637980	25.49981	5.5610288	3.000000	2.962963
##	1819	1995-11-07	4.7792498	25.45023	5.8894517	2.222222	3.333333
##	1820	1995-11-08	4.5947016	25.40064	6.2178745	7.272727	11.090909
##	1821	1995-11-09	4.4101534	25.35106	6.5462974	211.111111	14.000000
##	1822	1995-11-10	4.2256052	25.30147	6.8747202	10.333333	12.500000
##	1823	1995-11-11	4.0410570	25.25188	7.2031431	8.085106	7.063830
##	1824	1995-11-12	3.8565088	25.20230	7.5315659	5.777778	19.444444
##	1825	1995-11-13	3.6719606	25.15271	7.8599888	2.666667	4.666667
##	1826	1995-11-14	3.5954517	25.14323	7.6857456	17.100000	9.500000

##	1827	1995-11-15	3.5189429	25.13375	7.5115024	2.733333	3.600000
##	1828	1995-11-16	3.5760250	25.14012	7.7129750	5.055556	203.055556
##	1829	1995-11-17	1.7246419	25.28593	6.7967187	22.193548	88.516129
##	1830	1995-11-18	1.5363743	25.33453	6.6288966	17.454545	104.000000
##	1831	1995-11-19	1.3481067	25.38312	6.4610744	70.800000	593.288889
##	1832	1995-11-20	6.4727458	25.06673	7.2018183	2.222222	6.518519
##	1833	1995-11-21	4.7838216	25.45663	5.8856703	60.020202	81.895623
##	1834	1995-11-22	4.5891738	25.45330	6.0146669	117.818182	157.272727
##	1835	1995-11-23	4.3945260	25.44997	6.1436636	2.444444	5.111111
##	1836	1995-11-24	4.1998783	25.44664	6.2726602	3.000000	9.055556
##	1837	1995-11-25	4.0052305	25.44331	6.4016568	2.611111	3.388889
##	1838	1995-11-26	3.8105827	25.43998	6.5306534	73.818182	182.727273
##	1839	1995-11-27	3.6159349	25.43665	6.6596501	775.000000	2425.000000
##	1840	1995-11-28	3.4212872	25.43332	6.7886467	6.500000	34.444444
##	1841	1995-11-29	3.2266394	25.42999	6.9176433	2.555556	4.444444
##	1842	1995-11-30	3.2617068	25.46185	6.8409927	66.444444	585.000000
##	1843	1995-12-01	4.2056786	25.31258	7.3360805	4.878049	4.487805
##	1844	1995-12-02	3.5739416	25.34235	7.2355177	2.444444	3.555556
##	1845	1995-12-03	2.9422047	25.37211	7.1349550	4.444444	16.333333
##	1846	1995-12-04	2.3104677	25.40187	7.0343923	4.709677	10.064516
##	1847	1995-12-05	3.1143333	25.20095	7.7791617	8.789474	28.315789
##	1848	1995-12-06	1.7916489	25.50995	6.0520818	101.777778	915.688889
##	1849	1995-12-07	1.2790500	25.64343	5.5810273	1114.909091	1226.545455
##	1850	1995-12-08	1.2824643	25.61923	5.6796633	5.052632	20.578947
##	1851	1995-12-09	1.2858786	25.59503	5.7782993	2.666667	3.555556
##	1852	1995-12-10	1.2892929	25.57084	5.8769353	3.555556	10.500000
##	1853	1995-12-11	1.2927073	25.54664	5.9755714	22.181818	13.818182
##	1854	1995-12-12	1.2961216	25.52244	6.0742074	6.944444	40.444444
##	1855	1995-12-13	1.2995359	25.49825	6.1728434	3.574468	6.042553
##	1856	1995-12-14	1.3029502	25.47405	6.2714795	3.555556	6.222222
##	1857	1995-12-15	1.3063645	25.44985	6.3701155	18.645161	53.870968
##	1858	1995-12-16	1.0657467	25.69097	5.3654713	10.507766	28.713262
##	1859	1995-12-17	3.1278167	25.14899	7.7300675	2.370370	3.555556
##	1860	1995-12-18	2.6215212	25.67150	6.2218348	2.000000	3.888889
##	1861	1995-12-19	1.9239488	25.71547	5.7180205	324.682927	571.121951
##	1862	1995-12-20	3.4126409	25.71515	5.7940066	25.794872	678.923077
##	1863	1995-12-21	2.9651677	25.74232	5.7688012	2.500000	4.111111
##	1864	1995-12-22	2.5176945	25.76948	5.7435959	3.822222	12.311111
##	1865	1995-12-23	2.0702212	25.79665	5.7183905	8.545455	4.000000
##	1866	1995-12-24	1.6227480	25.82382	5.6931852	6.376176	4.689655
##	1867	1995-12-25	5.5469515	25.47401	7.0189215	4.206897	5.379310
##	1868	1995-12-26	6.1911023	25.38974	7.4713058	2.888889	16.611111
##	1869	1995-12-27	4.5899643	25.36739	6.9578824	2.533333	43.266667
##	1870	1995-12-28	3.8833128	25.43867	6.6471883	2.055556	2.555556
##	1871	1995-12-29	3.1766612	25.50994	6.3364942	3.333333	16.222222
##	1872	1995-12-30	2.4700097	25.58122	6.0258002	13.833333	2.333333
##	1873	1995-12-31	1.7633582	25.65250	5.7151061	2.777778	5.111111
##	1874	1996-01-01	1.0567067	25.72378	5.4044120	49.071429	411.107143
##	1875	1996-01-02	2.4843167	24.89156	8.4580829	4.740741	10.888889
##	1876	1996-01-03	1.5195161	25.48392	6.1329374	5.354839	16.000000
##	1877	1996-01-04	1.3241161	25.63533	5.5732592	6.888889	28.000000
##	1878	1996-01-05	1.1287160	25.78674	5.0135809	3.200000	6.000000
##	1879	1996-01-06	1.7530088	25.76497	5.2456286	10.638298	89.872340
##	1880	1996-01-07	2.3773015	25.74321	5.4776763	6.545455	13.636364

##	1881	1996-01-08	3.0015943	25.72145	5.7097239	3.277778	4.111111
##	1882	1996-01-09	3.6258871	25.69968	5.9417716	5.419355	5.548387
##	1883	1996-01-10	1.4285644	25.88729	4.6927264	230.285714	1847.928571
##	1884	1996-01-11	7.9166500	25.15400	7.7259408	2.000000	2.000000
##	1885	1996-01-12	7.2152624	25.16677	7.6329183	4.666667	2.222222
##	1886	1996-01-13	6.5138749	25.17954	7.5398957	5.166667	22.777778
##	1887	1996-01-14	5.8124873	25.19231	7.4468732	10.545455	9.818182
##	1888	1996-01-15	5.1110998	25.20507	7.3538506	2.000000	4.222222
##	1889	1996-01-16	4.4097122	25.21784	7.2608280	35.066667	264.400000
##	1890	1996-01-17	5.0494606	25.47282	6.5712185	2.551724	2.551724
##	1891	1996-01-18	4.0834773	25.58643	5.0139050	2.055556	2.722222
##	1892	1996-01-19	3.3034105	25.63987	4.6462681	4.888889	6.833333
##	1893	1996-01-20	2.5233438	25.69331	4.2786313	5.777778	9.111111
##	1894	1996-01-21	1.7432771	25.74675	3.9109944	27.454545	18.181818
##	1895	1996-01-22	1.7943890	25.61614	4.7161845	2.055556	2.000000
##	1896	1996-01-23	1.8455010	25.48552	5.5213747	3.333333	2.000000
##	1897	1996-01-24	1.8966129	25.35490	6.3265648	11.096774	74.709677
##	1898	1996-01-25	0.8946227	25.66776	5.3938293	442.714286	2088.357143
##	1899	1996-01-26	4.8811500	25.02583	6.7894017	3.333333	6.148148
##	1900	1996-01-27	5.0955735	24.92591	7.1054633	2.444444	3.555556
##	1901	1996-01-28	5.3099970	24.82600	7.4215249	5.191489	6.553191
##	1902	1996-01-29	5.5244205	24.72608	7.7375866	485.555556	1011.500000
##	1903	1996-01-30	6.2826545	24.76301	7.7645036	2.333333	11.555556
##	1904	1996-01-31	3.9083119	25.19494	6.9350707	3.133333	11.933333
##	1905	1996-02-01	3.1381663	25.30211	6.4432093	3.900000	2.800000
##	1906	1996-02-02	2.3680207	25.40928	5.9513479	2.000000	2.888889
##	1907	1996-02-03	1.5978750	25.51645	5.4594865	7.944444	27.000000
##	1908	1996-02-04	0.8277294	25.62362	4.9676251	3.818182	4.909091
##	1909	1996-02-05	4.2451630	25.45298	5.9828578	4.666667	3.777778
##	1910	1996-02-06	7.6625967	25.28235	6.9980906	4.444444	11.500000
##	1911	1996-02-07	11.0800303	25.11171	8.0133233	3.000000	6.555556
##	1912	1996-02-08	5.5216341	25.05562	8.0644880	3.712121	4.459596
##	1913	1996-02-09	5.7474222	25.03123	8.0971022	4.424242	2.363636
##	1914	1996-02-10	4.6688022	25.05850	7.6430012	3.111111	2.000000
##	1915	1996-02-11	3.5901821	25.08577	7.1889001	2.277778	3.222222
##	1916	1996-02-12	2.5115620	25.11304	6.7347991	2.444444	4.000000
##	1917	1996-02-13	1.4329419	25.14031	6.2806981	12.064516	51.806452
##	1918	1996-02-14	3.6301875	24.48828	8.2288783	54.321147	423.903226
##	1919	1996-02-15	1.2695289	25.44432	5.5280916	96.577778	796.000000
##	1920	1996-02-16	1.4426317	25.45465	5.4607079	3.000000	16.333333
##	1921	1996-02-17	1.6157345	25.46497	5.3933242	4.444444	6.000000
##	1922	1996-02-18	1.7888373	25.47530	5.3259405	2.388889	3.055556
##	1923	1996-02-19	1.9619401	25.48563	5.2585568	4.222222	3.555556
##	1924	1996-02-20	2.1350429	25.49596	5.1911732	6.888889	17.388889
##	1925	1996-02-21	3.8376352	25.45052	5.9121773	9.555556	31.222222
##	1926	1996-02-22	5.5402275	25.40508	6.6331814	23.555556	11.000000
##	1927	1996-02-23	7.2428198	25.35964	7.3541856	4.000000	5.888889
##	1928	1996-02-24	8.9454121	25.31420	8.0751897	5.851852	15.407407
##	1929	1996-02-25	9.1820818	25.25016	8.4336055	3.992593	8.837037
##	1930	1996-02-26	5.6060488	25.22334	7.6419759	2.133333	2.266667
##	1931	1996-02-27	1.8960387	25.09677	5.9103542	4.709677	10.967742
##	1932	1996-02-28	4.6301042	24.75904	7.7266350	29.361702	73.319149
##	1933	1996-02-29	0.6109489	25.45027	5.0562411	204.311111	1773.244444
##	1934	1996-03-01	0.6622955	25.46259	4.9786535	14.181818	4.181818

##	1935	1996-03-02	0.7136421	25.47490	4.9010659	3.022222	3.022222
##	1936	1996-03-03	0.7649887	25.48721	4.8234783	6.722222	6.000000
##	1937	1996-03-04	0.8163353	25.49952	4.7458908	17.636364	12.727273
##	1938	1996-03-05	0.8676818	25.51183	4.6683032	2.222222	3.111111
##	1939	1996-03-06	0.9190284	25.52415	4.5907156	4.076628	2.727969
##	1940	1996-03-07	5.7122667	24.77158	7.7469752	5.931034	2.344828
##	1941	1996-03-08	4.2474684	24.65737	7.4699066	4.133333	9.266667
##	1942	1996-03-09	8.1299867	24.58123	7.6669324	257.444444	594.722222
##	1943	1996-03-10	4.8356272	24.78624	6.8519464	5.422222	5.733333
##	1944	1996-03-11	1.5412677	24.99124	6.0369603	13.666667	82.333333
##	1945	1996-03-12	1.3386907	25.27893	5.4178084	7.644444	225.111111
##	1946	1996-03-13	1.2845542	24.14867	7.2712246	2.000000	2.592593
##	1947	1996-03-14	1.2580894	24.34761	6.9079030	9.777778	2.888889
##	1948	1996-03-15	1.2316247	24.54655	6.5445813	4.222222	10.055556
##	1949	1996-03-16	1.2051599	24.74549	6.1812597	5.636364	4.363636
##	1950	1996-03-17	1.1786952	24.94443	5.8179381	10.888889	22.444444
##	1951	1996-03-18	1.1522304	25.14337	5.4546164	13.636364	10.363636
##	1952	1996-03-19	1.1257657	25.34231	5.0912948	7.818182	6.181818
##	1953	1996-03-20	2.9093118	25.14393	5.8653882	2.000000	2.000000
##	1954	1996-03-21	4.6928580	24.94555	6.6394816	2.000000	2.311111
##	1955	1996-03-22	6.4764042	24.74717	7.4135750	4.275862	4.827586
##	1956	1996-03-23	5.0710800	24.84936	7.5153638	147.722222	367.666667
##	1957	1996-03-24	3.1541905	24.88554	7.3477019	2.000000	2.000000
##	1958	1996-03-25	2.1643778	25.06797	6.5459922	2.444444	4.277778
##	1959	1996-03-26	2.1719534	25.06736	6.5437784	2.111111	2.055556
##	1960	1996-03-27	2.1795290	25.06676	6.5415645	5.225806	18.129032
##	1961	1996-03-28	1.4904791	25.29897	5.9745467	55.642857	958.071429
##	1962	1996-03-29	3.2715292	24.81784	6.8795725	3.611111	5.333333
##	1963	1996-03-30	2.6299184	24.94968	6.4364640	18.181818	8.909091
##	1964	1996-03-31	1.9883077	25.08153	5.9933555	4.800000	6.711111
##	1965	1996-04-01	1.3466969	25.21337	5.5502469	2.765957	20.893617
##	1966	1996-04-02	0.7050861	25.34521	5.1071384	5.160757	16.891253
##	1967	1996-04-03	1.2982479	25.21452	5.6170481	7.555556	12.888889
##	1968	1996-04-04	1.8914097	25.08383	6.1269578	2.000000	2.555556
##	1969	1996-04-05	2.4845715	24.95314	6.6368675	2.000000	5.277778
##	1970	1996-04-06	3.0777333	24.82245	7.1467771	103.317073	31.219512
##	1971	1996-04-07	3.6141133	24.83610	7.3292331	266.166667	672.777778
##	1972	1996-04-08	4.0425879	24.91302	7.2398809	2.222222	2.777778
##	1973	1996-04-09	1.6628613	25.07454	6.2107442	21.714286	145.714286
##	1974	1996-04-10	1.5182292	24.68932	6.5024054	3.407407	9.333333
##	1975	1996-04-11	1.2131727	25.24272	5.4875270	135.733333	1403.244444
##	1976	1996-04-12	0.8600000	23.88500	6.7500000	72.088889	707.733333
##	1977	1996-04-13	0.8539257	24.20299	6.4031708	8.444444	12.222222
##	1978	1996-04-14	0.8478515	24.52097	6.0563416	42.363636	22.545455
##	1979	1996-04-15	0.8417772	24.83896	5.7095124	2.000000	2.000000
##	1980	1996-04-16	0.8357029	25.15694	5.3626832	2.106383	2.425532
##	1981	1996-04-17	1.1952444	25.01048	5.7350608	2.212766	2.851064
##	1982	1996-04-18	1.5547859	24.86403	6.1074384	3.555556	6.666667
##	1983	1996-04-19	1.9143274	24.71757	6.4798160	2.777778	4.111111
##	1984	1996-04-20	2.2738689	24.57111	6.8521936	83.574468	342.893617
##	1985	1996-04-21	2.9156545	24.61064	6.9584142	2.000000	2.000000
##	1986	1996-04-22	1.9946929	24.61820	6.7620931	4.200000	7.333333
##	1987	1996-04-23	1.2444871	24.90545	5.9882945	9.225806	42.193548
##	1988	1996-04-24	3.0939208	24.55917	6.5750400	3.473684	5.315789

##	1989	1996-04-25	1.0343200	25.16714	5.2348420	46.311111	512.133333
##	1990	1996-04-26	1.0524251	25.17748	5.2305709	56.444444	12.222222
##	1991	1996-04-27	1.0705302	25.18783	5.2262998	280.181818	483.272727
##	1992	1996-04-28	1.0886353	25.19817	5.2220288	6000.000000	12000.000000
##	1993	1996-04-29	1.1067404	25.20852	5.2177577	3020.833333	6035.305556
##	1994	1996-04-30	1.4710573	25.16868	5.4456832	41.666667	70.611111
##	1995	1996-05-01	1.8353742	25.12885	5.6736086	50.000000	160.800000
##	1996	1996-05-02	2.1996912	25.08901	5.9015341	3016.500000	3069.500000
##	1997	1996-05-03	2.5640081	25.04918	6.1294596	2.444444	7.722222
##	1998	1996-05-04	2.9283250	25.00934	6.3573851	61.882353	351.647059
##	1999	1996-05-05	3.2926419	24.96951	6.5853106	270.000000	3100.000000
##	2000	1996-05-06	3.6569588	24.92967	6.8132360	3.666667	6.888889
##	2001	1996-05-07	4.0212758	24.88984	7.0411615	6.111111	49.666667
##	2002	1996-05-08	3.6786391	24.84925	7.0738331	58.545455	45.818182
##	2003	1996-05-09	3.3360024	24.80867	7.1065048	17.866667	58.066667
##	2004	1996-05-10	3.5297000	24.76806	7.2612862	23.944444	87.666667
##	2005	1996-05-11	2.4902323	24.90791	6.7571820	2.666667	4.500000
##	2006	1996-05-12	1.4507645	25.04775	6.2530777	9.047619	44.904762
##	2007	1996-05-13	1.1270659	25.22805	5.7042439	19.407407	561.000000
##	2008	1996-05-14	1.4415542	24.90697	6.8948179	8.074074	57.555556
##	2009	1996-05-15	1.3162890	24.97387	6.6178287	296.545455	66.727273
##	2010	1996-05-16	1.1910239	25.04076	6.3408395	2.944444	6.388889
##	2011	1996-05-17	1.0657587	25.10765	6.0638503	4.833333	13.777778
##	2012	1996-05-18	0.9404936	25.17454	5.7868612	6.545455	7.090909
##	2013	1996-05-19	0.8152284	25.24143	5.5098720	5.828283	4.878788
##	2014	1996-05-20	1.4800691	25.12079	6.0502717	5.111111	2.666667
##	2015	1996-05-21	2.1449097	25.00014	6.5906714	2.000000	2.000000
##	2016	1996-05-22	2.8097503	24.87950	7.1310712	13.702128	36.851064
##	2017	1996-05-23	3.4745909	24.75885	7.6714709	2.000000	2.000000
##	2018	1996-05-24	4.0393432	24.76099	7.8783402	79.000000	432.500000
##	2019	1996-05-25	2.3875500	24.76115	7.7204505	2.533333	3.400000
##	2020	1996-05-26	1.5748619	25.13593	6.3254143	648.424242	1146.000000
##	2021	1996-05-27	1.4558895	24.91192	6.9230316	296.695652	1219.217391
##	2022	1996-05-28	1.6094250	24.60423	7.6801128	4.615385	12.923077
##	2023	1996-05-29	1.6336955	24.80289	7.1106441	824.500000	735.812500
##	2024	1996-05-30	1.3817802	24.92678	6.7818457	230.500000	122.000000
##	2025	1996-05-31	1.1298649	25.05068	6.4530473	74.341463	346.731707
##	2026	1996-06-01	0.8779496	25.17458	6.1242490	36.000000	3.000000
##	2027	1996-06-02	0.6260343	25.29848	5.7954506	20.611111	4.444444
##	2028	1996-06-03	1.0428406	25.26973	5.9034182	5.222222	5.888889
##	2029	1996-06-04	1.4596468	25.24098	6.0113858	8400.000000	8520.000000
##	2030	1996-06-05	1.8764531	25.21222	6.1193534	50.133333	48.000000
##	2031	1996-06-06	2.2932594	25.18347	6.2273210	22.000000	14.000000
##	2032	1996-06-07	2.7100656	25.15472	6.3352886	107.090909	557.090909
##	2033	1996-06-08	3.1268719	25.12597	6.4432562	315.200000	2047.200000
##	2034	1996-06-09	3.5436782	25.09721	6.5512238	20.333333	31.833333
##	2035	1996-06-10	3.9604844	25.06846	6.6591915	500.000000	3000.000000
##	2036	1996-06-11	4.3772907	25.03971	6.7671591	5.277778	6.222222
##	2037	1996-06-12	4.7940970	25.01096	6.8751267	2.666667	2.222222
##	2038	1996-06-13	3.2872881	25.09920	6.5688729	298.243902	341.414634
##	2039	1996-06-14	5.0990273	24.97055	7.2934991	366.307692	1577.743590
##	2040	1996-06-15	0.6048882	25.59211	4.0651052	1034.376068	1766.316239
##	2041	1996-06-16	0.7395193	25.48902	4.2960522	1702.444444	1954.888889
##	2042	1996-06-17	0.8741504	25.38593	4.5269993	658.666667	550.000000

## 2043	1996-06-18	1.0087814	25.28284	4.7579463	439.272727	407.090909
## 2044	1996-06-19	1.1434125	25.17975	4.9888933	28.785714	96.071429
## 2045	1996-06-20	1.9112710	25.50793	5.1544826	13.096774	64.129032
## 2046	1996-06-21	1.6531187	25.78419	4.1924359	129.000000	805.625000
## 2047	1996-06-22	1.4125923	25.74264	3.6646469	47.866667	232.933333
## 2048	1996-06-23	3.1031653	25.57977	4.5734311	808.666667	4017.333333
## 2049	1996-06-24	4.7937384	25.41691	5.4822154	2.000000	2.222222
## 2050	1996-06-25	6.4843114	25.25405	6.3909996	3.872340	9.787234
## 2051	1996-06-26	8.1748844	25.09118	7.2997838	31.722222	99.166667
## 2052	1996-06-27	7.3612667	25.24249	7.2210206	7.111111	78.222222
## 2053	1996-06-28	4.8538571	25.35696	6.5550140	33.800000	165.666667
## 2054	1996-06-29	2.8080516	25.62383	5.0709365	25.419355	134.064516
## 2055	1996-06-30	1.8441488	25.80588	4.2682244	65.250000	601.214286
## 2056	1996-07-01	4.7600583	25.24538	6.0778967	5.703704	29.185185
## 2057	1996-07-02	4.3584197	25.31845	5.7577225	2241.300000	2762.500000
## 2058	1996-07-03	3.9567810	25.39151	5.4375484	619.000000	3050.000000
## 2059	1996-07-04	3.5551423	25.46458	5.1173743	16.944444	344.222222
## 2060	1996-07-05	3.1535036	25.53764	4.7972002	2.000000	2.500000
## 2061	1996-07-06	2.7518650	25.61070	4.4770260	383.636364	1593.454545
## 2062	1996-07-07	2.3502263	25.68377	4.1568519	414.666667	4002.666667
## 2063	1996-07-08	1.9485876	25.75683	3.8366778	8.500000	38.333333
## 2064	1996-07-09	1.5469489	25.82990	3.5165036	5.111111	15.166667
## 2065	1996-07-10	1.1453102	25.90296	3.1963295	12.000000	4.909091
## 2066	1996-07-11	0.7436716	25.97602	2.8761554	7.138889	6.204545
## 2067	1996-07-12	4.6440507	25.72643	4.5187476	2.277778	7.500000
## 2068	1996-07-13	8.5444299	25.47683	6.1613399	3.000000	15.722222
## 2069	1996-07-14	12.4448091	25.22723	7.8039321	5.000000	22.333333
## 2070	1996-07-15	8.3862841	25.15373	7.6324493	64.085106	648.000000
## 2071	1996-07-16	4.1722976	25.27272	6.7648986	345.111111	832.833333
## 2072	1996-07-17	2.6409488	25.82653	4.4502465	176.974910	439.287634
## 2073	1996-07-18	2.2674839	25.51925	4.7955177	8.838710	45.741935
## 2074	1996-07-19	3.3873375	25.58895	6.7818688	10.578947	39.105263
## 2075	1996-07-20	2.7812019	25.65865	6.1036013	2.000000	2.888889
## 2076	1996-07-21	2.1750663	25.72835	5.4253339	2.555556	8.888889
## 2077	1996-07-22	1.5689307	25.79804	4.7470665	11.090909	6.000000
## 2078	1996-07-23	0.9627951	25.86774	4.0687990	7.545455	4.111111
## 2079	1996-07-24	2.1656794	25.72548	4.5899338	4.000000	2.222222
## 2080	1996-07-25	3.3685637	25.58323	5.1110686	50.909091	103.272727
## 2081	1996-07-26	4.5714480	25.44097	5.6322035	3.611111	58.944444
## 2082	1996-07-27	5.7743324	25.29871	6.1533383	2.222222	2.000000
## 2083	1996-07-28	6.9772167	25.15645	6.6744731	5.000000	10.933333
## 2084	1996-07-29	8.5528311	24.87624	7.3234669	258.553191	616.170213
## 2085	1996-07-30	7.3449640	24.82280	7.3498230	2.444444	11.000000
## 2086	1996-07-31	6.1370970	24.76935	7.3761791	2.111111	3.222222
## 2087	1996-08-01	2.1166645	25.44336	5.1442284	60.950000	4.600000
## 2088	1996-08-02	3.6122458	24.93738	7.4237325	42.105263	32.473684
## 2089	1996-08-03	1.5580333	25.68291	4.4570267	85.466667	1257.288889
## 2090	1996-08-04	1.2638851	25.67552	4.5347787	80.400000	43.600000
## 2091	1996-08-05	0.9697370	25.66814	4.6125308	4.000000	8.944444
## 2092	1996-08-06	0.6755888	25.66075	4.6902829	3.363636	9.472222
## 2093	1996-08-07	1.2118279	25.59496	4.6642679	2.727273	10.000000
## 2094	1996-08-08	1.7480670	25.52916	4.6382530	2.355556	18.933333
## 2095	1996-08-09	2.2843061	25.46337	4.6122381	4.388889	7.500000
## 2096	1996-08-10	2.8205452	25.39757	4.5862232	9.904762	30.238095

## 2097	1996-08-11	6.2854042	24.86923	7.7266233	2.000000	2.000000
## 2098	1996-08-12	0.9103562	25.58816	4.4065175	12.080000	883.680000
## 2099	1996-08-13	2.8168088	25.18438	4.9878348	2.000000	5.611111
## 2100	1996-08-14	4.7232613	24.78061	5.5691521	73.568966	766.137931
## 2101	1996-08-15	4.3611956	24.42179	7.5181556	263.444444	338.000000
## 2102	1996-08-16	3.3692929	24.67388	7.5542133	2.533333	2.000000
## 2103	1996-08-17	3.4083866	24.67100	7.5450189	2.000000	13.111111
## 2104	1996-08-18	3.4474803	24.66813	7.5358245	12.545455	22.000000
## 2105	1996-08-19	3.4865741	24.66525	7.5266301	4.666667	25.777778
## 2106	1996-08-20	3.5256678	24.66237	7.5174356	9.555556	14.000000
## 2107	1996-08-21	3.5647616	24.65949	7.5082412	18.000000	37.454545
## 2108	1996-08-22	3.6038553	24.65662	7.4990468	2.000000	2.000000
## 2109	1996-08-23	3.6429491	24.65374	7.4898524	4.444444	6.444444
## 2110	1996-08-24	3.6820428	24.65086	7.4806579	26.727273	27.454545
## 2111	1996-08-25	3.7211366	24.64798	7.4714635	3.333333	5.333333
## 2112	1996-08-26	3.7602303	24.64511	7.4622691	2.611111	38.555556
## 2113	1996-08-27	7.0344182	25.00007	7.7085703	2.307692	6.538462
## 2114	1996-08-28	7.8448556	25.00405	8.0517880	11.021277	23.617021
## 2115	1996-08-29	5.1328976	25.12166	7.2432181	7.066667	12.200000
## 2116	1996-08-30	3.7885208	24.75364	7.0473158	2.962963	3.333333
## 2117	1996-08-31	5.9251879	24.91151	7.4813230	22.036364	11.018182
## 2118	1996-09-01	5.2535394	24.44853	8.5205909	2.000000	2.722222
## 2119	1996-09-02	4.7989341	24.51978	8.1169773	4.727273	2.909091
## 2120	1996-09-03	4.3443288	24.59102	7.7133638	2.250000	6.500000
## 2121	1996-09-04	3.8897235	24.66227	7.3097502	9.818182	11.454545
## 2122	1996-09-05	3.4351182	24.73351	6.9061367	2.000000	2.111111
## 2123	1996-09-06	6.2235455	24.71051	7.5154323	8.500000	5.500000
## 2124	1996-09-07	9.0119727	24.68750	8.1247279	75.862069	18.896552
## 2125	1996-09-08	7.7924956	24.70444	8.0891071	343.000000	376.500000
## 2126	1996-09-09	6.0004667	24.81793	7.5491124	2.600000	4.200000
## 2127	1996-09-10	3.6488848	24.68117	7.7089882	2.318182	4.818182
## 2128	1996-09-11	6.0608583	24.11300	8.2238979	2.962963	2.666667
## 2129	1996-09-12	7.0190470	24.09723	8.0095480	101.454545	127.272727
## 2130	1996-09-13	7.9772356	24.08146	7.7951981	3.500000	6.250000
## 2131	1996-09-14	8.9354242	24.06569	7.5808482	4.444444	43.722222
## 2132	1996-09-15	8.8416417	24.20649	7.3898294	27.818182	9.636364
## 2133	1996-09-16	8.7478591	24.34729	7.1988106	3.750000	9.750000
## 2134	1996-09-17	8.6540765	24.48809	7.0077918	5.636364	3.636364
## 2135	1996-09-18	8.5602939	24.62889	6.8167730	5.111111	11.111111
## 2136	1996-09-19	15.6675485	24.58576	7.2255682	5.750000	8.250000
## 2137	1996-09-20	22.7748030	24.54263	7.6343633	9.063830	5.191489
## 2138	1996-09-21	14.5271848	24.51010	8.4167048	2.222222	3.333333
## 2139	1996-09-22	18.2777644	24.58426	7.8853333	5.722222	10.611111
## 2140	1996-09-23	8.1641714	24.64903	8.3776643	19.333333	13.666667
## 2141	1996-09-24	17.9138909	24.31299	7.3098745	16.888889	6.722222
## 2142	1996-09-25	30.3534917	24.31519	7.0476246	44.347826	49.347826
## 2143	1996-09-26	4.8975778	24.84229	6.5085084	18.177778	102.444444
## 2144	1996-09-27	3.0618125	24.92251	6.7823737	72.166667	1213.875000
## 2145	1996-09-28	5.4746521	24.82331	7.0030279	11.000000	90.791667
## 2146	1996-09-29	8.2229408	24.52741	7.2765663	34.909091	67.636364
## 2147	1996-09-30	10.9712295	24.23150	7.5501047	59.000000	98.500000
## 2148	1996-10-01	13.7195182	23.93560	7.8236430	5.333333	3.500000
## 2149	1996-10-02	7.0386273	24.05128	6.6505967	5.787234	16.425532
## 2150	1996-10-03	4.5161348	24.13626	6.9275230	17.750000	80.250000

##	2151	1996-10-04	1.9936424	24.22124	7.2044494	4.055556	3.500000
##	2152	1996-10-05	2.6214924	24.18962	7.0247468	3.500000	4.250000
##	2153	1996-10-06	3.2493424	24.15801	6.8450442	2.055556	17.000000
##	2154	1996-10-07	3.2760956	24.23916	7.5666262	162.042553	518.170213
##	2155	1996-10-08	3.8908370	24.33590	7.6737485	3.466667	2.000000
##	2156	1996-10-09	2.1812042	24.44456	7.4730475	4.341463	14.341463
##	2157	1996-10-10	3.8448970	24.44308	7.2162639	2.666667	6.722222
##	2158	1996-10-11	3.8263758	24.41810	7.1950435	106.750000	61.500000
##	2159	1996-10-12	3.8078545	24.39312	7.1738230	12.510638	106.765957
##	2160	1996-10-13	0.9100000	23.88600	6.8700000	6.250000	8.250000
##	2161	1996-10-14	3.4217042	24.46771	6.7995437	4.842105	3.736842
##	2162	1996-10-15	3.5131309	24.53185	6.9247063	6.250000	12.250000
##	2163	1996-10-16	3.6045576	24.59599	7.0498688	4.500000	22.444444
##	2164	1996-10-17	3.5820140	24.57165	7.1336651	18.000000	18.210526
##	2165	1996-10-18	3.5594705	24.54731	7.2174615	4.500000	10.000000
##	2166	1996-10-19	3.5369269	24.52296	7.3012578	6.181818	4.181818
##	2167	1996-10-20	3.5143833	24.49862	7.3850542	5.111111	61.333333
##	2168	1996-10-21	3.6115326	24.51541	7.4652727	167.500000	87.750000
##	2169	1996-10-22	3.7086818	24.53220	7.5454912	3.222222	14.888889
##	2170	1996-10-23	4.4480311	24.49034	7.5890938	6.851064	11.659574
##	2171	1996-10-24	3.2166119	24.54483	7.7351238	4.866667	20.933333
##	2172	1996-10-25	3.2886167	24.50195	7.2294779	5.183333	11.966667
##	2173	1996-10-26	2.7443182	24.56357	7.2097832	5.500000	3.000000
##	2174	1996-10-27	2.2000197	24.62518	7.1900884	155.454545	50.727273
##	2175	1996-10-28	1.6557212	24.68679	7.1703936	2.444444	4.000000
##	2176	1996-10-29	2.4899379	24.71345	7.1102488	7.500000	10.500000
##	2177	1996-10-30	3.3241545	24.74011	7.0501039	14.127660	10.340426
##	2178	1996-10-31	2.9282621	24.79072	6.9988103	21.250000	23.750000
##	2179	1996-11-01	2.5323697	24.84134	6.9475167	4.000000	15.222222
##	2180	1996-11-02	2.8805333	24.86936	7.0156570	38.210526	135.052632
##	2181	1996-11-03	3.2286970	24.89738	7.0837974	19.000000	36.000000
##	2182	1996-11-04	3.5768606	24.92541	7.1519378	2.000000	2.611111
##	2183	1996-11-05	5.4084727	24.90402	8.1090355	3.153846	3.846154
##	2184	1996-11-06	5.6563644	24.92361	8.1509744	48.127660	339.957447
##	2185	1996-11-07	2.4293833	24.85360	7.5274212	2.074074	3.111111
##	2186	1996-11-08	4.4328881	24.88671	7.9189419	2.933333	5.866667
##	2187	1996-11-09	4.0410507	24.96338	7.4716986	17.750000	18.250000
##	2188	1996-11-10	3.6492133	25.04004	7.0244553	6.533333	24.444444
##	2189	1996-11-11	3.1576542	25.11218	6.7231142	98.576271	569.389831
##	2190	1996-11-12	3.0231875	25.09304	6.8002879	7.458333	18.625000
##	2191	1996-11-13	3.4856879	24.80141	7.5939003	2.000000	2.333333
##	2192	1996-11-14	2.7207682	24.76154	7.4628470	68.000000	14.000000
##	2193	1996-11-15	1.9558485	24.72168	7.3317936	18.510638	27.361702
##	2194	1996-11-16	1.8963232	24.72223	7.4101800	5.500000	4.000000
##	2195	1996-11-17	1.8367980	24.72278	7.4885664	10.545455	112.909091
##	2196	1996-11-18	1.7772727	24.72332	7.5669527	7.661616	62.037879
##	2197	1996-11-19	2.0879303	24.78187	7.3390200	4.777778	11.166667
##	2198	1996-11-20	2.8469808	24.81902	7.4460480	3.500000	18.500000
##	2199	1996-11-21	3.6060313	24.85616	7.5530760	2.000000	8.250000
##	2200	1996-11-22	4.3650818	24.89331	7.6601040	2.333333	3.888889
##	2201	1996-11-23	5.3231659	24.94141	7.7671320	8.000000	7.454545
##	2202	1996-11-24	6.2812500	24.98951	7.8741600	5.478261	9.304348
##	2203	1996-11-25	5.3818667	25.02815	7.6797206	2.666667	11.538462
##	2204	1996-11-26	5.6525810	25.03124	7.7896521	4.000000	19.866667

##	2205	1996-11-27	2.7703250	25.00773	7.2177700	5.185185	10.888889
##	2206	1996-11-28	3.0647049	24.86593	7.7763555	151.250000	68.750000
##	2207	1996-11-29	3.3590848	24.72413	8.3349409	404.829268	252.487805
##	2208	1996-11-30	5.2336909	24.87018	7.8292603	18.230769	4.692308
##	2209	1996-12-01	4.0059044	24.74693	7.9294182	197.115385	190.787330
##	2210	1996-12-02	4.4704439	24.88089	7.5755937	376.000000	376.882353
##	2211	1996-12-03	2.8765939	24.55967	8.1417067	7.272727	19.454545
##	2212	1996-12-04	3.0140960	24.56303	8.0580374	2.000000	2.000000
##	2213	1996-12-05	3.1515980	24.56640	7.9743681	21.272727	563.272727
##	2214	1996-12-06	3.2891000	24.56976	7.8906988	21.684211	434.947368
##	2215	1996-12-07	3.1010485	24.56459	7.9391817	2.000000	7.250000
##	2216	1996-12-08	2.9129970	24.55943	7.9876646	22.000000	79.090909
##	2217	1996-12-09	2.7249455	24.55426	8.0361476	2.222222	3.722222
##	2218	1996-12-10	2.8864530	24.76270	7.6447197	6.000000	13.000000
##	2219	1996-12-11	3.0479606	24.97114	7.2532918	6.765957	32.765957
##	2220	1996-12-12	2.6119532	24.95409	7.2386874	3.500000	9.000000
##	2221	1996-12-13	2.1759458	24.93703	7.2240829	2.740741	6.444444
##	2222	1996-12-14	3.9766153	24.94706	7.4295639	28.842105	20.105263
##	2223	1996-12-15	5.7772848	24.95708	7.6350448	2.888889	10.722222
##	2224	1996-12-16	3.2238583	24.64644	8.3221146	2.666667	9.629630
##	2225	1996-12-17	6.5055121	24.64977	7.5293785	6.461538	32.615385
##	2226	1996-12-18	6.6076533	24.62869	7.6114982	132.297872	1299.446809
##	2227	1996-12-19	4.7568905	24.75011	6.9999193	45.513514	788.702703
##	2228	1996-12-20	3.8940710	24.69831	7.3662316	4.250000	7.250000
##	2229	1996-12-21	3.0312515	24.64651	7.7325439	4.666667	18.055556
##	2230	1996-12-22	3.7412644	25.16794	5.6077409	26.214286	60.321429
##	2231	1996-12-23	3.2612979	25.24729	5.1667000	64.208333	608.708333
##	2232	1996-12-24	2.7533271	25.25132	5.0668602	38.125000	481.833333
##	2233	1996-12-25	3.4306932	25.23733	5.5786611	3.000000	4.750000
##	2234	1996-12-26	4.1080593	25.22335	6.0904621	2.000000	114.545455
##	2235	1996-12-27	4.7854254	25.20937	6.6022630	2.000000	65.000000
##	2236	1996-12-28	5.4627915	25.19538	7.1140639	4.250000	4.750000
##	2237	1996-12-29	6.1401576	25.18140	7.6258648	5.722222	58.222222
##	2238	1996-12-30	7.9135364	25.13146	7.1177615	3.404255	12.765957
##	2239	1996-12-31	5.2324273	24.49132	8.5264991	6.000000	56.222222
##	2240	1997-01-01	5.9199909	25.05869	6.1293470	2.000000	2.666667
##	2241	1997-01-02	5.7068667	25.02161	6.6497263	2.333333	8.370370
##	2242	1997-01-03	3.3167750	24.43206	8.2702896	2.666667	14.074074
##	2243	1997-01-04	4.6923762	24.90285	6.7099248	2.400000	2.666667
##	2244	1997-01-05	6.9290111	24.96976	7.6267089	29.733333	312.933333
##	2245	1997-01-06	5.4850182	24.43825	8.0478279	41.593939	161.648485
##	2246	1997-01-07	5.4241667	24.18031	8.0648212	53.454545	10.363636
##	2247	1997-01-08	5.3633152	23.92236	8.0818145	2.297872	3.234043
##	2248	1997-01-09	4.6706045	24.45541	7.4183435	603.818182	504.363636
##	2249	1997-01-10	3.9778939	24.98846	6.7548724	2.000000	2.611111
##	2250	1997-01-11	3.0725545	24.49912	7.2884127	2.425532	2.851064
##	2251	1997-01-12	4.1470208	24.00978	7.7715767	2.000000	2.074074
##	2252	1997-01-13	8.7789970	24.32787	7.1494585	3.241379	3.034483
##	2253	1997-01-14	8.4576667	24.54560	7.0762071	3.009404	4.204807
##	2254	1997-01-15	6.0011878	24.87402	6.6321959	2.777429	5.375131
##	2255	1997-01-16	7.2835151	24.44978	7.0212207	2.545455	6.545455
##	2256	1997-01-17	8.5658424	24.02554	7.4102455	2.277778	2.555556
##	2257	1997-01-18	9.3150818	24.61618	7.5698024	2.833333	2.888889
##	2258	1997-01-19	7.1364818	24.23315	7.7163800	2.555556	2.777778

##	2259	1997-01-20	6.1972106	24.24958	7.4277908	2.363636	3.818182
##	2260	1997-01-21	5.2579394	24.26601	7.1392015	7.277778	75.111111
##	2261	1997-01-22	2.9564625	24.46690	6.8785858	25.315789	88.947368
##	2262	1997-01-23	7.4374667	24.90146	6.6265521	228.713450	442.057018
##	2263	1997-01-24	5.5336114	24.93044	6.5981195	432.111111	795.166667
##	2264	1997-01-25	6.0557857	24.87888	6.9026702	2.000000	2.066667
##	2265	1997-01-26	2.9148222	25.13220	6.0446398	23.555556	160.311111
##	2266	1997-01-27	2.1929000	25.17774	5.8094069	60.881356	789.898305
##	2267	1997-01-28	2.6724636	24.59465	7.4182876	2.166667	2.166667
##	2268	1997-01-29	2.7490604	25.12528	5.9545402	2.291667	7.666667
##	2269	1997-01-30	3.0410681	24.73631	6.8861713	4.545455	4.545455
##	2270	1997-01-31	3.3330758	24.34734	7.8178024	3.272727	3.272727
##	2271	1997-02-01	2.3677364	24.16319	8.2375048	2.000000	2.000000
##	2272	1997-02-02	1.1417000	23.85611	8.3488300	2.448276	2.413793
##	2273	1997-02-03	4.1997848	24.38306	7.6706503	2.896552	2.827586
##	2274	1997-02-04	4.5257159	24.45988	7.7992386	29.777778	174.611111
##	2275	1997-02-05	3.6582929	24.54767	7.6581690	2.666667	10.666667
##	2276	1997-02-06	3.7414722	24.38485	8.0612619	3.454545	9.636364
##	2277	1997-02-07	3.8246515	24.22204	8.4643548	2.000000	2.000000
##	2278	1997-02-08	3.2951894	24.24495	8.2395556	8.363636	5.272727
##	2279	1997-02-09	2.7657273	24.26787	8.0147564	5.363636	4.090909
##	2280	1997-02-10	2.6809576	24.21145	8.0063139	2.363636	2.909091
##	2281	1997-02-11	2.5961879	24.15502	7.9978715	2.265152	2.537879
##	2282	1997-02-12	3.0330939	23.97054	7.6778485	2.166667	2.166667
##	2283	1997-02-13	2.1483667	24.39571	7.7837248	3.277778	12.055556
##	2284	1997-02-14	2.2335667	23.84814	7.6104529	2.315789	2.842105
##	2285	1997-02-15	4.4196030	23.83095	7.5607333	10.222222	24.111111
##	2286	1997-02-16	3.2661489	23.87305	7.6277649	6.144444	13.055556
##	2287	1997-02-17	3.2671738	24.09796	7.5005345	2.066667	2.000000
##	2288	1997-02-18	3.2708369	23.72776	7.5597783	23.272727	17.636364
##	2289	1997-02-19	3.2745000	23.35755	7.6190221	2.222222	7.777778
##	2290	1997-02-20	2.7151242	24.06223	7.8123782	13.000000	8.833333
##	2291	1997-02-21	2.6849015	24.26429	7.8484059	3.818182	3.090909
##	2292	1997-02-22	2.6546788	24.46635	7.8844336	3.333333	6.666667
##	2293	1997-02-23	2.6998980	24.45811	7.8493768	11.090909	6.000000
##	2294	1997-02-24	2.7451172	24.44986	7.8143199	4.000000	20.000000
##	2295	1997-02-25	2.7903364	24.44162	7.7792630	2.000000	2.888889
##	2296	1997-02-26	3.4688455	24.64004	7.9519161	2.000000	2.000000
##	2297	1997-02-27	2.8278292	24.52299	7.6160733	11.060606	7.757576
##	2298	1997-02-28	4.1443821	24.62049	8.0054877	20.121212	13.515152
##	2299	1997-03-01	3.0231250	24.62159	8.2079744	2.000000	2.000000
##	2300	1997-03-02	3.9727222	24.76392	7.1870393	14.322034	149.186441
##	2301	1997-03-03	1.9916604	24.76003	7.0399098	26.644068	296.372881
##	2302	1997-03-04	2.2714354	24.76425	7.3564612	3.583333	26.166667
##	2303	1997-03-05	3.9497939	24.02594	8.3484500	2.111111	3.555556
##	2304	1997-03-06	3.7764606	23.90572	8.1002046	767.750000	491.750000
##	2305	1997-03-07	3.6031273	23.78551	7.8519592	26.000000	180.000000
##	2306	1997-03-08	3.4297939	23.66530	7.6037139	12000.000000	12000.000000
##	2307	1997-03-09	3.2564606	23.54508	7.3554685	1532.444444	1909.111111
##	2308	1997-03-10	3.1643812	23.55396	7.3177461	3266.666667	2788.888889
##	2309	1997-03-11	3.0723018	23.56284	7.2800236	9.250000	27.750000
##	2310	1997-03-12	2.9802224	23.57171	7.2423012	241.454545	2950.727273
##	2311	1997-03-13	2.8881430	23.58059	7.2045788	12000.000000	12000.000000
##	2312	1997-03-14	2.7960636	23.58947	7.1668564	399.454545	441.954545

## 2313	1997-03-15	2.7698437	23.76767	7.4054579	985.00000	1160.000000
## 2314	1997-03-16	2.7436238	23.94588	7.6440595	3.777778	3.777778
## 2315	1997-03-17	3.0730807	23.86692	7.4543779	122.678571	191.071429
## 2316	1997-03-18	2.1702071	24.11497	7.5225212	46.000000	293.470588
## 2317	1997-03-19	2.7516786	24.08546	7.2799285	6.250000	10.500000
## 2318	1997-03-20	3.3331500	24.05595	7.0373358	2.740741	9.407407
## 2319	1997-03-21	2.7292061	24.08064	6.9953364	277.744681	447.021277
## 2320	1997-03-22	1.8346030	23.98482	6.9076682	86.545455	584.181818
## 2321	1997-03-23	0.9400000	23.88900	6.8200000	74.588517	658.880383
## 2322	1997-03-24	2.3928833	24.20304	7.0507133	62.631579	733.578947
## 2323	1997-03-25	3.8457667	24.51708	7.2814267	12.051282	132.000000
## 2324	1997-03-26	3.2009303	24.48223	7.2577848	7.750000	10.250000
## 2325	1997-03-27	2.5560939	24.44738	7.2341430	57.148936	607.021277
## 2326	1997-03-28	2.7308455	24.50189	7.2144848	61.666667	1273.666667
## 2327	1997-03-29	2.9055970	24.55639	7.1948267	27.681818	9.727273
## 2328	1997-03-30	2.9682091	24.60519	7.5085756	51.454545	430.363636
## 2329	1997-03-31	3.0308212	24.65400	7.8223244	4.000000	7.000000
## 2330	1997-04-01	3.0934333	24.70281	8.1360733	3.181818	4.818182
## 2331	1997-04-02	1.9971515	24.47747	7.8971561	237.888889	363.555556
## 2332	1997-04-03	1.3202542	24.41433	7.7640054	674.105263	650.263158
## 2333	1997-04-04	2.0449556	24.48784	8.0241504	241.641026	391.282051
## 2334	1997-04-05	2.0179098	24.53205	7.7308037	2.666667	2.000000
## 2335	1997-04-06	1.9715573	24.54520	7.6034849	330.250000	103.000000
## 2336	1997-04-07	1.9252049	24.55836	7.4761661	35.454545	169.818182
## 2337	1997-04-08	1.8788524	24.57151	7.3488473	18.000000	170.000000
## 2338	1997-04-09	1.8325000	24.58466	7.2215285	6.090909	34.818182
## 2339	1997-04-10	2.1351848	24.53775	7.5380582	2.722222	3.444444
## 2340	1997-04-11	2.0143263	24.50335	7.5594663	18.727273	44.363636
## 2341	1997-04-12	1.8934677	24.46894	7.5808743	12000.000000	12000.000000
## 2342	1997-04-13	1.7726091	24.43453	7.6022824	550.444444	248.500000
## 2343	1997-04-14	2.1880742	24.44761	7.6886636	1776.666667	1373.333333
## 2344	1997-04-15	2.6035394	24.46069	7.7750448	125.461538	51.076923
## 2345	1997-04-16	2.1030708	24.40733	7.2786375	1425.130769	809.713462
## 2346	1997-04-17	2.3252489	24.35579	7.7467149	2724.800000	1568.350000
## 2347	1997-04-18	1.9171833	24.48987	7.7694721	111.888889	27.111111
## 2348	1997-04-19	1.8540220	24.33873	7.6293920	140.250000	81.500000
## 2349	1997-04-20	1.7908606	24.18758	7.4893118	119.333333	47.538462
## 2350	1997-04-21	1.8268690	24.36407	7.3288736	220.000000	260.000000
## 2351	1997-04-22	1.8628773	24.54056	7.1684354	10.000000	13.250000
## 2352	1997-04-23	1.8988857	24.71705	7.0079971	282.304348	293.826087
## 2353	1997-04-24	1.9541879	24.83423	6.8136919	148.576271	844.779661
## 2354	1997-04-25	3.5617182	24.39076	7.7261676	11.555556	4.444444
## 2355	1997-04-26	1.8539042	24.78186	6.9850158	16.321429	15.642857
## 2356	1997-04-27	2.1152036	24.58443	7.2679275	426.000000	1219.636364
## 2357	1997-04-28	2.3765030	24.38701	7.5508391	119.350000	474.900000
## 2358	1997-04-29	2.1529515	24.44949	7.4812512	9.333333	32.666667
## 2359	1997-04-30	1.9294000	24.51198	7.4116633	13.666667	9.000000
## 2360	1997-05-01	2.0567167	24.63594	7.2149727	1123.636364	1159.454545
## 2361	1997-05-02	2.1840333	24.75991	7.0182821	8.666667	43.055556
## 2362	1997-05-03	2.2081071	24.67317	7.3713370	19.368421	59.684211
## 2363	1997-05-04	2.2321810	24.58644	7.7243919	2.357143	4.500000
## 2364	1997-05-05	2.3412789	24.54004	7.6605408	11.500000	9.000000
## 2365	1997-05-06	2.4503768	24.49364	7.5966897	1446.363636	1794.545455
## 2366	1997-05-07	2.5594748	24.44724	7.5328387	2440.000000	3920.000000

## 2367	1997-05-08	2.6685727	24.40084	7.4689876	6.722222	3.222222
## 2368	1997-05-09	2.4906038	24.34087	7.5336841	5.000000	11.750000
## 2369	1997-05-10	2.3126348	24.28089	7.5983806	6254.545455	4854.545455
## 2370	1997-05-11	2.1346659	24.22092	7.6630771	8956.666667	7896.666667
## 2371	1997-05-12	1.9566970	24.16094	7.7277736	380.000000	241.944444
## 2372	1997-05-13	2.3298323	24.20024	7.7525583	810.666667	421.000000
## 2373	1997-05-14	2.7029677	24.23953	7.7773429	76.750000	26.250000
## 2374	1997-05-15	3.0761030	24.27883	7.8021276	20.666667	26.111111
## 2375	1997-05-16	2.5404030	24.51998	7.5850273	479.931034	502.275862
## 2376	1997-05-17	3.2567244	24.51732	7.6403167	370.052632	435.578947
## 2377	1997-05-18	2.8695095	24.61778	7.5111857	11.466667	21.600000
## 2378	1997-05-19	3.3357942	24.43887	7.4459323	7.750000	22.000000
## 2379	1997-05-20	3.8020788	24.25996	7.3806788	50.277778	142.277778
## 2380	1997-05-21	3.5651848	24.34942	7.2568091	25.111111	50.333333
## 2381	1997-05-22	3.9276133	24.39373	7.2582739	1005.636364	310.727273
## 2382	1997-05-23	4.2900418	24.43805	7.2597388	3186.666667	613.333333
## 2383	1997-05-24	4.6524703	24.48237	7.2612036	112.250000	104.500000
## 2384	1997-05-25	5.0148988	24.52668	7.2626685	1817.272727	3729.272727
## 2385	1997-05-26	5.3773273	24.57100	7.2641333	309.166667	744.958333
## 2386	1997-05-27	4.3721486	24.62801	6.9953521	42.000000	320.000000
## 2387	1997-05-28	3.3669699	24.68501	6.7265708	658.526316	942.842105
## 2388	1997-05-29	2.3617912	24.74202	6.4577896	23.000000	880.000000
## 2389	1997-05-30	1.3566125	24.79903	6.1890083	14.962963	25.703704
## 2390	1997-05-31	1.8754047	24.96214	6.0504477	4.000000	6.500000
## 2391	1997-06-01	2.3941970	25.12525	5.9118870	28.127660	349.191489
## 2392	1997-06-02	3.3977576	25.11608	6.2098739	4076.000000	7733.333333
## 2393	1997-06-03	4.4013182	25.10690	6.5078609	7.333333	16.500000
## 2394	1997-06-04	8.0502058	25.25634	6.7631943	2.500000	2.750000
## 2395	1997-06-05	11.6990933	25.40579	7.0185277	11.692308	334.384615
## 2396	1997-06-06	16.1011854	25.41234	6.7745648	24.850000	441.200000
## 2397	1997-06-07	12.7855208	25.29370	7.1384650	3.214286	14.000000
## 2398	1997-06-08	10.3097571	25.46923	6.4521562	2.133333	26.266667
## 2399	1997-06-09	6.2036419	25.53219	5.9848072	7.750000	11.750000
## 2400	1997-06-10	2.0975267	25.59515	5.5174582	4.888889	9.111111
## 2401	1997-06-11	1.8027458	25.71352	5.1716854	50.067797	684.813559
## 2402	1997-06-12	11.4583091	25.33519	7.0980933	329.589744	856.871795
## 2403	1997-06-13	2.6979833	25.68427	5.4581798	44.312500	363.583333
## 2404	1997-06-14	4.2395977	25.24985	7.2295754	3.500000	7.000000
## 2405	1997-06-15	5.7812121	24.81544	9.0009709	260.723404	462.978723
## 2406	1997-06-16	5.2501303	24.91871	8.4547407	1105.000000	3539.000000
## 2407	1997-06-17	4.7190485	25.02197	7.9085105	3.750000	2.750000
## 2408	1997-06-18	4.1879667	25.12524	7.3622803	5.222222	51.888889
## 2409	1997-06-19	3.6870917	25.04488	7.3156055	2.000000	2.000000
## 2410	1997-06-20	3.1862167	24.96452	7.2689306	13.454545	742.363636
## 2411	1997-06-21	2.6853417	24.88415	7.2222558	1254.333333	3014.500000
## 2412	1997-06-22	2.1844667	24.80379	7.1755809	381.709091	628.145455
## 2413	1997-06-23	1.9400604	24.84099	6.7633240	450.000000	8666.666667
## 2414	1997-06-24	1.6956542	24.87818	6.3510671	3.142857	16.628571
## 2415	1997-06-25	2.3838939	25.45522	5.4064324	54.827586	1277.103448
## 2416	1997-06-26	2.6418111	25.59760	5.1618469	6.500000	28.600000
## 2417	1997-06-27	2.2325143	25.43990	5.7270586	23.000000	105.600000
## 2418	1997-06-28	3.6417499	25.18642	6.3001927	14.000000	43.000000
## 2419	1997-06-29	5.0509856	24.93295	6.8733268	24.363636	129.636364
## 2420	1997-06-30	6.4602212	24.67948	7.4464609	2.162162	2.702703

## 2421	1997-07-01	6.5873939	24.91899	6.9102061	9.250000	10.000000
## 2422	1997-07-02	6.7145667	25.15851	6.3739512	2.888889	5.500000
## 2423	1997-07-03	7.6187045	24.99871	7.0365130	9.272727	52.181818
## 2424	1997-07-04	8.5228424	24.83891	7.6990748	4.777778	39.888889
## 2425	1997-07-05	7.8657189	24.72207	7.6373241	4.750000	14.000000
## 2426	1997-07-06	7.2085955	24.60523	7.5755733	3.454545	5.272727
## 2427	1997-07-07	6.5514720	24.48840	7.5138226	4.250000	6.000000
## 2428	1997-07-08	5.8943485	24.37156	7.4520718	3.833333	8.388889
## 2429	1997-07-09	5.6538717	24.43687	7.0531065	12.545455	387.090909
## 2430	1997-07-10	5.4133949	24.50219	6.6541411	2.000000	7.000000
## 2431	1997-07-11	5.1729182	24.56751	6.2551758	34.444444	13.277778
## 2432	1997-07-12	6.0391439	24.60933	6.5910227	2.000000	2.000000
## 2433	1997-07-13	6.9053697	24.65115	6.9268697	18.555556	160.666667
## 2434	1997-07-14	6.1980778	24.70514	6.2989504	228.363636	661.272727
## 2435	1997-07-15	7.0496833	24.47049	6.1826321	2.148148	3.259259
## 2436	1997-07-16	6.4403286	24.83249	6.9998586	2.666667	9.666667
## 2437	1997-07-17	4.4026788	25.01971	5.3725300	4.272727	21.500000
## 2438	1997-07-18	7.6932838	25.04152	5.8950216	5.454545	4.545455
## 2439	1997-07-19	10.9838889	25.06332	6.4175132	3.250000	254.500000
## 2440	1997-07-20	14.2744939	25.08513	6.9400048	8.978723	9.361702
## 2441	1997-07-21	13.9654939	25.30114	5.8365473	3.777778	6.722222
## 2442	1997-07-22	9.6259059	25.33262	5.7574933	2.000000	2.750000
## 2443	1997-07-23	5.2863178	25.36411	5.6784393	32.750000	176.678571
## 2444	1997-07-24	3.1828190	25.17742	5.8165471	2.571429	6.666667
## 2445	1997-07-25	1.97778704	25.31069	5.9375378	102.962963	1409.481481
## 2446	1997-07-26	2.6914896	25.19744	6.2009662	41.250000	488.428571
## 2447	1997-07-27	7.2091576	24.62403	7.6253227	2.277778	3.666667
## 2448	1997-07-28	9.0520818	24.42865	8.7736009	19.379310	49.862069
## 2449	1997-07-29	13.1868911	24.45279	8.6357173	133.500000	405.944444
## 2450	1997-07-30	9.0502042	24.62430	6.8444654	10.000000	134.514286
## 2451	1997-07-31	5.7430976	24.86255	7.8432626	4.000000	9.400000
## 2452	1997-08-01	5.7952049	24.57373	8.2003919	22.727273	19.454545
## 2453	1997-08-02	5.8473121	24.28490	8.5575212	3.000000	3.136364
## 2454	1997-08-03	4.4460636	24.17550	8.4262509	5.781818	3.636364
## 2455	1997-08-04	5.3574214	24.53295	7.6838161	2.750000	3.250000
## 2456	1997-08-05	6.2687792	24.89040	6.9413813	15.842105	84.052632
## 2457	1997-08-06	5.3191424	25.19166	7.0718867	2.333333	3.000000
## 2458	1997-08-07	3.5921422	25.25927	7.1038840	7.555556	32.111111
## 2459	1997-08-08	4.6592476	25.04410	7.7626324	4.800000	24.400000
## 2460	1997-08-09	7.9781394	24.55815	8.4429970	7.500000	16.727273
## 2461	1997-08-10	8.6820020	24.53416	8.3878519	14.545455	64.000000
## 2462	1997-08-11	9.3858646	24.51017	8.3327069	3.250000	9.500000
## 2463	1997-08-12	10.0897273	24.48618	8.2775618	3.833333	5.500000
## 2464	1997-08-13	8.6920265	24.54470	7.9274757	112.181818	429.090909
## 2465	1997-08-14	7.2943258	24.60322	7.5773895	6.750000	21.500000
## 2466	1997-08-15	5.8966250	24.66173	7.2273034	4.000000	13.636364
## 2467	1997-08-16	4.4989242	24.72025	6.8772173	2.590909	7.136364
## 2468	1997-08-17	5.5318773	24.53907	7.3230697	4.000000	6.000000
## 2469	1997-08-18	6.5648303	24.35789	7.7689221	3.045455	9.954545
## 2470	1997-08-19	4.0498242	24.73025	6.9389400	4.072727	14.218182
## 2471	1997-08-20	4.8722625	24.68483	6.8523754	2.800000	6.971429
## 2472	1997-08-21	6.8881388	24.79433	7.0563486	4.727273	6.545455
## 2473	1997-08-22	8.9040152	24.90384	7.2603218	3.222222	3.555556
## 2474	1997-08-23	8.4939622	25.00743	6.8666929	76.944444	362.722222

##	2475	1997-08-24	5.3615286	25.06275	6.5088500	3.266667	9.133333
##	2476	1997-08-25	5.8131716	25.04115	6.3397517	9.000000	3.750000
##	2477	1997-08-26	6.2648146	25.01956	6.1706534	11.454545	46.000000
##	2478	1997-08-27	6.7164576	24.99797	6.0015552	2.055556	4.055556
##	2479	1997-08-28	8.0373121	24.94576	6.3599079	2.250000	2.000000
##	2480	1997-08-29	9.3581667	24.89355	6.7182606	4.111111	5.000000
##	2481	1997-08-30	7.9872424	24.87903	6.8003861	2.545455	2.181818
##	2482	1997-08-31	6.6163182	24.86451	6.8825115	2.444444	2.666667
##	2483	1997-09-01	6.9700652	24.84281	6.7776503	2.000000	4.500000
##	2484	1997-09-02	7.3238121	24.82112	6.6727891	14.000000	10.275862
##	2485	1997-09-03	3.8883156	24.93468	6.5230707	104.055556	455.888889
##	2486	1997-09-04	3.6175500	24.56323	6.3706558	40.800000	12.228571
##	2487	1997-09-05	8.0500286	24.66889	7.6358662	21.636364	84.545455
##	2488	1997-09-06	1.9666500	24.97634	5.9582135	21.850000	216.950000
##	2489	1997-09-07	2.5247981	25.07372	5.5804264	16.625000	419.609375
##	2490	1997-09-08	2.5877417	25.08275	5.8056652	4.785714	29.285714
##	2491	1997-09-09	5.6026000	24.49790	6.9813085	2.055556	2.000000
##	2492	1997-09-10	3.9246515	24.31152	7.0344274	111.894737	104.105263
##	2493	1997-09-11	2.2467030	24.12515	7.0875464	2.222222	4.722222
##	2494	1997-09-12	2.3165924	24.36103	6.8759005	62.500000	104.750000
##	2495	1997-09-13	2.3864818	24.59691	6.6642545	3.234043	6.425532
##	2496	1997-09-14	3.2088727	24.76234	6.4411611	22.750000	13.250000
##	2497	1997-09-15	4.0312636	24.92777	6.2180676	17.666667	228.666667
##	2498	1997-09-16	4.6734652	24.82235	6.6238183	4.181818	4.363636
##	2499	1997-09-17	5.3156667	24.71692	7.0295691	2.909091	8.545455
##	2500	1997-09-18	7.8655879	24.81508	8.0568676	5.555556	115.111111
##	2501	1997-09-19	5.1187467	24.65294	7.9074691	5.021277	15.191489
##	2502	1997-09-20	4.7619119	24.61353	8.1140038	2.266667	6.066667
##	2503	1997-09-21	3.6304333	24.47821	7.5810462	2.518519	5.629630
##	2504	1997-09-22	2.2802167	24.18410	7.1855231	16.750000	37.000000
##	2505	1997-09-23	0.9300000	23.89000	6.7900000	9.272727	95.818182
##	2506	1997-09-24	3.2943485	24.59814	6.0843227	2.222222	4.666667
##	2507	1997-09-25	3.3474273	24.58291	6.2504042	4.750000	4.500000
##	2508	1997-09-26	3.4005061	24.56767	6.4164858	2.638298	7.957447
##	2509	1997-09-27	2.9189924	24.56755	6.3414792	2.000000	4.750000
##	2510	1997-09-28	2.4374788	24.56744	6.2664727	3.888889	20.944444
##	2511	1997-09-29	2.6261561	24.61550	6.6229486	2.421053	3.157895
##	2512	1997-09-30	2.8148333	24.66357	6.9794245	5.444444	23.722222
##	2513	1997-10-01	2.3790083	24.81438	6.7625758	4.250000	37.000000
##	2514	1997-10-02	1.9431833	24.96519	6.5457271	3.105263	5.157895
##	2515	1997-10-03	6.4886606	25.06507	7.5342776	7.000000	45.111111
##	2516	1997-10-04	5.0391978	24.96041	7.4830218	6.444444	93.833333
##	2517	1997-10-05	4.7525381	25.06758	7.0897026	3.600000	15.000000
##	2518	1997-10-06	3.5349788	24.97699	7.3960400	4.772727	21.954545
##	2519	1997-10-07	3.2727303	24.95865	7.4859376	9.090909	2.545455
##	2520	1997-10-08	3.0104818	24.94030	7.5758352	13.777778	77.500000
##	2521	1997-10-09	3.2095295	24.94677	7.5382733	4.750000	6.500000
##	2522	1997-10-10	3.4085773	24.95324	7.5007114	5.454545	53.272727
##	2523	1997-10-11	3.6076250	24.95971	7.4631496	6.477273	28.261364
##	2524	1997-10-12	3.4693354	24.93534	7.3564349	7.500000	3.250000
##	2525	1997-10-13	3.3310458	24.91096	7.2497203	11.090909	15.818182
##	2526	1997-10-14	3.1927562	24.88659	7.1430056	5.500000	97.250000
##	2527	1997-10-15	3.0544667	24.86222	7.0362910	927.750000	1248.625000
##	2528	1997-10-16	3.8378955	24.89839	7.4250381	1850.000000	2400.000000

##	2529	1997-10-17	4.6213242	24.93456	7.8137852	3.000000	8.307692
##	2530	1997-10-18	4.7809933	24.91761	8.0733462	168.212766	576.127660
##	2531	1997-10-19	3.7422262	24.94919	7.7630931	32.266667	218.400000
##	2532	1997-10-20	2.1728917	24.79153	7.8582096	2.000000	2.370370
##	2533	1997-10-21	1.9307292	25.06626	6.9271078	2.500000	4.250000
##	2534	1997-10-22	1.6885667	25.34098	5.9960060	10.642857	27.285714
##	2535	1997-10-23	1.8026625	25.47761	5.6087904	11.000000	33.000000
##	2536	1997-10-24	2.7238667	25.28060	6.4811779	3.111111	7.666667
##	2537	1997-10-25	2.1693083	25.43300	5.9810144	9.373134	20.507463
##	2538	1997-10-26	6.3634667	25.17348	7.8566336	3.000000	11.833333
##	2539	1997-10-27	5.5491182	25.09490	7.9038548	4.181818	7.318182
##	2540	1997-10-28	6.3488242	25.08873	7.7806108	22.181818	9.272727
##	2541	1997-10-29	7.1485303	25.08256	7.6573668	3.250000	9.250000
##	2542	1997-10-30	7.9482364	25.07639	7.5341227	2.777778	6.555556
##	2543	1997-10-31	4.6430929	25.16923	7.6848514	2.600000	4.733333
##	2544	1997-11-01	8.5988687	25.12941	8.2525837	26.000000	349.090909
##	2545	1997-11-02	12.5546444	25.08958	8.8203160	5.388889	33.000000
##	2546	1997-11-03	11.4979939	25.08599	8.8906406	4.076923	29.538462
##	2547	1997-11-04	6.8144333	24.98919	8.6230221	2.222222	6.333333
##	2548	1997-11-05	4.0195576	24.89497	8.2341673	4.680851	12.340426
##	2549	1997-11-06	3.6062768	24.97094	7.9059223	381.894737	1513.684211
##	2550	1997-11-07	3.1929960	25.04691	7.5776774	1002.000000	4040.666667
##	2551	1997-11-08	2.7797152	25.12289	7.2494324	10.055556	91.722222
##	2552	1997-11-09	3.0094000	25.26583	6.5684967	9.300505	68.474747
##	2553	1997-11-10	3.9348455	25.30792	6.6944439	8.545455	45.227273
##	2554	1997-11-11	5.7537364	25.24920	6.9958742	12000.000000	12000.000000
##	2555	1997-11-12	7.5726273	25.19047	7.2973045	4.055556	7.388889
##	2556	1997-11-13	8.9188603	25.27343	7.2695787	5.750000	18.750000
##	2557	1997-11-14	10.2650933	25.35638	7.2418529	268.808511	457.106383
##	2558	1997-11-15	6.1314049	25.49307	6.4979749	368.303030	1050.181818
##	2559	1997-11-16	3.2054125	25.59682	5.6280796	49.333333	22.296296
##	2560	1997-11-17	7.5641250	25.58617	5.9831183	2.000000	2.000000
##	2561	1997-11-18	10.9832268	25.51465	6.9631173	10.500000	4.500000
##	2562	1997-11-19	14.4023286	25.44313	7.9431162	68.500000	79.833333
##	2563	1997-11-20	11.1006764	25.52261	7.6791640	20.000000	55.090909
##	2564	1997-11-21	7.7990242	25.60209	7.4152118	317.894737	321.578947
##	2565	1997-11-22	9.3490606	25.54007	7.7875245	2.250000	2.750000
##	2566	1997-11-23	10.8990970	25.47804	8.1598373	1141.818182	1299.272727
##	2567	1997-11-24	12.4491333	25.41602	8.5321500	318.526316	326.315789
##	2568	1997-11-25	7.4986015	25.41601	7.7727047	2.250000	5.000000
##	2569	1997-11-26	2.5480697	25.41600	7.0132594	5.055556	34.111111
##	2570	1997-11-27	2.3902812	25.38289	6.7811138	109.263158	340.526316
##	2571	1997-11-28	2.2324927	25.34978	6.5489681	70.000000	154.000000
##	2572	1997-11-29	2.0747042	25.31668	6.3168225	300.695652	745.130435
##	2573	1997-11-30	3.8688621	25.34489	6.3772196	12000.000000	12000.000000
##	2574	1997-12-01	5.6630200	25.37310	6.4376167	160.611111	623.166667
##	2575	1997-12-02	5.6119697	25.38913	6.1596006	2.333333	4.777778
##	2576	1997-12-03	2.3709143	25.64184	5.4933090	4.157895	19.052632
##	2577	1997-12-04	2.1222289	25.72283	5.4392476	5.250000	64.428571
##	2578	1997-12-05	1.2046396	25.81116	4.9834231	61.720000	526.080000
##	2579	1997-12-06	9.7156667	25.44282	6.2709545	10.444444	12.277778
##	2580	1997-12-07	1.8485333	25.82150	5.2416231	10.750000	31.000000
##	2581	1997-12-08	3.7303220	25.67179	5.7125089	6.250000	13.500000
##	2582	1997-12-09	5.6121106	25.52208	6.1833946	20.000000	1211.636364

##	2583	1997-12-10	7.4938992	25.37237	6.6542803	10.000000	750.000000
##	2584	1997-12-11	9.3756879	25.22266	7.1251661	3.000000	25.000000
##	2585	1997-12-12	9.2840384	25.27358	6.8874080	4.500000	15.750000
##	2586	1997-12-13	9.1923889	25.32450	6.6496499	11.454545	135.272727
##	2587	1997-12-14	9.1007394	25.37542	6.4118918	8.594595	101.027027
##	2588	1997-12-15	9.7035182	25.32249	6.2428652	2.750000	5.750000
##	2589	1997-12-16	10.3062970	25.26956	6.0738385	2.666667	8.611111
##	2590	1997-12-17	10.7469192	25.19782	6.5003171	1134.909091	1398.545455
##	2591	1997-12-18	11.1875414	25.12607	6.9267957	6170.000000	9600.000000
##	2592	1997-12-19	11.6281636	25.05432	7.3532742	5.636364	2.818182
##	2593	1997-12-20	6.8858222	25.35040	6.1606291	6.611111	18.055556
##	2594	1997-12-21	8.0198909	25.27124	5.9839155	4.758621	4.551724
##	2595	1997-12-22	4.4938833	25.28389	6.9708895	10.789474	102.315789
##	2596	1997-12-23	6.8676625	25.12649	5.7415233	3.407407	3.333333
##	2597	1997-12-24	8.8170873	24.90450	6.8350550	13.578947	11.263158
##	2598	1997-12-25	10.7665121	24.68250	7.9285867	12.277778	93.444444
##	2599	1997-12-26	9.5227616	24.72056	7.6107004	101.750000	61.250000
##	2600	1997-12-27	8.2790111	24.75862	7.2928141	1240.909091	4129.818182
##	2601	1997-12-28	7.0352606	24.79668	6.9749279	305.200000	311.650000
##	2602	1997-12-29	5.7572020	24.81672	6.8954980	260.000000	12000.000000
##	2603	1997-12-30	4.4791434	24.83677	6.8160681	12.250000	7.250000
##	2604	1997-12-31	3.2010848	24.85681	6.7366382	56.468085	278.468085
##	2605	1998-01-01	4.4350909	24.72410	6.8968061	18.000000	1000.000000
##	2606	1998-01-02	5.6690970	24.59139	7.0569739	7.111111	15.222222
##	2607	1998-01-03	8.8896218	24.65200	7.3785880	2.750000	4.750000
##	2608	1998-01-04	12.1101467	24.71261	7.7002020	6.255319	10.042553
##	2609	1998-01-05	6.1845500	24.38122	6.7997587	2.074074	4.592593
##	2610	1998-01-06	7.7332214	24.75496	7.9914900	18.466667	143.666667
##	2611	1998-01-07	12.9994727	24.45702	8.3715315	4.384615	13.307692
##	2612	1998-01-08	6.3419152	24.72031	6.0746982	4.765957	7.446809
##	2613	1998-01-09	6.1654742	24.44534	6.4735556	3.000000	8.500000
##	2614	1998-01-10	5.9890333	24.17038	6.8724130	4.111111	5.277778
##	2615	1998-01-11	5.1911990	24.46080	6.4930883	12.545455	37.818182
##	2616	1998-01-12	4.3933646	24.75121	6.1137635	24.500000	9.250000
##	2617	1998-01-13	3.5955303	25.04162	5.7344388	2.166667	2.388889
##	2618	1998-01-14	3.9613165	25.03371	5.8075734	12.421053	22.210526
##	2619	1998-01-15	4.3271027	25.02579	5.8807080	2.000000	4.500000
##	2620	1998-01-16	4.6928889	25.01787	5.9538427	5.000000	28.142857
##	2621	1998-01-17	3.7153813	25.06971	5.7214350	73.916667	917.000000
##	2622	1998-01-18	2.3675187	25.10061	5.5774690	6.083333	9.458333
##	2623	1998-01-19	4.2502442	24.86408	6.5409201	16.750000	7.750000
##	2624	1998-01-20	6.1329697	24.62754	7.5043712	19.689655	19.103448
##	2625	1998-01-21	4.7555689	24.63457	7.2707616	126.944444	421.444444
##	2626	1998-01-22	4.8818690	24.68193	7.1153876	2.000000	2.000000
##	2627	1998-01-23	3.4039500	24.50647	7.5554083	2.000000	2.000000
##	2628	1998-01-24	3.4297883	24.31560	7.5740128	5.750000	19.750000
##	2629	1998-01-25	3.4556265	24.12474	7.5926173	24.363636	4002.545455
##	2630	1998-01-26	3.4814648	23.93388	7.6112219	3.500000	91.500000
##	2631	1998-01-27	3.5073030	23.74302	7.6298264	6.500000	103.722222
##	2632	1998-01-28	2.9781227	24.03286	7.6442732	3.750000	5.750000
##	2633	1998-01-29	2.4489424	24.32271	7.6587200	2.000000	2.722222
##	2634	1998-01-30	2.6220970	24.02212	7.5128992	25.636364	247.272727
##	2635	1998-01-31	2.7952515	23.72152	7.3670785	2.055556	3.888889
##	2636	1998-02-01	2.5028061	23.79269	7.5787424	5.500000	32.000000

## 2637	1998-02-02	2.2103606	23.86386	7.7904064	2.500000	9.222222
## 2638	1998-02-03	2.1753717	23.83783	7.6400722	6.909091	56.545455
## 2639	1998-02-04	2.1403828	23.81179	7.4897381	21.000000	11.500000
## 2640	1998-02-05	2.1053939	23.78575	7.3394039	2.055556	2.722222
## 2641	1998-02-06	3.2891444	24.65491	7.3280604	18.611111	70.277778
## 2642	1998-02-07	2.9460544	24.74283	7.2752227	3.578947	3.684211
## 2643	1998-02-08	2.6029643	24.83075	7.2223850	7.333333	7.800000
## 2644	1998-02-09	2.5094042	24.45502	7.6506367	4.000000	7.333333
## 2645	1998-02-10	4.7629000	24.72298	7.4697127	2.777778	2.111111
## 2646	1998-02-11	4.5647152	24.67931	7.6874900	3.750000	5.250000
## 2647	1998-02-12	4.3665303	24.63563	7.9052673	23.636364	78.909091
## 2648	1998-02-13	4.1683455	24.59195	8.1230445	2.777778	6.833333
## 2649	1998-02-14	5.3269758	24.75973	8.2343815	2.545455	4.636364
## 2650	1998-02-15	6.6026566	24.79700	8.3072309	72.909091	33.454545
## 2651	1998-02-16	7.8783374	24.83427	8.3800803	2.000000	9.000000
## 2652	1998-02-17	9.1540182	24.87154	8.4529297	4.255319	28.765957
## 2653	1998-02-18	4.4720424	24.66487	8.4102618	2.090909	4.363636
## 2654	1998-02-19	4.1484455	24.56972	8.3223756	6.181818	16.000000
## 2655	1998-02-20	3.8248485	24.47457	8.2344894	3.363636	10.954545
## 2656	1998-02-21	6.1054378	24.36485	8.2420798	30.500000	134.222222
## 2657	1998-02-22	2.1473167	24.53807	7.3814146	2.894737	11.684211
## 2658	1998-02-23	5.2077788	24.72340	7.4320082	2.076923	3.000000
## 2659	1998-02-24	3.5560810	24.69821	7.4938336	3.800000	6.333333
## 2660	1998-02-25	2.7555152	24.52311	7.8129979	5.833333	85.333333
## 2661	1998-02-26	2.6440242	24.29412	7.8938395	7.473684	19.789474
## 2662	1998-02-27	2.5325333	24.06513	7.9746812	7.277778	2.000000
## 2663	1998-02-28	2.4726738	24.25088	7.6765633	3.250000	10.500000
## 2664	1998-03-01	2.4128142	24.43662	7.3784453	5.272727	7.818182
## 2665	1998-03-02	2.3529547	24.62236	7.0803274	2.750000	3.000000
## 2666	1998-03-03	2.2930951	24.80811	6.7822095	36.545455	43.090909
## 2667	1998-03-04	2.2332356	24.99385	6.4840916	16.177778	113.244444
## 2668	1998-03-05	2.1069937	24.99712	6.3899723	38.791667	467.833333
## 2669	1998-03-06	2.3285146	24.99635	6.6005008	2.000000	2.000000
## 2670	1998-03-07	1.9046121	24.57516	7.8449282	6.227273	9.863636
## 2671	1998-03-08	4.1737756	24.73661	7.8116320	28.833333	145.444444
## 2672	1998-03-09	3.4132091	24.70702	7.7066291	3.310345	2.689655
## 2673	1998-03-10	2.2769458	24.43829	7.8838175	2.000000	2.000000
## 2674	1998-03-11	2.5843429	24.53036	7.7861248	37.736842	67.947368
## 2675	1998-03-12	2.1410608	24.33199	7.7259339	462.363636	4840.909091
## 2676	1998-03-13	1.6977788	24.13362	7.6657430	233.951220	651.707317
## 2677	1998-03-14	1.5097773	24.08387	7.6363950	9.500000	5.750000
## 2678	1998-03-15	1.3217758	24.03412	7.6070470	4.553191	8.127660
## 2679	1998-03-16	2.2436727	24.17215	7.5364503	14.750000	17.500000
## 2680	1998-03-17	3.1655697	24.31018	7.4658536	2.472727	5.163636
## 2681	1998-03-18	2.8935000	24.35330	7.4304930	2.944444	15.500000
## 2682	1998-03-19	3.0164636	24.38883	7.5265742	11.750000	28.750000
## 2683	1998-03-20	3.1394273	24.42437	7.6226555	8.909091	3.636364
## 2684	1998-03-21	3.2623909	24.45991	7.7187367	2.055556	3.500000
## 2685	1998-03-22	2.6035330	24.38256	7.5740662	2.750000	15.250000
## 2686	1998-03-23	1.9446750	24.30521	7.4293958	17.473684	12.052632
## 2687	1998-03-24	3.5906283	24.32976	7.5284185	3.833333	15.555556
## 2688	1998-03-25	2.7906061	24.42388	7.4731452	2.000000	2.666667
## 2689	1998-03-26	1.8489714	24.48662	7.4284645	2.066667	2.666667
## 2690	1998-03-27	2.5005660	24.41144	7.5211736	41.250000	75.750000

##	2691	1998-03-28	3.1521606	24.33625	7.6138827	3.555556	12.277778
##	2692	1998-03-29	2.7848475	24.33378	7.6289764	6.909091	3.272727
##	2693	1998-03-30	2.4175343	24.33131	7.6440700	48.750000	23.000000
##	2694	1998-03-31	2.0502212	24.32883	7.6591636	29.404255	132.808511
##	2695	1998-04-01	2.1504636	24.45747	7.5516526	2.250000	8.000000
##	2696	1998-04-02	2.2507061	24.58611	7.4441415	5.555556	17.611111
##	2697	1998-04-03	2.2571717	24.61336	7.5011741	3.818182	5.454545
##	2698	1998-04-04	2.2636374	24.64062	7.5582068	32.750000	57.750000
##	2699	1998-04-05	2.2701030	24.66788	7.6152394	2.722222	5.888889
##	2700	1998-04-06	1.7853917	24.66308	7.6279554	3.703704	18.888889
##	2701	1998-04-07	3.9217333	24.70292	7.6028818	400.054054	981.351351
##	2702	1998-04-08	2.7927079	24.70798	7.4239055	5.030303	103.575758
##	2703	1998-04-09	2.5357133	24.79492	7.0412524	2.000000	10.444444
##	2704	1998-04-10	2.3530909	24.70007	7.2431797	3.055556	24.722222
##	2705	1998-04-11	2.4783778	24.74488	7.3501658	26.250000	17.750000
##	2706	1998-04-12	2.6036646	24.78969	7.4571518	22.000000	90.545455
##	2707	1998-04-13	2.7289515	24.83450	7.5641379	13.166667	3.277778
##	2708	1998-04-14	2.6686261	24.83929	7.4768041	168.250000	10.500000
##	2709	1998-04-15	2.6083008	24.84408	7.3894702	10.363636	24.909091
##	2710	1998-04-16	2.5479754	24.84887	7.3021364	3.000000	4.750000
##	2711	1998-04-17	2.4876500	24.85366	7.2148026	3.684211	2.947368
##	2712	1998-04-18	3.1767105	24.86380	7.3643311	11.416667	9.166667
##	2713	1998-04-19	3.1181053	24.97323	7.1126200	21.250000	7.000000
##	2714	1998-04-20	3.0595000	25.08267	6.8609089	8.722222	11.111111
##	2715	1998-04-21	1.5593854	25.27884	5.6953544	56.474576	357.593220
##	2716	1998-04-22	2.6197833	25.20260	6.1145423	25.458333	82.916667
##	2717	1998-04-23	5.2088424	24.97169	7.6708655	2.045455	2.500000
##	2718	1998-04-24	3.6228773	25.06844	7.7736441	2.181818	5.818182
##	2719	1998-04-25	2.0369121	25.16519	7.8764227	5.909091	5.954545
##	2720	1998-04-26	1.7768178	25.14403	6.7379980	18.177778	73.466667
##	2721	1998-04-27	1.9386576	25.05635	8.0293806	2.727273	4.036364
##	2722	1998-04-28	1.7835758	24.97559	7.7814282	2.333333	8.055556
##	2723	1998-04-29	1.7885141	24.97137	7.7470247	8.250000	5.000000
##	2724	1998-04-30	1.7934525	24.96716	7.7126213	719.454545	256.000000
##	2725	1998-05-01	1.7983909	24.96294	7.6782179	10.777778	17.111111
##	2726	1998-05-02	1.8917616	24.95489	7.6898499	17.600000	6.800000
##	2727	1998-05-03	1.9851323	24.94685	7.7014819	4.727273	47.636364
##	2728	1998-05-04	2.0785030	24.93881	7.7131139	3.363636	4.136364
##	2729	1998-05-05	1.8121078	25.01683	7.2498393	26.000000	35.272727
##	2730	1998-05-06	1.5457125	25.09485	6.7865646	4.962963	30.740741
##	2731	1998-05-07	2.2517190	25.05295	6.9970367	3.000000	3.400000
##	2732	1998-05-08	3.3055667	25.09985	6.8095655	12.153846	9.384615
##	2733	1998-05-09	3.1875333	25.04515	7.0670777	3275.272727	1771.636364
##	2734	1998-05-10	3.0695000	24.99046	7.3245900	254.350000	301.150000
##	2735	1998-05-11	2.5775333	24.91614	7.5972148	8.727273	12.954545
##	2736	1998-05-12	3.4228242	25.09766	6.8902755	9.090909	20.454545
##	2737	1998-05-13	2.9583889	25.23853	6.4360995	478.545455	2041.454545
##	2738	1998-05-14	2.4939535	25.37941	5.9819235	910.000000	2000.000000
##	2739	1998-05-15	2.0295182	25.52028	5.5277476	23.694444	1001.500000
##	2740	1998-05-16	4.7888576	25.58735	5.6623177	3.250000	3.000000
##	2741	1998-05-17	7.5481970	25.65442	5.7968879	2.111111	3.222222
##	2742	1998-05-18	13.1349711	25.60560	7.1388833	12.085106	87.234043
##	2743	1998-05-19	6.9200500	25.39445	7.0866254	3.210526	5.315789
##	2744	1998-05-20	9.3059500	25.47481	7.2949683	3.200000	4.200000

## 2745	1998-05-21	9.9807121	25.33779	7.8442558	5.890909	9.490909
## 2746	1998-05-22	3.8402545	25.26439	6.8637915	4.045455	4.863636
## 2747	1998-05-23	4.6696803	25.17002	7.1377079	2.909091	2.000000
## 2748	1998-05-24	5.4991061	25.07564	7.4116242	42.681818	2.909091
## 2749	1998-05-25	4.8525690	25.20013	6.9333318	84.545455	978.545455
## 2750	1998-05-26	4.2060319	25.32463	6.4550393	12.000000	565.000000
## 2751	1998-05-27	3.5594948	25.44913	5.9767469	2.750000	3.000000
## 2752	1998-05-28	2.9129578	25.57362	5.4984544	3.166667	4.695122
## 2753	1998-05-29	2.7099357	25.42484	6.1382436	3.707317	6.390244
## 2754	1998-05-30	7.5890485	25.43410	6.1651948	2.000000	2.222222
## 2755	1998-05-31	1.9957458	25.26308	6.6177363	2.148148	5.037037
## 2756	1998-06-01	1.7267685	25.36711	6.1221385	90.000000	13.000000
## 2757	1998-06-02	1.4577911	25.47114	5.6265407	20.088889	203.644444
## 2758	1998-06-03	1.3644351	25.51661	5.3953500	2.909091	5.818182
## 2759	1998-06-04	1.2710792	25.56208	5.1641594	50.041667	374.375000
## 2760	1998-06-05	4.8790944	25.48596	5.6525461	3.153846	2.307692
## 2761	1998-06-06	6.2720909	25.25476	6.2910721	9.444444	24.777778
## 2762	1998-06-07	2.5543733	25.80796	4.3564973	46.975610	216.878049
## 2763	1998-06-08	6.2774352	25.67549	5.2219667	6.250000	9.000000
## 2764	1998-06-09	10.0004970	25.54303	6.0874361	22.833333	388.000000
## 2765	1998-06-10	9.5010015	25.43659	6.4605264	5.473684	162.315789
## 2766	1998-06-11	9.0015061	25.33014	6.8336167	6.105263	165.157895
## 2767	1998-06-12	14.3518121	24.99975	7.8723930	2.454545	3.500000
## 2768	1998-06-13	10.2816773	25.08672	7.3313877	5.090909	30.000000
## 2769	1998-06-14	6.2115424	25.17369	6.7903824	2.388889	19.666667
## 2770	1998-06-15	4.5623581	25.34822	6.1387742	5.000000	6.250000
## 2771	1998-06-16	2.9131738	25.52276	5.4871660	5.170732	26.048780
## 2772	1998-06-17	6.1351758	25.46951	5.7453800	2.000000	2.666667
## 2773	1998-06-18	4.2551822	25.57848	5.3181033	6.277778	20.333333
## 2774	1998-06-19	12.4647208	25.46292	6.3751467	11.629630	73.925926
## 2775	1998-06-20	12.6516543	25.47836	6.3550739	3.250000	2.250000
## 2776	1998-06-21	12.8385878	25.49380	6.3350012	4.727273	49.454545
## 2777	1998-06-22	13.0255212	25.50924	6.3149285	2.888889	4.000000
## 2778	1998-06-23	10.9247828	25.28261	7.0258352	5.000000	8.250000
## 2779	1998-06-24	8.8240444	25.05599	7.7367418	6.727273	31.636364
## 2780	1998-06-25	6.7233061	24.82936	8.4476485	2.555556	7.055556
## 2781	1998-06-26	7.7075000	24.91352	7.9255334	4.000000	9.000000
## 2782	1998-06-27	8.6916939	24.99768	7.4034184	20.727273	9.454545
## 2783	1998-06-28	9.6758879	25.08185	6.8813033	2.909091	6.909091
## 2784	1998-06-29	10.8308818	25.17828	6.8933433	3.611111	12.055556
## 2785	1998-06-30	5.0339956	25.40156	5.7553518	22.000000	89.745455
## 2786	1998-07-01	3.9101857	25.35018	6.5073710	16.000000	48.333333
## 2787	1998-07-02	8.9114542	25.29326	6.1895350	6.148148	14.962963
## 2788	1998-07-03	7.5239121	25.32816	6.3439242	2.000000	2.888889
## 2789	1998-07-04	16.6182697	25.09308	7.2996406	2.166667	3.666667
## 2790	1998-07-05	16.3722470	25.03647	7.5417439	2.250000	4.250000
## 2791	1998-07-06	16.1262242	24.97986	7.7838471	41.636364	24.909091
## 2792	1998-07-07	15.8802015	24.92325	8.0259504	8.500000	28.500000
## 2793	1998-07-08	15.6341788	24.86664	8.2680536	2.277778	3.388889
## 2794	1998-07-09	13.5143960	24.79574	8.0580667	7.818182	8.909091
## 2795	1998-07-10	11.3946131	24.72484	7.8480797	1051.750000	124.000000
## 2796	1998-07-11	9.2748303	24.65393	7.6380927	2.510638	2.510638
## 2797	1998-07-12	7.9198152	24.91368	7.0529456	4.000000	25.750000
## 2798	1998-07-13	6.5648000	25.17342	6.4677984	32.533333	196.577778

## 2799	1998-07-14	4.5997604	25.26587	6.2367877	25.254237	155.016949
## 2800	1998-07-15	4.2139917	25.20036	6.5961715	4.035714	31.500000
## 2801	1998-07-16	4.7496606	24.42902	6.8602533	54.611111	40.944444
## 2802	1998-07-17	7.8056303	24.62689	7.0358109	2.000000	2.000000
## 2803	1998-07-18	6.6470640	24.72567	7.4106809	2.000000	2.181818
## 2804	1998-07-19	5.4884976	24.82444	7.7855510	4.105263	8.736842
## 2805	1998-07-20	5.7918956	24.92885	6.6390751	19.333333	20.000000
## 2806	1998-07-21	4.4917292	25.03327	7.3445763	2.148148	3.111111
## 2807	1998-07-22	4.9991828	24.84659	7.7369418	21.157895	6.526316
## 2808	1998-07-23	5.5066364	24.65992	8.1293073	2.777778	2.000000
## 2809	1998-07-24	5.3841859	24.52205	8.1450814	7.750000	5.500000
## 2810	1998-07-25	5.2617354	24.38419	8.1608556	10.545455	7.090909
## 2811	1998-07-26	5.1392848	24.24632	8.1766297	2.055556	2.555556
## 2812	1998-07-27	5.8491697	24.11864	8.2064886	6.250000	192.750000
## 2813	1998-07-28	6.5590545	23.99097	8.2363476	2.765957	3.489362
## 2814	1998-07-29	5.2191273	24.11605	8.1399685	2.000000	2.500000
## 2815	1998-07-30	5.6734803	24.09109	8.1881021	3.500000	16.750000
## 2816	1998-07-31	6.1278333	24.06613	8.2362358	2.000000	2.000000
## 2817	1998-08-01	5.0498292	23.97883	7.9573533	11.000000	29.736842
## 2818	1998-08-02	4.3753000	24.30283	8.2173238	59.611111	230.555556
## 2819	1998-08-03	2.6029643	24.83075	7.2223850	9.200000	14.600000
## 2820	1998-08-04	3.4315408	24.62922	7.4809262	4.750000	4.750000
## 2821	1998-08-05	4.2601174	24.42770	7.7394673	20.181818	3.818182
## 2822	1998-08-06	5.0886939	24.22617	7.9980085	2.555556	3.111111
## 2823	1998-08-07	4.5477030	24.01167	8.0170944	3.750000	8.500000
## 2824	1998-08-08	4.0067121	23.79717	8.0361803	2.611111	2.944444
## 2825	1998-08-09	3.3412485	24.13521	7.5733164	6.947368	4.421053
## 2826	1998-08-10	2.6757848	24.47326	7.1104524	2.111111	2.111111
## 2827	1998-08-11	3.1969455	24.39882	7.3044696	6.250000	7.250000
## 2828	1998-08-12	3.7181061	24.32438	7.4984869	7.272727	12.727273
## 2829	1998-08-13	4.2392667	24.24993	7.6925041	27.250000	7.750000
## 2830	1998-08-14	4.7604273	24.17549	7.8865213	24.545455	8.000000
## 2831	1998-08-15	5.2815879	24.10105	8.0805385	2.500000	5.500000
## 2832	1998-08-16	5.8027485	24.02661	8.2745558	2.000000	2.222222
## 2833	1998-08-17	5.5868076	24.47921	8.2059539	3.000000	4.250000
## 2834	1998-08-18	5.3708667	24.93181	8.1373521	2.000000	2.000000
## 2835	1998-08-19	4.4433133	25.04955	7.8339474	2.545455	4.363636
## 2836	1998-08-20	3.5157600	25.16729	7.5305427	2.277778	2.388889
## 2837	1998-08-21	5.0829000	25.00360	7.8599595	8.888889	42.148148
## 2838	1998-08-22	4.0000214	25.20685	7.5582521	10.789474	6.736842
## 2839	1998-08-23	3.4949531	24.95070	7.6076285	11.454545	5.090909
## 2840	1998-08-24	2.9898848	24.69455	7.6570048	2.444444	11.111111
## 2841	1998-08-25	3.0802742	24.67675	7.6259858	2.000000	4.000000
## 2842	1998-08-26	3.1706636	24.65895	7.5949667	4.893617	8.085106
## 2843	1998-08-27	3.1699455	24.77381	7.6945262	8.000000	4.250000
## 2844	1998-08-28	3.1692273	24.88868	7.7940858	2.500000	3.388889
## 2845	1998-08-29	3.9061394	24.88054	8.0831388	2.000000	2.000000
## 2846	1998-08-30	4.2043356	24.91799	7.9693689	102.218182	221.381818
## 2847	1998-08-31	2.3361708	24.68255	7.6695479	2.074074	9.481481
## 2848	1998-09-01	5.9818333	24.80885	7.7221521	3.000000	5.200000
## 2849	1998-09-02	1.9116711	25.09123	6.8233538	5.622642	4.528302
## 2850	1998-09-03	1.6175042	25.18379	6.3902200	7.050847	34.440678
## 2851	1998-09-04	1.6559333	25.22571	6.4082765	27.000000	259.125000
## 2852	1998-09-05	3.3168727	24.84138	7.2086315	2.388889	3.333333

##	2853	1998-09-06	3.5927828	24.84806	7.1612074	52.000000	93.250000
##	2854	1998-09-07	3.8686929	24.85475	7.1137832	2.000000	3.454545
##	2855	1998-09-08	4.1446030	24.86144	7.0663591	2.944444	10.888889
##	2856	1998-09-09	3.7246720	24.78861	7.2436023	2.500000	4.250000
##	2857	1998-09-10	3.3047409	24.71578	7.4208456	6.545455	2.727273
##	2858	1998-09-11	2.8848098	24.64295	7.5980889	30.250000	38.500000
##	2859	1998-09-12	2.4648788	24.57012	7.7753321	2.055556	2.777778
##	2860	1998-09-13	2.9694242	24.66269	7.6594212	3.148936	2.382979
##	2861	1998-09-14	3.1005106	24.73441	7.4462542	5.000000	4.750000
##	2862	1998-09-15	3.2315970	24.80613	7.2330873	7.111111	2.777778
##	2863	1998-09-16	4.3918689	25.15891	7.0441191	5.319149	5.191489
##	2864	1998-09-17	3.0721405	25.13366	7.0679381	5.789474	6.578947
##	2865	1998-09-18	2.8544750	25.10130	6.4232392	4.296296	3.777778
##	2866	1998-09-19	7.5216788	25.14190	7.2830936	2.111111	2.000000
##	2867	1998-09-20	6.1091621	25.09646	7.2139802	54.000000	17.578947
##	2868	1998-09-21	4.6966455	25.05102	7.1448667	2.722222	5.444444
##	2869	1998-09-22	0.8600000	23.89900	6.7600000	4.861111	6.222222
##	2870	1998-09-23	2.5301348	24.44724	6.9500906	7.000000	7.000000
##	2871	1998-09-24	4.2002697	24.99547	7.1401812	3.063830	3.063830
##	2872	1998-09-25	3.7805924	24.94556	7.3670689	21.250000	40.500000
##	2873	1998-09-26	3.3609152	24.89565	7.5939567	2.388889	7.555556
##	2874	1998-09-27	3.3702606	24.84700	7.6292008	2.727273	5.090909
##	2875	1998-09-28	3.3796061	24.79835	7.6644449	922.500000	1494.750000
##	2876	1998-09-29	3.3889515	24.74970	7.6996891	2.700000	7.800000
##	2877	1998-09-30	2.7840178	24.86574	7.5060556	84.936170	681.659574
##	2878	1998-10-01	3.5429283	24.80540	7.5847203	97.333333	220.000000
##	2879	1998-10-02	4.3018389	24.74506	7.6633850	49.666667	111.000000
##	2880	1998-10-03	3.6093683	24.84660	7.6451143	2.000000	2.000000
##	2881	1998-10-04	2.9168976	24.94814	7.6268436	23.170732	47.902439
##	2882	1998-10-05	1.9046394	24.92628	7.3436145	2.318182	6.000000
##	2883	1998-10-06	4.0121545	24.93948	7.7946897	2.888889	4.611111
##	2884	1998-10-07	3.6024182	24.95294	7.6563358	33.684211	18.947368
##	2885	1998-10-08	3.1926818	24.96641	7.5179818	3.555556	6.888889
##	2886	1998-10-09	3.3114242	25.04745	7.3880695	9.250000	11.500000
##	2887	1998-10-10	3.4301667	25.12849	7.2581571	13.090909	63.636364
##	2888	1998-10-11	3.5489091	25.20953	7.1282448	8.250000	5.250000
##	2889	1998-10-12	3.6676515	25.29057	6.9983324	3.055556	2.611111
##	2890	1998-10-13	3.3580345	25.26038	7.3871896	5.000000	4.000000
##	2891	1998-10-14	3.0484176	25.23019	7.7760468	11.818182	141.636364
##	2892	1998-10-15	2.7388006	25.20000	8.1649039	2.222222	7.666667
##	2893	1998-10-16	2.4291836	25.27048	7.1890289	196.000000	36.000000
##	2894	1998-10-17	2.1195667	25.34095	6.2131538	445.928571	328.857143
##	2895	1998-10-18	2.1972208	25.36324	6.2505500	87.423077	455.153846
##	2896	1998-10-19	2.0295979	25.44888	5.8806025	10.107143	39.964286
##	2897	1998-10-20	2.9304727	25.12073	7.3101742	7.055556	28.611111
##	2898	1998-10-21	4.9404061	25.25427	7.1231667	420.413793	440.482759
##	2899	1998-10-22	5.8471556	25.12772	8.0499484	328.526316	390.000000
##	2900	1998-10-23	3.4517667	25.25416	7.4155948	2.736842	3.157895
##	2901	1998-10-24	3.0215917	25.21184	7.1570733	4.000000	5.185185
##	2902	1998-10-25	4.9154091	25.17458	7.6968133	12.510638	9.106383
##	2903	1998-10-26	5.6737576	25.09144	7.8518314	3.750000	5.750000
##	2904	1998-10-27	6.4321061	25.00829	8.0068494	37.277778	17.500000
##	2905	1998-10-28	5.6601939	25.02531	7.9447778	1613.368421	1686.947368
##	2906	1998-10-29	4.8882818	25.04233	7.8827062	4233.333333	4140.000000

## 2907	1998-10-30	4.1163697	25.05935	7.8206345	5.166667	16.555556
## 2908	1998-10-31	4.0086191	25.12517	7.6219504	27.500000	39.750000
## 2909	1998-11-01	3.9008684	25.19100	7.4232663	1458.727273	1260.000000
## 2910	1998-11-02	3.7931178	25.25682	7.2245822	340.054054	342.216216
## 2911	1998-11-03	3.7926042	25.15263	7.6530971	171.993694	172.674775
## 2912	1998-11-04	4.7539476	25.26013	7.4988026	3.933333	3.133333
## 2913	1998-11-05	6.6376697	25.22964	7.4179527	3.263158	2.000000
## 2914	1998-11-06	6.9649606	25.15363	7.7275824	58.000000	1145.090909
## 2915	1998-11-07	7.2922515	25.07761	8.0372121	13.863636	127.500000
## 2916	1998-11-08	5.9919727	25.11677	7.8935674	40.500000	21.500000
## 2917	1998-11-09	4.6916939	25.15592	7.7499226	12.000000	12.000000
## 2918	1998-11-10	3.3914152	25.19508	7.6062779	32.566038	220.377358
## 2919	1998-11-11	4.7606121	25.15004	7.6487692	6558.000000	8120.000000
## 2920	1998-11-12	6.1298091	25.10500	7.6912605	144.750000	29.250000
## 2921	1998-11-13	7.4990061	25.05996	7.7337518	12.285714	26.857143
## 2922	1998-11-14	6.9817265	25.05659	7.7153198	1113.454545	1258.181818
## 2923	1998-11-15	6.4644470	25.05321	7.6968877	12000.000000	12000.000000
## 2924	1998-11-16	5.9471674	25.04984	7.6784557	2.000000	2.750000
## 2925	1998-11-17	5.4298879	25.04647	7.6600236	8.238095	30.380952
## 2926	1998-11-18	5.5518924	25.06279	7.7374012	2.000000	2.000000
## 2927	1998-11-19	5.6738970	25.07911	7.8147788	1466.545455	2358.909091
## 2928	1998-11-20	5.7959015	25.09543	7.8921564	89.454545	493.636364
## 2929	1998-11-21	5.9179061	25.11175	7.9695339	2.571429	3.476190
## 2930	1998-11-22	5.5343323	25.07303	7.8024926	95.894737	153.684211
## 2931	1998-11-23	5.1507586	25.03431	7.6354513	8.000000	2.000000
## 2932	1998-11-24	4.7671848	24.99559	7.4684100	2.095238	2.190476
## 2933	1998-11-25	4.7716485	25.38699	6.3664667	2.615385	2.769231
## 2934	1998-11-26	3.9942511	25.44135	6.1956604	30.042553	72.255319
## 2935	1998-11-27	3.5690667	25.38566	6.6867683	18.857143	33.028571
## 2936	1998-11-28	4.6577238	25.51064	5.8921102	3.133333	2.133333
## 2937	1998-11-29	8.8442271	25.54683	6.3144125	2.750000	9.000000
## 2938	1998-11-30	13.0307303	25.58302	6.7367148	2.339623	2.301887
## 2939	1998-12-01	12.6028652	25.55960	6.6921044	3.250000	6.500000
## 2940	1998-12-02	12.1750000	25.53618	6.6474939	3.724138	2.689655
## 2941	1998-12-03	8.2550022	25.66534	5.6881478	2.222222	2.666667
## 2942	1998-12-04	4.8647048	25.66268	5.7011683	2.000000	2.200000
## 2943	1998-12-05	4.9882125	25.47955	6.0080788	2.926829	2.487805
## 2944	1998-12-06	6.1742911	25.58219	5.7198626	34.363636	101.818182
## 2945	1998-12-07	7.3603697	25.68483	5.4316464	12.600000	36.480000
## 2946	1998-12-08	11.2073909	25.63742	6.2124715	9.698113	4.641509
## 2947	1998-12-09	3.1069800	25.79714	4.8850873	26.867925	72.566038
## 2948	1998-12-10	2.4995958	25.83034	4.5670294	77.250000	235.875000
## 2949	1998-12-11	2.7730000	25.75888	5.0132440	2.083333	2.000000
## 2950	1998-12-12	5.7893909	25.44665	6.2678200	2.000000	2.428571
## 2951	1998-12-13	7.3249000	25.48117	6.1260671	4.105263	3.157895
## 2952	1998-12-14	8.8604091	25.51569	5.9843142	2.880000	2.800000
## 2953	1998-12-15	10.3959182	25.33368	6.7798148	2.909091	3.636364
## 2954	1998-12-16	11.9314273	25.15168	7.5753155	2.000000	2.238095
## 2955	1998-12-17	10.1862727	25.20870	7.1215280	2.500000	2.250000
## 2956	1998-12-18	8.4411182	25.26572	6.6677405	50.181818	62.545455
## 2957	1998-12-19	6.6959636	25.32274	6.2139530	2.380952	5.714286
## 2958	1998-12-20	8.6934697	25.34615	6.3785742	3.750000	3.750000
## 2959	1998-12-21	10.6909758	25.36957	6.5431955	2.555556	5.666667
## 2960	1998-12-22	11.4919970	25.29918	7.0623703	5.818182	13.636364

##	2961	1998-12-23	12.2930182	25.22880	7.5815452	2.000000	2.444444
##	2962	1998-12-24	5.6870417	25.11083	6.8292250	2.000000	2.787879
##	2963	1998-12-25	7.9934048	25.24552	6.8459557	2.421053	2.052632
##	2964	1998-12-26	5.8362145	25.03382	6.7620224	5.272727	5.636364
##	2965	1998-12-27	3.6790242	24.82213	6.6780891	4.640000	5.040000
##	2966	1998-12-28	4.4674515	24.98200	6.3258573	13.924528	24.452830
##	2967	1998-12-29	7.0557258	25.32044	5.8590239	2.000000	3.750000
##	2968	1998-12-30	9.6440000	25.65887	5.3921906	2.444444	2.666667
##	2969	1998-12-31	13.0603111	25.54488	6.1063110	31.894737	55.789474
##	2970	1999-01-01	16.4766222	25.43089	6.8204313	2.388889	2.277778
##	2971	1999-01-02	7.5988143	25.53510	5.9417345	2.200000	3.133333
##	2972	1999-01-03	15.9182250	25.30776	6.8813433	2.181818	7.757576
##	2973	1999-01-04	12.9692460	25.11790	7.0579632	2.500000	4.500000
##	2974	1999-01-05	10.0202669	24.92804	7.2345831	6.181818	11.454545
##	2975	1999-01-06	7.0712879	24.73818	7.4112030	2.000000	2.333333
##	2976	1999-01-07	6.3807505	24.84534	7.1197218	2.000000	2.000000
##	2977	1999-01-08	5.6902131	24.95250	6.8282406	10.363636	20.909091
##	2978	1999-01-09	4.9996758	25.05965	6.5367594	2.000000	2.428571
##	2979	1999-01-10	7.4699773	24.63529	7.4934030	5.000000	5.750000
##	2980	1999-01-11	9.9402788	24.21092	8.4500467	2.142857	2.952381
##	2981	1999-01-12	9.5549384	24.31833	7.9600139	9.090909	36.545455
##	2982	1999-01-13	9.1695980	24.42574	7.4699812	2.000000	10.250000
##	2983	1999-01-14	8.7842576	24.53314	6.9799485	3.000000	4.380952
##	2984	1999-01-15	6.0321061	24.70213	6.2550918	2.909091	4.000000
##	2985	1999-01-16	3.2799545	24.87112	5.5302352	2.666667	4.523810
##	2986	1999-01-17	3.0575551	25.04010	5.9739572	9.250000	10.250000
##	2987	1999-01-18	2.8351556	25.20909	6.4176793	26.750000	212.321429
##	2988	1999-01-19	1.7776042	25.23973	6.3031917	93.178571	572.857143
##	2989	1999-01-20	1.9048250	25.25107	6.4280906	21.500000	106.875000
##	2990	1999-01-21	4.8314424	24.45518	7.6473897	2.142857	3.000000
##	2991	1999-01-22	5.9559939	24.81915	8.2286815	2.000000	2.111111
##	2992	1999-01-23	8.5819444	24.94814	7.0606033	11.636364	29.309091
##	2993	1999-01-24	4.5044119	25.06967	7.1625243	2.000000	2.266667
##	2994	1999-01-25	2.8121125	24.76048	6.8111250	2.000000	2.000000
##	2995	1999-01-26	3.9835033	24.65794	7.1481755	4.000000	13.750000
##	2996	1999-01-27	5.1548941	24.55540	7.4852259	2.000000	4.363636
##	2997	1999-01-28	6.3262848	24.45286	7.8222764	2.380952	6.714286
##	2998	1999-01-29	6.6972000	24.48822	7.4351432	5.250000	7.250000
##	2999	1999-01-30	7.0681152	24.52359	7.0480100	2.226415	2.981132
##	3000	1999-01-31	4.4689939	24.27497	7.7990042	4.560000	5.880000
##	3001	1999-02-01	4.8554357	24.59875	8.1081095	4.731707	3.804878
##	3002	1999-02-02	8.5573911	24.46105	8.6357696	2.000000	2.000000
##	3003	1999-02-03	3.7548333	24.23202	7.5886283	2.606061	3.636364
##	3004	1999-02-04	7.7677424	24.62415	8.5813288	3.384615	3.384615
##	3005	1999-02-05	6.7868152	24.59366	8.2159276	2.363636	3.090909
##	3006	1999-02-06	5.8058879	24.56316	7.8505264	2.809524	12.904762
##	3007	1999-02-07	5.3809591	24.55354	7.5816814	2.000000	2.000000
##	3008	1999-02-08	4.9560303	24.54392	7.3128364	4.188679	7.132075
##	3009	1999-02-09	4.4941152	24.48688	7.4155726	36.500000	64.000000
##	3010	1999-02-10	4.0322000	24.42983	7.5183088	2.476190	3.095238
##	3011	1999-02-11	4.3280939	24.37364	7.7892187	2.736842	11.789474
##	3012	1999-02-12	4.6239879	24.31746	8.0601286	6.000000	12.750000
##	3013	1999-02-13	4.9198818	24.26128	8.3310386	10.727273	5.090909
##	3014	1999-02-14	5.2157758	24.20509	8.6019485	2.190476	2.857143

## 3015	1999-02-15	5.9877545	24.36531	8.6392964	3.250000	3.250000
## 3016	1999-02-16	6.7597333	24.52552	8.6766442	6.127660	23.957447
## 3017	1999-02-17	4.4911250	24.25489	7.9888879	2.606061	2.484848
## 3018	1999-02-18	5.7798310	24.56898	8.5351667	39.066667	6.933333
## 3019	1999-02-19	11.6577545	24.48495	8.4584670	2.555556	2.111111
## 3020	1999-02-20	8.1039106	24.51530	8.1503973	8.750000	19.750000
## 3021	1999-02-21	4.5500667	24.54566	7.8423276	2.285714	5.238095
## 3022	1999-02-22	4.2316667	24.46139	7.6859728	68.000000	20.181818
## 3023	1999-02-23	3.9132667	24.37712	7.5296181	14.750000	19.000000
## 3024	1999-02-24	3.5948667	24.29286	7.3732633	2.190476	3.238095
## 3025	1999-02-25	3.7420222	24.36917	7.2354776	8.181818	5.636364
## 3026	1999-02-26	3.8891778	24.44548	7.0976918	3.000000	10.000000
## 3027	1999-02-27	4.0363333	24.52179	6.9599061	5.095238	9.047619
## 3028	1999-02-28	3.7211258	24.50595	7.1964088	10.000000	4.631579
## 3029	1999-03-01	3.4059182	24.49010	7.4329115	2.190476	2.095238
## 3030	1999-03-02	2.2346867	24.71136	7.5647764	17.155556	164.088889
## 3031	1999-03-03	2.1627208	24.79057	7.4697775	8.298507	106.567164
## 3032	1999-03-04	2.3237125	24.85481	7.2445417	2.000000	2.000000
## 3033	1999-03-05	2.2342909	23.94426	6.8044406	2.047619	2.190476
## 3034	1999-03-06	4.6454758	24.59134	7.8762533	4.538462	3.076923
## 3035	1999-03-07	5.0218089	24.72591	7.8272658	186.170213	290.425532
## 3036	1999-03-08	4.8209214	24.66895	8.4035588	16.733333	59.866667
## 3037	1999-03-09	2.8512333	24.57672	7.1423146	2.000000	2.181818
## 3038	1999-03-10	2.6730293	24.53651	7.1836704	47.000000	8.000000
## 3039	1999-03-11	2.4948253	24.49630	7.2250263	2.000000	2.000000
## 3040	1999-03-12	2.3166212	24.45608	7.2663821	2.000000	2.000000
## 3041	1999-03-13	2.3651985	24.50886	7.1871244	4.250000	7.250000
## 3042	1999-03-14	2.4137758	24.56163	7.1078667	3.849057	6.301887
## 3043	1999-03-15	2.8679530	24.42659	7.3084027	11.000000	19.250000
## 3044	1999-03-16	3.3221303	24.29155	7.5089388	2.000000	2.619048
## 3045	1999-03-17	4.7368600	24.29102	8.1988040	2.944444	7.555556
## 3046	1999-03-18	3.5643955	24.44155	7.9873213	152.909091	93.454545
## 3047	1999-03-19	2.3919310	24.59208	7.7758386	518.774194	75.483871
## 3048	1999-03-20	2.9885208	24.41137	7.0987042	2.146341	3.121951
## 3049	1999-03-21	3.7462576	24.66188	7.3814279	2.333333	2.000000
## 3050	1999-03-22	2.6455970	24.59381	6.4852518	11.147541	12.360656
## 3051	1999-03-23	0.7700000	23.91900	6.6400000	6.645199	7.466042
## 3052	1999-03-24	3.4989152	24.66768	6.5626379	2.142857	2.571429
## 3053	1999-03-25	3.0751409	24.58607	6.7124065	3.052632	2.421053
## 3054	1999-03-26	2.6513667	24.50445	6.8621752	2.680000	3.280000
## 3055	1999-03-27	3.3684566	24.50849	7.1314489	9.818182	15.636364
## 3056	1999-03-28	4.0855465	24.51254	7.4007226	36.750000	25.500000
## 3057	1999-03-29	4.8026364	24.51658	7.6699964	29.111111	15.111111
## 3058	1999-03-30	4.6700089	24.58846	7.6299062	78.425532	521.234043
## 3059	1999-03-31	3.3642956	24.66464	7.6307887	7.090909	52.666667
## 3060	1999-04-01	2.1221958	24.46667	6.5815658	2.060606	3.151515
## 3061	1999-04-02	2.3765376	24.50169	6.7194296	10.000000	10.000000
## 3062	1999-04-03	2.6308794	24.53670	6.8572935	10.909091	36.727273
## 3063	1999-04-04	2.8852212	24.57171	6.9951573	3.047619	2.285714
## 3064	1999-04-05	2.7654394	24.63176	6.9933647	26.000000	25.500000
## 3065	1999-04-06	2.6456576	24.69180	6.9915721	1137.471698	498.754717
## 3066	1999-04-07	2.5130505	24.65883	7.0198678	8266.666667	5186.666667
## 3067	1999-04-08	2.3804434	24.62585	7.0481634	750.500000	130.750000
## 3068	1999-04-09	2.2478364	24.59288	7.0764591	248.142857	159.809524

##	3069	1999-04-10	2.5048833	24.64645	6.8416573	290.000000	58.000000
##	3070	1999-04-11	2.7619303	24.70001	6.6068555	107.047619	24.571429
##	3071	1999-04-12	2.9810056	24.73754	6.7941951	5070.000000	4900.000000
##	3072	1999-04-13	3.2000810	24.77506	6.9815347	2722.181818	3294.181818
##	3073	1999-04-14	3.4191563	24.81259	7.1688743	19.750000	11.000000
##	3074	1999-04-15	3.6382316	24.85011	7.3562139	139.090909	434.727273
##	3075	1999-04-16	3.8573069	24.88764	7.5435535	370.000000	5600.000000
##	3076	1999-04-17	4.0763823	24.92517	7.7308931	3.750000	21.000000
##	3077	1999-04-18	4.2954576	24.96269	7.9182327	448.068966	610.413793
##	3078	1999-04-19	3.4610089	24.96529	7.7982338	84.550000	690.300000
##	3079	1999-04-20	2.9724500	25.02584	7.3823621	21.066667	53.200000
##	3080	1999-04-21	2.2499909	25.02087	6.7698748	5.523810	17.095238
##	3081	1999-04-22	3.3141172	25.00113	6.9376865	7.000000	2.750000
##	3082	1999-04-23	4.3782434	24.98140	7.1054981	69.090909	1064.545455
##	3083	1999-04-24	5.4423697	24.96166	7.2733097	26.511628	249.209302
##	3084	1999-04-25	4.8661583	24.93160	7.3090424	16.666667	303.333333
##	3085	1999-04-26	4.2899468	24.90154	7.3447752	8.500000	4.750000
##	3086	1999-04-27	3.7137354	24.87147	7.3805079	548.545455	1661.636364
##	3087	1999-04-28	3.1375239	24.84141	7.4162406	1211.000000	6013.000000
##	3088	1999-04-29	2.5613125	24.81135	7.4519733	2.363636	3.333333
##	3089	1999-04-30	2.4999381	24.78550	7.2688197	52.500000	26.000000
##	3090	1999-05-01	2.4385636	24.75965	7.0856661	2.285714	2.476190
##	3091	1999-05-02	2.6152384	24.83425	7.0639174	104.727273	750.181818
##	3092	1999-05-03	2.7919131	24.90884	7.0421687	8.000000	10.000000
##	3093	1999-05-04	2.9685879	24.98344	7.0204200	2.714286	4.761905
##	3094	1999-05-05	9.4389244	25.00475	7.5124624	109.888889	475.944444
##	3095	1999-05-06	5.8184810	25.06534	7.2096798	95.073171	296.000000
##	3096	1999-05-07	6.8338000	25.00222	7.4441807	37.500000	64.125000
##	3097	1999-05-08	4.9701917	24.92189	7.6530316	30.500000	7.750000
##	3098	1999-05-09	3.1065833	24.84155	7.8618825	8.242424	2.424242
##	3099	1999-05-10	1.6677208	25.20554	6.0918944	274.881356	238.237288
##	3100	1999-05-11	2.2692364	24.91271	6.9000455	244.078431	240.470588
##	3101	1999-05-12	1.7851583	25.28541	5.9592365	6.750000	56.500000
##	3102	1999-05-13	1.9980844	25.27846	5.8634913	2.622222	2.133333
##	3103	1999-05-14	3.7650697	24.92806	7.3982164	1074.918033	849.049180
##	3104	1999-05-15	3.5445167	24.94199	7.3526782	254.727273	1016.545455
##	3105	1999-05-16	3.3239636	24.95592	7.3071400	8.720000	26.400000
##	3106	1999-05-17	3.4270273	24.98417	7.1791968	1768.000000	1250.000000
##	3107	1999-05-18	3.5300909	25.01243	7.0512535	12000.000000	12000.000000
##	3108	1999-05-19	3.6331545	25.04068	6.9233103	3.428571	4.809524
##	3109	1999-05-20	4.4299039	25.16869	6.4333884	2.000000	8.750000
##	3110	1999-05-21	5.2266533	25.29669	5.9434664	34.388889	505.055556
##	3111	1999-05-22	5.1019481	25.32374	5.9125223	1138.363636	2624.363636
##	3112	1999-05-23	4.9772429	25.35079	5.8815781	248.727273	538.969697
##	3113	1999-05-24	3.5747667	25.17833	6.1149550	2.424242	2.303030
##	3114	1999-05-25	7.5056030	25.41339	5.7879912	6.000000	9.222222
##	3115	1999-05-26	7.1761674	25.36542	6.0573344	6.000000	5.250000
##	3116	1999-05-27	6.8467318	25.31744	6.3266776	22.727273	47.818182
##	3117	1999-05-28	6.5172962	25.26947	6.5960208	2.500000	4.250000
##	3118	1999-05-29	6.1878606	25.22149	6.8653639	2.761905	9.761905
##	3119	1999-05-30	5.6528788	25.27391	6.5843688	3.698113	5.018868
##	3120	1999-05-31	7.9246636	25.09554	7.2676195	7.250000	3.750000
##	3121	1999-06-01	10.1964485	24.91716	7.9508703	2.285714	2.047619
##	3122	1999-06-02	10.5489374	24.99008	7.7997749	21.636364	18.545455

## 3123	1999-06-03	10.9014263	25.06299	7.6486796	4.750000	3.500000
## 3124	1999-06-04	11.2539152	25.13591	7.4975842	2.190476	2.571429
## 3125	1999-06-05	8.5842576	25.02115	7.9289803	9.500000	28.500000
## 3126	1999-06-06	5.9146000	24.90640	8.3603764	3.358491	4.792453
## 3127	1999-06-07	5.9060788	25.03061	6.7217997	2.000000	3.076923
## 3128	1999-06-08	5.3525786	25.12154	6.4208505	4.780488	10.926829
## 3129	1999-06-09	5.6045956	25.03193	6.4250362	89.111111	285.722222
## 3130	1999-06-10	2.9519583	25.13137	6.5708279	2.666667	3.272727
## 3131	1999-06-11	2.8182998	25.19743	6.4449375	2.500000	4.500000
## 3132	1999-06-12	2.6846413	25.26350	6.3190470	1288.363636	2480.727273
## 3133	1999-06-13	2.5509828	25.32956	6.1931565	10.666667	41.333333
## 3134	1999-06-14	2.4173242	25.39563	6.0672661	2.761905	4.285714
## 3135	1999-06-15	5.7414924	25.37340	6.5567109	2.000000	2.000000
## 3136	1999-06-16	9.0656606	25.35118	7.0461558	2.226415	8.000000
## 3137	1999-06-17	8.2174758	25.15516	7.6483395	3.750000	5.000000
## 3138	1999-06-18	7.3692909	24.95914	8.2505233	2.047619	2.142857
## 3139	1999-06-19	6.2706646	25.06993	7.1589788	30.909091	46.181818
## 3140	1999-06-20	5.1720384	25.18073	6.0674342	4.750000	12.000000
## 3141	1999-06-21	4.0734121	25.29152	4.9758897	2.571429	2.619048
## 3142	1999-06-22	2.7591133	25.57372	4.7789031	2.088889	2.711111
## 3143	1999-06-23	2.2644083	25.66112	4.5325800	50.125000	672.041667
## 3144	1999-06-24	2.1869042	25.69094	4.2888258	9.552239	92.238806
## 3145	1999-06-25	11.7470182	25.28675	5.6097824	3.523810	4.190476
## 3146	1999-06-26	17.9609422	24.91884	7.6552380	2.055556	2.444444
## 3147	1999-06-27	13.6748842	24.99476	7.1186452	10.105263	6.315789
## 3148	1999-06-28	9.3888262	25.07067	6.5820524	2.266667	2.733333
## 3149	1999-06-29	9.9177722	24.71375	7.0511779	4.121212	33.090909
## 3150	1999-06-30	10.4467182	24.63418	7.5203033	2.000000	2.333333
## 3151	1999-07-01	8.5435162	24.75805	6.8194831	2.000000	2.750000
## 3152	1999-07-02	6.6403141	24.88192	6.1186629	2.909091	8.363636
## 3153	1999-07-03	4.7371121	25.00579	5.4178427	70.809524	7.380952
## 3154	1999-07-04	4.7242909	25.02148	5.3654815	4.000000	6.000000
## 3155	1999-07-05	4.7114697	25.03718	5.3131203	18.716981	4.566038
## 3156	1999-07-06	3.9821970	25.03138	5.5117431	2.000000	2.500000
## 3157	1999-07-07	3.2529242	25.02559	5.7103660	2.181818	4.545455
## 3158	1999-07-08	2.5236515	25.01979	5.9089888	2.095238	4.142857
## 3159	1999-07-09	6.2039846	25.08661	6.1334578	6.750000	9.250000
## 3160	1999-07-10	9.8843178	25.15343	6.3579269	17.333333	65.055556
## 3161	1999-07-11	6.9848881	24.98139	6.6383428	10.181818	7.272727
## 3162	1999-07-12	4.0854583	24.80935	6.9187588	12.545455	2.121212
## 3163	1999-07-13	5.5427429	25.06275	6.6828681	5.052632	19.789474
## 3164	1999-07-14	11.1702273	25.06460	6.6894206	2.000000	2.000000
## 3165	1999-07-15	3.8425182	24.60757	6.7412561	5.433962	10.301887
## 3166	1999-07-16	6.3456212	24.61830	6.6966356	2.250000	2.000000
## 3167	1999-07-17	8.8487242	24.62902	6.6520152	862.190476	5.000000
## 3168	1999-07-18	6.4938439	24.72553	6.2486130	42.526316	5.157895
## 3169	1999-07-19	4.1389636	24.82203	5.8452109	48.428571	5.095238
## 3170	1999-07-20	4.6145313	24.91699	5.7413545	2.500000	3.000000
## 3171	1999-07-21	5.0900990	25.01195	5.6374982	2.000000	2.181818
## 3172	1999-07-22	5.5656667	25.10690	5.5336418	17.571429	2.761905
## 3173	1999-07-23	8.8610356	25.18849	6.0222605	2.750000	2.750000
## 3174	1999-07-24	12.1564044	25.27007	6.5108791	28.222222	56.444444
## 3175	1999-07-25	12.1197367	25.15372	6.7551079	3.545455	2.500000
## 3176	1999-07-26	12.0830690	25.03736	6.9993367	2.000000	2.933333

## 3177	1999-07-27	14.3809939	24.88410	7.8139461	2.444444	5.666667
## 3178	1999-07-28	11.5623747	24.76936	7.7470507	8.500000	6.750000
## 3179	1999-07-29	8.7437556	24.65462	7.6801554	18.000000	76.727273
## 3180	1999-07-30	5.9251364	24.53988	7.6132600	2.857143	2.333333
## 3181	1999-07-31	4.9972197	24.47863	7.5651779	5.000000	2.000000
## 3182	1999-08-01	4.0693030	24.41738	7.5170958	2.000000	2.000000
## 3183	1999-08-02	4.9732048	24.32697	7.4509712	36.727273	16.545455
## 3184	1999-08-03	5.8771067	24.23656	7.3848465	9.250000	5.500000
## 3185	1999-08-04	6.7810085	24.14615	7.3187219	15.090909	4.363636
## 3186	1999-08-05	7.6849103	24.05574	7.2525973	177.250000	3.500000
## 3187	1999-08-06	8.5888121	23.96533	7.1864727	4.000000	9.190476
## 3188	1999-08-07	1.7749622	24.91661	6.0104562	6.755556	39.200000
## 3189	1999-08-08	1.7952051	25.02593	5.8486901	4.842105	9.368421
## 3190	1999-08-09	1.8154479	25.13526	5.6869240	11.333333	53.875000
## 3191	1999-08-10	2.2702604	25.11809	5.8274950	10.875000	121.000000
## 3192	1999-08-11	4.7365515	24.65564	6.4622567	13.761905	2.428571
## 3193	1999-08-12	9.3571978	24.70142	7.4099982	43.045455	180.272727
## 3194	1999-08-13	9.6707810	24.68170	7.5098417	4.390244	3.853659
## 3195	1999-08-14	9.0899000	24.63511	7.3910233	2.111111	2.000000
## 3196	1999-08-15	2.8612708	24.26395	6.2195162	12.787879	4.303030
## 3197	1999-08-16	2.8916775	24.28567	6.2338420	2.000000	2.750000
## 3198	1999-08-17	2.9220842	24.30740	6.2481678	9.090909	6.000000
## 3199	1999-08-18	2.9524909	24.32912	6.2624936	12.190476	3.190476
## 3200	1999-08-19	2.9242545	24.27066	6.3218753	14.000000	11.000000
## 3201	1999-08-20	2.8960182	24.21220	6.3812570	3.471698	2.716981
## 3202	1999-08-21	3.2805561	24.21182	6.5707177	8.000000	11.250000
## 3203	1999-08-22	3.6650939	24.21144	6.7601785	15.190476	7.095238
## 3204	1999-08-23	3.2691788	24.13615	6.9140298	2.727273	3.818182
## 3205	1999-08-24	2.8732636	24.06085	7.0678811	5.750000	13.750000
## 3206	1999-08-25	2.4773485	23.98556	7.2217324	2.333333	3.904762
## 3207	1999-08-26	3.0813561	23.88328	7.0316476	19.090909	8.727273
## 3208	1999-08-27	3.6853636	23.78099	6.8415627	33.160000	5.840000
## 3209	1999-08-28	3.7621583	24.50410	6.4785487	8.307692	3.384615
## 3210	1999-08-29	7.0484119	24.57002	7.5076786	132.722222	197.722222
## 3211	1999-08-30	7.6253667	24.43704	7.6109222	27.619048	7.619048
## 3212	1999-08-31	2.6708143	24.34993	7.2888545	2.000000	2.000000
## 3213	1999-09-01	3.9451636	24.29965	7.0370824	4.440000	4.200000
## 3214	1999-09-02	3.3681045	24.25166	7.0232305	11.636364	9.636364
## 3215	1999-09-03	2.7910455	24.20367	7.0093785	5.280000	2.280000
## 3216	1999-09-04	2.4747197	24.22078	6.9022850	4.909091	9.090909
## 3217	1999-09-05	2.1583939	24.23789	6.7951915	16.080000	7.160000
## 3218	1999-09-06	4.4540644	24.41706	7.5552547	3.666667	7.555556
## 3219	1999-09-07	3.1750714	24.47113	7.4468110	4.000000	2.536585
## 3220	1999-09-08	4.2594333	24.27836	7.3997130	10.777778	14.111111
## 3221	1999-09-09	2.6196833	24.20255	6.6471554	167.951220	17.707317
## 3222	1999-09-10	2.9856235	24.14553	6.5346579	2.000000	2.000000
## 3223	1999-09-11	3.3515636	24.08852	6.4221603	6.720000	5.000000
## 3224	1999-09-12	2.6681970	24.13518	6.3902398	13.090909	3.090909
## 3225	1999-09-13	1.9848303	24.18185	6.3583194	6.680000	4.440000
## 3226	1999-09-14	2.3135939	24.11965	6.3815767	4.327869	2.819672
## 3227	1999-09-15	2.4574870	24.50970	6.5771559	4.000000	14.000000
## 3228	1999-09-16	2.6013800	24.89976	6.7727351	5.018868	8.037736
## 3229	1999-09-17	2.4440265	24.93490	6.7066167	8.363636	3.454545
## 3230	1999-09-18	2.2866729	24.97004	6.6404983	23.875000	273.833333

##	3231	1999-09-19	2.3229458	24.86947	6.8460927	2.625000	2.458333
##	3232	1999-09-20	3.3075121	24.51421	8.3514239	2.904762	2.142857
##	3233	1999-09-21	7.2711222	24.58227	7.5247200	4.181818	11.954545
##	3234	1999-09-22	4.8642571	24.67565	7.4008819	4.341463	3.121951
##	3235	1999-09-23	6.5645091	24.73476	7.1449952	2.000000	2.222222
##	3236	1999-09-24	1.7669333	24.37823	7.9564950	3.212121	2.181818
##	3237	1999-09-25	0.7000000	23.93200	6.6600000	4.250000	7.500000
##	3238	1999-09-26	1.3778212	24.19970	7.3600700	38.545455	4.727273
##	3239	1999-09-27	2.0556424	24.46740	8.0601400	2.428571	3.619048
##	3240	1999-09-28	2.1505606	24.42898	8.1198752	8.000000	5.250000
##	3241	1999-09-29	2.2454788	24.39055	8.1796103	3.773585	11.207547
##	3242	1999-09-30	2.2495864	24.46346	7.9767085	3.250000	3.000000
##	3243	1999-10-01	2.2536939	24.53636	7.7738067	23.047619	11.571429
##	3244	1999-10-02	2.3008311	24.55392	7.8512193	52.363636	1327.090909
##	3245	1999-10-03	2.3479682	24.57148	7.9286320	26.000000	1200.000000
##	3246	1999-10-04	2.3951053	24.58904	8.0060446	7.500000	8.500000
##	3247	1999-10-05	2.4422424	24.60660	8.0834573	32.000000	3.904762
##	3248	1999-10-06	2.2383936	24.60983	8.0289548	4.000000	2.000000
##	3249	1999-10-07	2.0345447	24.61305	7.9744524	6515.090909	2584.545455
##	3250	1999-10-08	1.8306958	24.61628	7.9199500	600.083333	440.833333
##	3251	1999-10-09	0.6685095	24.66991	7.1042048	47.400000	18.666667
##	3252	1999-10-10	0.7062697	24.80313	7.0999706	27.111111	5.888889
##	3253	1999-10-11	2.6390818	24.59230	7.9973888	37.142857	6.333333
##	3254	1999-10-12	2.3993205	24.61144	7.9196114	2.000000	2.000000
##	3255	1999-10-13	2.1595591	24.63058	7.8418339	809.157895	565.263158
##	3256	1999-10-14	1.9197977	24.64971	7.7640565	50.666667	80.000000
##	3257	1999-10-15	1.6800364	24.66885	7.6862791	2.619048	3.095238
##	3258	1999-10-16	3.0646422	24.70389	7.0330869	59.888889	38.500000
##	3259	1999-10-17	3.0021841	24.72541	7.2435718	1754.000000	7.250000
##	3260	1999-10-18	2.9397259	24.74692	7.4540566	176.727273	215.090909
##	3261	1999-10-19	2.8772678	24.76843	7.6645415	3.000000	2.000000
##	3262	1999-10-20	2.8148097	24.78995	7.8750263	16.000000	5.500000
##	3263	1999-10-21	2.7523515	24.81146	8.0855112	2.000000	2.000000
##	3264	1999-10-22	2.3997174	24.80717	8.0602556	167.636364	268.363636
##	3265	1999-10-23	2.0470833	24.80288	8.0350000	2.121212	2.060606
##	3266	1999-10-24	6.9988889	24.80102	7.6097778	288.893617	350.723404
##	3267	1999-10-25	4.0692857	24.74950	7.4385714	4.580645	3.548387
##	3268	1999-10-26	7.1803030	24.80597	7.6936364	8.444444	4.555556
##	3269	1999-10-27	3.1360606	24.71891	8.3166667	11.698113	3.433962
##	3270	1999-10-28	2.3387879	24.67717	8.0803030	5457.454545	1874.000000
##	3271	1999-10-29	1.5415152	24.63542	7.8439394	97.904762	12.952381
##	3272	1999-10-30	1.7550000	24.64309	7.8348485	4336.666667	5340.000000
##	3273	1999-10-31	1.9684848	24.65076	7.8257576	15.857143	11.571429
##	3274	1999-11-01	2.8645455	24.67767	7.8839394	9.904762	5.238095
##	3275	1999-11-02	2.7789091	24.68412	7.9800606	379.090909	262.727273
##	3276	1999-11-03	2.6932727	24.69058	8.0761818	180.000000	260.000000
##	3277	1999-11-04	2.6076364	24.69703	8.1723030	1674.000000	2731.454545
##	3278	1999-11-05	2.5220000	24.70348	8.2684242	9666.666667	9266.666667
##	3279	1999-11-06	2.4363636	24.70994	8.3645455	28.952381	32.476190
##	3280	1999-11-07	2.4887879	24.74158	7.6433333	166.385281	203.965368
##	3281	1999-11-08	2.4542424	24.68220	7.8371212	303.818182	375.454545
##	3282	1999-11-09	2.4196970	24.62282	8.0309091	4.363636	19.363636
##	3283	1999-11-10	3.8462929	24.63973	7.8997879	4.000000	46.000000
##	3284	1999-11-11	5.2728889	24.65664	7.7686667	558.680851	629.872340

##	3285	1999-11-12	2.3233333	24.71579	7.4427273	86.888889	304.444444
##	3286	1999-11-13	3.6169048	24.80760	7.2550000	45.444444	153.611111
##	3287	1999-11-14	3.8578788	24.86733	7.0166667	4.000000	2.777778
##	3288	1999-11-15	1.8085714	24.85850	7.0000000	5.708333	14.680556
##	3289	1999-11-16	1.5770833	25.16996	6.1635417	7.416667	26.583333
##	3290	1999-11-17	2.1231111	25.04873	6.4988889	76.392857	215.285714
##	3291	1999-11-18	4.8781818	24.90003	6.8890909	10.190476	15.190476
##	3292	1999-11-19	10.0054545	24.77424	7.6863636	282.000000	327.888889
##	3293	1999-11-20	6.4912689	24.88550	7.2571402	230.000000	310.000000
##	3294	1999-11-21	2.9770833	24.99675	6.8279167	2.303030	4.181818
##	3295	1999-11-22	1.2783333	25.47779	5.3387500	10.227273	40.066919
##	3296	1999-11-23	3.0288095	25.50569	5.5550000	18.151515	75.952020
##	3297	1999-11-24	4.0651515	25.39991	6.0227273	26.075758	111.837121
##	3298	1999-11-25	3.5166667	25.41200	6.3002222	34.000000	147.722222
##	3299	1999-11-26	6.9524242	25.05485	7.8751515	107.619048	4.904762
##	3300	1999-11-27	5.5262121	25.02582	7.6398485	188.000000	1538.666667
##	3301	1999-11-28	4.1000000	24.99679	7.4045455	2.000000	2.476190
##	3302	1999-11-29	5.8736364	25.22942	6.4393939	7.476190	32.476190
##	3303	1999-11-30	6.8792424	25.17330	6.4250000	2.000000	140.000000
##	3304	1999-12-01	7.8848485	25.11718	6.4106061	2.142857	3.761905
##	3305	1999-12-02	7.5893939	25.00097	7.1278788	2.190476	3.380952
##	3306	1999-12-03	4.3163636	25.41394	6.0927273	2.047619	5.238095
##	3307	1999-12-04	6.2890909	25.32352	6.4245455	2.523810	30.119048
##	3308	1999-12-05	6.1746970	25.38000	6.3912121	3.000000	55.000000
##	3309	1999-12-06	6.0603030	25.43648	6.3578788	2.380952	5.523810
##	3310	1999-12-07	6.1054640	25.53270	5.7737311	2.500000	7.250000
##	3311	1999-12-08	6.1506250	25.62892	5.1895833	52.610169	126.000000
##	3312	1999-12-09	8.5944444	25.47831	5.8386667	2.042553	2.936170
##	3313	1999-12-10	4.5916667	25.54204	5.1883333	13.500000	188.333333
##	3314	1999-12-11	9.5566667	24.93067	8.1248485	33.476190	2.190476
##	3315	1999-12-12	14.3445238	25.10477	7.0111147	8.750000	5.000000
##	3316	1999-12-13	19.1323810	25.27888	5.8973810	2.133333	2.066667
##	3317	1999-12-14	15.9603030	25.29833	5.9872727	2.896552	5.724138
##	3318	1999-12-15	14.3995556	25.34467	5.3273333	2.222222	2.944444
##	3319	1999-12-16	6.4208333	25.25825	5.8891667	2.303030	2.848485
##	3320	1999-12-17	7.7223864	25.11229	6.6494318	4.250000	2.000000
##	3321	1999-12-18	9.0239394	24.96633	7.4096970	7.360000	17.040000
##	3322	1999-12-19	7.3033333	25.08477	6.9456566	88.000000	54.000000
##	3323	1999-12-20	5.5827273	25.20320	6.4816162	2.750000	2.750000
##	3324	1999-12-21	3.8621212	25.32164	6.0175758	5.952381	32.095238
##	3325	1999-12-22	5.3537157	25.30858	5.9427489	12.181818	14.545455
##	3326	1999-12-23	6.8453102	25.29553	5.8679221	3.750000	2.500000
##	3327	1999-12-24	8.3369048	25.28248	5.7930952	4.040816	39.714286
##	3328	1999-12-25	12.8128889	25.02876	6.8842222	82.055556	310.833333
##	3329	1999-12-26	16.8081818	24.82039	7.7690909	19.666667	48.222222
##	3330	1999-12-27	14.2308333	24.54512	9.0687500	3.151515	15.696970
##	3331	1999-12-28	13.1163131	24.46144	8.7362374	2.000000	3.500000
##	3332	1999-12-29	12.0017929	24.37775	8.4037247	102.363636	66.000000
##	3333	1999-12-30	10.8872727	24.29406	8.0712121	2.000000	2.190476
##	3334	1999-12-31	9.0808081	24.37185	7.7450505	3.250000	2.500000
##	3335	2000-01-01	7.2743434	24.44964	7.4188889	4.545455	9.272727
##	3336	2000-01-02	5.4678788	24.52742	7.0927273	2.000000	2.095238
##	3337	2000-01-03	5.5381818	24.61176	7.0369697	14.500000	2.750000
##	3338	2000-01-04	5.6084848	24.69609	6.9812121	2.490566	4.113208

## 3339	2000-01-05	8.3860606	24.83506	7.2675758	2.250000	3.000000
## 3340	2000-01-06	11.1636364	24.97403	7.5539394	2.142857	2.000000
## 3341	2000-01-07	9.5327273	24.83109	7.7446970	37.090909	9.636364
## 3342	2000-01-08	7.9018182	24.68815	7.9354545	2.160000	2.440000
## 3343	2000-01-09	8.1834343	24.81752	7.4360606	19.454545	16.545455
## 3344	2000-01-10	8.4650505	24.94688	6.9366667	3.500000	2.250000
## 3345	2000-01-11	8.7466667	25.07624	6.4372727	2.142857	2.000000
## 3346	2000-01-12	6.2803030	25.22015	6.3196970	2.000000	2.000000
## 3347	2000-01-13	2.2869048	25.35288	6.3930952	31.102041	61.632653
## 3348	2000-01-14	4.6591111	25.42604	6.1073333	290.944444	569.500000
## 3349	2000-01-15	5.1827407	25.11533	6.5819596	2.750000	2.500000
## 3350	2000-01-16	5.7063704	24.80462	7.0565859	28.181818	71.636364
## 3351	2000-01-17	6.2300000	24.49391	7.5312121	2.523810	2.571429
## 3352	2000-01-18	4.7733333	24.61608	7.1862500	2.000000	2.181818
## 3353	2000-01-19	4.6943939	24.78710	7.1564583	2.000000	2.000000
## 3354	2000-01-20	4.6154545	24.95812	7.1266667	4.452830	11.358491
## 3355	2000-01-21	12.6665152	25.12632	7.0475758	14.250000	5.500000
## 3356	2000-01-22	20.7175758	25.29452	6.9684848	7.444444	29.000000
## 3357	2000-01-23	10.2307143	25.37988	6.5528571	3.902439	5.756098
## 3358	2000-01-24	17.8160000	25.32364	7.3517778	2.055556	2.000000
## 3359	2000-01-25	11.2891667	24.80504	7.2266667	3.212121	5.515152
## 3360	2000-01-26	8.6665833	25.05311	6.3611111	2.000000	3.750000
## 3361	2000-01-27	6.0440000	25.30118	5.4955556	12.533333	4.056818
## 3362	2000-01-28	6.5945000	25.35711	5.5102778	3.636364	4.363636
## 3363	2000-01-29	7.1450000	25.41304	5.5250000	2.041667	5.431818
## 3364	2000-01-30	6.8508333	25.40015	5.3639583	27.428571	6.500000
## 3365	2000-01-31	11.5254545	24.99782	6.8957576	2.000000	2.363636
## 3366	2000-02-01	12.9153030	24.98150	7.3065152	3.272727	2.909091
## 3367	2000-02-02	14.3051515	24.96518	7.7172727	2.243902	2.292683
## 3368	2000-02-03	10.6793939	25.25909	6.9690909	9.090909	2.000000
## 3369	2000-02-04	8.9613131	25.16090	7.1081818	2.750000	3.250000
## 3370	2000-02-05	7.2432323	25.06271	7.2472727	38.000000	20.000000
## 3371	2000-02-06	5.5251515	24.96452	7.3863636	2.060606	2.000000
## 3372	2000-02-07	6.7917172	24.92243	7.3487879	3.000000	3.500000
## 3373	2000-02-08	8.0582828	24.88035	7.3112121	14.545455	34.727273
## 3374	2000-02-09	9.3248485	24.83827	7.2736364	2.000000	2.000000
## 3375	2000-02-10	8.3674242	24.87461	7.3654545	6.000000	2.500000
## 3376	2000-02-11	7.4100000	24.91094	7.4572727	23.172414	44.068966
## 3377	2000-02-12	13.6260000	24.90393	7.3933333	37.111111	136.888889
## 3378	2000-02-13	9.9919048	24.91993	7.5823810	2.000000	2.000000
## 3379	2000-02-14	7.0637500	24.80071	7.5541667	2.250000	3.416667
## 3380	2000-02-15	5.4592677	24.87757	6.9756061	5.750000	9.250000
## 3381	2000-02-16	3.8547854	24.95444	6.3970455	2.181818	2.000000
## 3382	2000-02-17	2.2503030	25.03130	5.8184848	2.000000	2.060606
## 3383	2000-02-18	4.5828788	25.10806	5.6400000	2.000000	3.500000
## 3384	2000-02-19	6.9154545	25.18482	5.4615152	2.060606	2.181818
## 3385	2000-02-20	7.6451515	25.08133	6.2841414	11.454545	8.363636
## 3386	2000-02-21	8.3748485	24.97785	7.1067677	2.000000	3.250000
## 3387	2000-02-22	9.1045455	24.87436	7.9293939	2.121212	2.121212
## 3388	2000-02-23	8.2595960	24.59787	7.8011111	18.500000	18.500000
## 3389	2000-02-24	7.4146465	24.32137	7.6728283	12.500000	4.000000
## 3390	2000-02-25	6.5696970	24.04488	7.5445455	25.818182	264.484848
## 3391	2000-02-26	6.6437374	24.06840	7.4553535	2.000000	2.000000
## 3392	2000-02-27	6.7177778	24.09193	7.3661616	7.875000	21.625000

## 3393	2000-02-28	6.7918182	24.11545	7.2769697	9.333333	5.818182
## 3394	2000-02-29	6.5604545	24.26821	7.4806061	23.750000	65.250000
## 3395	2000-03-01	6.3290909	24.42097	7.6842424	4.466667	5.400000
## 3396	2000-03-02	6.4359524	24.58660	7.4897619	3.000000	5.066667
## 3397	2000-03-03	6.2866667	24.48909	7.2555556	17.666667	70.222222
## 3398	2000-03-04	11.5987500	24.23846	7.1975000	2.000000	2.000000
## 3399	2000-03-05	10.2038352	24.24049	7.1125947	21.000000	6.500000
## 3400	2000-03-06	8.8089205	24.24252	7.0276894	50.000000	58.704545
## 3401	2000-03-07	7.4140057	24.24455	6.9427841	127.636364	110.909091
## 3402	2000-03-08	6.0190909	24.24658	6.8578788	464.352941	463.588235
## 3403	2000-03-09	6.1197980	24.28053	6.8636364	420.000000	880.000000
## 3404	2000-03-10	6.2205051	24.31448	6.8693939	80.000000	83.000000
## 3405	2000-03-11	6.3212121	24.34844	6.8751515	109.750000	61.000000
## 3406	2000-03-12	6.4219192	24.38239	6.8809091	2.000000	31.500000
## 3407	2000-03-13	6.5226263	24.41635	6.8866667	20.000000	2.000000
## 3408	2000-03-14	6.6233333	24.45030	6.8924242	60.090909	60.772727
## 3409	2000-03-15	5.1688889	24.69077	6.6248754	61.000000	390.000000
## 3410	2000-03-16	3.7144444	24.93124	6.3573266	4.500000	8.444444
## 3411	2000-03-17	2.2600000	25.17171	6.0897778	20.166667	7.546296
## 3412	2000-03-18	2.3485417	25.21140	6.0637500	35.833333	6.648148
## 3413	2000-03-19	2.9975000	25.16117	6.3197917	3.508772	5.750000
## 3414	2000-03-20	7.8666667	24.50961	7.6542424	8.181818	9.151515
## 3415	2000-03-21	8.3300000	24.54270	7.7210101	2.000000	14.030303
## 3416	2000-03-22	8.7933333	24.57579	7.7877778	64.363636	18.909091
## 3417	2000-03-23	9.2566667	24.60888	7.8545455	2.780488	2.634146
## 3418	2000-03-24	7.0784848	24.87521	7.5539394	2.000000	2.222222
## 3419	2000-03-25	8.1906667	24.81536	7.6184444	11.000000	141.461538
## 3420	2000-03-26	7.7295238	24.80688	7.6378571	3.515152	4.666667
## 3421	2000-03-27	4.0083333	24.68142	7.1533333	13.375000	9.125000
## 3422	2000-03-28	3.4793939	24.80373	6.9445455	14.711111	85.681818
## 3423	2000-03-29	3.3116162	25.00861	6.7564646	2.000000	18.666667
## 3424	2000-03-30	3.1438384	25.21348	6.5683838	2.500000	3.000000
## 3425	2000-03-31	2.9760606	25.41836	6.3803030	2.818182	6.500000
## 3426	2000-04-01	7.7660606	25.30282	7.0339394	2.000000	2.000000
## 3427	2000-04-02	13.3413636	25.24399	7.6857197	17.500000	6.500000
## 3428	2000-04-03	18.9166667	25.18517	8.3375000	6.250000	2.000000
## 3429	2000-04-04	8.0808889	25.23147	7.9222222	17.170213	7.574468
## 3430	2000-04-05	9.1804762	25.29155	7.4750000	2.000000	2.000000
## 3431	2000-04-06	12.0121212	25.23809	7.9706061	2.111111	2.222222
## 3432	2000-04-07	12.6995455	25.20445	7.7657576	2.250000	2.000000
## 3433	2000-04-08	13.3869697	25.17082	7.5609091	2.000000	2.000000
## 3434	2000-04-09	14.4102020	25.14190	7.7725253	4.909091	2.909091
## 3435	2000-04-10	15.4334343	25.11298	7.9841414	2.750000	5.750000
## 3436	2000-04-11	16.4566667	25.08406	8.1957576	2.242424	2.121212
## 3437	2000-04-12	14.2452020	25.00685	8.0174242	8577.777778	6031.111111
## 3438	2000-04-13	12.0337374	24.92965	7.8390909	320.000000	135.250000
## 3439	2000-04-14	9.8222727	24.85244	7.6607576	6219.846154	4410.000000
## 3440	2000-04-15	7.6108081	24.77523	7.4824242	133.555556	302.333333
## 3441	2000-04-16	5.3993434	24.69803	7.3040909	740.000000	40.000000
## 3442	2000-04-17	3.1878788	24.62082	7.1257576	157.307692	292.692308
## 3443	2000-04-18	3.9244697	24.67595	7.3196970	130.000000	44.000000
## 3444	2000-04-19	4.6610606	24.73109	7.5136364	4490.000000	12000.000000
## 3445	2000-04-20	5.3976515	24.78623	7.7075758	2881.777778	6200.000000
## 3446	2000-04-21	6.1342424	24.84136	7.9015152	657.677419	877.500000

## 3447	2000-04-22	5.4122222	24.80487	7.8933333	416.541667	528.680851
## 3448	2000-04-23	4.2500000	24.90890	7.6966667	5.866667	9.200000
## 3449	2000-04-24	4.0614583	24.84529	7.5614583	4029.333333	4283.333333
## 3450	2000-04-25	3.8729167	24.78167	7.4262500	482.000000	465.230769
## 3451	2000-04-26	3.7205303	24.81161	7.3473990	6.222222	6.222222
## 3452	2000-04-27	3.5681439	24.84155	7.2685480	17.272727	44.363636
## 3453	2000-04-28	3.4157576	24.87148	7.1896970	3.636364	2.000000
## 3454	2000-04-29	4.9400000	24.88733	7.4093939	5.000000	13.500000
## 3455	2000-04-30	6.4642424	24.90318	7.6290909	125.409091	318.363636
## 3456	2000-05-01	7.0493939	24.87677	7.8017172	3001.000000	142.500000
## 3457	2000-05-02	7.6345455	24.85035	7.9743434	27.111111	4.000000
## 3458	2000-05-03	8.2196970	24.82394	8.1469697	6.000000	13.515152
## 3459	2000-05-04	7.6428283	24.85386	7.9886869	26.727273	31.818182
## 3460	2000-05-05	7.0659596	24.88378	7.8304040	5.500000	6.750000
## 3461	2000-05-06	6.4890909	24.91370	7.6721212	9.393939	2.181818
## 3462	2000-05-07	9.7677778	24.99189	7.3124444	310.340426	721.829787
## 3463	2000-05-08	5.6871429	25.14740	6.8921429	4.631579	17.263158
## 3464	2000-05-09	8.5715152	25.10258	7.6712121	3.000000	24.800000
## 3465	2000-05-10	8.4513636	25.12333	7.5396970	2.924242	80.000000
## 3466	2000-05-11	8.3312121	25.14409	7.4081818	2.848485	2.121212
## 3467	2000-05-12	6.1340476	25.38724	6.5428571	62.983607	28.315789
## 3468	2000-05-13	2.5545455	25.50759	5.9627273	6.681818	19.543860
## 3469	2000-05-14	1.8303636	25.64529	5.5718182	23.200000	10.771930
## 3470	2000-05-15	5.8237500	24.95971	8.1229167	2.000000	2.000000
## 3471	2000-05-16	5.5775505	24.98448	7.8026515	3.500000	6.750000
## 3472	2000-05-17	5.3313510	25.00926	7.4823864	2.727273	2.545455
## 3473	2000-05-18	5.0851515	25.03403	7.1621212	2.181818	2.000000
## 3474	2000-05-19	4.8243939	25.00653	7.3725758	46.727273	32.181818
## 3475	2000-05-20	4.5636364	24.97903	7.5830303	3.818182	8.666667
## 3476	2000-05-21	4.3075000	25.01770	7.3985606	360.000000	22.944444
## 3477	2000-05-22	4.0513636	25.05636	7.2140909	29.000000	37.222222
## 3478	2000-05-23	3.7952273	25.09503	7.0296212	7.500000	51.500000
## 3479	2000-05-24	3.5390909	25.13370	6.8451515	2.000000	2.303030
## 3480	2000-05-25	4.2827273	25.50085	6.2496970	6.068966	441.517241
## 3481	2000-05-26	3.4808889	25.50313	5.8897778	3.833333	54.166667
## 3482	2000-05-27	3.6540476	25.51319	5.9347619	85.161290	162.387097
## 3483	2000-05-28	2.8133333	25.39392	5.7704167	8.303030	8.000000
## 3484	2000-05-29	7.4674242	25.38252	6.4849337	76.000000	401.090909
## 3485	2000-05-30	12.1215152	25.37112	7.1994508	128.545455	794.181818
## 3486	2000-05-31	16.7756061	25.35973	7.9139678	2.000000	3.200000
## 3487	2000-06-01	21.4296970	25.34833	8.6284848	13.515152	2.787879
## 3488	2000-06-02	19.0974747	25.35786	8.1720202	76.000000	182.121212
## 3489	2000-06-03	16.7652525	25.36738	7.7155556	35.818182	361.454545
## 3490	2000-06-04	14.4330303	25.37691	7.2590909	5.512195	3.804878
## 3491	2000-06-05	13.4338636	25.33074	7.3958333	360.000000	2003.000000
## 3492	2000-06-06	12.4346970	25.28458	7.5325758	84.000000	440.000000
## 3493	2000-06-07	11.4355303	25.23841	7.6693182	215.730769	10.000000
## 3494	2000-06-08	10.4363636	25.19224	7.8060606	347.461538	455.115385
## 3495	2000-06-09	10.2836364	25.19039	7.5372727	3610.600000	6010.000000
## 3496	2000-06-10	10.1309091	25.18855	7.2684848	1240.000000	5600.000000
## 3497	2000-06-11	9.9781818	25.18670	6.9996970	2.444444	3.222222
## 3498	2000-06-12	9.2273939	25.17712	7.0027273	2.000000	5.250000
## 3499	2000-06-13	8.4766061	25.16755	7.0057576	7.272727	7.636364
## 3500	2000-06-14	7.7258182	25.15797	7.0087879	2.606061	3.151515

## 3501	2000-06-15	6.9750303	25.12032	7.0118182	2.000000	4.250000
## 3502	2000-06-16	6.2242424	25.08267	7.0148485	6.111111	2.111111
## 3503	2000-06-17	4.7338095	25.11845	6.8776190	12.634146	12.634146
## 3504	2000-06-18	5.7051111	25.01138	7.0486667	5.555556	18.277778
## 3505	2000-06-19	4.8843165	25.02612	7.0677980	4.250000	24.000000
## 3506	2000-06-20	4.0635219	25.04086	7.0869293	1275.090909	1849.636364
## 3507	2000-06-21	3.2427273	25.05561	7.1060606	32.545455	2.424242
## 3508	2000-06-22	3.6128788	24.97701	7.1553788	4034.000000	4803.333333
## 3509	2000-06-23	3.9830303	24.89841	7.2046970	3.200000	149.600000
## 3510	2000-06-24	4.3531818	24.81981	7.2540152	2.630303	1200.000000
## 3511	2000-06-25	4.7233333	24.74121	7.3033333	2.060606	2.121212
## 3512	2000-06-26	3.8795833	24.85392	7.0187500	44.909091	143.454545
## 3513	2000-06-27	3.0358333	24.96663	6.7341667	7.875000	29.878788
## 3514	2000-06-28	4.0282197	24.97654	6.8279924	2.000000	2.000000
## 3515	2000-06-29	5.0206061	24.98645	6.9218182	25.772727	337.590909
## 3516	2000-06-30	5.3587229	25.08294	6.8355022	4.250000	2.000000
## 3517	2000-07-01	5.6968398	25.17942	6.7491861	40.000000	6550.000000
## 3518	2000-07-02	6.0349567	25.27590	6.6628701	25.684211	42.000000
## 3519	2000-07-03	6.3730736	25.37238	6.5765541	11.368421	7.263158
## 3520	2000-07-04	6.7111905	25.46886	6.4902381	2.000000	5.947368
## 3521	2000-07-05	4.6490698	25.64495	5.7302326	8.454545	4.631579
## 3522	2000-07-06	4.9978182	25.67269	5.3421818	13.018182	3.315789
## 3523	2000-07-07	16.0436364	25.01761	9.6627273	2.000000	2.000000
## 3524	2000-07-08	11.3711515	24.97881	8.8413636	2.250000	3.250000
## 3525	2000-07-09	6.6986667	24.94002	8.0200000	4.425532	24.170213
## 3526	2000-07-10	8.1203030	24.92858	8.3269697	2.111111	2.000000
## 3527	2000-07-11	4.0845238	25.16783	7.2950000	2.000000	2.000000
## 3528	2000-07-12	5.0575000	24.99329	7.4741667	2.000000	2.166667
## 3529	2000-07-13	5.4880303	25.04848	7.2678283	3.250000	4.500000
## 3530	2000-07-14	5.9185606	25.10366	7.0614899	7.636364	3.272727
## 3531	2000-07-15	6.3490909	25.15885	6.8551515	5.575758	51.515152
## 3532	2000-07-16	5.7734091	25.05155	7.0485606	4.537879	9.000000
## 3533	2000-07-17	5.1977273	24.94424	7.2419697	3.500000	7.000000
## 3534	2000-07-18	4.6220455	24.83694	7.4353788	76.363636	578.909091
## 3535	2000-07-19	4.0463636	24.72964	7.6287879	2.000000	2.060606
## 3536	2000-07-20	4.8743434	24.92420	7.1187879	12.000000	200.000000
## 3537	2000-07-21	5.7023232	25.11877	6.6087879	2.000000	2.000000
## 3538	2000-07-22	6.5303030	25.31333	6.0987879	13.409091	31.681818
## 3539	2000-07-23	7.4998485	25.38136	6.0542424	8.750000	66.888889
## 3540	2000-07-24	8.4693939	25.44939	6.0096970	2.000000	2.000000
## 3541	2000-07-25	15.8148485	25.31148	7.2642424	2.000000	2.000000
## 3542	2000-07-26	7.0721429	25.45710	6.3142857	2.341463	2.731707
## 3543	2000-07-27	11.9186667	25.40771	6.5077778	3.227273	3.000000
## 3544	2000-07-28	7.2783333	25.13304	6.9241667	2.000000	2.000000
## 3545	2000-07-29	7.9472727	25.04103	7.3348485	8.076923	11.000000
## 3546	2000-07-30	6.5439394	24.69806	8.2118182	3.024390	2.341463
## 3547	2000-07-31	7.1727273	24.72697	7.8580303	2.363636	2.545455
## 3548	2000-08-01	7.8015152	24.75588	7.5042424	3.121951	2.341463
## 3549	2000-08-02	7.7336291	24.74463	7.4671140	95.272727	80.363636
## 3550	2000-08-03	7.6657431	24.73337	7.4299856	11.500000	10.250000
## 3551	2000-08-04	7.5978571	24.72212	7.3928571	2.292683	2.341463
## 3552	2000-08-05	11.4277778	24.55727	7.5840000	6.444444	18.722222
## 3553	2000-08-06	14.3130303	24.64458	7.9063636	2.000000	2.666667
## 3554	2000-08-07	8.0429167	24.45404	8.6562500	2.187500	6.625000

## 3555	2000-08-08	6.5494886	24.42020	8.5199432	2.000000	2.545455
## 3556	2000-08-09	5.0560606	24.38636	8.3836364	2.000000	2.000000
## 3557	2000-08-10	4.6736364	24.57736	8.2157576	4.250000	9.500000
## 3558	2000-08-11	4.2912121	24.76836	8.0478788	2.409091	2.227273
## 3559	2000-08-12	3.5356061	24.59717	8.3395455	2.500000	6.000000
## 3560	2000-08-13	2.7800000	24.42597	8.6312121	2.000000	2.000000
## 3561	2000-08-14	3.4490909	24.58161	8.3227273	17.157895	9.157895
## 3562	2000-08-15	4.1181818	24.73724	8.0142424	2.363636	5.878788
## 3563	2000-08-16	4.6916162	24.70386	8.1949495	3.000000	5.500000
## 3564	2000-08-17	5.2650505	24.67047	8.3756566	2.181818	2.727273
## 3565	2000-08-18	5.8384848	24.63709	8.5563636	2.000000	2.000000
## 3566	2000-08-19	5.0932323	24.60371	8.5572727	2.000000	4.250000
## 3567	2000-08-20	4.3479798	24.57032	8.5581818	2.181818	3.090909
## 3568	2000-08-21	3.6027273	24.53694	8.5590909	2.000000	2.000000
## 3569	2000-08-22	3.1404545	24.71743	7.7988312	3.250000	30.250000
## 3570	2000-08-23	2.6781818	24.89793	7.0385714	3.622642	3.818182
## 3571	2000-08-24	2.2159091	25.11414	6.1622727	28.318182	3.358463
## 3572	2000-08-25	1.8709091	25.27191	5.8278182	7.309091	2.898744
## 3573	2000-08-26	4.9912121	24.47806	9.2178788	2.097561	2.439024
## 3574	2000-08-27	7.9312121	24.42355	8.7872727	2.000000	2.111111
## 3575	2000-08-28	6.6664444	24.70876	8.3006667	2.765957	6.468085
## 3576	2000-08-29	4.4183333	24.89545	7.4354762	2.133333	2.133333
## 3577	2000-08-30	5.4429167	24.90983	7.4983333	3.250000	3.437500
## 3578	2000-08-31	8.0239394	24.69079	8.0181818	2.500000	4.727273
## 3579	2000-09-01	9.1824242	24.81820	7.6081818	6.500000	6.500000
## 3580	2000-09-02	10.3409091	24.94561	7.1981818	2.807692	4.038462
## 3581	2000-09-03	10.8150000	24.54583	8.9441667	2.750000	2.875000
## 3582	2000-09-04	13.6047619	24.67590	8.5457143	2.000000	2.048780
## 3583	2000-09-05	13.6560000	24.55356	8.8291111	2.000000	2.000000
## 3584	2000-09-06	9.1618182	24.54885	8.5693939	2.222222	2.000000
## 3585	2000-09-07	7.5509091	24.57588	8.2518182	2.292683	2.536585
## 3586	2000-09-08	8.7557576	24.68748	8.0425758	2.545455	2.545455
## 3587	2000-09-09	9.9606061	24.79909	7.8333333	2.060606	2.000000
## 3588	2000-09-10	9.2902020	24.81542	7.7885859	3.250000	13.250000
## 3589	2000-09-11	8.6197980	24.83176	7.7438384	35.272727	20.181818
## 3590	2000-09-12	7.9493939	24.84809	7.6990909	2.060606	2.121212
## 3591	2000-09-13	5.7653030	24.86267	7.6109091	3.000000	7.750000
## 3592	2000-09-14	3.5812121	24.87724	7.5227273	2.000000	2.303030
## 3593	2000-09-15	5.7324242	24.82206	7.7460606	2.000000	2.000000
## 3594	2000-09-16	4.8464286	24.82214	7.6266667	4.487805	7.463415
## 3595	2000-09-17	4.5895556	24.83816	7.6811111	2.000000	2.000000
## 3596	2000-09-18	3.6570694	24.77077	7.5136806	32.000000	60.000000
## 3597	2000-09-19	2.7245833	24.70338	7.3462500	2.000000	2.000000
## 3598	2000-09-20	3.3307765	24.80431	7.0363068	7.818182	3.454545
## 3599	2000-09-21	3.9369697	24.90524	6.7263636	7.560976	6.195122
## 3600	2000-09-22	8.5448485	24.96391	6.2606061	2.192308	2.423077
## 3601	2000-09-23	1.8354545	24.82621	5.4496970	4.195122	5.219512
## 3602	2000-09-24	3.3511760	24.94176	5.6845599	33.272727	18.727273
## 3603	2000-09-25	4.8668975	25.05731	5.9194228	4.750000	4.750000
## 3604	2000-09-26	6.3826190	25.17286	6.1542857	2.264151	2.000000
## 3605	2000-09-27	2.1993182	25.27298	5.4127273	4.727273	2.000000
## 3606	2000-09-28	1.6301818	25.35900	5.0163636	4.872727	2.000000
## 3607	2000-09-29	23.6809091	24.73858	9.1027273	2.000000	2.000000
## 3608	2000-09-30	21.0001515	24.82053	8.6207576	16.250000	13.250000

## 3609	2000-10-01	18.3193939	24.90248	8.1387879	8.666667	27.111111
## 3610	2000-10-02	13.6631111	24.92293	7.9166667	5.400000	14.555556
## 3611	2000-10-03	10.2126190	25.03448	7.2716667	2.133333	2.000000
## 3612	2000-10-04	6.8041667	24.93792	7.4550000	17.307692	48.461538
## 3613	2000-10-05	5.8796405	24.82435	7.6834314	542.000000	590.444444
## 3614	2000-10-06	4.9551144	24.71078	7.9118627	12000.000000	12000.000000
## 3615	2000-10-07	4.0305882	24.59721	8.1402941	13.545455	48.090909
## 3616	2000-10-08	3.1716578	24.56582	7.9015107	4.222222	8.000000
## 3617	2000-10-09	2.3127273	24.53442	7.6627273	2.000000	2.000000
## 3618	2000-10-10	2.5134091	24.58622	7.2075000	971.454545	2750.000000
## 3619	2000-10-11	2.7140909	24.63802	6.7522727	120.909091	1017.333333
## 3620	2000-10-12	2.9147727	24.68981	6.2970455	73.333333	53.333333
## 3621	2000-10-13	3.1154545	24.74161	5.8418182	3.696970	2.424242
## 3622	2000-10-14	3.3024242	24.73315	6.6206061	12.421053	20.210526
## 3623	2000-10-15	3.4893939	24.72470	7.3993939	2.000000	2.000000
## 3624	2000-10-16	5.2157576	24.86085	7.8112121	2.307692	2.153846
## 3625	2000-10-17	3.3730952	24.83886	7.5607143	2.000000	2.000000
## 3626	2000-10-18	5.5771111	24.83656	7.7337778	2.500000	2.055556
## 3627	2000-10-19	2.9325000	24.87342	6.2887500	2.000000	2.000000
## 3628	2000-10-20	2.9089394	24.85544	6.3277525	5.750000	6.750000
## 3629	2000-10-21	2.8853788	24.83746	6.3667551	3543.272727	911.454545
## 3630	2000-10-22	2.8618182	24.81948	6.4057576	42.263158	52.571429
## 3631	2000-10-23	3.0733333	24.82410	6.3858586	55.500000	150.000000
## 3632	2000-10-24	3.2848485	24.82872	6.3659596	20.400000	5.250000
## 3633	2000-10-25	3.4963636	24.83333	6.3460606	7.090909	18.666667
## 3634	2000-10-26	3.3606061	24.86532	6.2434848	78.181818	127.666667
## 3635	2000-10-27	3.2248485	24.89730	6.1409091	2.909091	2.424242
## 3636	2000-10-28	4.3790909	24.90662	6.4327273	67.000000	8.000000
## 3637	2000-10-29	5.5333333	24.91595	6.7245455	2.000000	7.000000
## 3638	2000-10-30	6.6875758	24.92527	7.0163636	423.454545	910.909091
## 3639	2000-10-31	7.8418182	24.93459	7.3081818	2.500000	4.750000
## 3640	2000-11-01	8.9960606	24.94391	7.6000000	2.551724	3.931034
## 3641	2000-11-02	12.5002222	24.92538	7.7740000	4.727273	3.227273
## 3642	2000-11-03	8.5523810	24.94900	7.4838095	2.000000	2.000000
## 3643	2000-11-04	5.9133333	24.87003	6.5245455	3.454545	2.424242
## 3644	2000-11-05	4.5468750	24.90681	6.2949811	357.157895	449.894737
## 3645	2000-11-06	3.1804167	24.94358	6.0654167	2.166667	2.916667
## 3646	2000-11-07	2.4311869	24.95757	6.2790657	2.250000	2.500000
## 3647	2000-11-08	1.6819571	24.97156	6.4927146	34.181818	135.636364
## 3648	2000-11-09	0.9327273	24.98555	6.7063636	2.114286	2.457143
## 3649	2000-11-10	1.6538384	25.01614	6.6859596	5.500000	5.250000
## 3650	2000-11-11	2.3749495	25.04674	6.6655556	1937.272727	2156.545455
## 3651	2000-11-12	3.0960606	25.07733	6.6451515	2.242424	4.848485
## 3652	2000-11-13	3.0759596	25.06830	6.7671717	19.000000	171.000000
## 3653	2000-11-14	3.0558586	25.05927	6.8891919	2.250000	3.000000
## 3654	2000-11-15	3.0357576	25.05024	7.0112121	2.000000	2.303030
## 3655	2000-11-16	2.4854545	25.05120	7.2661616	56.181818	292.727273
## 3656	2000-11-17	1.9351515	25.05216	7.5211111	400.000000	560.000000
## 3657	2000-11-18	1.3848485	25.05312	7.7760606	5.380952	7.809524
## 3658	2000-11-19	3.8395455	25.04977	7.0560606	64.000000	5.293651
## 3659	2000-11-20	6.2942424	25.04642	6.3360606	2.000000	2.777778
## 3660	2000-11-21	6.1830952	25.01064	5.9242857	40.439024	55.658537
## 3661	2000-11-22	7.6844444	24.89944	7.1913095	27.388889	38.611111
## 3662	2000-11-23	0.9004167	24.93188	8.4583333	135.312500	71.187500

##	3663	2000-11-24	0.9631061	24.96262	8.2984848	2.000000	10.000000
##	3664	2000-11-25	1.0257955	24.99337	8.1386364	3246.363636	2637.090909
##	3665	2000-11-26	1.0884848	25.02412	7.9787879	23.365854	39.707317
##	3666	2000-11-27	1.2086364	25.06079	7.6931061	5006.666667	6660.000000
##	3667	2000-11-28	1.3287879	25.09745	7.4074242	448.400000	1328.800000
##	3668	2000-11-29	1.4489394	25.13412	7.1217424	20.000000	70.000000
##	3669	2000-11-30	1.5690909	25.17079	6.8360606	8.153846	3.153846
##	3670	2000-12-01	2.7642857	25.42750	5.4452381	2.428571	3.023921
##	3671	2000-12-02	1.8490909	25.63780	4.6677273	9.818182	2.893996
##	3672	2000-12-03	1.9858182	25.70242	4.4596364	12.727273	2.764071
##	3673	2000-12-04	1.4233333	25.02506	7.9533333	2.097561	2.634146
##	3674	2000-12-05	1.2688889	25.13458	7.4451515	14.000000	303.000000
##	3675	2000-12-06	1.1144444	25.24409	6.9369697	9.000000	220.000000
##	3676	2000-12-07	0.9600000	25.35361	6.4287879	4.000000	2.000000
##	3677	2000-12-08	4.5433333	25.37954	6.2909416	14.250000	11.000000
##	3678	2000-12-09	8.1266667	25.40548	6.1530952	6.341463	4.585366
##	3679	2000-12-10	11.2862222	25.30211	6.7373333	2.666667	5.500000
##	3680	2000-12-11	10.0121212	25.49652	5.8769697	2.000000	2.000000
##	3681	2000-12-12	3.0012500	25.48079	6.7287500	2.000000	2.000000
##	3682	2000-12-13	3.3962879	25.45326	6.5104798	2.000000	2.250000
##	3683	2000-12-14	3.7913258	25.42572	6.2922096	17.636364	4.000000
##	3684	2000-12-15	4.1863636	25.39818	6.0739394	6.058824	2.000000
##	3685	2000-12-16	3.0671717	25.43065	6.0133333	5.777778	5.750000
##	3686	2000-12-17	1.9479798	25.46311	5.9527273	1158.727273	1242.909091
##	3687	2000-12-18	0.8287879	25.49558	5.8921212	22.121212	210.545455
##	3688	2000-12-19	1.6539394	25.39613	6.6149495	6.400000	58.000000
##	3689	2000-12-20	2.4790909	25.29669	7.3377778	10.000000	16.000000
##	3690	2000-12-21	3.3042424	25.19724	8.0606061	121.954545	330.772727
##	3691	2000-12-22	3.2215909	25.28729	7.4836364	2.909091	10.200000
##	3692	2000-12-23	3.1389394	25.37733	6.9066667	24.349282	2.000000
##	3693	2000-12-24	3.0562879	25.46738	6.3296970	45.789474	97.157895
##	3694	2000-12-25	2.9736364	25.55742	5.7527273	2.000000	2.000000
##	3695	2000-12-26	4.6950505	25.50415	6.6778788	2.500000	17.750000
##	3696	2000-12-27	6.4164646	25.45088	7.6030303	1275.636364	2184.181818
##	3697	2000-12-28	8.1378788	25.39761	8.5281818	355.235294	357.705882
##	3698	2000-12-29	6.0813636	25.44371	7.6535101	280.000000	4600.000000
##	3699	2000-12-30	4.0248485	25.48981	6.7788384	2.666667	4.000000
##	3700	2000-12-31	1.9683333	25.53592	5.9041667	2.000000	2.833333
##	3701	2001-01-01	8.2460556	25.63070	5.2884167	16.363636	128.000000
##	3702	2001-01-02	14.5237778	25.72549	4.6726667	2.055556	2.944444
##	3703	2001-01-03	10.7385714	25.61879	5.3180952	2.193548	2.967742
##	3704	2001-01-04	28.8709091	25.44009	6.9154545	2.000000	2.111111
##	3705	2001-01-05	19.9891919	25.41405	6.8052525	2.250000	4.500000
##	3706	2001-01-06	11.1074747	25.38801	6.6950505	18.545455	36.545455
##	3707	2001-01-07	2.2257576	25.36197	6.5848485	2.000000	2.000000
##	3708	2001-01-08	2.0123232	25.18376	7.0330303	12000.000000	12000.000000
##	3709	2001-01-09	1.7988889	25.00555	7.4812121	1335.333333	1354.000000
##	3710	2001-01-10	1.5854545	24.82733	7.9293939	9.000000	49.176471
##	3711	2001-01-11	0.8125000	25.02829	7.6679167	6.375000	20.125000
##	3712	2001-01-12	7.5714286	25.11207	6.5621429	11.636364	11.333333
##	3713	2001-01-13	8.0748889	24.98431	6.9797778	2.000000	3.244444
##	3714	2001-01-14	7.4045455	24.97570	6.7648485	2.000000	2.222222
##	3715	2001-01-15	1.1263636	24.81121	7.2639394	2.000000	2.000000
##	3716	2001-01-16	2.3854762	25.26214	5.5092857	7.132075	7.636364

## 3717	2001-01-17	2.1436472	25.47450	4.8231818	5.137466	5.860140
## 3718	2001-01-18	1.9018182	25.61095	4.4794545	3.142857	4.083916
## 3719	2001-01-19	1.0657576	25.38609	5.3621212	2.000000	2.307692
## 3720	2001-01-20	5.2363636	25.19948	7.2563636	2.000000	2.181818
## 3721	2001-01-21	4.3525455	25.13492	7.2604242	2.000000	2.000000
## 3722	2001-01-22	3.4687273	25.07036	7.2644848	2.545455	3.090909
## 3723	2001-01-23	2.5849091	25.00579	7.2685455	2.500000	4.750000
## 3724	2001-01-24	1.7010909	24.94123	7.2726061	2.000000	2.000000
## 3725	2001-01-25	0.8172727	24.87667	7.2766667	2.000000	2.000000
## 3726	2001-01-26	1.2969697	24.95203	7.0100000	2.048780	2.195122
## 3727	2001-01-27	5.9676190	24.96019	7.3428571	2.048780	2.341463
## 3728	2001-01-28	10.3015556	25.07311	7.1415556	2.500000	4.722222
## 3729	2001-01-29	12.0109091	24.93067	7.2418182	2.000000	2.000000
## 3730	2001-01-30	1.5208333	24.47762	7.8495833	2.250000	5.187500
## 3731	2001-01-31	1.4749621	24.51719	7.7996402	2.000000	2.181818
## 3732	2001-02-01	1.4290909	24.55676	7.7496970	2.146341	2.243902
## 3733	2001-02-02	1.4289394	24.79141	7.6018182	11.818182	7.272727
## 3734	2001-02-03	1.4287879	25.02606	7.4539394	2.097561	2.292683
## 3735	2001-02-04	5.6190909	25.05727	8.8393939	3.038462	2.423077
## 3736	2001-02-05	4.2230303	24.98242	8.2245455	2.000000	2.000000
## 3737	2001-02-06	6.1135671	25.02883	8.0899697	3.750000	7.000000
## 3738	2001-02-07	8.0041039	25.07523	7.9553939	3.818182	3.272727
## 3739	2001-02-08	9.8946407	25.12163	7.8208182	3630.500000	835.750000
## 3740	2001-02-09	11.7851775	25.16803	7.6862424	2.000000	4.000000
## 3741	2001-02-10	13.6757143	25.21443	7.5516667	2.731707	3.853659
## 3742	2001-02-11	13.7024444	25.26229	7.4062222	2.000000	2.000000
## 3743	2001-02-12	14.3106061	25.10679	7.8272727	2.000000	2.888889
## 3744	2001-02-13	1.2495833	24.74513	8.0200000	2.000000	2.000000
## 3745	2001-02-14	1.5471970	24.70266	8.1748485	2.000000	2.750000
## 3746	2001-02-15	1.8448106	24.66019	8.3296970	11.454545	128.909091
## 3747	2001-02-16	2.1424242	24.61773	8.4845455	2.000000	2.000000
## 3748	2001-02-17	2.1226061	24.65498	8.3561212	12.750000	2.000000
## 3749	2001-02-18	2.1027879	24.69222	8.2276970	23.500000	15.750000
## 3750	2001-02-19	2.0829697	24.72947	8.0992727	2.000000	9.693182
## 3751	2001-02-20	2.0631515	24.76672	7.9708485	2.545455	3.636364
## 3752	2001-02-21	2.0433333	24.80397	7.8424242	2.097561	5.853659
## 3753	2001-02-22	4.3890909	24.91267	8.2845455	4.681818	3.000000
## 3754	2001-02-23	2.8248485	24.66158	8.2292424	5.500000	7.250000
## 3755	2001-02-24	1.2606061	24.41048	8.1739394	2.000000	2.000000
## 3756	2001-02-25	2.5294872	24.78646	7.1517949	2.379310	2.631579
## 3757	2001-02-26	2.4529787	25.03560	6.4397872	6.765957	2.421053
## 3758	2001-02-27	1.3523636	25.18296	6.0558182	10.909091	2.210526
## 3759	2001-02-28	1.0375758	24.12685	8.2675758	2.000000	2.000000
## 3760	2001-03-01	8.4077778	24.29602	8.4582222	2.181818	2.954545
## 3761	2001-03-02	5.1054545	24.48076	8.2178788	5.310345	4.758621
## 3762	2001-03-03	7.7200000	24.59381	8.0042857	2.000000	2.000000
## 3763	2001-03-04	0.9417391	24.57430	7.2126087	2.000000	2.000000
## 3764	2001-03-05	0.9983311	24.33002	7.4168906	7.500000	9.250000
## 3765	2001-03-06	1.0549231	24.08574	7.6211726	33.636364	27.090909
## 3766	2001-03-07	1.1115152	23.84145	7.8254545	2.121212	2.000000
## 3767	2001-03-08	1.0936364	23.99611	7.7509091	30.000000	6.272727
## 3768	2001-03-09	1.0757576	24.15076	7.6763636	13.863636	10.545455
## 3769	2001-03-10	2.0259596	24.26719	7.8589899	71.250000	39.500000
## 3770	2001-03-11	2.9761616	24.38363	8.0416162	26.000000	21.543103

## 3771	2001-03-12	3.9263636	24.50006	8.2242424	5.241379	3.586207
## 3772	2001-03-13	3.6591111	24.47940	8.1695556	2.111111	2.111111
## 3773	2001-03-14	3.8792857	24.38617	8.0152381	6.157895	12.052632
## 3774	2001-03-15	0.8645833	24.10129	8.1483333	2.166667	2.000000
## 3775	2001-03-16	0.9135606	24.18620	8.0519192	5.272727	3.818182
## 3776	2001-03-17	0.9625379	24.27112	7.9555051	2.250000	4.000000
## 3777	2001-03-18	1.0115152	24.35603	7.8590909	2.000000	2.000000
## 3778	2001-03-19	1.0484848	24.22012	7.8353030	54.052632	21.894737
## 3779	2001-03-20	1.0854545	24.08421	7.8115152	7.222222	2.060606
## 3780	2001-03-21	1.0843939	24.06939	7.7803788	8.000000	2.405303
## 3781	2001-03-22	1.0833333	24.05458	7.7492424	2.500000	2.750000
## 3782	2001-03-23	1.0822727	24.03976	7.7181061	3.272727	8.363636
## 3783	2001-03-24	1.0812121	24.02494	7.6869697	2.000000	2.121212
## 3784	2001-03-25	1.1190909	24.21009	8.1848485	3.268293	5.756098
## 3785	2001-03-26	4.9409091	24.30003	7.9703030	2.000000	2.000000
## 3786	2001-03-27	4.3304762	24.37783	7.9623810	8.243902	2.634146
## 3787	2001-03-28	1.1954167	24.11517	7.8454167	2.416667	2.000000
## 3788	2001-03-29	4.8913333	24.20351	8.1740000	2.000000	2.000000
## 3789	2001-03-30	3.6182626	24.14214	8.0100404	2.500000	8.500000
## 3790	2001-03-31	2.3451919	24.08077	7.8460808	2.363636	2.909091
## 3791	2001-04-01	1.0721212	24.01939	7.6821212	29.073171	48.975610
## 3792	2001-04-02	1.0697727	24.06749	7.6355303	17.000000	25.487805
## 3793	2001-04-03	1.0674242	24.11559	7.5889394	50.500000	2.000000
## 3794	2001-04-04	1.0650758	24.16369	7.5423485	84.000000	20.363636
## 3795	2001-04-05	1.0627273	24.21179	7.4957576	2.060606	2.000000
## 3796	2001-04-06	1.0648485	24.28057	7.4304040	14.222222	52.000000
## 3797	2001-04-07	1.0669697	24.34934	7.3650505	3.000000	13.250000
## 3798	2001-04-08	1.0690909	24.41812	7.2996970	2.000000	2.000000
## 3799	2001-04-09	1.2745455	24.45106	7.8669697	2.000000	2.000000
## 3800	2001-04-10	1.3550000	24.44718	7.7863636	10.421053	14.421053
## 3801	2001-04-11	1.4354545	24.44330	7.7057576	2.000000	3.636364
## 3802	2001-04-12	2.8306061	24.46758	7.6460606	5.750000	11.000000
## 3803	2001-04-13	4.2257576	24.49185	7.5863636	4.827586	4.482759
## 3804	2001-04-14	2.4073333	24.44700	7.6120000	2.000000	4.055556
## 3805	2001-04-15	2.0935714	24.57612	7.3100000	2.000000	2.000000
## 3806	2001-04-16	1.2704545	24.48573	7.2318182	2.000000	2.000000
## 3807	2001-04-17	1.3954654	24.69807	7.0724567	2.250000	7.750000
## 3808	2001-04-18	1.5204762	24.91040	6.9130952	6.188679	39.636364
## 3809	2001-04-19	1.9912121	24.83952	7.6824242	2.848485	4.363636
## 3810	2001-04-20	0.7933333	24.83796	6.5033333	3.363636	30.492424
## 3811	2001-04-21	0.5572727	24.96289	6.1869091	6.618182	56.621212
## 3812	2001-04-22	1.0503030	24.76525	7.1557273	9.750000	82.750000
## 3813	2001-04-23	1.5433333	24.56761	8.1245455	2.000000	2.060606
## 3814	2001-04-24	1.4350000	24.57505	7.9505303	7.090909	2.000000
## 3815	2001-04-25	1.3266667	24.58250	7.7765152	12.181818	10.363636
## 3816	2001-04-26	1.2183333	24.58995	7.6025000	6.000000	4.750000
## 3817	2001-04-27	1.1100000	24.59739	7.4284848	3.227273	2.727273
## 3818	2001-04-28	1.2122727	24.56247	7.5406061	18.500000	50.250000
## 3819	2001-04-29	1.3145455	24.52755	7.6527273	2.363636	2.424242
## 3820	2001-04-30	5.0380952	24.68910	7.1504762	2.266667	2.800000
## 3821	2001-05-01	3.6346667	24.81929	6.6611111	3.106383	4.680851
## 3822	2001-05-02	3.8196970	24.85018	6.4233333	3.000000	4.230769
## 3823	2001-05-03	1.2654167	24.71229	7.3033333	3.833333	2.000000
## 3824	2001-05-04	1.2678788	24.77385	7.1566667	2.060606	2.060606

## 3825	2001-05-05	1.2005303	24.74011	7.2807576	30.315789	17.789474
## 3826	2001-05-06	1.1331818	24.70638	7.4048485	2.000000	16.144737
## 3827	2001-05-07	1.0658333	24.67264	7.5289394	4.750000	14.500000
## 3828	2001-05-08	0.9984848	24.63891	7.6530303	10.363636	36.272727
## 3829	2001-05-09	0.9962121	24.79073	7.3430303	6.303030	10.000000
## 3830	2001-05-10	0.9939394	24.94255	7.0330303	2.242424	6.969697
## 3831	2001-05-11	1.0862338	24.96916	7.1837229	6.750000	12.000000
## 3832	2001-05-12	1.1785281	24.99577	7.3344156	4.363636	16.909091
## 3833	2001-05-13	1.2708225	25.02238	7.4851082	6.500000	9.000000
## 3834	2001-05-14	1.3631169	25.04899	7.6358009	53.818182	203.818182
## 3835	2001-05-15	1.4554113	25.07560	7.7864935	62.000000	66.000000
## 3836	2001-05-16	1.5477056	25.10221	7.9371861	2.000000	3.000000
## 3837	2001-05-17	1.6400000	25.12882	8.0878788	2.000000	2.060606
## 3838	2001-05-18	6.4136364	25.12521	7.6033333	601.724138	662.068966
## 3839	2001-05-19	5.1613333	25.12396	7.5648889	12.052632	31.684211
## 3840	2001-05-20	3.6592381	25.22406	7.2383968	9.000000	7.500000
## 3841	2001-05-21	2.1571429	25.32417	6.9119048	2.133333	2.133333
## 3842	2001-05-22	1.5106061	25.40209	7.7981818	26.227273	52.272727
## 3843	2001-05-23	1.5930429	25.38264	7.9508712	2.000000	3.250000
## 3844	2001-05-24	1.6754798	25.36320	8.1035606	8.000000	2.000000
## 3845	2001-05-25	1.7579167	25.34375	8.2562500	2.000000	2.000000
## 3846	2001-05-26	1.8042614	25.29560	8.4023674	6.947368	4.736842
## 3847	2001-05-27	1.8506061	25.24745	8.5484848	2.363636	2.000000
## 3848	2001-05-28	1.3922727	25.17524	8.2654545	5.750000	9.500000
## 3849	2001-05-29	0.9339394	25.10303	7.9824242	10.181818	61.090909
## 3850	2001-05-30	3.2275758	25.13708	7.5259091	3.750000	10.250000
## 3851	2001-05-31	5.5212121	25.17112	7.0693939	432.620690	469.448276
## 3852	2001-06-01	4.3055556	25.15073	7.2053333	6.722222	29.555556
## 3853	2001-06-02	3.8338095	25.14105	7.3709524	2.125000	6.242424
## 3854	2001-06-03	1.1824242	25.10221	7.5154545	2.000000	2.000000
## 3855	2001-06-04	1.2287879	25.15605	7.3162121	6.000000	5.250000
## 3856	2001-06-05	1.2751515	25.20988	7.1169697	4.848485	12.545455
## 3857	2001-06-06	2.1509091	25.54875	5.6501818	13.963636	40.090909
## 3858	2001-06-07	2.3327273	25.51323	5.7854545	16.909091	67.636364
## 3859	2001-06-08	2.3519048	25.41586	6.1602381	6.523810	38.141711
## 3860	2001-06-09	1.3872727	25.23848	7.1330303	2.121212	8.647059
## 3861	2001-06-10	1.3542929	25.25742	7.0953535	3.250000	2.750000
## 3862	2001-06-11	1.3213131	25.27636	7.0576768	9.454545	22.000000
## 3863	2001-06-12	1.2883333	25.29529	7.0200000	2.500000	4.562500
## 3864	2001-06-13	1.8493939	25.30891	7.0751515	2.000000	2.000000
## 3865	2001-06-14	1.9677778	25.30166	7.1465657	6.545455	32.727273
## 3866	2001-06-15	2.0861616	25.29440	7.2179798	2.000000	2.750000
## 3867	2001-06-16	2.2045455	25.28715	7.2893939	2.000000	2.000000
## 3868	2001-06-17	2.7770000	25.15327	7.9993333	3.135135	5.081081
## 3869	2001-06-18	2.2466667	25.21771	7.2628889	2.000000	2.000000
## 3870	2001-06-19	0.7883333	25.28946	6.2941667	27.562500	8.937500
## 3871	2001-06-20	1.3520000	25.43669	6.0462222	269.659574	301.234043
## 3872	2001-06-21	1.9791818	25.39075	6.3387172	2.000000	151.647324
## 3873	2001-06-22	2.6063636	25.34482	6.6312121	2.000000	2.060606
## 3874	2001-06-23	2.6557576	25.27090	7.1338384	2.000000	5.000000
## 3875	2001-06-24	2.7051515	25.19698	7.6364646	1121.272727	1730.909091
## 3876	2001-06-25	2.7545455	25.12306	8.1390909	2.000000	2.000000
## 3877	2001-06-26	2.4565152	25.12405	7.8790909	38.666667	622.666667
## 3878	2001-06-27	2.1584848	25.12505	7.6190909	62.000000	140.000000

## 3879	2001-06-28	1.8604545	25.12604	7.3590909	5.000000	5.750000
## 3880	2001-06-29	1.5624242	25.12703	7.0990909	2.121212	2.000000
## 3881	2001-06-30	1.4060606	25.15319	6.8807828	6.727273	4.181818
## 3882	2001-07-01	1.2496970	25.17934	6.6624747	3.500000	6.750000
## 3883	2001-07-02	1.0933333	25.20550	6.4441667	2.342857	3.200000
## 3884	2001-07-03	6.1660606	25.42761	6.4912121	2.000000	2.000000
## 3885	2001-07-04	4.9764444	25.43247	6.1662222	2.318182	7.363636
## 3886	2001-07-05	1.8688095	25.44650	5.9623810	2.000000	2.000000
## 3887	2001-07-06	2.4387879	25.33312	5.9278788	2.000000	2.030303
## 3888	2001-07-07	2.4538636	25.30111	6.0994697	12.909091	7.454545
## 3889	2001-07-08	2.4689394	25.26909	6.2710606	2.500000	4.250000
## 3890	2001-07-09	2.4840152	25.23708	6.4426515	192.736842	687.684211
## 3891	2001-07-10	2.4990909	25.20506	6.6142424	2.000000	2.000000
## 3892	2001-07-11	2.4888889	25.07758	7.1450505	4.000000	2.750000
## 3893	2001-07-12	2.4786869	24.95009	7.6758586	2.000000	3.454545
## 3894	2001-07-13	2.4684848	24.82261	8.2066667	2.060606	2.000000
## 3895	2001-07-14	2.1543939	24.84509	7.9510606	3.250000	5.500000
## 3896	2001-07-15	1.8403030	24.86758	7.6954545	2.954545	3.136364
## 3897	2001-07-16	1.9983333	24.73550	7.6489394	2.000000	6.750000
## 3898	2001-07-17	2.1563636	24.60342	7.6024242	147.103448	561.034483
## 3899	2001-07-18	1.4116667	24.75855	7.5923810	2.000000	4.466667
## 3900	2001-07-19	1.8473333	24.67633	7.7635556	2.054054	5.333333
## 3901	2001-07-20	1.3650000	24.75637	7.2620833	2.125000	2.625000
## 3902	2001-07-21	0.6827273	25.50267	5.0825455	2.545455	7.494318
## 3903	2001-07-22	0.8113636	25.42695	5.2063636	6.327273	12.363636
## 3904	2001-07-23	1.4830952	25.22910	5.6671429	2.904762	7.279379
## 3905	2001-07-24	1.5369697	24.98184	7.7157576	11.707317	2.195122
## 3906	2001-07-25	2.0484848	24.73459	7.8624242	2.000000	2.400591
## 3907	2001-07-26	2.5600000	24.48733	8.0090909	2.000000	2.606061
## 3908	2001-07-27	2.0350000	24.47097	7.7192424	2.363636	12.000000
## 3909	2001-07-28	1.5100000	24.45461	7.4293939	2.146341	3.073171
## 3910	2001-07-29	1.2590909	24.48194	7.2372727	3.615385	6.000000
## 3911	2001-07-30	1.6395455	24.39923	7.3295455	2.000000	2.500000
## 3912	2001-07-31	2.0200000	24.31652	7.4218182	2.206897	4.620690
## 3913	2001-08-01	3.1855556	24.63429	6.7093333	2.944444	7.166667
## 3914	2001-08-02	2.5680952	25.09205	6.2142857	3.000000	6.066667
## 3915	2001-08-03	1.3891667	25.08183	5.3845833	2.083333	2.000000
## 3916	2001-08-04	2.8019697	25.08179	6.0017424	2.750000	4.750000
## 3917	2001-08-05	4.2147727	25.08174	6.6189015	5.090909	3.636364
## 3918	2001-08-06	5.6275758	25.08170	7.2360606	2.000000	2.000000
## 3919	2001-08-07	3.9265152	24.95411	7.7148485	2.250000	4.000000
## 3920	2001-08-08	2.2254545	24.82652	8.1936364	2.000000	2.863636
## 3921	2001-08-09	1.8474242	24.63705	7.9375758	2.500000	7.750000
## 3922	2001-08-10	1.4693939	24.44758	7.6815152	2.303030	2.000000
## 3923	2001-08-11	1.6380808	24.48049	7.5152525	2.000000	2.363636
## 3924	2001-08-12	1.8067677	24.51341	7.3489899	6.750000	5.000000
## 3925	2001-08-13	1.9754545	24.54633	7.1827273	2.000000	2.303030
## 3926	2001-08-14	1.6140909	24.43856	7.3943939	4.000000	3.818182
## 3927	2001-08-15	1.2527273	24.33079	7.6060606	2.097561	2.829268
## 3928	2001-08-16	1.2241667	24.76008	7.0520833	2.790698	3.395349
## 3929	2001-08-17	1.7248889	24.92467	7.3666667	2.000000	2.000000
## 3930	2001-08-18	1.4685714	24.78188	7.1104762	2.000000	2.000000
## 3931	2001-08-19	2.0372727	24.87167	7.4060606	2.000000	2.000000
## 3932	2001-08-20	1.6660606	24.48185	8.0821212	2.731707	2.048780

## 3933	2001-08-21	1.7815152	24.73545	7.7969697	15.090909	18.181818
## 3934	2001-08-22	1.8969697	24.98906	7.5118182	3.317073	3.170732
## 3935	2001-08-23	2.1050909	24.97843	7.5012121	11.090909	12.727273
## 3936	2001-08-24	2.3132121	24.96781	7.4906061	904.000000	14.750000
## 3937	2001-08-25	2.5213333	24.95718	7.4800000	2.000000	8.647727
## 3938	2001-08-26	2.7294545	24.94656	7.4693939	4.000000	2.545455
## 3939	2001-08-27	2.9375758	24.93593	7.4587879	2.000000	2.000000
## 3940	2001-08-28	2.4976515	24.92530	7.2248485	2.250000	3.750000
## 3941	2001-08-29	2.0577273	24.91468	6.9909091	4.363636	13.636364
## 3942	2001-08-30	1.6178030	24.90405	6.7569697	2.250000	3.250000
## 3943	2001-08-31	1.1778788	24.89342	6.5230303	2.000000	2.303030
## 3944	2001-09-01	1.5543434	24.77599	6.9358586	17.636364	169.636364
## 3945	2001-09-02	1.9308081	24.65856	7.3486869	3.500000	4.500000
## 3946	2001-09-03	2.3072727	24.54112	7.7615152	2.000000	2.000000
## 3947	2001-09-04	2.8203030	25.03006	7.1696970	2.111111	2.111111
## 3948	2001-09-05	6.8778571	25.01545	7.4042857	8.448980	9.306122
## 3949	2001-09-06	2.5608889	25.10382	7.0971111	2.111111	2.555556
## 3950	2001-09-07	1.0500000	24.87679	7.1266667	2.000000	2.000000
## 3951	2001-09-08	1.5724242	24.81388	7.2809091	2.097561	3.268293
## 3952	2001-09-09	1.4828571	24.98433	7.0126190	2.264151	4.545455
## 3953	2001-09-10	1.0018182	25.21302	5.9897727	2.045455	3.696970
## 3954	2001-09-11	1.0703636	25.31815	5.7023636	2.436364	2.848485
## 3955	2001-09-12	3.8883333	24.83550	8.1679167	2.083333	2.000000
## 3956	2001-09-13	4.3567424	24.78660	8.4653220	12.000000	4.500000
## 3957	2001-09-14	4.8251515	24.73770	8.7627273	2.620690	4.275862
## 3958	2001-09-15	2.7619048	24.69112	8.6478571	2.000000	2.266667
## 3959	2001-09-16	3.5291111	24.73120	8.5060000	2.000000	2.111111
## 3960	2001-09-17	3.5541667	24.53692	8.1745833	2.000000	2.000000
## 3961	2001-09-18	2.8863131	24.53378	8.0573990	7.500000	16.250000
## 3962	2001-09-19	2.2184596	24.53065	7.9402146	8.727273	55.818182
## 3963	2001-09-20	1.5506061	24.52752	7.8230303	2.000000	2.000000
## 3964	2001-09-21	1.4727879	24.56056	7.6754545	3.500000	3.250000
## 3965	2001-09-22	1.3949697	24.59360	7.5278788	71.090909	104.545455
## 3966	2001-09-23	1.3171515	24.62664	7.3803030	2.121212	2.060606
## 3967	2001-09-24	1.2393333	24.62450	7.1827273	5.000000	5.000000
## 3968	2001-09-25	1.1615152	24.62236	6.9851515	2.000000	2.000000
## 3969	2001-09-26	1.1998990	24.48297	7.0490909	4.727273	8.727273
## 3970	2001-09-27	1.2382828	24.34358	7.1130303	2.750000	3.500000
## 3971	2001-09-28	1.2766667	24.20418	7.1769697	2.000000	2.060606
## 3972	2001-09-29	1.6277778	24.44349	7.9608889	2.727273	3.090909
## 3973	2001-09-30	1.7716667	24.48802	7.7085714	4.666667	3.600000
## 3974	2001-10-01	1.9406061	24.30688	7.6396970	2.000000	2.000000
## 3975	2001-10-02	1.2633333	24.15829	6.9095833	2.000000	2.000000
## 3976	2001-10-03	1.3712727	24.23286	6.9690000	9.750000	20.250000
## 3977	2001-10-04	1.4792121	24.30744	7.0284167	5.272727	6.727273
## 3978	2001-10-05	1.5871515	24.38201	7.0878333	2.000000	2.000000
## 3979	2001-10-06	1.6950909	24.45658	7.1472500	31.272727	107.636364
## 3980	2001-10-07	1.8030303	24.53115	7.2066667	2.000000	3.272727
## 3981	2001-10-08	1.7566667	24.56561	7.0832323	7.250000	10.750000
## 3982	2001-10-09	1.7103030	24.60006	6.9597980	16.545455	49.454545
## 3983	2001-10-10	1.6639394	24.63452	6.8363636	2.000000	2.121212
## 3984	2001-10-11	1.4978788	24.62824	6.9250000	2.000000	4.250000
## 3985	2001-10-12	1.3318182	24.62197	7.0136364	12.954545	31.000000
## 3986	2001-10-13	1.5327273	24.70239	6.8748485	8.829268	5.170732

## 3987	2001-10-14	1.4818182	24.75379	6.8219697	2.000000	15.312639
## 3988	2001-10-15	1.4309091	24.80518	6.7690909	2.000000	25.454545
## 3989	2001-10-16	1.1950379	24.75453	6.8866288	11.971429	2.000000
## 3990	2001-10-17	0.9591667	24.70388	7.0041667	21.942857	10.685714
## 3991	2001-10-18	1.6707143	24.77848	7.7526190	4.421053	20.473684
## 3992	2001-10-19	1.8422222	24.82589	7.5851111	2.368421	2.111111
## 3993	2001-10-20	1.9951515	24.77436	7.5306061	2.000000	2.111111
## 3994	2001-10-21	1.6554545	24.62458	7.3533333	6.653846	7.384615
## 3995	2001-10-22	1.4578571	24.80131	7.3883333	2.285714	6.343340
## 3996	2001-10-23	0.8018182	24.93948	6.8618182	8.409091	5.302064
## 3997	2001-10-24	0.8530357	25.00180	6.6708929	2.618182	4.260788
## 3998	2001-10-25	1.1742424	24.50048	7.1860606	7.365854	3.219512
## 3999	2001-10-26	1.1707071	24.51685	7.0663636	13.818182	111.090909
## 4000	2001-10-27	1.1671717	24.53321	6.9466667	2.000000	79.740576
## 4001	2001-10-28	1.1636364	24.54958	6.8269697	30.585366	48.390244
## 4002	2001-10-29	1.1706494	24.55354	6.8591775	25.000000	29.000000
## 4003	2001-10-30	1.1776623	24.55750	6.8913853	125.636364	1160.545455
## 4004	2001-10-31	1.1846753	24.56146	6.9235931	1100.000000	4870.000000
## 4005	2001-11-01	1.1916883	24.56542	6.9558009	1100.000000	1323.000000
## 4006	2001-11-02	1.1987013	24.56938	6.9880087	7.000000	16.250000
## 4007	2001-11-03	1.2057143	24.57334	7.0202165	1300.000000	5000.000000
## 4008	2001-11-04	1.2127273	24.57730	7.0524242	2.000000	2.000000
## 4009	2001-11-05	2.1357576	24.61809	7.5751515	14.413793	35.034483
## 4010	2001-11-06	2.7622222	24.62178	7.9651111	6.277778	15.500000
## 4011	2001-11-07	1.9004762	24.66505	7.8238095	157.736842	239.289474
## 4012	2001-11-08	1.7731548	24.72884	7.7889881	1096.727273	1106.363636
## 4013	2001-11-09	1.6458333	24.79263	7.7541667	2.000000	2.250000
## 4014	2001-11-10	1.7118561	24.79972	7.8042045	15.111111	65.111111
## 4015	2001-11-11	1.7778788	24.80682	7.8542424	2.121212	17.647059
## 4016	2001-11-12	1.7516162	24.81608	7.7735354	9.878788	82.000000
## 4017	2001-11-13	1.7253535	24.82534	7.6928283	17.636364	71.090909
## 4018	2001-11-14	1.6990909	24.83461	7.6121212	2.780488	5.756098
## 4019	2001-11-15	1.2542424	24.83648	7.6984848	11.454545	43.227273
## 4020	2001-11-16	1.1663636	24.84468	7.6784848	5.250000	16.750000
## 4021	2001-11-17	1.0784848	24.85287	7.6584848	104.105263	157.578947
## 4022	2001-11-18	0.9906061	24.86106	7.6384848	3.818182	2.545455
## 4023	2001-11-19	1.1853535	24.86074	7.7093939	11.000000	11.000000
## 4024	2001-11-20	1.3801010	24.86041	7.7803030	7.454545	22.000000
## 4025	2001-11-21	1.5748485	24.86009	7.8512121	2.181818	2.121212
## 4026	2001-11-22	1.4418182	24.84856	7.7315152	6.500000	4.750000
## 4027	2001-11-23	1.3087879	24.83703	7.6118182	2.060606	2.545455
## 4028	2001-11-24	1.2762121	24.81847	7.6886364	58.181818	94.181818
## 4029	2001-11-25	1.2436364	24.79991	7.7654545	2.000000	2.000000
## 4030	2001-11-26	1.2110606	24.78135	7.8422727	73.090909	204.181818
## 4031	2001-11-27	1.1784848	24.76279	7.9190909	2.048780	2.097561
## 4032	2001-11-28	1.0500000	24.71415	7.6169697	2.000000	2.000000
## 4033	2001-11-29	1.2862963	24.74484	7.5998316	15.090909	9.272727
## 4034	2001-11-30	1.5225926	24.77553	7.5826936	101.000000	13.000000
## 4035	2001-12-01	1.7588889	24.80622	7.5655556	2.888889	16.666667
## 4036	2001-12-02	1.3552778	24.81082	7.6315278	2.000000	42.193798
## 4037	2001-12-03	0.9516667	24.81542	7.6975000	20.837209	67.720930
## 4038	2001-12-04	1.6548485	24.84809	7.6954545	3.000000	2.444444
## 4039	2001-12-05	1.4266667	24.88740	7.5792857	2.666667	6.333333
## 4040	2001-12-06	1.4746667	24.85989	7.5344444	24.111111	180.944444

##	4041	2001-12-07	0.4965455	25.47305	5.7432727	7.523810	4.500000
##	4042	2001-12-08	0.5288636	25.50648	5.5725000	21.527273	387.636364
##	4043	2001-12-09	0.6300000	25.40171	5.8050000	6.952381	198.818182
##	4044	2001-12-10	1.6709091	25.28950	6.4250505	2.000000	10.000000
##	4045	2001-12-11	2.7118182	25.17728	7.0451010	12.500000	8.500000
##	4046	2001-12-12	3.7527273	25.06506	7.6651515	14.590909	8.045455
##	4047	2001-12-13	1.2990909	24.80209	8.3787879	2.926829	4.146341
##	4048	2001-12-14	0.7263636	24.76552	8.2538182	2.000000	2.060606
##	4049	2001-12-15	0.7112879	24.70546	8.1288485	5.636364	22.727273
##	4050	2001-12-16	0.6962121	24.64541	8.0038788	164.000000	116.750000
##	4051	2001-12-17	0.6811364	24.58536	7.8789091	23.000000	63.193182
##	4052	2001-12-18	0.6660606	24.52530	7.7539394	4.787879	9.636364
##	4053	2001-12-19	0.8253102	24.61366	7.5473882	58.181818	336.727273
##	4054	2001-12-20	0.9845599	24.70202	7.3408369	56.000000	1554.727273
##	4055	2001-12-21	1.1438095	24.79038	7.1342857	2.142857	2.714286
##	4056	2001-12-22	1.3127814	24.73741	7.3033658	2000.000000	9400.000000
##	4057	2001-12-23	1.4817532	24.68443	7.4724459	34.000000	5135.333333
##	4058	2001-12-24	1.6507251	24.63146	7.6415260	61.818182	773.090909
##	4059	2001-12-25	1.8196970	24.57848	7.8106061	4.195122	4.634146
##	4060	2001-12-26	1.5037879	24.65426	7.6380303	50.000000	29.000000
##	4061	2001-12-27	1.1878788	24.73003	7.4654545	8.461538	14.307692
##	4062	2001-12-28	1.1516162	24.80157	7.1842424	17.250000	22.750000
##	4063	2001-12-29	1.1153535	24.87310	6.9030303	67.090909	166.727273
##	4064	2001-12-30	1.0790909	24.94464	6.6218182	2.000000	2.000000
##	4065	2001-12-31	1.7494733	25.06833	6.6047042	4.250000	7.000000
##	4066	2002-01-01	2.4198557	25.19202	6.5875902	1100.545455	1099.090909
##	4067	2002-01-02	3.0902381	25.31571	6.5704762	7.714286	16.714286
##	4068	2002-01-03	3.8246753	25.29626	6.8049870	5.500000	10.000000
##	4069	2002-01-04	4.5591126	25.27680	7.0394978	11.818182	133.272727
##	4070	2002-01-05	5.2935498	25.25734	7.2740087	7.284091	12.000000
##	4071	2002-01-06	6.0279870	25.23788	7.5085195	2.750000	2.500000
##	4072	2002-01-07	6.7624242	25.21842	7.7430303	3.272727	2.000000
##	4073	2002-01-08	5.1592424	25.16248	7.7060606	3.272727	4.545455
##	4074	2002-01-09	3.5560606	25.10655	7.6690909	2.000000	2.060606
##	4075	2002-01-10	3.0778788	25.00214	7.6278788	6.750000	4.750000
##	4076	2002-01-11	2.5996970	24.89773	7.5866667	7.000000	27.863636
##	4077	2002-01-12	3.4852525	25.03143	7.4033333	5.500000	3.750000
##	4078	2002-01-13	4.3708081	25.16514	7.2200000	3.684211	22.736842
##	4079	2002-01-14	5.2563636	25.29885	7.0366667	3.515152	2.000000
##	4080	2002-01-15	7.2642424	25.27039	7.8406061	2.060606	2.000000
##	4081	2002-01-16	3.5936364	24.80736	9.2039394	2.097561	2.536585
##	4082	2002-01-17	4.0217172	24.94308	8.4807071	8.909091	19.272727
##	4083	2002-01-18	4.4497980	25.07880	7.7574747	2.000000	4.750000
##	4084	2002-01-19	4.8778788	25.21452	7.0342424	3.172414	2.137931
##	4085	2002-01-20	3.0664286	25.17843	6.7947619	8.600000	2.066667
##	4086	2002-01-21	4.3268889	25.17251	7.0635556	2.000000	2.333333
##	4087	2002-01-22	1.2925000	24.81362	7.8008333	2.083333	1.958333
##	4088	2002-01-23	1.0630682	24.52233	8.0089015	3.250000	5.000000
##	4089	2002-01-24	0.8336364	24.23103	8.2169697	8.000000	15.681818
##	4090	2002-01-25	0.9034545	25.31436	6.0301818	2.145455	1007.840909
##	4091	2002-01-26	1.0250000	25.14220	6.4693182	3.288889	2000.000000
##	4092	2002-01-27	1.0126190	24.88824	7.0057143	2.080000	22.222222
##	4093	2002-01-28	1.0167641	24.66263	7.6142208	3.090909	4.181818
##	4094	2002-01-29	1.0209091	24.43703	8.2227273	2.060606	2.000000

## 4095	2002-01-30	0.9941667	24.58425	7.9180303	3.500000	3.750000
## 4096	2002-01-31	0.9674242	24.73147	7.6133333	29.090909	10.727273
## 4097	2002-02-01	0.9406818	24.87869	7.3086364	4.000000	2.500000
## 4098	2002-02-02	0.9139394	25.02591	7.0039394	2.000000	2.000000
## 4099	2002-02-03	1.2904221	24.87118	7.5623268	95.368421	67.578947
## 4100	2002-02-04	1.6669048	24.71645	8.1207143	2.047619	2.238095
## 4101	2002-02-05	1.4705628	24.60885	8.2486580	11.250000	2.750000
## 4102	2002-02-06	1.2742208	24.50124	8.3766017	102.000000	24.000000
## 4103	2002-02-07	1.0778788	24.39364	8.5045455	2.000000	2.000000
## 4104	2002-02-08	1.2290909	24.24293	8.3474242	4.750000	4.000000
## 4105	2002-02-09	1.3803030	24.09223	8.1903030	3.090909	2.909091
## 4106	2002-02-10	1.5315152	23.94152	8.0331818	5.000000	3.500000
## 4107	2002-02-11	1.6827273	23.79082	7.8760606	2.000000	2.000000
## 4108	2002-02-12	2.2036364	23.73833	7.8472727	4.909091	2.000000
## 4109	2002-02-13	2.3189610	23.87385	7.9811364	2.545455	3.818182
## 4110	2002-02-14	2.4342857	24.00936	8.1150000	5.714286	2.095238
## 4111	2002-02-15	1.9925974	23.95721	7.9932576	5.250000	2.500000
## 4112	2002-02-16	1.5509091	23.90506	7.8715152	2.272727	2.045455
## 4113	2002-02-17	1.2042424	24.17974	7.7106061	2.500000	4.750000
## 4114	2002-02-18	0.8575758	24.45442	7.5496970	2.000000	2.545455
## 4115	2002-02-19	0.7990909	24.33666	7.6145455	316.545455	65.454545
## 4116	2002-02-20	0.7406061	24.21889	7.6793939	2.250000	2.500000
## 4117	2002-02-21	0.6821212	24.10112	7.7442424	4.181818	2.000000
## 4118	2002-02-22	0.7059394	24.05988	7.8426667	22.421053	17.684211
## 4119	2002-02-23	0.7297576	24.01864	7.9410909	64.250000	134.000000
## 4120	2002-02-24	0.7535758	23.97739	8.0395152	8.545455	7.272727
## 4121	2002-02-25	0.7773939	23.93615	8.1379394	39.000000	40.000000
## 4122	2002-02-26	0.8012121	23.89491	8.2363636	2.000000	2.000000
## 4123	2002-02-27	0.9563636	23.86791	8.0996970	5.515152	2.000000
## 4124	2002-02-28	0.8452652	23.84275	7.9000568	15.250000	7.500000
## 4125	2002-03-01	0.7341667	23.81758	7.7004167	7.250000	2.000000
## 4126	2002-03-02	0.7871429	24.26876	7.8830952	2.292683	2.536585
## 4127	2002-03-03	1.1322222	24.37618	8.0175556	2.111111	2.222222
## 4128	2002-03-04	1.7254545	24.48627	7.7572727	2.222222	2.111111
## 4129	2002-03-05	1.1132727	24.65860	7.1665455	23.000000	10.500000
## 4130	2002-03-06	0.5010909	24.83093	6.5758182	17.750000	11.340909
## 4131	2002-03-07	0.8652273	24.75032	6.7345455	6.109091	12.181818
## 4132	2002-03-08	1.2557143	24.49919	7.4138095	2.523810	7.090909
## 4133	2002-03-09	0.9978788	24.09439	8.1727273	2.000000	2.000000
## 4134	2002-03-10	0.9552525	24.07199	8.1597980	2.000000	8.750000
## 4135	2002-03-11	0.9126263	24.04959	8.1468687	73.090909	12.000000
## 4136	2002-03-12	0.8700000	24.02718	8.1339394	2.000000	2.000000
## 4137	2002-03-13	0.9481061	24.05124	8.0455303	2.250000	3.750000
## 4138	2002-03-14	1.0262121	24.07530	7.9571212	2.000000	2.181818
## 4139	2002-03-15	1.1043182	24.09936	7.8687121	45.500000	10.000000
## 4140	2002-03-16	1.1824242	24.12342	7.7803030	2.000000	2.727273
## 4141	2002-03-17	0.9703030	23.51488	7.5557576	4.961538	2.576923
## 4142	2002-03-18	1.3200000	23.94981	7.5761905	4.720000	4.640000
## 4143	2002-03-19	1.2307576	23.84557	7.5630952	46.363636	8.000000
## 4144	2002-03-20	1.1415152	23.74133	7.5500000	2.390244	2.146341
## 4145	2002-03-21	1.1720000	23.79865	7.5205455	2.666667	2.000000
## 4146	2002-03-22	1.2024848	23.85598	7.4910909	2.250000	6.750000
## 4147	2002-03-23	1.2329697	23.91330	7.4616364	5.000000	6.000000
## 4148	2002-03-24	1.2634545	23.97062	7.4321818	4.181818	2.181818

## 4149	2002-03-25	1.2939394	24.02794	7.4027273	2.926829	2.926829
## 4150	2002-03-26	1.2231313	23.97985	7.4093939	6.000000	9.272727
## 4151	2002-03-27	1.1523232	23.93176	7.4160606	6.750000	4.500000
## 4152	2002-03-28	1.0815152	23.88367	7.4227273	4.181818	2.000000
## 4153	2002-03-29	0.9831602	23.75368	7.3534740	463.090909	107.090909
## 4154	2002-03-30	0.8848052	23.62370	7.2842208	13.750000	15.000000
## 4155	2002-03-31	0.7864502	23.49372	7.2149675	60.333333	8.500000
## 4156	2002-04-01	0.6880952	23.36374	7.1457143	2.181818	2.000000
## 4157	2002-04-02	1.0257576	23.44000	6.8978788	6.606061	2.000000
## 4158	2002-04-03	1.0453535	23.46241	6.8330303	50.947368	739.263158
## 4159	2002-04-04	1.0649495	23.48483	6.7681818	4.000000	16.000000
## 4160	2002-04-05	1.0845455	23.50724	6.7033333	2.000000	2.000000
## 4161	2002-04-06	1.1009091	23.59818	6.8054545	3.250000	8.250000
## 4162	2002-04-07	1.1172727	23.68912	6.9075758	131.727273	25.227273
## 4163	2002-04-08	1.1233333	23.72155	6.9421212	4.000000	22.363636
## 4164	2002-04-09	1.1293939	23.75397	6.9766667	33.750000	19.500000
## 4165	2002-04-10	1.1354545	23.78639	7.0112121	37.000000	6.909091
## 4166	2002-04-11	1.1415152	23.81882	7.0457576	2.060606	2.606061
## 4167	2002-04-12	1.0056926	23.96130	7.1728860	65.000000	27.500000
## 4168	2002-04-13	0.8698701	24.10378	7.3000144	42.000000	52.204545
## 4169	2002-04-14	0.7340476	24.24626	7.4271429	20.377358	76.909091
## 4170	2002-04-15	0.4354545	24.61352	7.0688636	31.136364	55.045085
## 4171	2002-04-16	0.3812727	24.83418	6.6263636	46.363636	33.181079
## 4172	2002-04-17	1.0933333	24.06618	7.2072727	17.162791	11.317073
## 4173	2002-04-18	0.8396970	23.96383	7.3015152	51.000000	8.726718
## 4174	2002-04-19	0.5860606	23.86148	7.3957576	16.954545	6.136364
## 4175	2002-04-20	0.7654545	23.88952	7.2836364	3.250000	18.500000
## 4176	2002-04-21	0.9448485	23.91755	7.1715152	2.000000	2.060606
## 4177	2002-04-22	0.9333333	24.09479	7.4897619	2.000000	2.000000
## 4178	2002-04-23	1.0893333	24.13102	7.5757778	2.255319	2.340426
## 4179	2002-04-24	0.9939394	24.16509	7.4890909	2.307692	6.846154
## 4180	2002-04-25	1.0416667	24.04783	7.2062500	2.333333	2.250000
## 4181	2002-04-26	0.9664881	24.26176	7.1669697	9.230769	10.884615
## 4182	2002-04-27	0.8913095	24.20780	7.2021861	5.500000	9.000000
## 4183	2002-04-28	0.8161310	24.15384	7.2374026	68.181818	16.545455
## 4184	2002-04-29	0.7409524	24.09988	7.2726190	2.380952	2.047619
## 4185	2002-04-30	0.8616883	24.17799	7.2743398	5.500000	14.000000
## 4186	2002-05-01	0.9824242	24.25609	7.2760606	10.909091	27.090909
## 4187	2002-05-02	0.9762879	24.23766	7.2689394	29.636364	23.272727
## 4188	2002-05-03	0.9701515	24.21923	7.2618182	2.000000	2.000000
## 4189	2002-05-04	0.9640152	24.20080	7.2546970	24.000000	15.000000
## 4190	2002-05-05	0.9578788	24.18236	7.2475758	610.454545	940.090909
## 4191	2002-05-06	0.9187879	24.19012	7.2268182	1320.666667	1466.235294
## 4192	2002-05-07	0.8796970	24.19788	7.2060606	420.555556	422.000000
## 4193	2002-05-08	1.2463636	24.24848	7.2742424	78.277778	67.333333
## 4194	2002-05-09	1.2827348	24.29701	7.3587677	100.000000	88.181818
## 4195	2002-05-10	1.3191061	24.34554	7.4432929	81.000000	49.340909
## 4196	2002-05-11	1.3554773	24.39406	7.5278182	7.750000	10.500000
## 4197	2002-05-12	1.3918485	24.44259	7.6123434	72.000000	8.545455
## 4198	2002-05-13	1.4282197	24.49111	7.6968687	521.111111	10.000000
## 4199	2002-05-14	1.4645909	24.53964	7.7813939	18000.000000	14.444444
## 4200	2002-05-15	1.5009621	24.58816	7.8659192	12000.000000	18.888889
## 4201	2002-05-16	1.5373333	24.63669	7.9504444	20.800000	23.333333
## 4202	2002-05-17	1.5954667	24.61368	7.9526222	17.789474	34.631579

## 4203	2002-05-18	1.6536000	24.59068	7.9548000	2.000000	2.000000
## 4204	2002-05-19	1.7117333	24.56768	7.9569778	290.000000	840.000000
## 4205	2002-05-20	1.7698667	24.54467	7.9591556	66.000000	32.000000
## 4206	2002-05-21	1.8280000	24.52167	7.9613333	2.355556	3.422222
## 4207	2002-05-22	1.7316444	24.51168	7.9025333	16.000000	18.586111
## 4208	2002-05-23	1.6352889	24.50169	7.8437333	93.500000	33.750000
## 4209	2002-05-24	1.5389333	24.49171	7.7849333	1446.909091	2042.909091
## 4210	2002-05-25	1.4425778	24.48172	7.7261333	4.000000	1181.515770
## 4211	2002-05-26	1.3462222	24.47173	7.6673333	266.653061	320.122449
## 4212	2002-05-27	1.3865926	24.46349	7.6663704	790.000000	2840.000000
## 4213	2002-05-28	1.4269630	24.45524	7.6654074	13.400000	6.400000
## 4214	2002-05-29	1.4673333	24.44700	7.6644444	15.392857	10.357143
## 4215	2002-05-30	1.3577778	24.46690	7.5715556	6.250000	2.750000
## 4216	2002-05-31	1.2482222	24.48681	7.4786667	12.181818	4.909091
## 4217	2002-06-01	1.1386667	24.50671	7.3857778	2.000000	2.000000
## 4218	2002-06-02	1.0220417	24.48644	7.3335139	7.250000	4.250000
## 4219	2002-06-03	0.9054167	24.46617	7.2812500	2.166667	2.000000
## 4220	2002-06-04	1.1697083	24.52605	7.5057143	5.365854	23.268293
## 4221	2002-06-05	1.4340000	24.49122	7.6840000	50.777778	107.833333
## 4222	2002-06-06	1.5548485	24.54509	7.4690909	4.275862	5.862069
## 4223	2002-06-07	1.3430195	24.67495	7.2512121	2.000000	2.000000
## 4224	2002-06-08	1.1311905	24.80481	7.0333333	8.000000	3.181818
## 4225	2002-06-09	0.6175000	24.97811	6.6534091	10.690909	4.363636
## 4226	2002-06-10	0.3990909	25.11242	6.3778182	15.812500	2.250000
## 4227	2002-06-11	1.2006667	24.77653	7.0128889	2.044444	2.177778
## 4228	2002-06-12	1.0960741	24.67008	7.3130370	8.000000	3.220468
## 4229	2002-06-13	0.9914815	24.56363	7.6131852	8.000000	4.263158
## 4230	2002-06-14	0.8868889	24.45718	7.9133333	2.000000	2.000000
## 4231	2002-06-15	1.1968889	24.38936	7.8075556	2.000000	2.000000
## 4232	2002-06-16	1.1981111	24.39171	7.7802222	16.250000	15.750000
## 4233	2002-06-17	1.1993333	24.39406	7.7528889	1104.909091	1189.818182
## 4234	2002-06-18	1.2005556	24.39641	7.7255556	335.333333	1259.800000
## 4235	2002-06-19	1.2017778	24.39876	7.6982222	8.869565	70.212766
## 4236	2002-06-20	1.3035000	24.41640	7.6561111	2.000000	2.000000
## 4237	2002-06-21	1.4052222	24.43404	7.6140000	2276.000000	2805.454545
## 4238	2002-06-22	1.5069444	24.45169	7.5718889	71.666667	79.000000
## 4239	2002-06-23	1.6086667	24.46933	7.5297778	5.854545	45.396226
## 4240	2002-06-24	1.5539259	24.47073	7.5722963	7.927273	28.666667
## 4241	2002-06-25	1.4991852	24.47212	7.6148148	10.000000	57.454545
## 4242	2002-06-26	1.4444444	24.47351	7.6573333	3.688889	2.888889
## 4243	2002-06-27	1.2871852	24.45814	7.7140000	3.719444	360.000000
## 4244	2002-06-28	1.1299259	24.44277	7.7706667	3.750000	12.888889
## 4245	2002-06-29	0.9726667	24.42740	7.8273333	9.000000	3.607143
## 4246	2002-06-30	0.9977778	24.39064	7.8237778	52.750000	37.750000
## 4247	2002-07-01	1.0228889	24.35387	7.8202222	6.000000	19.875000
## 4248	2002-07-02	1.0480000	24.31711	7.8166667	2.355556	2.000000
## 4249	2002-07-03	1.2860000	24.43559	7.5960000	27.157895	10.421053
## 4250	2002-07-04	1.5240000	24.55407	7.3753333	3.200000	2.000000
## 4251	2002-07-05	1.5814444	24.49863	7.4133333	9.473684	12.947368
## 4252	2002-07-06	1.6388889	24.44320	7.4513333	2.000000	2.044444
## 4253	2002-07-07	1.7502222	24.63025	7.3264444	3.750000	6.250000
## 4254	2002-07-08	1.8615556	24.81730	7.2015556	27.454545	23.636364
## 4255	2002-07-09	1.9728889	25.00436	7.0766667	2.000000	2.000000
## 4256	2002-07-10	2.0881481	24.91405	7.3085185	3.500000	5.750000

## 4257	2002-07-11	2.2034074	24.82375	7.5403704	2.727273	2.363636
## 4258	2002-07-12	2.3186667	24.73344	7.7722222	2.000000	2.133333
## 4259	2002-07-13	2.4845556	24.72601	7.8858889	19.750000	18.500000
## 4260	2002-07-14	2.6504444	24.71858	7.9995556	2.928571	3.714286
## 4261	2002-07-15	2.3694444	24.73969	7.7091111	10.250000	8.750000
## 4262	2002-07-16	2.0884444	24.76080	7.4186667	2.571429	3.607143
## 4263	2002-07-17	1.8671389	24.69790	7.3993333	2.500000	2.000000
## 4264	2002-07-18	1.6458333	24.63500	7.3800000	2.000000	2.000000
## 4265	2002-07-19	2.8676944	24.82069	7.4015556	10.625000	3.125000
## 4266	2002-07-20	4.0895556	25.00638	7.4231111	2.512821	2.717949
## 4267	2002-07-21	2.9264286	25.10495	7.1269048	2.709677	2.333333
## 4268	2002-07-22	4.3409091	24.86748	7.7484848	2.333333	3.000000
## 4269	2002-07-23	2.8297403	25.07446	6.9472186	4.000000	2.000000
## 4270	2002-07-24	1.3185714	25.28143	6.1459524	10.264151	271.272727
## 4271	2002-07-25	0.9245455	25.47370	5.4284091	30.318182	145.636364
## 4272	2002-07-26	0.6887273	25.58082	4.9825455	23.678571	20.000000
## 4273	2002-07-27	2.6348889	24.63164	7.7106667	26.367347	9.688889
## 4274	2002-07-28	2.4567348	24.58419	7.6554432	22.666667	38.250000
## 4275	2002-07-29	2.2785808	24.53674	7.6002197	2.000000	319.034091
## 4276	2002-07-30	2.1004268	24.48929	7.5449962	131.090909	599.818182
## 4277	2002-07-31	1.9222727	24.44184	7.4897727	16.893617	117.333333
## 4278	2002-08-01	2.2304268	24.53953	7.3444407	60.000000	51.000000
## 4279	2002-08-02	2.5385808	24.63721	7.1991086	2.500000	5.250000
## 4280	2002-08-03	2.8467348	24.73489	7.0537765	17.090909	4.181818
## 4281	2002-08-04	3.1548889	24.83258	6.9084444	4.666667	2.755556
## 4282	2002-08-05	3.4744444	24.88767	6.9475556	3.000000	2.250000
## 4283	2002-08-06	3.7940000	24.94276	6.9866667	2.044444	2.088889
## 4284	2002-08-07	3.6784444	24.88093	7.2864444	13.454545	2.000000
## 4285	2002-08-08	3.5628889	24.81910	7.5862222	5.250000	9.000000
## 4286	2002-08-09	3.4473333	24.75727	7.8860000	2.177778	2.000000
## 4287	2002-08-10	3.2681111	24.79429	7.5900000	3.272727	2.545455
## 4288	2002-08-11	3.0888889	24.83131	7.2940000	2.264151	2.301887
## 4289	2002-08-12	3.0360000	24.58617	7.5412222	68.421053	24.421053
## 4290	2002-08-13	2.9831111	24.34102	7.7884444	2.044444	2.044444
## 4291	2002-08-14	1.7346667	23.89716	8.2320000	3.660377	2.339623
## 4292	2002-08-15	1.7407302	23.95421	8.1642857	4.363636	2.363636
## 4293	2002-08-16	1.7467937	24.01127	8.0965714	2.250000	4.250000
## 4294	2002-08-17	1.7528571	24.06833	8.0288571	5.090909	4.909091
## 4295	2002-08-18	1.7589206	24.12538	7.9611429	10.000000	6.500000
## 4296	2002-08-19	1.7649841	24.18244	7.8934286	12.000000	7.636364
## 4297	2002-08-20	1.7710476	24.23950	7.8257143	2.500000	2.250000
## 4298	2002-08-21	1.7771111	24.29656	7.7580000	2.000000	2.044444
## 4299	2002-08-22	1.3108889	24.10958	8.1113333	2.000000	2.000000
## 4300	2002-08-23	1.5529630	24.10519	8.0774815	5.090909	2.909091
## 4301	2002-08-24	1.7950370	24.10081	8.0436296	4.750000	4.000000
## 4302	2002-08-25	2.0371111	24.09642	8.0097778	2.044444	2.044444
## 4303	2002-08-26	1.9235556	23.82732	8.0085253	1239.636364	4129.636364
## 4304	2002-08-27	1.8100000	23.55823	8.0072727	10.000000	5.622642
## 4305	2002-08-28	1.7207111	23.56920	7.9557737	412.000000	2732.000000
## 4306	2002-08-29	1.6314222	23.58017	7.9042747	90.000000	820.000000
## 4307	2002-08-30	1.5421333	23.59114	7.8527758	49.000000	21.333333
## 4308	2002-08-31	1.4528444	23.60212	7.8012768	8.000000	6.526316
## 4309	2002-09-01	1.3635556	23.61309	7.7497778	2.577778	2.222222
## 4310	2002-09-02	1.1500000	24.01612	7.5516667	4.937500	3.375000

## 4311	2002-09-03	1.4235714	24.22383	7.6759524	3.219512	3.268293
## 4312	2002-09-04	1.6946667	24.28544	7.9060000	2.500000	2.000000
## 4313	2002-09-05	1.9900000	24.34961	7.7924242	2.000000	2.000000
## 4314	2002-09-06	1.5670238	24.29417	7.7050216	3.500000	2.750000
## 4315	2002-09-07	1.1440476	24.23874	7.6176190	2.333333	2.556818
## 4316	2002-09-08	0.6745455	24.58180	6.8490909	8.181818	2.363636
## 4317	2002-09-09	0.6441818	24.78618	6.4989091	23.236364	2.181818
## 4318	2002-09-10	0.9671111	23.78071	7.8486667	2.000000	2.000000
## 4319	2002-09-11	1.0184444	23.64644	7.8129630	2.500000	5.500000
## 4320	2002-09-12	1.0697778	23.51216	7.7772593	24.181818	6.545455
## 4321	2002-09-13	1.1211111	23.37789	7.7415556	2.000000	2.000000
## 4322	2002-09-14	1.6301111	23.31258	7.5612222	3.250000	5.750000
## 4323	2002-09-15	2.1391111	23.24727	7.3808889	7.035714	3.857143
## 4324	2002-09-16	1.5104530	23.27122	7.2980085	6.250000	2.500000
## 4325	2002-09-17	0.8817949	23.29518	7.2151282	2.000000	2.000000
## 4326	2002-09-18	0.8956410	23.30845	7.1403077	15.636364	3.090909
## 4327	2002-09-19	0.9094872	23.32171	7.0654872	4.000000	8.000000
## 4328	2002-09-20	0.9233333	23.33498	6.9906667	2.000000	2.000000
## 4329	2002-09-21	0.8737778	23.33643	7.0405556	3.052632	2.315789
## 4330	2002-09-22	0.8242222	23.33789	7.0904444	3.200000	2.000000
## 4331	2002-09-23	1.0493333	23.08723	6.9287778	6.250000	4.000000
## 4332	2002-09-24	1.2744444	22.83658	6.7671111	34.821429	3.214286
## 4333	2002-09-25	1.2240000	23.02837	6.7991111	3.250000	3.000000
## 4334	2002-09-26	1.1735556	23.22016	6.8311111	2.044444	3.155556
## 4335	2002-09-27	1.1920741	23.23003	6.9342222	5.454545	4.363636
## 4336	2002-09-28	1.2105926	23.23990	7.0373333	8.750000	7.000000
## 4337	2002-09-29	1.2291111	23.24978	7.1404444	2.000000	2.000000
## 4338	2002-09-30	1.0567778	23.40334	7.1465556	10.909091	3.272727
## 4339	2002-10-01	0.8844444	23.55691	7.1526667	2.000000	2.266667
## 4340	2002-10-02	0.9717037	23.49443	7.1015556	5.750000	7.500000
## 4341	2002-10-03	1.0589630	23.43195	7.0504444	2844.909091	3173.636364
## 4342	2002-10-04	1.1462222	23.36947	6.9993333	2.000000	3.022222
## 4343	2002-10-05	1.1101481	23.34852	6.9560741	252.833333	52.833333
## 4344	2002-10-06	1.0740741	23.32757	6.9128148	60.000000	28.291667
## 4345	2002-10-07	1.0380000	23.30662	6.8695556	9.035714	3.750000
## 4346	2002-10-08	1.0357222	23.33777	6.7810556	110.750000	340.750000
## 4347	2002-10-09	1.0334444	23.36892	6.6925556	18.666667	2.000000
## 4348	2002-10-10	1.0311667	23.40007	6.6040556	148.315789	4.631579
## 4349	2002-10-11	1.0288889	23.43122	6.5155556	2.800000	2.044444
## 4350	2002-10-12	1.2251111	23.45438	6.4608889	19.811321	5.283019
## 4351	2002-10-13	1.1902910	23.51391	6.6003042	20.363636	2.909091
## 4352	2002-10-14	1.1554709	23.57343	6.7397196	134.000000	10.431818
## 4353	2002-10-15	1.1206508	23.63296	6.8791349	820.000000	17.954545
## 4354	2002-10-16	1.0858307	23.69249	7.0185503	2.000000	25.477273
## 4355	2002-10-17	1.0510106	23.75202	7.1579656	2.750000	33.000000
## 4356	2002-10-18	1.0161905	23.81155	7.2973810	3.000000	22.227273
## 4357	2002-10-19	0.8345725	24.03377	7.0853950	50.909091	11.454545
## 4358	2002-10-20	0.6529545	24.25600	6.8734091	16.454545	9.736993
## 4359	2002-10-21	0.4554545	24.42291	6.6298182	22.145455	8.019440
## 4360	2002-10-22	1.2666667	23.85871	6.8915556	2.981132	6.301887
## 4361	2002-10-23	0.7657143	23.76098	7.1850000	2.733333	2.000000
## 4362	2002-10-24	0.9393484	23.87397	7.1612719	23.454545	12.363636
## 4363	2002-10-25	1.1129825	23.98696	7.1375439	2.047619	2.000000
## 4364	2002-10-26	1.2511111	24.00851	7.2968889	3.500000	5.954545

## 4365	2002-10-27	1.2586667	24.03583	7.2102222	24.727273	59.636364
## 4366	2002-10-28	1.2662222	24.06315	7.1235556	5.777778	12.000000
## 4367	2002-10-29	1.2737778	24.09047	7.0368889	2.133333	2.755556
## 4368	2002-10-30	0.8055556	23.96502	7.3573333	9.750000	3.285714
## 4369	2002-10-31	0.9774074	24.05221	7.3395556	315.333333	60.500000
## 4370	2002-11-01	1.1492593	24.13939	7.3217778	17.000000	16.000000
## 4371	2002-11-02	1.3211111	24.22658	7.3040000	7.200000	23.866667
## 4372	2002-11-03	1.2131111	24.22469	7.3062222	97.368421	12.736842
## 4373	2002-11-04	1.1051111	24.22280	7.3084444	2.044444	2.000000
## 4374	2002-11-05	1.0703704	24.19616	7.2400741	3.000000	2.500000
## 4375	2002-11-06	1.0356296	24.16953	7.1717037	11.818182	2.000000
## 4376	2002-11-07	1.0008889	24.14289	7.1033333	2.444444	2.000000
## 4377	2002-11-08	1.1223333	24.31564	6.9970000	16.500000	7.500000
## 4378	2002-11-09	1.2437778	24.48840	6.8906667	30.392857	15.785714
## 4379	2002-11-10	1.4182222	24.59718	6.9024444	5.666667	3.396226
## 4380	2002-11-11	1.0495556	24.57031	7.1960000	125.964286	50.250000
## 4381	2002-11-12	1.0556905	24.58857	7.1539524	3398.545455	425.125000
## 4382	2002-11-13	1.0618254	24.60683	7.1119048	120.000000	800.000000
## 4383	2002-11-14	1.0679603	24.62509	7.0698571	2.000000	2.000000
## 4384	2002-11-15	1.0740952	24.64336	7.0278095	1021.454545	287.272727
## 4385	2002-11-16	1.0802302	24.66162	6.9857619	20.250000	6.000000
## 4386	2002-11-17	1.0863651	24.67988	6.9437143	34.000000	1611.878788
## 4387	2002-11-18	1.0925000	24.69814	6.9016667	2239.727273	3217.757576
## 4388	2002-11-19	1.1668444	24.69011	6.9681333	4445.454545	4823.636364
## 4389	2002-11-20	1.2411889	24.68207	7.0346000	2900.750000	1390.250000
## 4390	2002-11-21	1.3155333	24.67404	7.1010667	3702.285714	3095.500000
## 4391	2002-11-22	1.3898778	24.66601	7.1675333	70.857143	71.200000
## 4392	2002-11-23	1.4642222	24.65798	7.2340000	6.844444	4.088889
## 4393	2002-11-24	1.7700000	24.66846	7.3594444	21.000000	4.750000
## 4394	2002-11-25	2.0757778	24.67893	7.4848889	11.821429	5.678571
## 4395	2002-11-26	1.9031111	24.70936	7.4611111	40.000000	4.589286
## 4396	2002-11-27	1.7304444	24.73978	7.4373333	3.750000	3.500000
## 4397	2002-11-28	1.5577778	24.77020	7.4135556	9.272727	5.636364
## 4398	2002-11-29	1.3851111	24.80062	7.3897778	134.452830	5.056604
## 4399	2002-11-30	1.0056237	24.96761	6.7456843	24.000000	649.619211
## 4400	2002-12-01	0.6261364	25.13459	6.1015909	664.763636	1294.181818
## 4401	2002-12-02	0.7852381	24.98952	6.5085714	5.280000	2.250000
## 4402	2002-12-03	1.5457778	24.91629	7.3188889	327.166667	323.833333
## 4403	2002-12-04	0.7849091	25.15315	5.9838182	280.206897	4310.000000
## 4404	2002-12-05	1.2986450	25.00235	6.6347662	473.333333	390.000000
## 4405	2002-12-06	1.8123810	24.85155	7.2857143	175.836735	40.571429
## 4406	2002-12-07	2.3960000	24.90607	7.4846667	50.222222	146.333333
## 4407	2002-12-08	2.5787879	24.84388	7.7869697	4.000000	3.555556
## 4408	2002-12-09	1.5683333	24.79433	7.6758333	2.166667	2.083333
## 4409	2002-12-10	1.5274074	24.74870	7.6069259	3.000000	2.250000
## 4410	2002-12-11	1.4864815	24.70307	7.5380185	6.727273	2.545455
## 4411	2002-12-12	1.4455556	24.65744	7.4691111	78.088889	2.844444
## 4412	2002-12-13	1.4465926	24.65966	7.4917037	5.000000	10.250000
## 4413	2002-12-14	1.4476296	24.66187	7.5142963	2.000000	9.910714
## 4414	2002-12-15	1.4486667	24.66409	7.5368889	6.321429	9.571429
## 4415	2002-12-16	1.3887778	24.61940	7.6091111	2.000000	5.750000
## 4416	2002-12-17	1.3288889	24.57471	7.6813333	2.000000	2.222222
## 4417	2002-12-18	1.2712963	24.59386	7.5710741	81.818182	42.000000
## 4418	2002-12-19	1.2137037	24.61301	7.4608148	2.750000	2.250000

## 4419	2002-12-20	1.1561111	24.63217	7.3505556	2.444444	3.222222
## 4420	2002-12-21	1.1959444	24.68507	7.1362778	122.000000	46.727273
## 4421	2002-12-22	1.2357778	24.73798	6.9220000	56.703704	8.905660
## 4422	2002-12-23	1.3285299	24.80909	6.7076667	68.800000	6.657958
## 4423	2002-12-24	1.4212821	24.88021	6.4933333	18.820513	4.410256
## 4424	2002-12-25	1.9813504	24.86768	6.7233333	130.181818	263.272727
## 4425	2002-12-26	2.5414188	24.85515	6.9533333	2.727273	2.000000
## 4426	2002-12-27	3.1014872	24.84262	7.1833333	24.000000	8.000000
## 4427	2002-12-28	3.6615556	24.83009	7.4133333	2.177778	2.000000
## 4428	2002-12-29	3.2084444	24.81458	7.4536111	12.210526	6.105263
## 4429	2002-12-30	2.7553333	24.79908	7.4938889	4.750000	21.750000
## 4430	2002-12-31	2.3022222	24.78357	7.5341667	29.818182	22.363636
## 4431	2003-01-01	1.8491111	24.76807	7.5744444	2.000000	2.044444
## 4432	2003-01-02	1.7442222	24.82437	7.0268889	64.250000	2.500000
## 4433	2003-01-03	1.6393333	24.88067	6.4793333	2.622222	2.088889
## 4434	2003-01-04	2.9730000	24.88229	6.7853333	19.166667	9.090909
## 4435	2003-01-05	4.3066667	24.88391	7.0913333	3.200000	2.355556
## 4436	2003-01-06	3.4687407	24.69864	7.3354074	5.500000	3.000000
## 4437	2003-01-07	2.6308148	24.51338	7.5794815	8.727273	12.909091
## 4438	2003-01-08	1.7928889	24.32811	7.8235556	3.955556	6.800000
## 4439	2003-01-09	2.2538889	24.51063	7.5737778	4.250000	5.000000
## 4440	2003-01-10	2.7148889	24.69316	7.3240000	2.500000	2.357143
## 4441	2003-01-11	2.4218333	24.67341	7.2389444	2.250000	2.000000
## 4442	2003-01-12	2.1287778	24.65366	7.1538889	132.909091	13.090909
## 4443	2003-01-13	1.8357222	24.63391	7.0688333	9.750000	5.250000
## 4444	2003-01-14	1.5426667	24.61416	6.9837778	2.000000	2.000000
## 4445	2003-01-15	0.3436364	25.40293	5.6454545	44.509091	2.263158
## 4446	2003-01-16	1.7266667	24.98540	6.2392857	22.524590	2.526316
## 4447	2003-01-17	0.8959091	25.28223	5.5461364	61.272727	2.263158
## 4448	2003-01-18	2.2493333	24.57382	6.9768889	2.044444	2.000000
## 4449	2003-01-19	2.1426190	24.83586	6.9333333	4.947368	2.000000
## 4450	2003-01-20	2.7246667	24.67511	7.0808889	494.680851	531.829787
## 4451	2003-01-21	2.7787879	24.82545	6.2551515	2.111111	2.000000
## 4452	2003-01-22	1.9387500	24.95829	6.0287500	329.333333	261.481481
## 4453	2003-01-23	1.8883519	24.82536	6.4751667	1800.000000	6400.000000
## 4454	2003-01-24	1.8379537	24.69242	6.9215833	9.555556	2.444444
## 4455	2003-01-25	1.7875556	24.55949	7.3680000	2.088889	2.044444
## 4456	2003-01-26	1.6220000	24.56328	7.1191111	58.727273	7.454545
## 4457	2003-01-27	1.4564444	24.56707	6.8702222	2.000000	2.044444
## 4458	2003-01-28	2.9248889	24.73346	6.6350000	65.454545	16.363636
## 4459	2003-01-29	4.3933333	24.89984	6.3997778	4.035714	3.321429
## 4460	2003-01-30	4.8224444	24.89660	6.7248889	9.911111	8.711111
## 4461	2003-01-31	4.2264444	24.57930	6.9085556	18.000000	7.636364
## 4462	2003-02-01	3.6304444	24.26200	7.0922222	2.000000	2.133333
## 4463	2003-02-02	2.6297778	24.94673	5.6117778	2.037736	2.113208
## 4464	2003-02-03	3.6621111	24.66159	6.3738889	25.818182	10.909091
## 4465	2003-02-04	4.6944444	24.37644	7.1360000	6.844444	3.288889
## 4466	2003-02-05	2.6122222	24.07111	6.9680000	2.150943	3.132075
## 4467	2003-02-06	2.7248889	24.10972	6.9960000	5.272727	10.363636
## 4468	2003-02-07	2.8375556	24.14833	7.0240000	3.750000	4.250000
## 4469	2003-02-08	2.9502222	24.18694	7.0520000	366.181818	220.181818
## 4470	2003-02-09	3.0628889	24.22556	7.0800000	2.000000	2.000000
## 4471	2003-02-10	2.9792889	24.16322	7.0560889	2.000000	2.500000
## 4472	2003-02-11	2.8956889	24.10088	7.0321778	2.000000	2.181818

## 4473	2003-02-12	2.8120889	24.03854	7.0082667	2.000000	2.000000
## 4474	2003-02-13	2.7284889	23.97620	6.9843556	2.000000	2.250000
## 4475	2003-02-14	2.6448889	23.91387	6.9604444	13.035714	2.535714
## 4476	2003-02-15	2.7956296	23.87078	7.0988889	3.250000	109.000000
## 4477	2003-02-16	2.9463704	23.82769	7.2373333	2.625000	2.000000
## 4478	2003-02-17	3.0971111	23.78460	7.3757778	2.000000	2.000000
## 4479	2003-02-18	3.0794815	23.75198	7.7113333	2.181818	3.636364
## 4480	2003-02-19	3.0618519	23.71936	8.0468889	2.500000	2.000000
## 4481	2003-02-20	3.0442222	23.68673	8.3824444	5.777778	2.133333
## 4482	2003-02-21	1.6866667	23.54029	8.5787500	2.333333	2.000000
## 4483	2003-02-22	2.0738095	23.98269	7.8776190	27.959184	13.673469
## 4484	2003-02-23	2.1942424	23.90261	7.3863636	2.000000	2.000000
## 4485	2003-02-24	2.3331111	23.85518	7.3702222	2.222222	2.000000
## 4486	2003-02-25	1.4569048	24.32264	6.9742857	4.400000	5.500000
## 4487	2003-02-26	0.8550000	24.63325	6.5993182	9.418182	5.272727
## 4488	2003-02-27	0.4721818	24.92951	5.9383636	31.927273	3.636364
## 4489	2003-02-28	2.3771111	23.53267	6.9217778	2.000000	2.000000
## 4490	2003-03-01	2.3771111	23.67355	7.0184444	4.000000	2.000000
## 4491	2003-03-02	2.3771111	23.81443	7.1151111	297.090909	9.818182
## 4492	2003-03-03	2.3771111	23.95531	7.2117778	3.000000	4.250000
## 4493	2003-03-04	2.3771111	24.09619	7.3084444	4.181818	6.181818
## 4494	2003-03-05	2.3771111	24.23707	7.4051111	2.000000	2.000000
## 4495	2003-03-06	2.7262222	24.22057	7.2906667	2.000000	6.750000
## 4496	2003-03-07	3.0753333	24.20407	7.1762222	2.000000	2.088889
## 4497	2003-03-08	1.6462222	24.20191	6.9620000	3.571429	3.214286
## 4498	2003-03-09	2.8060000	24.11702	6.8535556	2.113208	3.886792
## 4499	2003-03-10	2.4515556	24.09124	7.1755556	3.892857	2.428571
## 4500	2003-03-11	2.8667407	24.22002	7.1702222	2.250000	2.000000
## 4501	2003-03-12	3.2819259	24.34880	7.1648889	3.473684	3.473684
## 4502	2003-03-13	3.6971111	24.47758	7.1595556	2.000000	2.133333
## 4503	2003-03-14	2.7906667	24.41147	7.4126667	5.132075	7.433962
## 4504	2003-03-15	2.7013333	24.32728	7.5788889	1108.727273	538.909091
## 4505	2003-03-16	2.6120000	24.24309	7.7451111	2.075472	2.301887
## 4506	2003-03-17	2.5961778	24.24357	7.7482667	43.272727	14.363636
## 4507	2003-03-18	2.5803556	24.24406	7.7514222	17.500000	5.000000
## 4508	2003-03-19	2.5645333	24.24454	7.7545778	73.636364	22.727273
## 4509	2003-03-20	2.5487111	24.24503	7.7577333	4.000000	5.500000
## 4510	2003-03-21	2.5328889	24.24551	7.7608889	2.000000	2.177778
## 4511	2003-03-22	2.4700741	24.33770	7.5620000	46.545455	12.181818
## 4512	2003-03-23	2.4072593	24.42990	7.3631111	2.000000	2.500000
## 4513	2003-03-24	2.3444444	24.52209	7.1642222	2.088889	3.333333
## 4514	2003-03-25	2.5759259	24.54048	7.2535556	101.272727	43.090909
## 4515	2003-03-26	2.8074074	24.55887	7.3428889	7.750000	4.000000
## 4516	2003-03-27	3.0388889	24.57727	7.4322222	2.000000	2.044444
## 4517	2003-03-28	2.9642222	24.44844	7.7038889	13.894737	8.210526
## 4518	2003-03-29	2.8895556	24.31962	7.9755556	2.000000	2.088889
## 4519	2003-03-30	1.8702222	24.44796	7.2266667	2.679245	2.981132
## 4520	2003-03-31	2.3820000	24.57880	7.4880000	7.191489	5.276596
## 4521	2003-04-01	2.1097619	24.64507	7.4711905	2.000000	2.000000
## 4522	2003-04-02	2.5593939	24.63906	7.4842424	2.000000	2.000000
## 4523	2003-04-03	1.9650000	24.65042	7.2504167	2.583333	2.500000
## 4524	2003-04-04	1.3649545	24.92730	6.6158447	3.500000	2.750000
## 4525	2003-04-05	0.7649091	25.20418	5.9812727	25.054545	7.284091
## 4526	2003-04-06	1.0747619	24.80788	7.0919048	5.320755	11.818182

## 4527	2003-04-07	0.9381818	24.98482	6.6388636	4.500000	6.953535
## 4528	2003-04-08	2.1808889	24.40129	7.8684444	2.044444	2.088889
## 4529	2003-04-09	2.3640741	24.37799	7.9884444	17.750000	4.250000
## 4530	2003-04-10	2.5472593	24.35468	8.1084444	38.909091	13.818182
## 4531	2003-04-11	2.7304444	24.33138	8.2284444	2.355556	2.711111
## 4532	2003-04-12	2.4452222	24.41360	7.8056667	2.250000	3.750000
## 4533	2003-04-13	2.1600000	24.49582	7.3828889	2.000000	2.133333
## 4534	2003-04-14	2.2706222	24.51659	7.3464000	1434.363636	1577.272727
## 4535	2003-04-15	2.3812444	24.53735	7.3099111	2213.333333	6090.000000
## 4536	2003-04-16	2.4918667	24.55812	7.2734222	4.750000	6.500000
## 4537	2003-04-17	2.6024889	24.57888	7.2369333	70.000000	300.000000
## 4538	2003-04-18	2.7131111	24.59964	7.2004444	5.142857	4.178571
## 4539	2003-04-19	2.7524444	24.64959	7.0871111	4.500000	3.500000
## 4540	2003-04-20	2.7917778	24.69953	6.9737778	10.977778	49.600000
## 4541	2003-04-21	2.0633333	24.76862	7.1266667	2.577778	4.755556
## 4542	2003-04-22	1.9185333	24.75508	7.1174222	50.736842	155.684211
## 4543	2003-04-23	1.7737333	24.74154	7.1081778	30.000000	300.000000
## 4544	2003-04-24	1.6289333	24.72800	7.0989333	19.375000	24.000000
## 4545	2003-04-25	1.4841333	24.71445	7.0896889	8.750000	66.500000
## 4546	2003-04-26	1.3393333	24.70091	7.0804444	2.714286	3.214286
## 4547	2003-04-27	1.4532222	24.69931	7.2248889	7.357143	22.000000
## 4548	2003-04-28	1.5671111	24.69771	7.3693333	12.000000	17.733333
## 4549	2003-04-29	1.4450000	24.74250	7.4760000	4.250000	6.500000
## 4550	2003-04-30	1.3228889	24.78729	7.5826667	11.107143	25.321429
## 4551	2003-05-01	1.3123778	24.76825	7.5714889	12000.000000	12000.000000
## 4552	2003-05-02	1.3018667	24.74920	7.5603111	409.777778	122.666667
## 4553	2003-05-03	1.2913556	24.73016	7.5491333	3022.000000	8400.000000
## 4554	2003-05-04	1.2808444	24.71112	7.5379556	536.727273	418.909091
## 4555	2003-05-05	1.2703333	24.69208	7.5267778	68.000000	140.000000
## 4556	2003-05-06	1.2598222	24.67304	7.5156000	320.888889	11.250000
## 4557	2003-05-07	1.2493111	24.65399	7.5044222	600.000000	33.806818
## 4558	2003-05-08	1.2388000	24.63495	7.4932444	110.545455	56.363636
## 4559	2003-05-09	1.2282889	24.61591	7.4820667	1041.166667	6.250000
## 4560	2003-05-10	1.2177778	24.59687	7.4708889	364.255319	127.688889
## 4561	2003-05-11	1.3077333	24.59884	7.4902667	6020.000000	650.753535
## 4562	2003-05-12	1.3976889	24.60082	7.5096444	1141.454545	1173.818182
## 4563	2003-05-13	1.4876444	24.60280	7.5290222	48.250000	21.500000
## 4564	2003-05-14	1.5776000	24.60478	7.5484000	574.000000	1300.000000
## 4565	2003-05-15	1.6675556	24.60676	7.5677778	477.125000	164.808511
## 4566	2003-05-16	1.6378889	24.62288	7.4588889	511.000000	2100.000000
## 4567	2003-05-17	1.6082222	24.63900	7.3500000	56.656250	57.031250
## 4568	2003-05-18	1.4888889	24.63399	7.4045778	1650.000000	1200.000000
## 4569	2003-05-19	1.3695556	24.62897	7.4591556	12000.000000	2400.000000
## 4570	2003-05-20	1.2502222	24.62396	7.5137333	492.500000	152.500000
## 4571	2003-05-21	1.1308889	24.61895	7.5683111	4019.454545	2717.454545
## 4572	2003-05-22	1.0115556	24.61393	7.6228889	308.595745	285.869565
## 4573	2003-05-23	1.0380741	24.69418	7.3057778	1666.000000	2939.500000
## 4574	2003-05-24	1.0645926	24.77442	6.9886667	6280.000000	3355.000000
## 4575	2003-05-25	1.0911111	24.85467	6.6715556	311.890909	265.740741
## 4576	2003-05-26	1.4012698	24.89150	6.8132778	181.818182	176.181818
## 4577	2003-05-27	1.7114286	24.92833	6.9550000	6.952381	1148.090909
## 4578	2003-05-28	0.5645455	25.19868	6.1727273	229.125000	2120.000000
## 4579	2003-05-29	0.5967273	25.38320	5.7183636	14.290909	1256.821429
## 4580	2003-05-30	2.9313333	24.69311	7.9160000	494.561404	393.642857

## 4581	2003-05-31	1.2487500	24.76075	7.3916667	890.814815	925.000000
## 4582	2003-06-01	1.2997619	24.77062	7.5857143	349.317073	332.682927
## 4583	2003-06-02	1.5424444	24.70384	7.7253333	48.944444	42.888889
## 4584	2003-06-03	1.7681818	24.74655	7.5609091	512.166667	573.523810
## 4585	2003-06-04	1.8125657	24.75885	7.4850505	75.000000	53.111111
## 4586	2003-06-05	1.8569495	24.77114	7.4091919	38.000000	2.000000
## 4587	2003-06-06	1.9013333	24.78344	7.3333333	197.535714	28.500000
## 4588	2003-06-07	1.7988254	24.80560	7.2356190	268.444444	2.250000
## 4589	2003-06-08	1.6963175	24.82776	7.1379048	12000.000000	375.136364
## 4590	2003-06-09	1.5938095	24.84992	7.0401905	800.000000	748.022727
## 4591	2003-06-10	1.4913016	24.87208	6.9424762	1181.636364	1120.909091
## 4592	2003-06-11	1.3887937	24.89424	6.8447619	6.000000	4.500000
## 4593	2003-06-12	1.2862857	24.91640	6.7470476	323.000000	3000.000000
## 4594	2003-06-13	1.1837778	24.93856	6.6493333	26.800000	52.533333
## 4595	2003-06-14	1.1802222	24.89983	6.6598148	5600.000000	9800.000000
## 4596	2003-06-15	1.1766667	24.86110	6.6702963	12000.000000	12000.000000
## 4597	2003-06-16	1.1731111	24.82238	6.6807778	5684.842105	2617.263158
## 4598	2003-06-17	1.1695556	24.78365	6.6912593	557.714286	165.000000
## 4599	2003-06-18	1.1660000	24.74493	6.7017407	283.000000	89.428571
## 4600	2003-06-19	1.1624444	24.70620	6.7122222	118.192308	41.955556
## 4601	2003-06-20	1.3968000	24.74121	6.6269778	4063.333333	27.102778
## 4602	2003-06-21	1.6311556	24.77622	6.5417333	27.500000	12.250000
## 4603	2003-06-22	1.8655111	24.81123	6.4564889	300.727273	38.181818
## 4604	2003-06-23	2.0998667	24.84624	6.3712444	32.000000	22.246465
## 4605	2003-06-24	2.3342222	24.88124	6.2860000	41.040000	6.311111
## 4606	2003-06-25	2.3630556	24.82734	6.5733333	406.666667	5.280556
## 4607	2003-06-26	2.3918889	24.77344	6.8606667	15.400000	4.250000
## 4608	2003-06-27	2.4207222	24.71954	7.1480000	24.363636	12.727273
## 4609	2003-06-28	2.4495556	24.66564	7.4353333	5.509434	3.849057
## 4610	2003-06-29	3.6317778	24.53326	7.7273333	1019.272727	1097.636364
## 4611	2003-06-30	4.8140000	24.40087	8.0193333	5.555556	8.133333
## 4612	2003-07-01	4.3594074	24.53741	7.4396296	140.000000	20.000000
## 4613	2003-07-02	3.9048148	24.67396	6.8599259	12.222222	13.750000
## 4614	2003-07-03	3.4502222	24.81051	6.2802222	8.088889	7.288889
## 4615	2003-07-04	3.6505333	24.82143	6.3209333	161.090909	63.272727
## 4616	2003-07-05	3.8508444	24.83235	6.3616444	8.750000	2.250000
## 4617	2003-07-06	4.0511556	24.84327	6.4023556	1191.818182	1285.636364
## 4618	2003-07-07	4.2514667	24.85419	6.4430667	9.750000	2.500000
## 4619	2003-07-08	4.4517778	24.86511	6.4837778	20.638298	99.086957
## 4620	2003-07-09	3.2545556	25.04343	5.9446667	6.000000	12.000000
## 4621	2003-07-10	2.0573333	25.22176	5.4055556	4.133333	3.866667
## 4622	2003-07-11	2.1643333	25.22410	5.4373333	129.368421	14.421053
## 4623	2003-07-12	2.2713333	25.22644	5.4691111	3.911111	2.311111
## 4624	2003-07-13	2.3602222	25.18002	5.5660000	2.000000	2.000000
## 4625	2003-07-14	2.4491111	25.13360	5.6628889	42.363636	11.818182
## 4626	2003-07-15	2.5380000	25.08718	5.7597778	8.888889	29.733333
## 4627	2003-07-16	4.4975556	25.04076	6.2325926	2.000000	2.250000
## 4628	2003-07-17	6.4571111	24.99433	6.7054074	11.818182	7.090909
## 4629	2003-07-18	8.4166667	24.94791	7.1782222	5.111111	2.888889
## 4630	2003-07-19	5.5731250	24.99512	7.0372997	6.750000	2.750000
## 4631	2003-07-20	2.7295833	25.04233	6.8963771	2.083333	2.000000
## 4632	2003-07-21	3.2160606	25.03176	6.7554545	11.655172	5.586207
## 4633	2003-07-22	3.7595556	24.86791	7.6868889	2.055556	2.222222
## 4634	2003-07-23	4.0659524	24.96664	6.9007143	5.666667	3.333333

## 4635	2003-07-24	3.6835238	24.87490	6.9588466	4.000000	3.000000
## 4636	2003-07-25	3.3010952	24.78316	7.0169788	224.181818	1333.272727
## 4637	2003-07-26	2.9186667	24.69142	7.0751111	9.620690	6.068966
## 4638	2003-07-27	2.8039444	24.74947	6.7267778	18.545455	38.727273
## 4639	2003-07-28	2.6892222	24.80752	6.3784444	2.000000	2.250000
## 4640	2003-07-29	2.5745000	24.86557	6.0301111	6.000000	2.125000
## 4641	2003-07-30	2.4597778	24.92362	5.6817778	2.355556	2.000000
## 4642	2003-07-31	2.6070480	25.57045	4.6334545	22.690909	2.368421
## 4643	2003-08-01	2.7543182	25.50902	4.9738636	24.222222	2.736842
## 4644	2003-08-02	2.1859524	25.39529	5.3061905	5.571429	2.435088
## 4645	2003-08-03	5.9104444	25.28853	5.2826667	2.888889	2.133333
## 4646	2003-08-04	4.3270000	25.18329	5.3587778	8.857143	3.142857
## 4647	2003-08-05	2.7435556	25.07804	5.4348889	13.859649	8.631579
## 4648	2003-08-06	3.1928889	24.87618	5.9635556	2.488889	2.222222
## 4649	2003-08-07	3.2738519	24.74524	6.4746667	2.250000	2.500000
## 4650	2003-08-08	3.3548148	24.61431	6.9857778	15.454545	18.363636
## 4651	2003-08-09	3.4357778	24.48338	7.4968889	2.355556	2.533333
## 4652	2003-08-10	3.7855556	24.60544	6.9160000	3.000000	5.750000
## 4653	2003-08-11	4.1353333	24.72751	6.3351111	3.357143	3.821429
## 4654	2003-08-12	4.2975556	24.66422	5.9954444	2.000000	2.500000
## 4655	2003-08-13	4.4597778	24.60093	5.6557778	2.266667	2.000000
## 4656	2003-08-14	5.1744000	24.64037	6.0724444	9.272727	6.181818
## 4657	2003-08-15	5.8890222	24.67981	6.4891111	9.500000	6.750000
## 4658	2003-08-16	6.6036444	24.71925	6.9057778	146.545455	65.818182
## 4659	2003-08-17	7.3182667	24.75869	7.3224444	18.750000	4.250000
## 4660	2003-08-18	8.0328889	24.79813	7.7391111	2.000000	2.044444
## 4661	2003-08-19	7.2580000	24.73202	7.7267407	6.000000	9.500000
## 4662	2003-08-20	6.4831111	24.66591	7.7143704	12.545455	3.454545
## 4663	2003-08-21	5.7082222	24.59980	7.7020000	2.044444	2.000000
## 4664	2003-08-22	5.2460741	24.41533	8.1580741	2.000000	4.500000
## 4665	2003-08-23	4.7839259	24.23087	8.6141481	2.909091	2.000000
## 4666	2003-08-24	4.3217778	24.04640	9.0702222	2.044444	2.000000
## 4667	2003-08-25	3.5722222	23.82174	8.8311111	4.250000	4.250000
## 4668	2003-08-26	2.8226667	23.59709	8.5920000	2.035714	2.392857
## 4669	2003-08-27	2.2446667	23.83617	8.0007778	4.500000	6.750000
## 4670	2003-08-28	1.6666667	24.07524	7.4095556	99.785714	54.928571
## 4671	2003-08-29	1.7446667	24.09466	7.3631111	3.500000	3.000000
## 4672	2003-08-30	1.8226667	24.11407	7.3166667	2.000000	2.000000
## 4673	2003-08-31	1.7554762	24.51007	7.7511905	12.195122	7.073171
## 4674	2003-09-01	2.5071111	24.52460	7.7122222	2.055556	2.388889
## 4675	2003-09-02	3.3209091	24.52876	7.7472727	2.000000	2.461538
## 4676	2003-09-03	2.4108333	24.17679	7.7962500	2.000000	2.000000
## 4677	2003-09-04	2.0352381	24.48538	7.1180952	2.190476	4.090909
## 4678	2003-09-05	1.0765909	24.92532	5.9304545	12.181818	6.181818
## 4679	2003-09-06	0.8505455	25.11569	5.5876364	40.603175	2.500000
## 4680	2003-09-07	1.8980000	24.57900	7.2797778	2.044444	2.177778
## 4681	2003-09-08	1.6478889	24.42886	7.5094444	151.894737	18.315789
## 4682	2003-09-09	1.3977778	24.27871	7.7391111	2.044444	2.000000
## 4683	2003-09-10	1.4497778	24.31335	7.6252593	10.750000	8.000000
## 4684	2003-09-11	1.5017778	24.34799	7.5114074	6.545455	5.636364
## 4685	2003-09-12	1.5537778	24.38262	7.3975556	2.000000	2.444444
## 4686	2003-09-13	1.4836667	24.46354	7.4977778	280.000000	3.500000
## 4687	2003-09-14	1.4135556	24.54447	7.5980000	2.000000	2.177778
## 4688	2003-09-15	1.5810000	24.32067	7.7400556	6.000000	3.636364

##	4689	2003-09-16	1.7484444	24.09687	7.8821111	1504.750000	25.750000
##	4690	2003-09-17	1.9158889	23.87307	8.0241667	2.000000	14.232143
##	4691	2003-09-18	2.0833333	23.64927	8.1662222	12.714286	2.714286
##	4692	2003-09-19	1.8765185	23.93290	7.8905185	2.000000	2.482143
##	4693	2003-09-20	1.6697037	24.21654	7.6148148	2.000000	2.250000
##	4694	2003-09-21	1.4628889	24.50018	7.3391111	2.000000	2.000000
##	4695	2003-09-22	1.6421481	24.46122	7.4259259	2.727273	3.636364
##	4696	2003-09-23	1.8214074	24.42227	7.5127407	2.500000	27.250000
##	4697	2003-09-24	2.0006667	24.38331	7.5995556	2.000000	2.000000
##	4698	2003-09-25	1.9560000	24.24331	7.7390000	45.636364	9.636364
##	4699	2003-09-26	1.9113333	24.10331	7.8784444	3.584906	2.716981
##	4700	2003-09-27	1.7591111	24.13951	7.8947778	4.842105	3.052632
##	4701	2003-09-28	1.6068889	24.17571	7.9111111	2.044444	2.222222
##	4702	2003-09-29	1.3146667	23.81204	7.8646667	3.466667	2.000000
##	4703	2003-09-30	1.4526667	23.81802	7.7974444	45.636364	5.454545
##	4704	2003-10-01	1.5906667	23.82400	7.7302222	32.750000	18.000000
##	4705	2003-10-02	1.7286667	23.82998	7.6630000	54.000000	10.035714
##	4706	2003-10-03	1.8666667	23.83596	7.5957778	3.500000	2.071429
##	4707	2003-10-04	1.6008889	23.98318	7.5647778	9.250000	5.250000
##	4708	2003-10-05	1.3351111	24.13040	7.5337778	9.000000	3.857143
##	4709	2003-10-06	1.4247556	24.17758	7.5764444	13.000000	5.000000
##	4710	2003-10-07	1.5144000	24.22476	7.6191111	2.000000	3.590909
##	4711	2003-10-08	1.6040444	24.27193	7.6617778	2.181818	2.181818
##	4712	2003-10-09	1.6936889	24.31911	7.7044444	2.250000	4.250000
##	4713	2003-10-10	1.7833333	24.36629	7.7471111	129.288889	42.311111
##	4714	2003-10-11	1.5760000	24.05676	7.7200000	2.044444	2.000000
##	4715	2003-10-12	1.4415897	24.29265	7.4779487	46.000000	8.545455
##	4716	2003-10-13	1.3071795	24.52854	7.2358974	4.170213	3.500000
##	4717	2003-10-14	0.9702273	24.70700	6.8959091	4.727273	3.066667
##	4718	2003-10-15	0.7432759	24.83653	6.5337931	19.862069	2.633333
##	4719	2003-10-16	1.3138095	24.55900	7.4395238	2.066667	2.200000
##	4720	2003-10-17	1.4888889	24.62171	7.2180000	3.106383	2.765957
##	4721	2003-10-18	1.4818182	24.63142	6.9563636	5.384615	5.769231
##	4722	2003-10-19	1.3075000	24.52767	6.9491667	2.250000	2.000000
##	4723	2003-10-20	1.2833333	24.77367	6.8602222	3.178571	3.750000
##	4724	2003-10-21	1.2651111	24.82310	7.0015556	16.250000	10.250000
##	4725	2003-10-22	1.2468889	24.87253	7.1428889	2.452830	2.905660
##	4726	2003-10-23	1.3058519	24.76406	7.4132593	3.818182	2.181818
##	4727	2003-10-24	1.3648148	24.65559	7.6836296	476.363636	366.000000
##	4728	2003-10-25	1.4237778	24.54711	7.9540000	2.867925	2.226415
##	4729	2003-10-26	1.6071111	24.60364	7.6797778	23.833333	15.708333
##	4730	2003-10-27	1.4342667	24.59196	7.7157333	2.500000	2.000000
##	4731	2003-10-28	1.2614222	24.58028	7.7516889	2.250000	2.250000
##	4732	2003-10-29	1.0885778	24.56860	7.7876444	3.272727	3.636364
##	4733	2003-10-30	0.9157333	24.55692	7.8236000	2.250000	2.000000
##	4734	2003-10-31	0.7428889	24.54524	7.8595556	2.266667	2.000000
##	4735	2003-11-01	0.7929630	24.56761	7.8396296	9.636364	3.090909
##	4736	2003-11-02	0.8430370	24.58999	7.8197037	8.250000	8.750000
##	4737	2003-11-03	0.8931111	24.61236	7.7997778	2.044444	2.266667
##	4738	2003-11-04	1.2524444	24.73227	7.9464444	4.857143	2.428571
##	4739	2003-11-05	1.5431111	24.69293	7.8880000	4.250000	2.000000
##	4740	2003-11-06	1.8337778	24.65360	7.8295556	9.818182	3.818182
##	4741	2003-11-07	2.1244444	24.61427	7.7711111	15.471698	4.188679
##	4742	2003-11-08	1.8224444	24.59714	7.6650000	2.000000	979.457976

## 4743	2003-11-09	1.5204444	24.58002	7.5588889	5171.272727	1954.727273
## 4744	2003-11-10	1.2184444	24.56290	7.4527778	1720.750000	1676.250000
## 4745	2003-11-11	0.9164444	24.54578	7.3466667	876.230769	601.120000
## 4746	2003-11-12	1.1012593	24.57369	7.4217037	1612.500000	519.600000
## 4747	2003-11-13	1.2860741	24.60160	7.4967407	56.000000	71.000000
## 4748	2003-11-14	1.4708889	24.62951	7.5717778	23.285714	15.357143
## 4749	2003-11-15	1.3435556	24.69579	7.5240000	19.250000	4.250000
## 4750	2003-11-16	1.2162222	24.76207	7.4762222	10.000000	3.147222
## 4751	2003-11-17	1.0888889	24.82836	7.4284444	2.177778	2.044444
## 4752	2003-11-18	1.1540741	24.86736	7.4336296	42.909091	28.363636
## 4753	2003-11-19	1.2192593	24.90637	7.4388148	6.500000	3.750000
## 4754	2003-11-20	1.2844444	24.94538	7.4440000	2.000000	2.088889
## 4755	2003-11-21	1.2765556	24.88888	7.6808333	62.909091	45.090909
## 4756	2003-11-22	1.2686667	24.83238	7.9176667	42.500000	232.750000
## 4757	2003-11-23	1.2607778	24.77588	8.1545000	10.000000	24.000000
## 4758	2003-11-24	1.2528889	24.71938	8.3913333	2.000000	2.000000
## 4759	2003-11-25	1.7415152	24.79397	7.9554545	3.687500	2.437500
## 4760	2003-11-26	1.6900000	24.79119	8.0622222	2.843750	2.218750
## 4761	2003-11-27	1.3026667	24.79113	7.9776667	2.000000	2.000000
## 4762	2003-11-28	0.8797619	24.80657	7.5028571	9.735849	8.909091
## 4763	2003-11-29	0.5275000	24.99375	6.9413636	15.667925	9.198653
## 4764	2003-11-30	0.4636364	25.09036	6.5110909	21.600000	9.488215
## 4765	2003-12-01	1.3384444	24.62071	7.9768889	4.177778	9.777778
## 4766	2003-12-02	1.0197561	24.84659	7.3834146	5.500000	3.607143
## 4767	2003-12-03	1.0055556	25.04660	7.5348889	2.044444	2.000000
## 4768	2003-12-04	0.9751111	25.08041	7.3243704	1134.181818	1099.090909
## 4769	2003-12-05	0.9446667	25.11421	7.1138519	64.000000	550.745455
## 4770	2003-12-06	0.9142222	25.14802	6.9033333	2.044444	2.400000
## 4771	2003-12-07	2.5534444	24.97997	7.9067778	11.454545	20.545455
## 4772	2003-12-08	4.1926667	24.81191	8.9102222	5.377778	23.022222
## 4773	2003-12-09	3.2919259	24.95524	8.0945185	1093.454545	1157.454545
## 4774	2003-12-10	2.3911852	25.09858	7.2788148	44.000000	60.000000
## 4775	2003-12-11	1.4904444	25.24191	6.4631111	2.000000	2.444444
## 4776	2003-12-12	1.8754444	25.29944	6.5603333	132.000000	328.000000
## 4777	2003-12-13	2.2604444	25.35698	6.6575556	2.000000	2.000000
## 4778	2003-12-14	3.9895556	25.24622	7.6451111	42.727273	7.272727
## 4779	2003-12-15	5.7186667	25.13547	8.6326667	21.911111	36.311111
## 4780	2003-12-16	3.3664444	25.15598	7.5976667	6.727273	28.909091
## 4781	2003-12-17	1.0142222	25.17649	6.5626667	2.044444	2.933333
## 4782	2003-12-18	1.0673333	25.28788	6.2847778	9.090909	7.454545
## 4783	2003-12-19	1.1204444	25.39927	6.0068889	3.422222	3.422222
## 4784	2003-12-20	2.9770000	25.35022	6.9331111	12.727273	18.545455
## 4785	2003-12-21	4.8335556	25.30118	7.8593333	2.222222	2.222222
## 4786	2003-12-22	3.5547778	25.23832	7.7053333	3.090909	2.181818
## 4787	2003-12-23	2.2760000	25.17547	7.5513333	2.000000	2.000000
## 4788	2003-12-24	0.8666667	25.55133	5.5802381	3.520000	2.000000
## 4789	2003-12-25	0.3829091	25.80329	4.7616364	23.360000	2.000000
## 4790	2003-12-26	0.3681818	25.67586	5.1015909	43.200000	2.000000
## 4791	2003-12-27	1.1677778	25.32282	6.5817778	2.000000	2.000000
## 4792	2003-12-28	1.8463333	25.06258	7.7984444	9.454545	5.636364
## 4793	2003-12-29	2.5248889	24.80233	9.0151111	2.000000	2.000000
## 4794	2003-12-30	10.8154545	25.22885	7.9990909	2.187500	2.187500
## 4795	2003-12-31	9.1694444	25.30500	6.7152778	2.000000	2.000000
## 4796	2004-01-01	6.7723333	25.19227	7.6826667	2.000000	2.000000

## 4797	2004-01-02	3.2975556	24.82371	8.2357778	3.200000	2.444444
## 4798	2004-01-03	3.9260000	24.99691	7.2713333	2.909091	2.909091
## 4799	2004-01-04	4.5544444	25.17011	6.3068889	44.892857	30.750000
## 4800	2004-01-05	3.3242222	24.79240	8.0413333	2.444444	2.000000
## 4801	2004-01-06	7.8933333	24.60251	8.7548889	33.088889	3.090909
## 4802	2004-01-07	12.4624444	24.41262	9.4684444	63.733333	6.933333
## 4803	2004-01-08	9.5277778	24.36428	9.1315556	140.181818	22.000000
## 4804	2004-01-09	6.5931111	24.31594	8.7946667	3.000000	12.000000
## 4805	2004-01-10	3.6584444	24.26760	8.4577778	2.000000	2.000000
## 4806	2004-01-11	2.8432222	24.28716	8.2510000	21.636364	2.909091
## 4807	2004-01-12	2.0280000	24.30671	8.0442222	2.222222	2.000000
## 4808	2004-01-13	2.4957333	24.34399	7.9611111	115.454545	20.545455
## 4809	2004-01-14	2.9634667	24.38127	7.8780000	140.000000	15.909091
## 4810	2004-01-15	3.4312000	24.41855	7.7948889	320.000000	11.272727
## 4811	2004-01-16	3.8989333	24.45583	7.7117778	74.000000	6.636364
## 4812	2004-01-17	4.3666667	24.49311	7.6286667	2.000000	2.000000
## 4813	2004-01-18	4.0157778	24.32764	7.8996296	30.545455	16.000000
## 4814	2004-01-19	3.6648889	24.16216	8.1705926	4.000000	10.911111
## 4815	2004-01-20	3.3140000	23.99669	8.4415556	45.288889	5.822222
## 4816	2004-01-21	2.6123333	24.11887	8.3226667	9.272727	4.000000
## 4817	2004-01-22	1.9106667	24.24104	8.2037778	2.711111	2.000000
## 4818	2004-01-23	1.6518889	24.43316	7.8143333	10.363636	3.454545
## 4819	2004-01-24	1.3931111	24.62527	7.4248889	2.088889	2.044444
## 4820	2004-01-25	1.5676667	24.28262	7.6816667	5.272727	2.727273
## 4821	2004-01-26	1.7422222	23.93998	7.9384444	2.000000	2.000000
## 4822	2004-01-27	1.5137778	23.80947	8.0047111	34.909091	2.909091
## 4823	2004-01-28	1.2853333	23.67896	8.0709778	2.000000	2.454545
## 4824	2004-01-29	1.0568889	23.54844	8.1372444	2.000000	2.000000
## 4825	2004-01-30	1.5307778	23.66647	8.2035111	34.909091	8.909091
## 4826	2004-01-31	2.0046667	23.78449	8.2697778	2.000000	2.000000
## 4827	2004-02-01	1.8877778	23.70661	8.1695556	7.090909	2.000000
## 4828	2004-02-02	1.7708889	23.62873	8.0693333	2.000000	2.000000
## 4829	2004-02-03	1.2442424	23.99864	7.8336364	7.062500	4.500000
## 4830	2004-02-04	1.5752778	24.10456	7.8666667	4.531250	3.250000
## 4831	2004-02-05	1.8226667	24.02703	7.9320000	2.000000	2.000000
## 4832	2004-02-06	1.0542222	24.10007	7.9464444	2.000000	2.000000
## 4833	2004-02-07	0.8257143	24.41702	7.3423810	57.584906	27.272727
## 4834	2004-02-08	0.5422727	24.69520	6.7975000	34.428816	19.027056
## 4835	2004-02-09	0.2896364	24.87487	6.5447273	11.272727	10.781385
## 4836	2004-02-10	2.2697778	23.78173	7.8191111	4.357143	2.535714
## 4837	2004-02-11	0.7342222	24.21282	7.3440000	2.488889	2.000000
## 4838	2004-02-12	0.9668889	24.26046	7.4251852	40.363636	6.727273
## 4839	2004-02-13	1.1995556	24.30810	7.5063704	2.000000	31.074747
## 4840	2004-02-14	1.4322222	24.35573	7.5875556	5.955556	55.422222
## 4841	2004-02-15	1.2427778	24.33934	7.6550000	7.636364	5.636364
## 4842	2004-02-16	1.0533333	24.32296	7.7224444	2.044444	2.044444
## 4843	2004-02-17	1.2412222	24.44889	7.8091111	4.181818	5.090909
## 4844	2004-02-18	1.4291111	24.57482	7.8957778	2.000000	2.044444
## 4845	2004-02-19	1.2455556	24.35100	7.9064444	12.545455	2.727273
## 4846	2004-02-20	1.0620000	24.12718	7.9171111	2.000000	2.000000
## 4847	2004-02-21	1.3954444	24.18959	7.7705556	3.454545	2.727273
## 4848	2004-02-22	1.7288889	24.25200	7.6240000	2.088889	4.666667
## 4849	2004-02-23	1.5204444	24.27264	7.7308148	3.454545	49.090909
## 4850	2004-02-24	1.3120000	24.29327	7.8376296	2.727273	2.000000

##	4851	2004-02-25	1.1035556	24.31391	7.9444444	2.000000	2.000000
##	4852	2004-02-26	1.0191111	24.42243	7.6668889	24.181818	8.363636
##	4853	2004-02-27	0.9346667	24.53096	7.3893333	2.800000	2.000000
##	4854	2004-02-28	1.2973333	24.39072	7.7351111	231.818182	102.000000
##	4855	2004-02-29	1.6600000	24.25049	8.0808889	2.000000	2.000000
##	4856	2004-03-01	0.6739394	24.38018	7.8824242	11.562500	7.375000
##	4857	2004-03-02	0.7338889	24.31242	7.8672222	6.914583	4.820833
##	4858	2004-03-03	1.4633333	24.18487	7.9960000	2.266667	2.266667
##	4859	2004-03-04	1.1572222	24.25108	7.9044444	18.000000	4.909091
##	4860	2004-03-05	0.8511111	24.31729	7.8128889	11.863636	4.345051
##	4861	2004-03-06	0.3429545	24.75695	7.2188636	5.727273	3.781010
##	4862	2004-03-07	0.4442857	24.50517	7.5535714	2.619048	3.216970
##	4863	2004-03-08	0.3736364	24.81207	7.0960000	11.418182	2.652929
##	4864	2004-03-09	0.7808889	24.29162	7.6320000	2.000000	2.088889
##	4865	2004-03-10	0.8636667	24.32682	7.5672222	5.636364	2.727273
##	4866	2004-03-11	0.9464444	24.36202	7.5024444	2.000000	2.000000
##	4867	2004-03-12	0.9453333	24.52583	7.3093333	13.272727	21.636364
##	4868	2004-03-13	0.9442222	24.68964	7.1162222	11.377778	111.733333
##	4869	2004-03-14	1.0207111	24.64706	7.2253333	503.636364	1287.454545
##	4870	2004-03-15	1.0972000	24.60447	7.3344444	7400.000000	8466.666667
##	4871	2004-03-16	1.1736889	24.56188	7.4435556	7600.000000	6600.000000
##	4872	2004-03-17	1.2501778	24.51930	7.5526667	350.000000	760.000000
##	4873	2004-03-18	1.3266667	24.47671	7.6617778	54.711111	201.244444
##	4874	2004-03-19	1.2536667	24.48532	7.6330000	503.250000	1057.500000
##	4875	2004-03-20	1.1806667	24.49394	7.6042222	1537.200000	4505.000000
##	4876	2004-03-21	1.1076667	24.50255	7.5754444	162.500000	2633.333333
##	4877	2004-03-22	1.0346667	24.51117	7.5466667	2.666667	2.000000
##	4878	2004-03-23	1.5973333	24.52955	7.6506667	1545.250000	93.000000
##	4879	2004-03-24	2.1600000	24.54793	7.7546667	852.000000	82.400000
##	4880	2004-03-25	1.8788889	24.59461	7.7560000	30.000000	148.450000
##	4881	2004-03-26	1.5977778	24.64128	7.7573333	289.250000	214.500000
##	4882	2004-03-27	1.3166667	24.68796	7.7586667	1399.625000	4007.250000
##	4883	2004-03-28	1.1851852	24.76046	7.7938519	2510.000000	7800.000000
##	4884	2004-03-29	1.0537037	24.83296	7.8290370	71.000000	106.000000
##	4885	2004-03-30	0.9222222	24.90547	7.8642222	207.250000	235.821429
##	4886	2004-03-31	0.8971852	24.88378	7.8905185	136.000000	80.000000
##	4887	2004-04-01	0.8721481	24.86209	7.9168148	120.000000	60.355556
##	4888	2004-04-02	0.8471111	24.84040	7.9431111	41.866667	40.711111
##	4889	2004-04-03	0.9749778	24.83673	7.9306222	297.272727	570.545455
##	4890	2004-04-04	1.1028444	24.83307	7.9181333	69.333333	273.333333
##	4891	2004-04-05	1.2307111	24.82940	7.9056444	66.000000	480.000000
##	4892	2004-04-06	1.3585778	24.82573	7.8931556	70.200000	2400.000000
##	4893	2004-04-07	1.4864444	24.82207	7.8806667	74.400000	233.511111
##	4894	2004-04-08	1.3425000	24.85546	7.7542222	3011.500000	3145.000000
##	4895	2004-04-09	1.1985556	24.88884	7.6277778	160.000000	762.000000
##	4896	2004-04-10	1.0546111	24.92223	7.5013333	231.090909	289.636364
##	4897	2004-04-11	0.9106667	24.95562	7.3748889	116.545455	1344.818182
##	4898	2004-04-12	1.0482222	24.96043	7.5350556	2.000000	2400.000000
##	4899	2004-04-13	1.1857778	24.96524	7.6952222	9.822222	3600.000000
##	4900	2004-04-14	1.3233333	24.97006	7.8553889	17.644444	3200.000000
##	4901	2004-04-15	1.4608889	24.97487	8.0155556	25.466667	42.000000
##	4902	2004-04-16	1.3825714	24.94661	7.9822540	1147.090909	1221.090909
##	4903	2004-04-17	1.3042540	24.91836	7.9489524	139.000000	300.000000
##	4904	2004-04-18	1.2259365	24.89010	7.9156508	3400.000000	4133.333333

## 4905	2004-04-19	1.1476190	24.86185	7.8823492	9733.333333	7966.666667
## 4906	2004-04-20	1.0693016	24.83360	7.8490476	9000.000000	12000.000000
## 4907	2004-04-21	0.9909841	24.80534	7.8157460	780.909091	1110.833333
## 4908	2004-04-22	0.9126667	24.77709	7.7824444	44.755556	47.377778
## 4909	2004-04-23	1.0345926	24.81667	7.8495556	1680.000000	2433.333333
## 4910	2004-04-24	1.1565185	24.85624	7.9166667	2676.000000	5613.333333
## 4911	2004-04-25	1.2784444	24.89582	7.9837778	9.555556	29.955556
## 4912	2004-04-26	0.9793939	24.95533	7.6339394	427.937500	560.125000
## 4913	2004-04-27	0.8286111	25.00511	7.3963889	6213.968750	4320.062500
## 4914	2004-04-28	1.1366389	24.89702	7.6146944	12000.000000	8080.000000
## 4915	2004-04-29	1.4446667	24.78893	7.8330000	656.400000	482.400000
## 4916	2004-04-30	1.1858519	24.90513	7.5409630	7400.000000	6320.000000
## 4917	2004-05-01	0.9270370	25.02132	7.2489259	92.000000	72.400000
## 4918	2004-05-02	0.6682222	25.13751	6.9568889	204.285714	202.714286
## 4919	2004-05-03	0.9321111	25.15843	7.0551111	240.000000	64.000000
## 4920	2004-05-04	1.1960000	25.17936	7.1533333	9333.333333	48.207407
## 4921	2004-05-05	1.4598889	25.20028	7.2515556	4233.333333	32.414815
## 4922	2004-05-06	1.7237778	25.22120	7.3497778	9.600000	16.622222
## 4923	2004-05-07	1.6742222	25.18915	7.4667111	1512.545455	2194.727273
## 4924	2004-05-08	1.6246667	25.15710	7.5836444	6037.000000	6014.000000
## 4925	2004-05-09	1.5751111	25.12505	7.7005778	12000.000000	12000.000000
## 4926	2004-05-10	1.5255556	25.09300	7.8175111	12000.000000	12000.000000
## 4927	2004-05-11	1.4760000	25.06096	7.9344444	271.822222	375.022222
## 4928	2004-05-12	0.5356364	25.55731	6.0167273	191.696970	1456.363636
## 4929	2004-05-13	0.7061905	25.35119	6.5861905	18.720000	2.500000
## 4930	2004-05-14	0.4613636	25.51186	5.9350000	19.288889	1515.000000
## 4931	2004-05-15	1.1575758	25.37746	6.5682222	100.000000	2800.000000
## 4932	2004-05-16	1.8537879	25.24305	7.2014444	84.155556	6724.500000
## 4933	2004-05-17	2.5500000	25.10864	7.8346667	68.311111	355.555556
## 4934	2004-05-18	2.3240370	25.07409	7.8847407	3139.090909	3605.272727
## 4935	2004-05-19	2.0980741	25.03954	7.9348148	21.250000	29.750000
## 4936	2004-05-20	1.8721111	25.00499	7.9848889	5733.333333	12000.000000
## 4937	2004-05-21	1.6461481	24.97044	8.0349630	32.000000	8011.666667
## 4938	2004-05-22	1.4201852	24.93589	8.0850370	4006.000000	4023.333333
## 4939	2004-05-23	1.1942222	24.90133	8.1351111	14.434783	47.869565
## 4940	2004-05-24	1.2314074	24.91849	8.0096296	21.750000	9.500000
## 4941	2004-05-25	1.2685926	24.93564	7.8841481	93.090909	580.363636
## 4942	2004-05-26	1.3057778	24.95279	7.7586667	173.000000	330.666667
## 4943	2004-05-27	1.3429630	24.96994	7.6331852	36.000000	220.000000
## 4944	2004-05-28	1.3801481	24.98709	7.5077037	8.000000	28.000000
## 4945	2004-05-29	1.4173333	25.00424	7.3822222	67.422222	163.333333
## 4946	2004-05-30	1.7018095	24.98925	7.5543175	1682.181818	2363.090909
## 4947	2004-05-31	1.9862857	24.97425	7.7264127	2.500000	7.750000
## 4948	2004-06-01	2.2707619	24.95925	7.8985079	2560.333333	4244.400000
## 4949	2004-06-02	2.5552381	24.94426	8.0706032	4134.000000	4034.000000
## 4950	2004-06-03	2.8397143	24.92926	8.2426984	72.000000	180.000000
## 4951	2004-06-04	3.1241905	24.91426	8.4147937	40.727273	132.000000
## 4952	2004-06-05	3.4086667	24.89927	8.5868889	6.679245	23.773585
## 4953	2004-06-06	2.8785556	24.96844	7.9981111	12.000000	11.000000
## 4954	2004-06-07	2.3484444	25.03762	7.4093333	2.044444	2.755556
## 4955	2004-06-08	2.0831111	25.07128	7.3405926	52.181818	96.727273
## 4956	2004-06-09	1.8177778	25.10494	7.2718519	14.500000	9.750000
## 4957	2004-06-10	1.5524444	25.13860	7.2031111	2.000000	2.933333
## 4958	2004-06-11	1.3316296	25.03637	7.3716574	212.181818	355.272727

## 4959	2004-06-12	1.1108148	24.93414	7.5402037	2.500000	2.500000
## 4960	2004-06-13	0.8900000	24.83192	7.7087500	2.166667	2.666667
## 4961	2004-06-14	2.5785714	25.20652	7.0242857	10.312500	14.687500
## 4962	2004-06-15	2.0457440	25.05268	7.3640179	4.750000	4.750000
## 4963	2004-06-16	1.5129167	24.89883	7.7037500	2.500000	2.000000
## 4964	2004-06-17	2.2771429	24.63976	8.4704762	37.187500	23.812500
## 4965	2004-06-18	2.0752460	24.73138	8.1675238	64.000000	408.500000
## 4966	2004-06-19	1.8733492	24.82300	7.8645714	16.000000	580.000000
## 4967	2004-06-20	1.6714524	24.91462	7.5616190	9.000000	3.000000
## 4968	2004-06-21	1.4695556	25.00624	7.2586667	2.000000	2.400000
## 4969	2004-06-22	0.4749091	25.59416	5.1734545	19.666667	19.454545
## 4970	2004-06-23	1.0426190	25.38343	5.9390476	8.520000	3.750000
## 4971	2004-06-24	0.7084091	25.56270	5.3952273	13.045455	10.763889
## 4972	2004-06-25	1.9935556	24.68236	7.8726667	2.666667	17.777778
## 4973	2004-06-26	1.5321212	24.91194	7.7130303	42.312500	104.812500
## 4974	2004-06-27	2.8316667	24.93263	7.4826667	2.086957	2.173913
## 4975	2004-06-28	2.2047222	25.05997	7.4630556	2.000000	6.600000
## 4976	2004-06-29	2.2561111	25.12324	7.2320370	1194.909091	3245.272727
## 4977	2004-06-30	2.3075000	25.18651	7.0010185	4.500000	20.250000
## 4978	2004-07-01	2.3588889	25.24978	6.7700000	255.291667	285.333333
## 4979	2004-07-02	2.9141667	25.19672	7.0360000	12000.000000	6055.000000
## 4980	2004-07-03	3.4694444	25.14367	7.3020000	7200.000000	12000.000000
## 4981	2004-07-04	4.0247222	25.09061	7.5680000	330.727273	920.000000
## 4982	2004-07-05	4.5800000	25.03756	7.8340000	2.415094	19.773585
## 4983	2004-07-06	4.6180000	24.96463	7.7600000	28.000000	400.000000
## 4984	2004-07-07	4.6560000	24.89170	7.6860000	15.355556	80.000000
## 4985	2004-07-08	4.6940000	24.81878	7.6120000	2.711111	3.555556
## 4986	2004-07-09	4.6119259	24.77323	7.8688889	13.454545	160.545455
## 4987	2004-07-10	4.5298519	24.72768	8.1257778	11.000000	36.444444
## 4988	2004-07-11	4.4477778	24.68213	8.3826667	2.533333	4.400000
## 4989	2004-07-12	5.1387407	24.72296	7.9874815	7.818182	12.909091
## 4990	2004-07-13	5.8297037	24.76378	7.5922963	2.000000	6.500000
## 4991	2004-07-14	6.5206667	24.80460	7.1971111	2.177778	2.888889
## 4992	2004-07-15	6.4537222	24.83263	6.8927222	17.090909	11.454545
## 4993	2004-07-16	6.3867778	24.86067	6.5883333	4.250000	12.500000
## 4994	2004-07-17	6.3198333	24.88870	6.2839444	18.250000	50.000000
## 4995	2004-07-18	6.2528889	24.91673	5.9795556	20.958333	15.500000
## 4996	2004-07-19	4.4386667	24.94071	6.0621111	2.000000	4.750000
## 4997	2004-07-20	2.6244444	24.96469	6.1446667	3.094340	5.245283
## 4998	2004-07-21	2.4256667	24.57584	6.8482222	14.363636	25.090909
## 4999	2004-07-22	2.2268889	24.18700	7.5517778	7.866667	18.266667
## 5000	2004-07-23	1.9730370	24.39686	7.2147407	10.000000	12.545455
## 5001	2004-07-24	1.7191852	24.60672	6.8777037	2.000000	5.500000
## 5002	2004-07-25	1.4653333	24.81658	6.5406667	2.000000	2.044444
## 5003	2004-07-26	1.4102222	24.83270	6.5915111	5.750000	4.000000
## 5004	2004-07-27	1.3551111	24.84883	6.6423556	247.636364	4.000000
## 5005	2004-07-28	1.3000000	24.86495	6.6932000	2.000000	5.545455
## 5006	2004-07-29	1.2448889	24.88108	6.7440444	11.636364	7.090909
## 5007	2004-07-30	1.1897778	24.89720	6.7948889	3.018868	3.396226
## 5008	2004-07-31	3.4746667	24.44516	8.6862222	13.107143	18.964286
## 5009	2004-08-01	3.3912222	24.59752	8.2148889	7.250000	4.750000
## 5010	2004-08-02	3.3077778	24.74989	7.7435556	2.000000	2.044444
## 5011	2004-08-03	2.0806162	25.05618	6.7790505	23.818182	61.454545
## 5012	2004-08-04	0.8534545	25.36247	5.8145455	10.984127	12.500000

## 5013	2004-08-05	1.9723810	25.05419	7.0566667	4.285714	22.079365
## 5014	2004-08-06	0.8400000	25.25530	6.2972727	6.136364	31.658730
## 5015	2004-08-07	3.7390909	24.87885	7.2663636	24.190476	41.238095
## 5016	2004-08-08	3.1016667	24.82453	7.0141667	2.789474	2.631579
## 5017	2004-08-09	3.4926667	24.90203	7.0900000	6.000000	3.913043
## 5018	2004-08-10	2.8220000	24.91336	7.1688889	2.000000	2.088889
## 5019	2004-08-11	2.9786667	24.57936	7.9186667	2.088889	2.177778
## 5020	2004-08-12	3.0031667	24.47504	7.7963333	586.000000	93.454545
## 5021	2004-08-13	3.0276667	24.37072	7.6740000	8.750000	6.250000
## 5022	2004-08-14	3.0521667	24.26641	7.5516667	6.000000	3.090909
## 5023	2004-08-15	3.0766667	24.16209	7.4293333	2.188679	2.301887
## 5024	2004-08-16	3.2368889	24.16387	7.6673333	170.000000	92.250000
## 5025	2004-08-17	2.8059259	24.11193	7.5491111	59.000000	7.500000
## 5026	2004-08-18	2.3749630	24.06000	7.4308889	4.000000	15.660714
## 5027	2004-08-19	1.9440000	24.00807	7.3126667	67.571429	23.821429
## 5028	2004-08-20	2.6830000	24.17096	7.0323333	2.750000	8.500000
## 5029	2004-08-21	3.4220000	24.33384	6.7520000	6.250000	5.392857
## 5030	2004-08-22	2.9451111	24.28217	6.6928889	3.750000	2.750000
## 5031	2004-08-23	2.4682222	24.23049	6.6337778	3.178571	2.607143
## 5032	2004-08-24	2.0144444	24.25323	6.7475556	3.000000	3.750000
## 5033	2004-08-25	1.5606667	24.27596	6.8613333	2.266667	7.644444
## 5034	2004-08-26	1.7695556	24.29870	7.1163333	27.454545	28.363636
## 5035	2004-08-27	1.9784444	24.32144	7.3713333	2.000000	76.250000
## 5036	2004-08-28	2.1873333	24.34417	7.6263333	498.363636	293.818182
## 5037	2004-08-29	2.3962222	24.36691	7.8813333	2.188679	2.452830
## 5038	2004-08-30	1.8428889	24.56416	7.4464444	28.357143	21.285714
## 5039	2004-08-31	1.7477037	24.57455	7.4754074	121.750000	77.500000
## 5040	2004-09-01	1.6525185	24.58494	7.5043704	16.000000	32.000000
## 5041	2004-09-02	1.5573333	24.59533	7.5333333	2.571429	2.071429
## 5042	2004-09-03	1.7598889	24.47092	7.7801111	3.000000	3.000000
## 5043	2004-09-04	1.9624444	24.34651	8.0268889	6.142857	2.714286
## 5044	2004-09-05	1.9511111	24.40191	8.0854444	7.750000	3.250000
## 5045	2004-09-06	1.9397778	24.45731	8.1440000	19.777778	2.000000
## 5046	2004-09-07	0.7458182	25.06289	6.3932727	42.303030	14.545455
## 5047	2004-09-08	1.3264286	24.69286	7.4916667	4.080000	27.750000
## 5048	2004-09-09	1.0120455	24.90716	6.9497727	16.727273	15.250000
## 5049	2004-09-10	1.6995556	24.34656	7.7426667	4.321429	2.750000
## 5050	2004-09-11	1.7172727	24.51303	7.9157576	30.965517	13.448276
## 5051	2004-09-12	1.4922222	24.51064	7.8869444	2.000000	2.000000
## 5052	2004-09-13	1.7293333	24.61863	7.4526667	2.266667	4.266667
## 5053	2004-09-14	1.5046667	24.73178	7.0566667	2.000000	2.400000
## 5054	2004-09-15	1.6133333	24.66884	7.1931667	207.090909	221.454545
## 5055	2004-09-16	1.7220000	24.60590	7.3296667	65.750000	83.000000
## 5056	2004-09-17	1.8306667	24.54296	7.4661667	56.000000	660.388889
## 5057	2004-09-18	1.9393333	24.48002	7.6026667	247.846154	1237.777778
## 5058	2004-09-19	1.9067407	24.48059	7.6379259	439.692308	1815.166667
## 5059	2004-09-20	1.8741481	24.48115	7.6731852	364.000000	2950.000000
## 5060	2004-09-21	1.8415556	24.48171	7.7084444	6182.000000	640.000000
## 5061	2004-09-22	1.8089630	24.48227	7.7437037	12000.000000	12000.000000
## 5062	2004-09-23	1.7763704	24.48284	7.7789630	892.000000	2964.800000
## 5063	2004-09-24	1.7437778	24.48340	7.8142222	104.800000	251.466667
## 5064	2004-09-25	1.6755556	24.46770	7.7335556	1440.363636	2150.545455
## 5065	2004-09-26	1.6073333	24.45200	7.6528889	190.250000	63.250000
## 5066	2004-09-27	1.5391111	24.43629	7.5722222	6162.857143	3408.500000

## 5067	2004-09-28	1.4708889	24.42059	7.4915556	517.333333	493.333333
## 5068	2004-09-29	1.4026667	24.40489	7.4108889	762.754717	1114.943396
## 5069	2004-09-30	1.3300000	24.49872	7.3653778	219.333333	373.333333
## 5070	2004-10-01	1.2573333	24.59256	7.3198667	894.000000	1221.230769
## 5071	2004-10-02	1.1846667	24.68640	7.2743556	453.333333	273.333333
## 5072	2004-10-03	1.1120000	24.78023	7.2288444	180.000000	200.000000
## 5073	2004-10-04	1.0393333	24.87407	7.1833333	22.782609	59.866667
## 5074	2004-10-05	1.1614667	24.85966	7.3326667	966.909091	2359.090909
## 5075	2004-10-06	1.2836000	24.84525	7.4820000	2.000000	2.500000
## 5076	2004-10-07	1.4057333	24.83084	7.6313333	12000.000000	12000.000000
## 5077	2004-10-08	1.5278667	24.81643	7.7806667	9533.333333	12000.000000
## 5078	2004-10-09	1.6500000	24.80202	7.9300000	550.875000	594.750000
## 5079	2004-10-10	1.5878611	24.78734	7.8971389	7600.000000	7950.000000
## 5080	2004-10-11	1.5257222	24.77266	7.8642778	1490.000000	3215.000000
## 5081	2004-10-12	1.4635833	24.75797	7.8314167	916.400000	729.000000
## 5082	2004-10-13	1.4014444	24.74329	7.7985556	8277.250000	7280.000000
## 5083	2004-10-14	1.3393056	24.72861	7.7656944	1776.666667	4270.181818
## 5084	2004-10-15	1.2771667	24.71392	7.7328333	1212.181818	1260.363636
## 5085	2004-10-16	1.2150278	24.69924	7.6999722	210.000000	733.559177
## 5086	2004-10-17	1.1528889	24.68456	7.6671111	121.018868	206.754717
## 5087	2004-10-18	1.2451111	24.70299	7.6065926	6150.000000	12000.000000
## 5088	2004-10-19	1.3373333	24.72141	7.5460741	6060.000000	12000.000000
## 5089	2004-10-20	1.4295556	24.73984	7.4855556	91.963636	160.072727
## 5090	2004-10-21	1.4473333	24.75520	7.4781667	14.750000	14.500000
## 5091	2004-10-22	1.4651111	24.77056	7.4707778	510.000000	1190.000000
## 5092	2004-10-23	1.4828889	24.78591	7.4633889	620.000000	1870.000000
## 5093	2004-10-24	1.5006667	24.80127	7.4560000	56.723404	289.872340
## 5094	2004-10-25	1.4891852	24.79542	7.4964815	284.909091	1731.090909
## 5095	2004-10-26	1.4777037	24.78958	7.5369630	4.500000	3.500000
## 5096	2004-10-27	1.4662222	24.78373	7.5774444	8100.000000	12000.000000
## 5097	2004-10-28	1.4547407	24.77789	7.6179259	7300.000000	8400.000000
## 5098	2004-10-29	1.4432593	24.77204	7.6584074	640.000000	1200.000000
## 5099	2004-10-30	1.4317778	24.76620	7.6988889	232.830189	474.075472
## 5100	2004-10-31	1.4620556	24.76793	7.6784444	39.250000	25.000000
## 5101	2004-11-01	1.4923333	24.76967	7.6580000	2049.000000	2444.400000
## 5102	2004-11-02	1.5226111	24.77140	7.6375556	356.000000	200.000000
## 5103	2004-11-03	1.5528889	24.77313	7.6171111	53.433962	67.584906
## 5104	2004-11-04	1.5248333	24.81574	7.6156667	4.500000	2.500000
## 5105	2004-11-05	1.4967778	24.85836	7.6142222	26.000000	16.000000
## 5106	2004-11-06	1.4687222	24.90097	7.6127778	2969.818182	2880.909091
## 5107	2004-11-07	1.4406667	24.94358	7.6113333	544.357143	345.309091
## 5108	2004-11-08	1.4934074	24.90430	7.6683704	1126.666667	370.000000
## 5109	2004-11-09	1.5461481	24.86501	7.7254074	5666.666667	3300.000000
## 5110	2004-11-10	1.5988889	24.82573	7.7824444	99.511111	115.911111
## 5111	2004-11-11	1.3442424	24.90400	7.6315152	371.696970	378.363636
## 5112	2004-11-12	1.3538889	24.95567	7.4572222	3.703704	7.259259
## 5113	2004-11-13	1.2860000	24.93107	7.6390000	753.000000	753.000000
## 5114	2004-11-14	1.3923333	24.88213	7.7508333	12000.000000	12000.000000
## 5115	2004-11-15	1.4986667	24.83320	7.8626667	436.535714	574.392857
## 5116	2004-11-16	0.4558182	25.21316	6.2550909	30.476190	13.000000
## 5117	2004-11-17	0.9207143	24.95950	7.2942857	266.212766	3028.500000
## 5118	2004-11-18	0.6254545	25.09100	6.7184091	10.297872	62.000000
## 5119	2004-11-19	0.9315051	25.01174	7.1067601	2200.000000	84.428571
## 5120	2004-11-20	1.2375556	24.93249	7.4951111	46.464286	106.857143

##	5121	2004-11-21	1.2229206	24.89663	7.5416825	2.250000	3.750000
##	5122	2004-11-22	1.2082857	24.86078	7.5882540	1000.000000	6000.000000
##	5123	2004-11-23	1.1936508	24.82493	7.6348254	820.000000	980.000000
##	5124	2004-11-24	1.1790159	24.78907	7.6813968	10.000000	5.000000
##	5125	2004-11-25	1.1643810	24.75322	7.7279683	3347.636364	3792.363636
##	5126	2004-11-26	1.1497460	24.71737	7.7745397	3.750000	2.250000
##	5127	2004-11-27	1.1351111	24.68151	7.8211111	286.625000	592.666667
##	5128	2004-11-28	1.2004444	24.74169	7.6750000	9066.666667	12000.000000
##	5129	2004-11-29	1.2657778	24.80187	7.5288889	65.916667	225.041667
##	5130	2004-11-30	1.4436000	24.73470	7.6012889	2976.363636	3216.363636
##	5131	2004-12-01	1.6214222	24.66753	7.6736889	8.250000	9.750000
##	5132	2004-12-02	1.7992444	24.60036	7.7460889	4710.250000	7162.857143
##	5133	2004-12-03	1.9770667	24.53319	7.8184889	6336.666667	12000.000000
##	5134	2004-12-04	2.1548889	24.46602	7.8908889	512.269231	1254.600000
##	5135	2004-12-05	2.0345778	24.48749	7.8569778	4229.454545	4689.090909
##	5136	2004-12-06	1.9142667	24.50896	7.8230667	234.333333	64.333333
##	5137	2004-12-07	1.7939556	24.53042	7.7891556	4585.714286	5158.857143
##	5138	2004-12-08	1.6736444	24.55189	7.7552444	486.000000	850.000000
##	5139	2004-12-09	1.5533333	24.57336	7.7213333	90.678571	548.214286
##	5140	2004-12-10	2.3278889	24.73817	7.5398333	2.000000	11.250000
##	5141	2004-12-11	3.1024444	24.90298	7.3583333	32.000000	88.000000
##	5142	2004-12-12	3.8770000	25.06779	7.1768333	2856.000000	4449.818182
##	5143	2004-12-13	4.6515556	25.23260	6.9953333	267.642857	466.142857
##	5144	2004-12-14	4.9568000	25.07627	7.3480889	4313.333333	4240.000000
##	5145	2004-12-15	5.2620444	24.91993	7.7008444	4153.333333	6040.000000
##	5146	2004-12-16	5.5672889	24.76360	8.0536000	4352.727273	4890.909091
##	5147	2004-12-17	5.8725333	24.60727	8.4063556	10.250000	12.000000
##	5148	2004-12-18	6.1777778	24.45093	8.7591111	4055.125000	4863.142857
##	5149	2004-12-19	5.1451111	24.45679	8.5458519	8100.000000	9714.285714
##	5150	2004-12-20	4.1124444	24.46264	8.3325926	3613.250000	7972.285714
##	5151	2004-12-21	3.0797778	24.46849	8.1193333	445.821429	552.500000
##	5152	2004-12-22	3.8540444	24.62828	7.9197333	24.750000	30.750000
##	5153	2004-12-23	4.6283111	24.78808	7.7201333	6016.000000	6025.000000
##	5154	2004-12-24	5.4025778	24.94788	7.5205333	12000.000000	12000.000000
##	5155	2004-12-25	6.1768444	25.10767	7.3209333	833.333333	1990.000000
##	5156	2004-12-26	6.9511111	25.26747	7.1213333	344.642857	1347.500000
##	5157	2004-12-27	10.1193778	25.13742	7.4403556	4.500000	7.500000
##	5158	2004-12-28	13.2876444	25.00738	7.7593778	1596.000000	5416.000000
##	5159	2004-12-29	16.4559111	24.87733	8.0784000	2784.000000	11200.000000
##	5160	2004-12-30	19.6241778	24.74729	8.3974222	4085.000000	5126.666667
##	5161	2004-12-31	22.7924444	24.61724	8.7164444	667.500000	917.892857
##	5162	2005-01-01	22.0953778	24.65476	8.4858667	5.250000	6.500000
##	5163	2005-01-02	21.3983111	24.69227	8.2552889	4680.000000	4246.666667
##	5164	2005-01-03	20.7012444	24.72978	8.0247111	5858.400000	12000.000000
##	5165	2005-01-04	20.0041778	24.76729	7.7941333	6140.000000	12000.000000
##	5166	2005-01-05	19.3071111	24.80480	7.5635556	70.178571	200.321429
##	5167	2005-01-06	16.0908000	24.80648	7.4271556	11.750000	2.000000
##	5168	2005-01-07	12.8744889	24.80817	7.2907556	3800.000000	7040.000000
##	5169	2005-01-08	9.6581778	24.80985	7.1543556	20.000000	20.000000
##	5170	2005-01-09	6.4418667	24.81154	7.0179556	12000.000000	12000.000000
##	5171	2005-01-10	3.2255556	24.81322	6.8815556	6002.750000	6006.125000
##	5172	2005-01-11	3.2258222	24.78948	6.7380000	5.500000	12.250000
##	5173	2005-01-12	3.2260889	24.76574	6.5944444	2616.800000	3171.000000
##	5174	2005-01-13	3.2263556	24.74200	6.4508889	4004.000000	3601.000000

##	5175	2005-01-14	3.2266222	24.71825	6.3073333	30.000000	14.000000
##	5176	2005-01-15	3.2268889	24.69451	6.1637778	4.933333	4.044444
##	5177	2005-01-16	2.5882626	25.15728	5.3982525	84.909091	92.545455
##	5178	2005-01-17	1.9496364	25.62005	4.6327273	6.920635	7.000000
##	5179	2005-01-18	2.8181818	25.51007	4.9459091	15.733333	132.785714
##	5180	2005-01-19	2.8826190	25.32898	4.9795238	10.190476	258.571429
##	5181	2005-01-20	3.4722222	24.85829	5.6962222	356.035714	384.357143
##	5182	2005-01-21	1.5212121	25.01785	6.0675758	2.206897	2.758621
##	5183	2005-01-22	1.8919444	25.05964	6.0969444	661.800000	635.133333
##	5184	2005-01-23	2.6700000	25.03440	5.3593333	1257.222222	1390.555556
##	5185	2005-01-24	2.3973333	25.08162	5.7505556	2433.333333	2413.333333
##	5186	2005-01-25	2.1246667	25.12884	6.1417778	7.071429	7.107143
##	5187	2005-01-26	1.7987778	25.06720	6.2872222	2.500000	3.250000
##	5188	2005-01-27	1.4728889	25.00556	6.4326667	223.714286	231.000000
##	5189	2005-01-28	1.7310667	24.91248	6.6239111	3.000000	8.250000
##	5190	2005-01-29	1.9892444	24.81940	6.8151556	9200.000000	12000.000000
##	5191	2005-01-30	2.2474222	24.72632	7.0064000	7500.000000	12000.000000
##	5192	2005-01-31	2.5056000	24.63324	7.1976444	4501.000000	2800.000000
##	5193	2005-02-01	2.7637778	24.54016	7.3888889	8.071429	9.535714
##	5194	2005-02-02	2.7724444	24.67337	7.0468148	2.000000	11.250000
##	5195	2005-02-03	2.7811111	24.80659	6.7047407	10.000000	10.000000
##	5196	2005-02-04	2.7897778	24.93980	6.3626667	237.357143	369.892857
##	5197	2005-02-05	2.8773333	24.86385	6.6578667	4.000000	4.000000
##	5198	2005-02-06	2.9648889	24.78791	6.9530667	6866.666667	11000.000000
##	5199	2005-02-07	3.0524444	24.71196	7.2482667	6393.333333	12000.000000
##	5200	2005-02-08	3.1400000	24.63601	7.5434667	9800.000000	12000.000000
##	5201	2005-02-09	3.2275556	24.56007	7.8386667	504.178571	573.500000
##	5202	2005-02-10	3.0083889	24.60156	7.6838333	3.500000	5.500000
##	5203	2005-02-11	2.7892222	24.64306	7.5290000	77.500000	19.000000
##	5204	2005-02-12	2.5700556	24.68455	7.3741667	12000.000000	12.566667
##	5205	2005-02-13	2.3508889	24.72604	7.2193333	68.304348	6.133333
##	5206	2005-02-14	2.5871111	24.66595	7.3344000	1447.090909	1420.909091
##	5207	2005-02-15	2.8233333	24.60586	7.4494667	2.500000	14.250000
##	5208	2005-02-16	3.0595556	24.54576	7.5645333	8200.000000	8866.666667
##	5209	2005-02-17	3.2957778	24.48567	7.6796000	7766.666667	8173.333333
##	5210	2005-02-18	3.5320000	24.42558	7.7946667	259.416667	257.666667
##	5211	2005-02-19	3.5711111	24.55944	7.5368889	1159.818182	1170.545455
##	5212	2005-02-20	3.6102222	24.69331	7.2791111	2.000000	2.250000
##	5213	2005-02-21	3.6493333	24.82718	7.0213333	540.000000	960.000000
##	5214	2005-02-22	3.6884444	24.96104	6.7635556	12000.000000	12000.000000
##	5215	2005-02-23	3.7275556	25.09491	6.5057778	12000.000000	12000.000000
##	5216	2005-02-24	3.7666667	25.22878	6.2480000	201.857143	115.857143
##	5217	2005-02-25	3.5532000	25.19973	6.4254667	5.000000	15.250000
##	5218	2005-02-26	3.3397333	25.17068	6.6029333	501.000000	301.000000
##	5219	2005-02-27	3.1262667	25.14163	6.7804000	12000.000000	12000.000000
##	5220	2005-02-28	2.9128000	25.11258	6.9578667	100.000000	220.000000
##	5221	2005-03-01	2.6993333	25.08353	7.1353333	228.821429	232.000000
##	5222	2005-03-02	3.0784444	24.98248	7.2444444	2.250000	3.250000
##	5223	2005-03-03	3.4575556	24.88142	7.3535556	171.000000	301.000000
##	5224	2005-03-04	3.8366667	24.78037	7.4626667	14.000000	4.000000
##	5225	2005-03-05	4.2157778	24.67931	7.5717778	334.928571	1133.392857
##	5226	2005-03-06	4.2342222	24.71048	7.4556296	4.500000	9.500000
##	5227	2005-03-07	4.2526667	24.74165	7.3394815	6.000000	41.200000
##	5228	2005-03-08	4.2711111	24.77282	7.2233333	4.285714	3.428571

##	5229	2005-03-09	3.1306667	24.87111	7.4506667	2.000000	2.000000
##	5230	2005-03-10	1.9902222	24.96940	7.6780000	2.000000	2.933333
##	5231	2005-03-11	0.6885455	25.06769	6.0690909	36.151515	162.000000
##	5232	2005-03-12	1.6223810	24.41833	7.2323810	8.600000	19.750000
##	5233	2005-03-13	0.7379545	24.79030	6.4093182	23.409091	300.000000
##	5234	2005-03-14	2.4375000	24.19239	7.8683333	2.000000	2.000000
##	5235	2005-03-15	3.0040000	24.12740	8.0486667	14.076923	13.615385
##	5236	2005-03-16	2.2751515	24.40579	7.7236364	2.000000	2.827586
##	5237	2005-03-17	2.2177778	24.44864	7.8020000	2.000000	4.222222
##	5238	2005-03-18	2.4280000	24.70769	7.6528889	2.177778	2.888889
##	5239	2005-03-19	2.2462222	24.45642	7.6980000	43.818182	63.818182
##	5240	2005-03-20	2.0644444	24.20516	7.7431111	7.750000	8.750000
##	5241	2005-03-21	1.8826667	23.95389	7.7882222	6.875000	7.000000
##	5242	2005-03-22	2.1178519	24.04459	7.7838519	6.000000	5.250000
##	5243	2005-03-23	2.3530370	24.13530	7.7794815	5.666667	10.666667
##	5244	2005-03-24	2.5882222	24.22600	7.7751111	2.000000	2.000000
##	5245	2005-03-25	2.4355556	24.28564	7.6751852	72.181818	56.909091
##	5246	2005-03-26	2.2828889	24.34529	7.5752593	5.750000	6.000000
##	5247	2005-03-27	2.1302222	24.40493	7.4753333	2.400000	2.000000
##	5248	2005-03-28	1.9334815	24.27907	7.4620741	81.090909	87.454545
##	5249	2005-03-29	1.7367407	24.15321	7.4488148	3.500000	3.250000
##	5250	2005-03-30	1.5400000	24.02736	7.4355556	2.088889	2.044444
##	5251	2005-03-31	1.8810370	24.02499	7.5029630	60.363636	159.454545
##	5252	2005-04-01	2.2220741	24.02263	7.5703704	5.250000	8.250000
##	5253	2005-04-02	2.5631111	24.02027	7.6377778	2.888889	3.111111
##	5254	2005-04-03	2.4945000	24.12034	7.4689444	10.909091	23.272727
##	5255	2005-04-04	2.4258889	24.22041	7.3001111	20.750000	12.750000
##	5256	2005-04-05	2.3572778	24.32048	7.1312778	6.000000	36.107143
##	5257	2005-04-06	2.2886667	24.42056	6.9624444	16.285714	59.464286
##	5258	2005-04-07	2.2401111	24.41943	6.9076667	8.000000	11.250000
##	5259	2005-04-08	2.1915556	24.41831	6.8528889	23.750000	127.714286
##	5260	2005-04-09	2.2665926	24.46699	6.6917778	2.000000	13.000000
##	5261	2005-04-10	2.3416296	24.51567	6.5306667	96.181818	160.000000
##	5262	2005-04-11	2.4166667	24.56436	6.3695556	2.679245	2.905660
##	5263	2005-04-12	2.4013333	24.33871	7.3844444	3.466667	2.133333
##	5264	2005-04-13	2.3212121	24.48833	7.4612121	199.437500	375.000000
##	5265	2005-04-14	2.1536111	24.52733	7.3055556	2.571429	4.400000
##	5266	2005-04-15	2.2730000	24.47840	7.1166667	2.000000	2.533333
##	5267	2005-04-16	0.4369091	25.31507	5.5134545	255.696970	3091.636364
##	5268	2005-04-17	1.3846667	24.93460	6.3291111	2.977778	75.866667
##	5269	2005-04-18	1.2192857	24.99979	6.4038095	13.102525	78.727273
##	5270	2005-04-19	0.8434091	25.13355	6.1245455	23.227273	44.363636
##	5271	2005-04-20	1.5941490	25.04926	6.5379394	14.274351	10.000000
##	5272	2005-04-21	2.3448889	24.96498	6.9513333	5.321429	5.928571
##	5273	2005-04-22	2.3018889	24.98251	6.8314444	4.000000	3.250000
##	5274	2005-04-23	2.2588889	25.00004	6.7115556	2.188679	2.264151
##	5275	2005-04-24	1.9267778	25.00590	6.6647778	1094.909091	1095.272727
##	5276	2005-04-25	1.5946667	25.01176	6.6180000	3.714286	4.321429
##	5277	2005-04-26	1.9276667	24.98227	7.0231111	14.500000	18.250000
##	5278	2005-04-27	2.2606667	24.95278	7.4282222	2.000000	2.133333
##	5279	2005-04-28	2.1171852	24.90598	7.4426667	1100.727273	1105.454545
##	5280	2005-04-29	1.9737037	24.85918	7.4571111	28.250000	20.000000
##	5281	2005-04-30	1.8302222	24.81238	7.4715556	119.535714	167.250000
##	5282	2005-05-01	1.9610000	24.92278	7.2574444	3.500000	4.750000

##	5283	2005-05-02	2.0917778	25.03318	7.0433333	2.044444	2.044444
##	5284	2005-05-03	2.1073333	25.02741	7.1841481	1114.909091	1312.363636
##	5285	2005-05-04	2.1228889	25.02164	7.3249630	2.250000	6.750000
##	5286	2005-05-05	2.1384444	25.01587	7.4657778	2.622222	4.800000
##	5287	2005-05-06	2.0129024	25.05568	7.2382458	420.363636	404.909091
##	5288	2005-05-07	1.8873603	25.09549	7.0107138	4.000000	11.500000
##	5289	2005-05-08	1.7618182	25.13530	6.7831818	424.428571	1080.357143
##	5290	2005-05-09	1.8669966	25.14114	6.8376515	3.750000	3.250000
##	5291	2005-05-10	1.9721751	25.14697	6.8921212	8933.333333	10933.333333
##	5292	2005-05-11	2.0773535	25.15281	6.9465909	8466.666667	10800.000000
##	5293	2005-05-12	2.1825320	25.15865	7.0010606	5033.333333	7733.333333
##	5294	2005-05-13	2.2877104	25.16449	7.0555303	457.090909	854.000000
##	5295	2005-05-14	2.3928889	25.17033	7.1100000	27.320755	159.245283
##	5296	2005-05-15	2.2572222	25.07266	7.3724444	78.000000	180.000000
##	5297	2005-05-16	2.1215556	24.97498	7.6348889	87.535714	204.250000
##	5298	2005-05-17	1.8431111	25.00107	7.5085185	2.250000	3.000000
##	5299	2005-05-18	1.5646667	25.02717	7.3821481	1431.272727	1423.636364
##	5300	2005-05-19	1.2862222	25.05327	7.2557778	67.169811	141.811321
##	5301	2005-05-20	1.8465185	25.00910	7.4121481	610.000000	2020.000000
##	5302	2005-05-21	2.4068148	24.96494	7.5685185	1650.000000	2470.000000
##	5303	2005-05-22	2.9671111	24.92078	7.7248889	338.042553	627.829787
##	5304	2005-05-23	2.8844444	24.93307	7.6785333	1904.181818	3080.181818
##	5305	2005-05-24	2.8017778	24.94536	7.6321778	4.000000	4.250000
##	5306	2005-05-25	2.7191111	24.95764	7.5858222	10600.000000	12000.000000
##	5307	2005-05-26	2.6364444	24.96993	7.5394667	600.000000	2100.000000
##	5308	2005-05-27	2.5537778	24.98222	7.4931111	335.404255	493.063830
##	5309	2005-05-28	2.2015152	25.06670	7.3787879	778.625000	825.187500
##	5310	2005-05-29	1.4397222	25.07061	7.2658333	17.885714	56.342857
##	5311	2005-05-30	2.8610000	25.03423	7.7486667	32.526316	143.473684
##	5312	2005-05-31	2.9914222	25.03609	7.6680889	446.000000	2120.000000
##	5313	2005-06-01	3.1218444	25.03795	7.5875111	3200.000000	10000.000000
##	5314	2005-06-02	3.2522667	25.03981	7.5069333	2855.272727	5629.818182
##	5315	2005-06-03	3.3826889	25.04167	7.4263556	2.250000	2.750000
##	5316	2005-06-04	3.5131111	25.04353	7.3457778	408.640000	840.200000
##	5317	2005-06-05	2.7317778	25.18136	6.7551111	5266.666667	12000.000000
##	5318	2005-06-06	1.9504444	25.31918	6.1644444	545.916667	580.666667
##	5319	2005-06-07	0.6318182	25.76440	5.0676364	318.363636	2761.454545
##	5320	2005-06-08	1.2340476	25.43707	6.1380952	12.840000	9.750000
##	5321	2005-06-09	0.8427273	25.60580	5.4495455	57.416667	1698.000000
##	5322	2005-06-10	1.1541145	25.43060	6.0999933	220.000000	60.000000
##	5323	2005-06-11	1.4655017	25.25541	6.7504411	9.000000	32.821429
##	5324	2005-06-12	1.7768889	25.08022	7.4008889	3.214286	5.642857
##	5325	2005-06-13	2.6173333	24.98057	7.8320000	2.500000	5.000000
##	5326	2005-06-14	3.4577778	24.88091	8.2631111	14.444444	319.022222
##	5327	2005-06-15	3.2765000	24.95883	7.9461667	1444.727273	2529.272727
##	5328	2005-06-16	3.0952222	25.03674	7.6292222	2.750000	9.500000
##	5329	2005-06-17	2.9139444	25.11465	7.3122778	12000.000000	8100.000000
##	5330	2005-06-18	2.7326667	25.19257	6.9953333	950.000000	6055.000000
##	5331	2005-06-19	2.5513889	25.27048	6.6783889	12000.000000	12000.000000
##	5332	2005-06-20	2.3701111	25.34839	6.3614444	3624.000000	3537.272727
##	5333	2005-06-21	2.1888333	25.42631	6.0445000	2.500000	2.250000
##	5334	2005-06-22	2.0075556	25.50422	5.7275556	507.333333	1028.750000
##	5335	2005-06-23	2.4940556	25.50934	5.9170000	11133.333333	12000.000000
##	5336	2005-06-24	2.9805556	25.51447	6.1064444	8800.000000	9333.333333

## 5337	2005-06-25	3.4670556	25.51959	6.2958889	3351.454545	3415.272727
## 5338	2005-06-26	3.9535556	25.52471	6.4853333	3.924528	4.867925
## 5339	2005-06-27	3.4544889	25.47149	6.5401333	4036.666667	4063.333333
## 5340	2005-06-28	2.9554222	25.41828	6.5949333	620.000000	2800.000000
## 5341	2005-06-29	2.4563556	25.36506	6.6497333	4400.000000	4200.000000
## 5342	2005-06-30	1.9572889	25.31184	6.7045333	1607.090909	2396.181818
## 5343	2005-07-01	1.4582222	25.25862	6.7593333	706.474576	691.118644
## 5344	2005-07-02	1.7529630	25.23615	6.7722963	7203.200000	7208.000000
## 5345	2005-07-03	2.0477037	25.21367	6.7852593	9800.000000	9266.666667
## 5346	2005-07-04	2.3424444	25.19120	6.7982222	260.142857	371.571429
## 5347	2005-07-05	2.5396889	25.15709	6.8743111	2.250000	2.000000
## 5348	2005-07-06	2.7369333	25.12299	6.9504000	4018.000000	4010.000000
## 5349	2005-07-07	2.9341778	25.08888	7.0264889	340.000000	1100.000000
## 5350	2005-07-08	3.1314222	25.05477	7.1025778	12000.000000	12000.000000
## 5351	2005-07-09	3.3286667	25.02067	7.1786667	1100.307692	1093.923077
## 5352	2005-07-10	3.7330000	25.01598	7.1710000	2.250000	2.750000
## 5353	2005-07-11	4.1373333	25.01130	7.1633333	743.176471	380.750000
## 5354	2005-07-12	3.6331852	25.07826	6.9723704	4001.333333	12000.000000
## 5355	2005-07-13	3.1290370	25.14522	6.7814074	12000.000000	6200.000000
## 5356	2005-07-14	2.6248889	25.21218	6.5904444	138.535714	92.750000
## 5357	2005-07-15	2.5791852	25.28227	6.4755556	2.250000	5.250000
## 5358	2005-07-16	2.5334815	25.35236	6.3606667	14.000000	49.107143
## 5359	2005-07-17	2.4877778	25.42244	6.2457778	31.892857	92.964286
## 5360	2005-07-18	3.9761111	25.13313	7.1451111	6.750000	4.000000
## 5361	2005-07-19	5.4644444	24.84382	8.0444444	43.777778	51.644444
## 5362	2005-07-20	4.2451515	25.15761	7.4924242	248.812500	197.625000
## 5363	2005-07-21	6.0086667	25.06167	8.1376667	2.608696	2.956522
## 5364	2005-07-22	4.0280556	25.16233	7.3477778	2.296296	2.148148
## 5365	2005-07-23	4.5104444	24.64018	8.6591111	3.866667	2.844444
## 5366	2005-07-24	0.9443636	25.52529	6.0703636	60.757576	120.909091
## 5367	2005-07-25	2.4723810	25.09933	7.4511905	2.520000	2.500000
## 5368	2005-07-26	1.1788636	25.34666	6.5170455	48.227273	34.696429
## 5369	2005-07-27	2.3026667	25.06709	6.8075556	81.285714	66.892857
## 5370	2005-07-28	2.2265000	25.05334	6.8456111	5.000000	5.250000
## 5371	2005-07-29	2.1503333	25.03959	6.8836667	16.181818	41.818182
## 5372	2005-07-30	2.0741667	25.02584	6.9217222	4.500000	15.000000
## 5373	2005-07-31	1.9980000	25.01209	6.9597778	3.066667	3.955556
## 5374	2005-08-01	2.8008889	24.69678	8.1275556	9.892857	12.500000
## 5375	2005-08-02	3.6085556	24.53961	8.7396667	2.000000	3.500000
## 5376	2005-08-03	4.4162222	24.38244	9.3517778	84.285714	72.678571
## 5377	2005-08-04	3.9209630	24.54143	8.6138519	2.250000	2.500000
## 5378	2005-08-05	3.4257037	24.70041	7.8759259	4.000000	13.785714
## 5379	2005-08-06	2.9304444	24.85940	7.1380000	23.178571	25.071429
## 5380	2005-08-07	3.0667778	24.59592	7.3383333	2.500000	3.750000
## 5381	2005-08-08	3.2031111	24.33244	7.5386667	17.821429	9.500000
## 5382	2005-08-09	2.8324444	24.36129	7.6621111	5.000000	6.500000
## 5383	2005-08-10	2.4617778	24.39013	7.7855556	4.857143	5.178571
## 5384	2005-08-11	2.2948889	24.41798	7.8504444	3.750000	4.250000
## 5385	2005-08-12	2.1280000	24.44582	7.9153333	2.000000	2.821429
## 5386	2005-08-13	1.6780000	24.28167	7.8190000	7.000000	3.750000
## 5387	2005-08-14	1.2280000	24.11751	7.7226667	2.000000	2.088889
## 5388	2005-08-15	1.4674815	24.25520	7.8465926	12.000000	6.750000
## 5389	2005-08-16	1.7069630	24.39289	7.9705185	65.636364	84.909091
## 5390	2005-08-17	1.9464444	24.53058	8.0944444	2.000000	2.113208

##	5391	2005-08-18	3.8311111	24.43164	7.9057778	2.000000	2.088889
##	5392	2005-08-19	3.5630370	24.65559	7.6960000	10.545455	131.454545
##	5393	2005-08-20	3.2949630	24.87953	7.4862222	3.500000	15.500000
##	5394	2005-08-21	3.0268889	25.10347	7.2764444	2.000000	2.000000
##	5395	2005-08-22	2.7260606	25.12761	7.0927273	11.562500	24.125000
##	5396	2005-08-23	4.0522222	25.20758	7.0911111	3.085714	3.314286
##	5397	2005-08-24	5.0553333	25.19903	7.2390000	2.000000	2.000000
##	5398	2005-08-25	2.8675556	24.46100	8.3913333	8.888889	4.622222
##	5399	2005-08-26	1.1496364	25.27269	5.8850909	53.909091	9.818182
##	5400	2005-08-27	1.8444186	24.86379	7.0762791	8.240000	38.750000
##	5401	2005-08-28	1.0445455	25.16955	6.0215909	74.454545	36.238095
##	5402	2005-08-29	1.7211616	24.64873	7.1031288	14.000000	33.726190
##	5403	2005-08-30	2.3977778	24.12791	8.1846667	4.535714	31.214286
##	5404	2005-08-31	2.6057778	24.39237	7.7740000	3.250000	3.250000
##	5405	2005-09-01	2.8137778	24.65682	7.3633333	18.714286	84.535714
##	5406	2005-09-02	2.9372222	24.72782	7.5260000	2.250000	3.000000
##	5407	2005-09-03	3.0606667	24.79882	7.6886667	10.785714	8.678571
##	5408	2005-09-04	2.5212222	24.60022	7.7406667	3.000000	2.750000
##	5409	2005-09-05	1.9817778	24.40162	7.7926667	366.071429	138.964286
##	5410	2005-09-06	1.6733333	24.55507	7.4675556	7.250000	4.500000
##	5411	2005-09-07	1.3648889	24.70851	7.1424444	2.044444	2.000000
##	5412	2005-09-08	1.4563889	24.69992	7.3608889	56.181818	37.090909
##	5413	2005-09-09	1.5478889	24.69132	7.5793333	2.250000	2.250000
##	5414	2005-09-10	1.6393889	24.68273	7.7977778	166.181818	111.090909
##	5415	2005-09-11	1.7308889	24.67413	8.0162222	2.226415	4.377358
##	5416	2005-09-12	3.6862222	24.50947	7.9128889	77.571429	79.285714
##	5417	2005-09-13	3.0314444	24.48493	7.8678889	2.000000	3.250000
##	5418	2005-09-14	2.3766667	24.46040	7.8228889	2.088889	2.066667
##	5419	2005-09-15	2.2282963	24.47993	7.7065926	940.363636	1140.545455
##	5420	2005-09-16	2.0799259	24.49947	7.5902963	15.250000	15.250000
##	5421	2005-09-17	1.9315556	24.51900	7.4740000	2.000000	2.488889
##	5422	2005-09-18	1.8128889	24.53472	7.4893333	37.090909	73.272727
##	5423	2005-09-19	1.6942222	24.55043	7.5046667	2.000000	3.500000
##	5424	2005-09-20	1.5755556	24.56615	7.5200000	15.818182	14.727273
##	5425	2005-09-21	1.4568889	24.58187	7.5353333	3.396226	2.339623
##	5426	2005-09-22	1.4320000	24.73480	7.1941111	103.818182	171.636364
##	5427	2005-09-23	1.4071111	24.88773	6.8528889	3.924528	10.679245
##	5428	2005-09-24	2.2462222	24.62031	7.4717778	6.490566	4.075472
##	5429	2005-09-25	1.5960000	24.84630	7.1513333	5.565217	4.347826
##	5430	2005-09-26	1.1083333	24.79314	7.1611111	2.222222	2.592593
##	5431	2005-09-27	1.2021212	24.72279	7.2769697	2.285714	2.857143
##	5432	2005-09-28	1.3906667	24.65613	7.3815556	3.245283	2.716981
##	5433	2005-09-29	0.6169091	25.15278	5.9663636	37.424242	63.636364
##	5434	2005-09-30	0.9950000	24.90671	6.8864286	4.523810	43.364719
##	5435	2005-10-01	0.6561364	25.12484	6.1713636	62.090909	23.093074
##	5436	2005-10-02	2.1324444	24.56878	7.9331111	3.535714	2.821429
##	5437	2005-10-03	1.9108889	24.67141	7.6784444	4.000000	4.500000
##	5438	2005-10-04	1.6893333	24.77404	7.4237778	2.113208	2.641509
##	5439	2005-10-05	1.9208889	24.69307	7.7282222	14.545455	13.272727
##	5440	2005-10-06	2.1524444	24.61209	8.0326667	19.000000	21.750000
##	5441	2005-10-07	1.7639259	24.61350	7.8335556	10.000000	5.500000
##	5442	2005-10-08	1.3754074	24.61492	7.6344444	1905.272727	2356.363636
##	5443	2005-10-09	0.9868889	24.61633	7.4353333	15.849057	12.641509
##	5444	2005-10-10	0.9043333	24.68802	7.3908889	173.000000	48.500000

## 5445	2005-10-11	0.8217778	24.75971	7.3464444	10.916667	42.222222
## 5446	2005-10-12	1.5595556	24.93376	7.0766667	92.250000	152.392857
## 5447	2005-10-13	1.5875556	24.83102	7.3957778	14.750000	5.750000
## 5448	2005-10-14	1.6155556	24.72829	7.7148889	125.644444	288.711111
## 5449	2005-10-15	1.6155556	24.72829	7.7148889	3616.363636	4477.818182
## 5450	2005-10-16	1.6155556	24.72829	7.7148889	4.500000	5.000000
## 5451	2005-10-17	NA	NA	NA	NA	NA
## 5452	2005-10-18	NA	NA	NA	NA	NA
## 5453	2005-10-19	NA	NA	NA	NA	NA
## 5454	2005-10-20	NA	NA	NA	NA	NA
## 5455	2005-10-21	NA	NA	NA	NA	NA
## 5456	2005-10-22	NA	NA	NA	NA	NA
## 5457	2005-10-23	NA	NA	NA	NA	NA
## 5458	2005-10-24	NA	NA	NA	NA	NA
## 5459	2005-10-25	NA	NA	NA	NA	NA
## 5460	2005-10-26	NA	NA	NA	NA	NA
## 5461	2005-10-27	NA	NA	NA	NA	NA
## 5462	2005-10-28	NA	NA	NA	NA	NA
## 5463	2005-10-29	NA	NA	NA	NA	NA
## 5464	2005-10-30	NA	NA	NA	NA	NA
## 5465	2005-10-31	NA	NA	NA	NA	NA
## 5466	2005-11-01	NA	NA	NA	NA	NA
## 5467	2005-11-02	NA	NA	NA	NA	NA
## 5468	2005-11-03	NA	NA	NA	NA	NA
## 5469	2005-11-04	NA	NA	NA	NA	NA
## 5470	2005-11-05	NA	NA	NA	NA	NA
## 5471	2005-11-06	NA	NA	NA	NA	NA
## 5472	2005-11-07	NA	NA	NA	NA	NA
## 5473	2005-11-08	NA	NA	NA	NA	NA
## 5474	2005-11-09	NA	NA	NA	NA	NA
## 5475	2005-11-10	NA	NA	NA	NA	NA
## 5476	2005-11-11	NA	NA	NA	NA	NA
## 5477	2005-11-12	NA	NA	NA	NA	NA
## 5478	2005-11-13	NA	NA	NA	NA	NA
## 5479	2005-11-14	NA	NA	NA	NA	NA
## 5480	2005-11-15	NA	NA	NA	NA	NA
## 5481	2005-11-16	NA	NA	NA	NA	NA
## 5482	2005-11-17	NA	NA	NA	NA	NA
## 5483	2005-11-18	NA	NA	NA	NA	NA
## 5484	2005-11-19	NA	NA	NA	NA	NA
## 5485	2005-11-20	NA	NA	NA	NA	NA
## 5486	2005-11-21	NA	NA	NA	NA	NA
## 5487	2005-11-22	NA	NA	NA	NA	NA
## 5488	2005-11-23	NA	NA	NA	NA	NA
## 5489	2005-11-24	NA	NA	NA	NA	NA
## 5490	2005-11-25	NA	NA	NA	NA	NA
## 5491	2005-11-26	NA	NA	NA	NA	NA
## 5492	2005-11-27	NA	NA	NA	NA	NA
## 5493	2005-11-28	NA	NA	NA	NA	NA
## 5494	2005-11-29	NA	NA	NA	NA	NA
## 5495	2005-11-30	NA	NA	NA	NA	NA
## 5496	2005-12-01	NA	NA	NA	NA	NA
## 5497	2005-12-02	NA	NA	NA	NA	NA
## 5498	2005-12-03	NA	NA	NA	NA	NA

## 5499	2005-12-04	NA	NA	NA	NA	NA
## 5500	2005-12-05	NA	NA	NA	NA	NA
## 5501	2005-12-06	NA	NA	NA	NA	NA
## 5502	2005-12-07	NA	NA	NA	NA	NA
## 5503	2005-12-08	NA	NA	NA	NA	NA
## 5504	2005-12-09	NA	NA	NA	NA	NA
## 5505	2005-12-10	NA	NA	NA	NA	NA
## 5506	2005-12-11	NA	NA	NA	NA	NA
## 5507	2005-12-12	NA	NA	NA	NA	NA
## 5508	2005-12-13	NA	NA	NA	NA	NA
## 5509	2005-12-14	NA	NA	NA	NA	NA
## 5510	2005-12-15	NA	NA	NA	NA	NA
## 5511	2005-12-16	NA	NA	NA	NA	NA
## 5512	2005-12-17	NA	NA	NA	NA	NA
## 5513	2005-12-18	NA	NA	NA	NA	NA
## 5514	2005-12-19	NA	NA	NA	NA	NA
## 5515	2005-12-20	NA	NA	NA	NA	NA
## 5516	2005-12-21	NA	NA	NA	NA	NA
## 5517	2005-12-22	NA	NA	NA	NA	NA
## 5518	2005-12-23	NA	NA	NA	NA	NA
## 5519	2005-12-24	NA	NA	NA	NA	NA
## 5520	2005-12-25	NA	NA	NA	NA	NA
## 5521	2005-12-26	NA	NA	NA	NA	NA
## 5522	2005-12-27	NA	NA	NA	NA	NA
## 5523	2005-12-28	NA	NA	NA	NA	NA
## 5524	2005-12-29	NA	NA	NA	NA	NA
## 5525	2005-12-30	NA	NA	NA	NA	NA
## 5526	2005-12-31	NA	NA	NA	NA	NA
## 5527	2006-01-01	NA	NA	NA	NA	NA
## 5528	2006-01-02	NA	NA	NA	NA	NA
## 5529	2006-01-03	NA	NA	NA	NA	NA
## 5530	2006-01-04	NA	NA	NA	NA	NA
## 5531	2006-01-05	NA	NA	NA	NA	NA
## 5532	2006-01-06	NA	NA	NA	NA	NA
## 5533	2006-01-07	NA	NA	NA	NA	NA
## 5534	2006-01-08	NA	NA	NA	NA	NA
## 5535	2006-01-09	NA	NA	NA	NA	NA
## 5536	2006-01-10	NA	NA	NA	NA	NA
## 5537	2006-01-11	NA	NA	NA	NA	NA
## 5538	2006-01-12	NA	NA	NA	NA	NA
## 5539	2006-01-13	NA	NA	NA	NA	NA
## 5540	2006-01-14	NA	NA	NA	NA	NA
## 5541	2006-01-15	NA	NA	NA	NA	NA
## 5542	2006-01-16	NA	NA	NA	NA	NA
## 5543	2006-01-17	NA	NA	NA	NA	NA
## 5544	2006-01-18	NA	NA	NA	NA	NA
## 5545	2006-01-19	NA	NA	NA	NA	NA
## 5546	2006-01-20	NA	NA	NA	NA	NA
## 5547	2006-01-21	NA	NA	NA	NA	NA
## 5548	2006-01-22	NA	NA	NA	NA	NA
## 5549	2006-01-23	NA	NA	NA	NA	NA
## 5550	2006-01-24	NA	NA	NA	NA	NA
## 5551	2006-01-25	NA	NA	NA	NA	NA
## 5552	2006-01-26	NA	NA	NA	NA	NA

## 5553	2006-01-27	NA	NA	NA	NA	NA
## 5554	2006-01-28	NA	NA	NA	NA	NA
## 5555	2006-01-29	NA	NA	NA	NA	NA
## 5556	2006-01-30	NA	NA	NA	NA	NA
## 5557	2006-01-31	NA	NA	NA	NA	NA
## 5558	2006-02-01	NA	NA	NA	NA	NA
## 5559	2006-02-02	NA	NA	NA	NA	NA
## 5560	2006-02-03	NA	NA	NA	NA	NA
## 5561	2006-02-04	NA	NA	NA	NA	NA
## 5562	2006-02-05	NA	NA	NA	NA	NA
## 5563	2006-02-06	NA	NA	NA	NA	NA
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## 6340	2008-03-24	NA	NA	NA	NA	NA
## 6341	2008-03-25	NA	NA	NA	NA	NA
## 6342	2008-03-26	NA	NA	NA	NA	NA
## 6343	2008-03-27	NA	NA	NA	NA	NA
## 6344	2008-03-28	NA	NA	NA	NA	NA
## 6345	2008-03-29	NA	NA	NA	NA	NA
## 6346	2008-03-30	NA	NA	NA	NA	NA
## 6347	2008-03-31	NA	NA	NA	NA	NA
## 6348	2008-04-01	NA	NA	NA	NA	NA
## 6349	2008-04-02	NA	NA	NA	NA	NA
## 6350	2008-04-03	NA	NA	NA	NA	NA
## 6351	2008-04-04	NA	NA	NA	NA	NA
## 6352	2008-04-05	NA	NA	NA	NA	NA
## 6353	2008-04-06	NA	NA	NA	NA	NA
## 6354	2008-04-07	NA	NA	NA	NA	NA
## 6355	2008-04-08	NA	NA	NA	NA	NA
## 6356	2008-04-09	NA	NA	NA	NA	NA
## 6357	2008-04-10	NA	NA	NA	NA	NA
## 6358	2008-04-11	NA	NA	NA	NA	NA
## 6359	2008-04-12	NA	NA	NA	NA	NA
## 6360	2008-04-13	NA	NA	NA	NA	NA
## 6361	2008-04-14	NA	NA	NA	NA	NA
## 6362	2008-04-15	NA	NA	NA	NA	NA

## 6363	2008-04-16	NA	NA	NA	NA	NA
## 6364	2008-04-17	NA	NA	NA	NA	NA
## 6365	2008-04-18	NA	NA	NA	NA	NA
## 6366	2008-04-19	NA	NA	NA	NA	NA
## 6367	2008-04-20	NA	NA	NA	NA	NA
## 6368	2008-04-21	NA	NA	NA	NA	NA
## 6369	2008-04-22	NA	NA	NA	NA	NA
## 6370	2008-04-23	NA	NA	NA	NA	NA
## 6371	2008-04-24	NA	NA	NA	NA	NA
## 6372	2008-04-25	NA	NA	NA	NA	NA
## 6373	2008-04-26	NA	NA	NA	NA	NA
## 6374	2008-04-27	NA	NA	NA	NA	NA
## 6375	2008-04-28	NA	NA	NA	NA	NA
## 6376	2008-04-29	NA	NA	NA	NA	NA
## 6377	2008-04-30	NA	NA	NA	NA	NA
## 6378	2008-05-01	NA	NA	NA	NA	NA
## 6379	2008-05-02	NA	NA	NA	NA	NA
## 6380	2008-05-03	NA	NA	NA	NA	NA
## 6381	2008-05-04	NA	NA	NA	NA	NA
## 6382	2008-05-05	NA	NA	NA	NA	NA
## 6383	2008-05-06	NA	NA	NA	NA	NA
## 6384	2008-05-07	NA	NA	NA	NA	NA
## 6385	2008-05-08	NA	NA	NA	NA	NA
## 6386	2008-05-09	NA	NA	NA	NA	NA
## 6387	2008-05-10	NA	NA	NA	NA	NA
## 6388	2008-05-11	NA	NA	NA	NA	NA
## 6389	2008-05-12	NA	NA	NA	NA	NA
## 6390	2008-05-13	NA	NA	NA	NA	NA
## 6391	2008-05-14	NA	NA	NA	NA	NA
## 6392	2008-05-15	NA	NA	NA	NA	NA
## 6393	2008-05-16	NA	NA	NA	NA	NA
## 6394	2008-05-17	NA	NA	NA	NA	NA
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## 6397	2008-05-20	NA	NA	NA	NA	NA
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## 6399	2008-05-22	NA	NA	NA	NA	NA
## 6400	2008-05-23	NA	NA	NA	NA	NA
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## 6407	2008-05-30	NA	NA	NA	NA	NA
## 6408	2008-05-31	NA	NA	NA	NA	NA
## 6409	2008-06-01	NA	NA	NA	NA	NA
## 6410	2008-06-02	NA	NA	NA	NA	NA
## 6411	2008-06-03	NA	NA	NA	NA	NA
## 6412	2008-06-04	NA	NA	NA	NA	NA
## 6413	2008-06-05	NA	NA	NA	NA	NA
## 6414	2008-06-06	NA	NA	NA	NA	NA
## 6415	2008-06-07	NA	NA	NA	NA	NA
## 6416	2008-06-08	NA	NA	NA	NA	NA

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## 6421	2008-06-13	NA	NA	NA	NA	NA
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## 6423	2008-06-15	NA	NA	NA	NA	NA
## 6424	2008-06-16	NA	NA	NA	NA	NA
## 6425	2008-06-17	NA	NA	NA	NA	NA
## 6426	2008-06-18	NA	NA	NA	NA	NA
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## 6440	2008-07-02	NA	NA	NA	NA	NA
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## 6445	2008-07-07	NA	NA	NA	NA	NA
## 6446	2008-07-08	NA	NA	NA	NA	NA
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## 6460	2008-07-22	NA	NA	NA	NA	NA
## 6461	2008-07-23	NA	NA	NA	NA	NA
## 6462	2008-07-24	NA	NA	NA	NA	NA
## 6463	2008-07-25	NA	NA	NA	NA	NA
## 6464	2008-07-26	NA	NA	NA	NA	NA
## 6465	2008-07-27	NA	NA	NA	NA	NA
## 6466	2008-07-28	NA	NA	NA	NA	NA
## 6467	2008-07-29	NA	NA	NA	NA	NA
## 6468	2008-07-30	NA	NA	NA	NA	NA
## 6469	2008-07-31	NA	NA	NA	NA	NA
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## 6475	2008-08-06	NA	NA	NA	NA	NA
## 6476	2008-08-07	NA	NA	NA	NA	NA
## 6477	2008-08-08	NA	NA	NA	NA	NA
## 6478	2008-08-09	NA	NA	NA	NA	NA
## 6479	2008-08-10	NA	NA	NA	NA	NA
## 6480	2008-08-11	NA	NA	NA	NA	NA
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## 6484	2008-08-15	NA	NA	NA	NA	NA
## 6485	2008-08-16	NA	NA	NA	NA	NA
## 6486	2008-08-17	NA	NA	NA	NA	NA
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## 6489	2008-08-20	NA	NA	NA	NA	NA
## 6490	2008-08-21	NA	NA	NA	NA	NA
## 6491	2008-08-22	NA	NA	NA	NA	NA
## 6492	2008-08-23	NA	NA	NA	NA	NA
## 6493	2008-08-24	NA	NA	NA	NA	NA
## 6494	2008-08-25	NA	NA	NA	NA	NA
## 6495	2008-08-26	NA	NA	NA	NA	NA
## 6496	2008-08-27	NA	NA	NA	NA	NA
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## 6498	2008-08-29	NA	NA	NA	NA	NA
## 6499	2008-08-30	NA	NA	NA	NA	NA
## 6500	2008-08-31	NA	NA	NA	NA	NA
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## 6502	2008-09-02	NA	NA	NA	NA	NA
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## 6504	2008-09-04	NA	NA	NA	NA	NA
## 6505	2008-09-05	NA	NA	NA	NA	NA
## 6506	2008-09-06	NA	NA	NA	NA	NA
## 6507	2008-09-07	NA	NA	NA	NA	NA
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## 6511	2008-09-11	NA	NA	NA	NA	NA
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## 6514	2008-09-14	NA	NA	NA	NA	NA
## 6515	2008-09-15	NA	NA	NA	NA	NA
## 6516	2008-09-16	NA	NA	NA	NA	NA
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## 6518	2008-09-18	NA	NA	NA	NA	NA
## 6519	2008-09-19	NA	NA	NA	NA	NA
## 6520	2008-09-20	NA	NA	NA	NA	NA
## 6521	2008-09-21	NA	NA	NA	NA	NA
## 6522	2008-09-22	NA	NA	NA	NA	NA
## 6523	2008-09-23	NA	NA	NA	NA	NA
## 6524	2008-09-24	NA	NA	NA	NA	NA

## 6525	2008-09-25	NA	NA	NA	NA	NA
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## 6527	2008-09-27	NA	NA	NA	NA	NA
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## 6529	2008-09-29	NA	NA	NA	NA	NA
## 6530	2008-09-30	NA	NA	NA	NA	NA
## 6531	2008-10-01	NA	NA	NA	NA	NA
## 6532	2008-10-02	NA	NA	NA	NA	NA
## 6533	2008-10-03	NA	NA	NA	NA	NA
## 6534	2008-10-04	NA	NA	NA	NA	NA
## 6535	2008-10-05	NA	NA	NA	NA	NA
## 6536	2008-10-06	NA	NA	NA	NA	NA
## 6537	2008-10-07	NA	NA	NA	NA	NA
## 6538	2008-10-08	NA	NA	NA	NA	NA
## 6539	2008-10-09	NA	NA	NA	NA	NA
## 6540	2008-10-10	NA	NA	NA	NA	NA
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## 6542	2008-10-12	NA	NA	NA	NA	NA
## 6543	2008-10-13	NA	NA	NA	NA	NA
## 6544	2008-10-14	NA	NA	NA	NA	NA
## 6545	2008-10-15	NA	NA	NA	NA	NA
## 6546	2008-10-16	NA	NA	NA	NA	NA
## 6547	2008-10-17	NA	NA	NA	NA	NA
## 6548	2008-10-18	NA	NA	NA	NA	NA
## 6549	2008-10-19	NA	NA	NA	NA	NA
## 6550	2008-10-20	NA	NA	NA	NA	NA
## 6551	2008-10-21	NA	NA	NA	NA	NA
## 6552	2008-10-22	NA	NA	NA	NA	NA
## 6553	2008-10-23	NA	NA	NA	NA	NA
## 6554	2008-10-24	NA	NA	NA	NA	NA
## 6555	2008-10-25	NA	NA	NA	NA	NA
## 6556	2008-10-26	NA	NA	NA	NA	NA
## 6557	2008-10-27	NA	NA	NA	NA	NA
## 6558	2008-10-28	NA	NA	NA	NA	NA
## 6559	2008-10-29	NA	NA	NA	NA	NA
## 6560	2008-10-30	NA	NA	NA	NA	NA
## 6561	2008-10-31	NA	NA	NA	NA	NA
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## 6563	2008-11-02	NA	NA	NA	NA	NA
## 6564	2008-11-03	NA	NA	NA	NA	NA
## 6565	2008-11-04	NA	NA	NA	NA	NA
## 6566	2008-11-05	NA	NA	NA	NA	NA
## 6567	2008-11-06	NA	NA	NA	NA	NA
## 6568	2008-11-07	NA	NA	NA	NA	NA
## 6569	2008-11-08	NA	NA	NA	NA	NA
## 6570	2008-11-09	NA	NA	NA	NA	NA
## 6571	2008-11-10	NA	NA	NA	NA	NA
## 6572	2008-11-11	NA	NA	NA	NA	NA
## 6573	2008-11-12	NA	NA	NA	NA	NA
## 6574	2008-11-13	NA	NA	NA	NA	NA
## 6575	2008-11-14	NA	NA	NA	NA	NA
## 6576	2008-11-15	NA	NA	NA	NA	NA
## 6577	2008-11-16	NA	NA	NA	NA	NA
## 6578	2008-11-17	NA	NA	NA	NA	NA

## 6579	2008-11-18	NA	NA	NA	NA	NA
## 6580	2008-11-19	NA	NA	NA	NA	NA
## 6581	2008-11-20	NA	NA	NA	NA	NA
## 6582	2008-11-21	NA	NA	NA	NA	NA
## 6583	2008-11-22	NA	NA	NA	NA	NA
## 6584	2008-11-23	NA	NA	NA	NA	NA
## 6585	2008-11-24	NA	NA	NA	NA	NA
## 6586	2008-11-25	NA	NA	NA	NA	NA
## 6587	2008-11-26	NA	NA	NA	NA	NA
## 6588	2008-11-27	NA	NA	NA	NA	NA
## 6589	2008-11-28	NA	NA	NA	NA	NA
## 6590	2008-11-29	NA	NA	NA	NA	NA
## 6591	2008-11-30	NA	NA	NA	NA	NA
## 6592	2008-12-01	NA	NA	NA	NA	NA
## 6593	2008-12-02	NA	NA	NA	NA	NA
## 6594	2008-12-03	NA	NA	NA	NA	NA
## 6595	2008-12-04	NA	NA	NA	NA	NA
## 6596	2008-12-05	NA	NA	NA	NA	NA
## 6597	2008-12-06	NA	NA	NA	NA	NA
## 6598	2008-12-07	NA	NA	NA	NA	NA
## 6599	2008-12-08	NA	NA	NA	NA	NA
## 6600	2008-12-09	NA	NA	NA	NA	NA
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## 6604	2008-12-13	NA	NA	NA	NA	NA
## 6605	2008-12-14	NA	NA	NA	NA	NA
## 6606	2008-12-15	NA	NA	NA	NA	NA
## 6607	2008-12-16	NA	NA	NA	NA	NA
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## 6609	2008-12-18	NA	NA	NA	NA	NA
## 6610	2008-12-19	NA	NA	NA	NA	NA
## 6611	2008-12-20	NA	NA	NA	NA	NA
## 6612	2008-12-21	NA	NA	NA	NA	NA
## 6613	2008-12-22	NA	NA	NA	NA	NA
## 6614	2008-12-23	NA	NA	NA	NA	NA
## 6615	2008-12-24	NA	NA	NA	NA	NA
## 6616	2008-12-25	NA	NA	NA	NA	NA
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## 6619	2008-12-28	NA	NA	NA	NA	NA
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## 6624	2009-01-02	NA	NA	NA	NA	NA
## 6625	2009-01-03	NA	NA	NA	NA	NA
## 6626	2009-01-04	NA	NA	NA	NA	NA
## 6627	2009-01-05	NA	NA	NA	NA	NA
## 6628	2009-01-06	NA	NA	NA	NA	NA
## 6629	2009-01-07	NA	NA	NA	NA	NA
## 6630	2009-01-08	NA	NA	NA	NA	NA
## 6631	2009-01-09	NA	NA	NA	NA	NA
## 6632	2009-01-10	NA	NA	NA	NA	NA

## 6633	2009-01-11	NA	NA	NA	NA	NA
## 6634	2009-01-12	NA	NA	NA	NA	NA
## 6635	2009-01-13	NA	NA	NA	NA	NA
## 6636	2009-01-14	NA	NA	NA	NA	NA
## 6637	2009-01-15	NA	NA	NA	NA	NA
## 6638	2009-01-16	NA	NA	NA	NA	NA
## 6639	2009-01-17	NA	NA	NA	NA	NA
## 6640	2009-01-18	NA	NA	NA	NA	NA
## 6641	2009-01-19	NA	NA	NA	NA	NA
## 6642	2009-01-20	NA	NA	NA	NA	NA
## 6643	2009-01-21	NA	NA	NA	NA	NA
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## 6645	2009-01-23	NA	NA	NA	NA	NA
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## 6659	2009-02-06	NA	NA	NA	NA	NA
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## 6661	2009-02-08	NA	NA	NA	NA	NA
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## 6663	2009-02-10	NA	NA	NA	NA	NA
## 6664	2009-02-11	NA	NA	NA	NA	NA
## 6665	2009-02-12	NA	NA	NA	NA	NA
## 6666	2009-02-13	NA	NA	NA	NA	NA
## 6667	2009-02-14	NA	NA	NA	NA	NA
## 6668	2009-02-15	NA	NA	NA	NA	NA
## 6669	2009-02-16	NA	NA	NA	NA	NA
## 6670	2009-02-17	NA	NA	NA	NA	NA
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## 6672	2009-02-19	NA	NA	NA	NA	NA
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## 6677	2009-02-24	NA	NA	NA	NA	NA
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## 6679	2009-02-26	NA	NA	NA	NA	NA
## 6680	2009-02-27	NA	NA	NA	NA	NA
## 6681	2009-02-28	NA	NA	NA	NA	NA
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## 6685	2009-03-04	NA	NA	NA	NA	NA
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## 6691	2009-03-10	NA	NA	NA	NA	NA
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## 6704	2009-03-23	NA	NA	NA	NA	NA
## 6705	2009-03-24	NA	NA	NA	NA	NA
## 6706	2009-03-25	NA	NA	NA	NA	NA
## 6707	2009-03-26	NA	NA	NA	NA	NA
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## 6709	2009-03-28	NA	NA	NA	NA	NA
## 6710	2009-03-29	NA	NA	NA	NA	NA
## 6711	2009-03-30	NA	NA	NA	NA	NA
## 6712	2009-03-31	NA	NA	NA	NA	NA
## 6713	2009-04-01	NA	NA	NA	NA	NA
## 6714	2009-04-02	NA	NA	NA	NA	NA
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## 6722	2009-04-10	NA	NA	NA	NA	NA
## 6723	2009-04-11	NA	NA	NA	NA	NA
## 6724	2009-04-12	NA	NA	NA	NA	NA
## 6725	2009-04-13	NA	NA	NA	NA	NA
## 6726	2009-04-14	NA	NA	NA	NA	NA
## 6727	2009-04-15	NA	NA	NA	NA	NA
## 6728	2009-04-16	NA	NA	NA	NA	NA
## 6729	2009-04-17	NA	NA	NA	NA	NA
## 6730	2009-04-18	NA	NA	NA	NA	NA
## 6731	2009-04-19	NA	NA	NA	NA	NA
## 6732	2009-04-20	NA	NA	NA	NA	NA
## 6733	2009-04-21	NA	NA	NA	NA	NA
## 6734	2009-04-22	NA	NA	NA	NA	NA
## 6735	2009-04-23	NA	NA	NA	NA	NA
## 6736	2009-04-24	NA	NA	NA	NA	NA
## 6737	2009-04-25	NA	NA	NA	NA	NA
## 6738	2009-04-26	NA	NA	NA	NA	NA
## 6739	2009-04-27	NA	NA	NA	NA	NA
## 6740	2009-04-28	NA	NA	NA	NA	NA

## 6741	2009-04-29	NA	NA	NA	NA	NA
## 6742	2009-04-30	NA	NA	NA	NA	NA
## 6743	2009-05-01	NA	NA	NA	NA	NA
## 6744	2009-05-02	NA	NA	NA	NA	NA
## 6745	2009-05-03	NA	NA	NA	NA	NA
## 6746	2009-05-04	NA	NA	NA	NA	NA
## 6747	2009-05-05	NA	NA	NA	NA	NA
## 6748	2009-05-06	NA	NA	NA	NA	NA
## 6749	2009-05-07	NA	NA	NA	NA	NA
## 6750	2009-05-08	NA	NA	NA	NA	NA
## 6751	2009-05-09	NA	NA	NA	NA	NA
## 6752	2009-05-10	NA	NA	NA	NA	NA
## 6753	2009-05-11	NA	NA	NA	NA	NA
## 6754	2009-05-12	NA	NA	NA	NA	NA
## 6755	2009-05-13	NA	NA	NA	NA	NA
## 6756	2009-05-14	NA	NA	NA	NA	NA
## 6757	2009-05-15	NA	NA	NA	NA	NA
## 6758	2009-05-16	NA	NA	NA	NA	NA
## 6759	2009-05-17	NA	NA	NA	NA	NA
## 6760	2009-05-18	NA	NA	NA	NA	NA
## 6761	2009-05-19	NA	NA	NA	NA	NA
## 6762	2009-05-20	NA	NA	NA	NA	NA
## 6763	2009-05-21	NA	NA	NA	NA	NA
## 6764	2009-05-22	NA	NA	NA	NA	NA
## 6765	2009-05-23	NA	NA	NA	NA	NA
## 6766	2009-05-24	NA	NA	NA	NA	NA
## 6767	2009-05-25	NA	NA	NA	NA	NA
## 6768	2009-05-26	NA	NA	NA	NA	NA
## 6769	2009-05-27	NA	NA	NA	NA	NA
## 6770	2009-05-28	NA	NA	NA	NA	NA
## 6771	2009-05-29	NA	NA	NA	NA	NA
## 6772	2009-05-30	NA	NA	NA	NA	NA
## 6773	2009-05-31	NA	NA	NA	NA	NA
## 6774	2009-06-01	NA	NA	NA	NA	NA
## 6775	2009-06-02	NA	NA	NA	NA	NA
## 6776	2009-06-03	NA	NA	NA	NA	NA
## 6777	2009-06-04	NA	NA	NA	NA	NA
## 6778	2009-06-05	NA	NA	NA	NA	NA
## 6779	2009-06-06	NA	NA	NA	NA	NA
## 6780	2009-06-07	NA	NA	NA	NA	NA
## 6781	2009-06-08	NA	NA	NA	NA	NA
## 6782	2009-06-09	NA	NA	NA	NA	NA
## 6783	2009-06-10	NA	NA	NA	NA	NA
## 6784	2009-06-11	NA	NA	NA	NA	NA
## 6785	2009-06-12	NA	NA	NA	NA	NA
## 6786	2009-06-13	NA	NA	NA	NA	NA
## 6787	2009-06-14	NA	NA	NA	NA	NA
## 6788	2009-06-15	NA	NA	NA	NA	NA
## 6789	2009-06-16	NA	NA	NA	NA	NA
## 6790	2009-06-17	NA	NA	NA	NA	NA
## 6791	2009-06-18	NA	NA	NA	NA	NA
## 6792	2009-06-19	NA	NA	NA	NA	NA
## 6793	2009-06-20	NA	NA	NA	NA	NA
## 6794	2009-06-21	NA	NA	NA	NA	NA

## 6795	2009-06-22	NA	NA	NA	NA	NA
## 6796	2009-06-23	NA	NA	NA	NA	NA
## 6797	2009-06-24	NA	NA	NA	NA	NA
## 6798	2009-06-25	NA	NA	NA	NA	NA
## 6799	2009-06-26	NA	NA	NA	NA	NA
## 6800	2009-06-27	NA	NA	NA	NA	NA
## 6801	2009-06-28	NA	NA	NA	NA	NA
## 6802	2009-06-29	NA	NA	NA	NA	NA
## 6803	2009-06-30	NA	NA	NA	NA	NA
## 6804	2009-07-01	NA	NA	NA	NA	NA
## 6805	2009-07-02	NA	NA	NA	NA	NA
## 6806	2009-07-03	NA	NA	NA	NA	NA
## 6807	2009-07-04	NA	NA	NA	NA	NA
## 6808	2009-07-05	NA	NA	NA	NA	NA
## 6809	2009-07-06	NA	NA	NA	NA	NA
## 6810	2009-07-07	NA	NA	NA	NA	NA
## 6811	2009-07-08	NA	NA	NA	NA	NA
## 6812	2009-07-09	NA	NA	NA	NA	NA
## 6813	2009-07-10	NA	NA	NA	NA	NA
## 6814	2009-07-11	NA	NA	NA	NA	NA
## 6815	2009-07-12	NA	NA	NA	NA	NA
## 6816	2009-07-13	NA	NA	NA	NA	NA
## 6817	2009-07-14	NA	NA	NA	NA	NA
## 6818	2009-07-15	NA	NA	NA	NA	NA
## 6819	2009-07-16	NA	NA	NA	NA	NA
## 6820	2009-07-17	NA	NA	NA	NA	NA
## 6821	2009-07-18	NA	NA	NA	NA	NA
## 6822	2009-07-19	NA	NA	NA	NA	NA
## 6823	2009-07-20	NA	NA	NA	NA	NA
## 6824	2009-07-21	NA	NA	NA	NA	NA
## 6825	2009-07-22	NA	NA	NA	NA	NA
## 6826	2009-07-23	NA	NA	NA	NA	NA
## 6827	2009-07-24	NA	NA	NA	NA	NA
## 6828	2009-07-25	NA	NA	NA	NA	NA
## 6829	2009-07-26	NA	NA	NA	NA	NA
## 6830	2009-07-27	NA	NA	NA	NA	NA
## 6831	2009-07-28	NA	NA	NA	NA	NA
## 6832	2009-07-29	NA	NA	NA	NA	NA
## 6833	2009-07-30	NA	NA	NA	NA	NA
## 6834	2009-07-31	NA	NA	NA	NA	NA
## 6835	2009-08-01	NA	NA	NA	NA	NA
## 6836	2009-08-02	NA	NA	NA	NA	NA
## 6837	2009-08-03	NA	NA	NA	NA	NA
## 6838	2009-08-04	NA	NA	NA	NA	NA
## 6839	2009-08-05	NA	NA	NA	NA	NA
## 6840	2009-08-06	NA	NA	NA	NA	NA
## 6841	2009-08-07	NA	NA	NA	NA	NA
## 6842	2009-08-08	NA	NA	NA	NA	NA
## 6843	2009-08-09	NA	NA	NA	NA	NA
## 6844	2009-08-10	NA	NA	NA	NA	NA
## 6845	2009-08-11	NA	NA	NA	NA	NA
## 6846	2009-08-12	NA	NA	NA	NA	NA
## 6847	2009-08-13	NA	NA	NA	NA	NA
## 6848	2009-08-14	NA	NA	NA	NA	NA

## 6849	2009-08-15	NA	NA	NA	NA	NA
## 6850	2009-08-16	NA	NA	NA	NA	NA
## 6851	2009-08-17	NA	NA	NA	NA	NA
## 6852	2009-08-18	NA	NA	NA	NA	NA
## 6853	2009-08-19	NA	NA	NA	NA	NA
## 6854	2009-08-20	NA	NA	NA	NA	NA
## 6855	2009-08-21	NA	NA	NA	NA	NA
## 6856	2009-08-22	NA	NA	NA	NA	NA
## 6857	2009-08-23	NA	NA	NA	NA	NA
## 6858	2009-08-24	NA	NA	NA	NA	NA
## 6859	2009-08-25	NA	NA	NA	NA	NA
## 6860	2009-08-26	NA	NA	NA	NA	NA
## 6861	2009-08-27	NA	NA	NA	NA	NA
## 6862	2009-08-28	NA	NA	NA	NA	NA
## 6863	2009-08-29	NA	NA	NA	NA	NA
## 6864	2009-08-30	NA	NA	NA	NA	NA
## 6865	2009-08-31	NA	NA	NA	NA	NA
## 6866	2009-09-01	NA	NA	NA	NA	NA
## 6867	2009-09-02	NA	NA	NA	NA	NA
## 6868	2009-09-03	NA	NA	NA	NA	NA
## 6869	2009-09-04	NA	NA	NA	NA	NA
## 6870	2009-09-05	NA	NA	NA	NA	NA
## 6871	2009-09-06	NA	NA	NA	NA	NA
## 6872	2009-09-07	NA	NA	NA	NA	NA
## 6873	2009-09-08	NA	NA	NA	NA	NA
## 6874	2009-09-09	NA	NA	NA	NA	NA
## 6875	2009-09-10	NA	NA	NA	NA	NA
## 6876	2009-09-11	NA	NA	NA	NA	NA
## 6877	2009-09-12	NA	NA	NA	NA	NA
## 6878	2009-09-13	NA	NA	NA	NA	NA
## 6879	2009-09-14	NA	NA	NA	NA	NA
## 6880	2009-09-15	NA	NA	NA	NA	NA
## 6881	2009-09-16	NA	NA	NA	NA	NA
## 6882	2009-09-17	NA	NA	NA	NA	NA
## 6883	2009-09-18	NA	NA	NA	NA	NA
## 6884	2009-09-19	NA	NA	NA	NA	NA
## 6885	2009-09-20	NA	NA	NA	NA	NA
## 6886	2009-09-21	NA	NA	NA	NA	NA
## 6887	2009-09-22	NA	NA	NA	NA	NA
## 6888	2009-09-23	NA	NA	NA	NA	NA
## 6889	2009-09-24	NA	NA	NA	NA	NA
## 6890	2009-09-25	NA	NA	NA	NA	NA
## 6891	2009-09-26	NA	NA	NA	NA	NA
## 6892	2009-09-27	NA	NA	NA	NA	NA
## 6893	2009-09-28	NA	NA	NA	NA	NA
## 6894	2009-09-29	NA	NA	NA	NA	NA
## 6895	2009-09-30	NA	NA	NA	NA	NA
## 6896	2009-10-01	NA	NA	NA	NA	NA
## 6897	2009-10-02	NA	NA	NA	NA	NA
## 6898	2009-10-03	NA	NA	NA	NA	NA
## 6899	2009-10-04	NA	NA	NA	NA	NA
## 6900	2009-10-05	NA	NA	NA	NA	NA
## 6901	2009-10-06	NA	NA	NA	NA	NA
## 6902	2009-10-07	NA	NA	NA	NA	NA

## 6903	2009-10-08	NA	NA	NA	NA	NA
## 6904	2009-10-09	NA	NA	NA	NA	NA
## 6905	2009-10-10	NA	NA	NA	NA	NA
## 6906	2009-10-11	NA	NA	NA	NA	NA
## 6907	2009-10-12	NA	NA	NA	NA	NA
## 6908	2009-10-13	NA	NA	NA	NA	NA
## 6909	2009-10-14	NA	NA	NA	NA	NA
## 6910	2009-10-15	NA	NA	NA	NA	NA
## 6911	2009-10-16	NA	NA	NA	NA	NA
## 6912	2009-10-17	NA	NA	NA	NA	NA
## 6913	2009-10-18	NA	NA	NA	NA	NA
## 6914	2009-10-19	NA	NA	NA	NA	NA
## 6915	2009-10-20	NA	NA	NA	NA	NA
## 6916	2009-10-21	NA	NA	NA	NA	NA
## 6917	2009-10-22	NA	NA	NA	NA	NA
## 6918	2009-10-23	NA	NA	NA	NA	NA
## 6919	2009-10-24	NA	NA	NA	NA	NA
## 6920	2009-10-25	NA	NA	NA	NA	NA
## 6921	2009-10-26	NA	NA	NA	NA	NA
## 6922	2009-10-27	NA	NA	NA	NA	NA
## 6923	2009-10-28	NA	NA	NA	NA	NA
## 6924	2009-10-29	NA	NA	NA	NA	NA
## 6925	2009-10-30	NA	NA	NA	NA	NA
## 6926	2009-10-31	NA	NA	NA	NA	NA
## 6927	2009-11-01	NA	NA	NA	NA	NA
## 6928	2009-11-02	NA	NA	NA	NA	NA
## 6929	2009-11-03	NA	NA	NA	NA	NA
## 6930	2009-11-04	NA	NA	NA	NA	NA
## 6931	2009-11-05	NA	NA	NA	NA	NA
## 6932	2009-11-06	NA	NA	NA	NA	NA
## 6933	2009-11-07	NA	NA	NA	NA	NA
## 6934	2009-11-08	NA	NA	NA	NA	NA
## 6935	2009-11-09	NA	NA	NA	NA	NA
## 6936	2009-11-10	NA	NA	NA	NA	NA
## 6937	2009-11-11	NA	NA	NA	NA	NA
## 6938	2009-11-12	NA	NA	NA	NA	NA
## 6939	2009-11-13	NA	NA	NA	NA	NA
## 6940	2009-11-14	NA	NA	NA	NA	NA
## 6941	2009-11-15	NA	NA	NA	NA	NA
## 6942	2009-11-16	NA	NA	NA	NA	NA
## 6943	2009-11-17	NA	NA	NA	NA	NA
## 6944	2009-11-18	NA	NA	NA	NA	NA
## 6945	2009-11-19	NA	NA	NA	NA	NA
## 6946	2009-11-20	NA	NA	NA	NA	NA
## 6947	2009-11-21	NA	NA	NA	NA	NA
## 6948	2009-11-22	NA	NA	NA	NA	NA
## 6949	2009-11-23	NA	NA	NA	NA	NA
## 6950	2009-11-24	NA	NA	NA	NA	NA
## 6951	2009-11-25	NA	NA	NA	NA	NA
## 6952	2009-11-26	NA	NA	NA	NA	NA
## 6953	2009-11-27	NA	NA	NA	NA	NA
## 6954	2009-11-28	NA	NA	NA	NA	NA
## 6955	2009-11-29	NA	NA	NA	NA	NA
## 6956	2009-11-30	NA	NA	NA	NA	NA

## 6957	2009-12-01	NA	NA	NA	NA	NA
## 6958	2009-12-02	NA	NA	NA	NA	NA
## 6959	2009-12-03	NA	NA	NA	NA	NA
## 6960	2009-12-04	NA	NA	NA	NA	NA
## 6961	2009-12-05	NA	NA	NA	NA	NA
## 6962	2009-12-06	NA	NA	NA	NA	NA
## 6963	2009-12-07	NA	NA	NA	NA	NA
## 6964	2009-12-08	NA	NA	NA	NA	NA
## 6965	2009-12-09	NA	NA	NA	NA	NA
## 6966	2009-12-10	NA	NA	NA	NA	NA
## 6967	2009-12-11	NA	NA	NA	NA	NA
## 6968	2009-12-12	NA	NA	NA	NA	NA
## 6969	2009-12-13	NA	NA	NA	NA	NA
## 6970	2009-12-14	NA	NA	NA	NA	NA
## 6971	2009-12-15	NA	NA	NA	NA	NA
## 6972	2009-12-16	NA	NA	NA	NA	NA
## 6973	2009-12-17	NA	NA	NA	NA	NA
## 6974	2009-12-18	NA	NA	NA	NA	NA
## 6975	2009-12-19	NA	NA	NA	NA	NA
## 6976	2009-12-20	NA	NA	NA	NA	NA
## 6977	2009-12-21	NA	NA	NA	NA	NA
## 6978	2009-12-22	NA	NA	NA	NA	NA
## 6979	2009-12-23	NA	NA	NA	NA	NA
## 6980	2009-12-24	NA	NA	NA	NA	NA
## 6981	2009-12-25	NA	NA	NA	NA	NA
## 6982	2009-12-26	NA	NA	NA	NA	NA
## 6983	2009-12-27	NA	NA	NA	NA	NA
## 6984	2009-12-28	NA	NA	NA	NA	NA
## 6985	2009-12-29	NA	NA	NA	NA	NA
## 6986	2009-12-30	NA	NA	NA	NA	NA
## 6987	2009-12-31	NA	NA	NA	NA	NA
## 6988	2010-01-01	NA	NA	NA	NA	NA
## 6989	2010-01-02	NA	NA	NA	NA	NA
## 6990	2010-01-03	NA	NA	NA	NA	NA
## 6991	2010-01-04	NA	NA	NA	NA	NA
## 6992	2010-01-05	NA	NA	NA	NA	NA
## 6993	2010-01-06	NA	NA	NA	NA	NA
## 6994	2010-01-07	NA	NA	NA	NA	NA
## 6995	2010-01-08	NA	NA	NA	NA	NA
## 6996	2010-01-09	NA	NA	NA	NA	NA
## 6997	2010-01-10	NA	NA	NA	NA	NA
## 6998	2010-01-11	NA	NA	NA	NA	NA
## 6999	2010-01-12	NA	NA	NA	NA	NA
## 7000	2010-01-13	NA	NA	NA	NA	NA
## 7001	2010-01-14	NA	NA	NA	NA	NA
## 7002	2010-01-15	NA	NA	NA	NA	NA
## 7003	2010-01-16	NA	NA	NA	NA	NA
## 7004	2010-01-17	NA	NA	NA	NA	NA
## 7005	2010-01-18	NA	NA	NA	NA	NA
## 7006	2010-01-19	NA	NA	NA	NA	NA
## 7007	2010-01-20	NA	NA	NA	NA	NA
## 7008	2010-01-21	NA	NA	NA	NA	NA
## 7009	2010-01-22	NA	NA	NA	NA	NA
## 7010	2010-01-23	NA	NA	NA	NA	NA

##	7011	2010-01-24	NA	NA	NA	NA	NA
##	7012	2010-01-25	NA	NA	NA	NA	NA
##	7013	2010-01-26	NA	NA	NA	NA	NA
##	7014	2010-01-27	NA	NA	NA	NA	NA
##	7015	2010-01-28	NA	NA	NA	NA	NA
##	7016	2010-01-29	NA	NA	NA	NA	NA
##	7017	2010-01-30	NA	NA	NA	NA	NA
##	7018	2010-01-31	NA	NA	NA	NA	NA
##	7019	2010-02-01	NA	NA	NA	NA	NA
##	7020	2010-02-02	NA	NA	NA	NA	NA
##	7021	2010-02-03	NA	NA	NA	NA	NA
##	7022	2010-02-04	NA	NA	NA	NA	NA
##	7023	2010-02-05	NA	NA	NA	NA	NA
##	7024	2010-02-06	NA	NA	NA	NA	NA
##	7025	2010-02-07	NA	NA	NA	NA	NA
##	7026	2010-02-08	NA	NA	NA	NA	NA
##	7027	2010-02-09	NA	NA	NA	NA	NA
##	7028	2010-02-10	NA	NA	NA	NA	NA
##	7029	2010-02-11	NA	NA	NA	NA	NA
##	7030	2010-02-12	NA	NA	NA	NA	NA
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##	7033	2010-02-15	NA	NA	NA	NA	NA
##	7034	2010-02-16	NA	NA	NA	NA	NA
##	7035	2010-02-17	NA	NA	NA	NA	NA
##	7036	2010-02-18	NA	NA	NA	NA	NA
##	7037	2010-02-19	NA	NA	NA	NA	NA
##	7038	2010-02-20	NA	NA	NA	NA	NA
##	7039	2010-02-21	NA	NA	NA	NA	NA
##	7040	2010-02-22	NA	NA	NA	NA	NA
##	7041	2010-02-23	NA	NA	NA	NA	NA
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##	7044	2010-02-26	NA	NA	NA	NA	NA
##	7045	2010-02-27	NA	NA	NA	NA	NA
##	7046	2010-02-28	NA	NA	NA	NA	NA
##	7047	2010-03-01	NA	NA	NA	NA	NA
##	7048	2010-03-02	NA	NA	NA	NA	NA
##	7049	2010-03-03	NA	NA	NA	NA	NA
##	7050	2010-03-04	NA	NA	NA	NA	NA
##	7051	2010-03-05	NA	NA	NA	NA	NA
##	7052	2010-03-06	NA	NA	NA	NA	NA
##	7053	2010-03-07	NA	NA	NA	NA	NA
##	7054	2010-03-08	NA	NA	NA	NA	NA
##	7055	2010-03-09	NA	NA	NA	NA	NA
##	7056	2010-03-10	NA	NA	NA	NA	NA
##	7057	2010-03-11	NA	NA	NA	NA	NA
##	7058	2010-03-12	NA	NA	NA	NA	NA
##	7059	2010-03-13	NA	NA	NA	NA	NA
##	7060	2010-03-14	NA	NA	NA	NA	NA
##	7061	2010-03-15	NA	NA	NA	NA	NA
##	7062	2010-03-16	NA	NA	NA	NA	NA
##	7063	2010-03-17	NA	NA	NA	NA	NA
##	7064	2010-03-18	NA	NA	NA	NA	NA

## 7065	2010-03-19	NA	NA	NA	NA	NA
## 7066	2010-03-20	NA	NA	NA	NA	NA
## 7067	2010-03-21	NA	NA	NA	NA	NA
## 7068	2010-03-22	NA	NA	NA	NA	NA
## 7069	2010-03-23	NA	NA	NA	NA	NA
## 7070	2010-03-24	NA	NA	NA	NA	NA
## 7071	2010-03-25	NA	NA	NA	NA	NA
## 7072	2010-03-26	NA	NA	NA	NA	NA
## 7073	2010-03-27	NA	NA	NA	NA	NA
## 7074	2010-03-28	NA	NA	NA	NA	NA
## 7075	2010-03-29	NA	NA	NA	NA	NA
## 7076	2010-03-30	NA	NA	NA	NA	NA
## 7077	2010-03-31	NA	NA	NA	NA	NA
## 7078	2010-04-01	NA	NA	NA	NA	NA
## 7079	2010-04-02	NA	NA	NA	NA	NA
## 7080	2010-04-03	NA	NA	NA	NA	NA
## 7081	2010-04-04	NA	NA	NA	NA	NA
## 7082	2010-04-05	NA	NA	NA	NA	NA
## 7083	2010-04-06	NA	NA	NA	NA	NA
## 7084	2010-04-07	NA	NA	NA	NA	NA
## 7085	2010-04-08	NA	NA	NA	NA	NA
## 7086	2010-04-09	NA	NA	NA	NA	NA
## 7087	2010-04-10	NA	NA	NA	NA	NA
## 7088	2010-04-11	NA	NA	NA	NA	NA
## 7089	2010-04-12	NA	NA	NA	NA	NA
## 7090	2010-04-13	NA	NA	NA	NA	NA
## 7091	2010-04-14	NA	NA	NA	NA	NA
## 7092	2010-04-15	NA	NA	NA	NA	NA
## 7093	2010-04-16	NA	NA	NA	NA	NA
## 7094	2010-04-17	NA	NA	NA	NA	NA
## 7095	2010-04-18	NA	NA	NA	NA	NA
## 7096	2010-04-19	NA	NA	NA	NA	NA
## 7097	2010-04-20	NA	NA	NA	NA	NA
## 7098	2010-04-21	NA	NA	NA	NA	NA
## 7099	2010-04-22	NA	NA	NA	NA	NA
## 7100	2010-04-23	NA	NA	NA	NA	NA
## 7101	2010-04-24	NA	NA	NA	NA	NA
## 7102	2010-04-25	NA	NA	NA	NA	NA
## 7103	2010-04-26	NA	NA	NA	NA	NA
## 7104	2010-04-27	NA	NA	NA	NA	NA
## 7105	2010-04-28	NA	NA	NA	NA	NA
## 7106	2010-04-29	NA	NA	NA	NA	NA
## 7107	2010-04-30	NA	NA	NA	NA	NA
## 7108	2010-05-01	NA	NA	NA	NA	NA
## 7109	2010-05-02	NA	NA	NA	NA	NA
## 7110	2010-05-03	NA	NA	NA	NA	NA
## 7111	2010-05-04	NA	NA	NA	NA	NA
## 7112	2010-05-05	NA	NA	NA	NA	NA
## 7113	2010-05-06	NA	NA	NA	NA	NA
## 7114	2010-05-07	NA	NA	NA	NA	NA
## 7115	2010-05-08	NA	NA	NA	NA	NA
## 7116	2010-05-09	NA	NA	NA	NA	NA
## 7117	2010-05-10	NA	NA	NA	NA	NA
## 7118	2010-05-11	NA	NA	NA	NA	NA

## 7119	2010-05-12	NA	NA	NA	NA	NA
## 7120	2010-05-13	NA	NA	NA	NA	NA
## 7121	2010-05-14	NA	NA	NA	NA	NA
## 7122	2010-05-15	NA	NA	NA	NA	NA
## 7123	2010-05-16	NA	NA	NA	NA	NA
## 7124	2010-05-17	NA	NA	NA	NA	NA
## 7125	2010-05-18	NA	NA	NA	NA	NA
## 7126	2010-05-19	NA	NA	NA	NA	NA
## 7127	2010-05-20	NA	NA	NA	NA	NA
## 7128	2010-05-21	NA	NA	NA	NA	NA
## 7129	2010-05-22	NA	NA	NA	NA	NA
## 7130	2010-05-23	NA	NA	NA	NA	NA
## 7131	2010-05-24	NA	NA	NA	NA	NA
## 7132	2010-05-25	NA	NA	NA	NA	NA
## 7133	2010-05-26	NA	NA	NA	NA	NA
## 7134	2010-05-27	NA	NA	NA	NA	NA
## 7135	2010-05-28	NA	NA	NA	NA	NA
## 7136	2010-05-29	NA	NA	NA	NA	NA
## 7137	2010-05-30	NA	NA	NA	NA	NA
## 7138	2010-05-31	NA	NA	NA	NA	NA
## 7139	2010-06-01	NA	NA	NA	NA	NA
## 7140	2010-06-02	NA	NA	NA	NA	NA
## 7141	2010-06-03	NA	NA	NA	NA	NA
## 7142	2010-06-04	NA	NA	NA	NA	NA
## 7143	2010-06-05	NA	NA	NA	NA	NA
## 7144	2010-06-06	NA	NA	NA	NA	NA
## 7145	2010-06-07	NA	NA	NA	NA	NA
## 7146	2010-06-08	NA	NA	NA	NA	NA
## 7147	2010-06-09	NA	NA	NA	NA	NA
## 7148	2010-06-10	NA	NA	NA	NA	NA
## 7149	2010-06-11	NA	NA	NA	NA	NA
## 7150	2010-06-12	NA	NA	NA	NA	NA
## 7151	2010-06-13	NA	NA	NA	NA	NA
## 7152	2010-06-14	NA	NA	NA	NA	NA
## 7153	2010-06-15	NA	NA	NA	NA	NA
## 7154	2010-06-16	NA	NA	NA	NA	NA
## 7155	2010-06-17	NA	NA	NA	NA	NA
## 7156	2010-06-18	NA	NA	NA	NA	NA
## 7157	2010-06-19	NA	NA	NA	NA	NA
## 7158	2010-06-20	NA	NA	NA	NA	NA
## 7159	2010-06-21	NA	NA	NA	NA	NA
## 7160	2010-06-22	NA	NA	NA	NA	NA
## 7161	2010-06-23	NA	NA	NA	NA	NA
## 7162	2010-06-24	NA	NA	NA	NA	NA
## 7163	2010-06-25	NA	NA	NA	NA	NA
## 7164	2010-06-26	NA	NA	NA	NA	NA
## 7165	2010-06-27	NA	NA	NA	NA	NA
## 7166	2010-06-28	NA	NA	NA	NA	NA
## 7167	2010-06-29	NA	NA	NA	NA	NA
## 7168	2010-06-30	NA	NA	NA	NA	NA
## 7169	2010-07-01	NA	NA	NA	NA	NA
## 7170	2010-07-02	NA	NA	NA	NA	NA
## 7171	2010-07-03	NA	NA	NA	NA	NA
## 7172	2010-07-04	NA	NA	NA	NA	NA

##	7173	2010-07-05	NA	NA	NA	NA	NA
##	7174	2010-07-06	NA	NA	NA	NA	NA
##	7175	2010-07-07	NA	NA	NA	NA	NA
##	7176	2010-07-08	NA	NA	NA	NA	NA
##	7177	2010-07-09	NA	NA	NA	NA	NA
##	7178	2010-07-10	NA	NA	NA	NA	NA
##	7179	2010-07-11	NA	NA	NA	NA	NA
##	7180	2010-07-12	NA	NA	NA	NA	NA
##	7181	2010-07-13	NA	NA	NA	NA	NA
##	7182	2010-07-14	NA	NA	NA	NA	NA
##	7183	2010-07-15	NA	NA	NA	NA	NA
##	7184	2010-07-16	NA	NA	NA	NA	NA
##	7185	2010-07-17	NA	NA	NA	NA	NA
##	7186	2010-07-18	NA	NA	NA	NA	NA
##	7187	2010-07-19	NA	NA	NA	NA	NA
##	7188	2010-07-20	NA	NA	NA	NA	NA
##	7189	2010-07-21	NA	NA	NA	NA	NA
##	7190	2010-07-22	NA	NA	NA	NA	NA
##	7191	2010-07-23	NA	NA	NA	NA	NA
##	7192	2010-07-24	NA	NA	NA	NA	NA
##	7193	2010-07-25	NA	NA	NA	NA	NA
##	7194	2010-07-26	NA	NA	NA	NA	NA
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##	7205	2010-08-06	NA	NA	NA	NA	NA
##	7206	2010-08-07	NA	NA	NA	NA	NA
##	7207	2010-08-08	NA	NA	NA	NA	NA
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##	7209	2010-08-10	NA	NA	NA	NA	NA
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##	7211	2010-08-12	NA	NA	NA	NA	NA
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##	7218	2010-08-19	NA	NA	NA	NA	NA
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##	7220	2010-08-21	NA	NA	NA	NA	NA
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##	7223	2010-08-24	NA	NA	NA	NA	NA
##	7224	2010-08-25	NA	NA	NA	NA	NA
##	7225	2010-08-26	NA	NA	NA	NA	NA
##	7226	2010-08-27	NA	NA	NA	NA	NA

##	7227	2010-08-28	NA	NA	NA	NA	NA
##	7228	2010-08-29	NA	NA	NA	NA	NA
##	7229	2010-08-30	NA	NA	NA	NA	NA
##	7230	2010-08-31	NA	NA	NA	NA	NA
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##	7232	2010-09-02	NA	NA	NA	NA	NA
##	7233	2010-09-03	NA	NA	NA	NA	NA
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##	7235	2010-09-05	NA	NA	NA	NA	NA
##	7236	2010-09-06	NA	NA	NA	NA	NA
##	7237	2010-09-07	NA	NA	NA	NA	NA
##	7238	2010-09-08	NA	NA	NA	NA	NA
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##	7240	2010-09-10	NA	NA	NA	NA	NA
##	7241	2010-09-11	NA	NA	NA	NA	NA
##	7242	2010-09-12	NA	NA	NA	NA	NA
##	7243	2010-09-13	NA	NA	NA	NA	NA
##	7244	2010-09-14	NA	NA	NA	NA	NA
##	7245	2010-09-15	NA	NA	NA	NA	NA
##	7246	2010-09-16	NA	NA	NA	NA	NA
##	7247	2010-09-17	NA	NA	NA	NA	NA
##	7248	2010-09-18	NA	NA	NA	NA	NA
##	7249	2010-09-19	NA	NA	NA	NA	NA
##	7250	2010-09-20	NA	NA	NA	NA	NA
##	7251	2010-09-21	NA	NA	NA	NA	NA
##	7252	2010-09-22	NA	NA	NA	NA	NA
##	7253	2010-09-23	NA	NA	NA	NA	NA
##	7254	2010-09-24	NA	NA	NA	NA	NA
##	7255	2010-09-25	NA	NA	NA	NA	NA
##	7256	2010-09-26	NA	NA	NA	NA	NA
##	7257	2010-09-27	NA	NA	NA	NA	NA
##	7258	2010-09-28	NA	NA	NA	NA	NA
##	7259	2010-09-29	NA	NA	NA	NA	NA
##	7260	2010-09-30	NA	NA	NA	NA	NA
##	7261	2010-10-01	NA	NA	NA	NA	NA
##	7262	2010-10-02	NA	NA	NA	NA	NA
##	7263	2010-10-03	NA	NA	NA	NA	NA
##	7264	2010-10-04	NA	NA	NA	NA	NA
##	7265	2010-10-05	NA	NA	NA	NA	NA
##	7266	2010-10-06	NA	NA	NA	NA	NA
##	7267	2010-10-07	NA	NA	NA	NA	NA
##	7268	2010-10-08	NA	NA	NA	NA	NA
##	7269	2010-10-09	NA	NA	NA	NA	NA
##	7270	2010-10-10	NA	NA	NA	NA	NA
##	7271	2010-10-11	NA	NA	NA	NA	NA
##	7272	2010-10-12	NA	NA	NA	NA	NA
##	7273	2010-10-13	NA	NA	NA	NA	NA
##	7274	2010-10-14	NA	NA	NA	NA	NA
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##	7276	2010-10-16	NA	NA	NA	NA	NA
##	7277	2010-10-17	NA	NA	NA	NA	NA
##	7278	2010-10-18	NA	NA	NA	NA	NA
##	7279	2010-10-19	NA	NA	NA	NA	NA
##	7280	2010-10-20	NA	NA	NA	NA	NA

##	7281	2010-10-21	NA	NA	NA	NA	NA
##	7282	2010-10-22	NA	NA	NA	NA	NA
##	7283	2010-10-23	NA	NA	NA	NA	NA
##	7284	2010-10-24	NA	NA	NA	NA	NA
##	7285	2010-10-25	NA	NA	NA	NA	NA
##	7286	2010-10-26	NA	NA	NA	NA	NA
##	7287	2010-10-27	NA	NA	NA	NA	NA
##	7288	2010-10-28	NA	NA	NA	NA	NA
##	7289	2010-10-29	NA	NA	NA	NA	NA
##	7290	2010-10-30	NA	NA	NA	NA	NA
##	7291	2010-10-31	NA	NA	NA	NA	NA
##	7292	2010-11-01	NA	NA	NA	NA	NA
##	7293	2010-11-02	NA	NA	NA	NA	NA
##	7294	2010-11-03	NA	NA	NA	NA	NA
##	7295	2010-11-04	NA	NA	NA	NA	NA
##	7296	2010-11-05	NA	NA	NA	NA	NA
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##	7298	2010-11-07	NA	NA	NA	NA	NA
##	7299	2010-11-08	NA	NA	NA	NA	NA
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##	7301	2010-11-10	NA	NA	NA	NA	NA
##	7302	2010-11-11	NA	NA	NA	NA	NA
##	7303	2010-11-12	NA	NA	NA	NA	NA
##	7304	2010-11-13	NA	NA	NA	NA	NA
##	7305	2010-11-14	NA	NA	NA	NA	NA
##	7306	2010-11-15	NA	NA	NA	NA	NA
##	7307	2010-11-16	NA	NA	NA	NA	NA
##	7308	2010-11-17	NA	NA	NA	NA	NA
##	7309	2010-11-18	NA	NA	NA	NA	NA
##	7310	2010-11-19	NA	NA	NA	NA	NA
##	7311	2010-11-20	NA	NA	NA	NA	NA
##	7312	2010-11-21	NA	NA	NA	NA	NA
##	7313	2010-11-22	NA	NA	NA	NA	NA
##	7314	2010-11-23	NA	NA	NA	NA	NA
##	7315	2010-11-24	NA	NA	NA	NA	NA
##	7316	2010-11-25	NA	NA	NA	NA	NA
##	7317	2010-11-26	NA	NA	NA	NA	NA
##	7318	2010-11-27	NA	NA	NA	NA	NA
##	7319	2010-11-28	NA	NA	NA	NA	NA
##	7320	2010-11-29	NA	NA	NA	NA	NA
##	7321	2010-11-30	NA	NA	NA	NA	NA
##	7322	2010-12-01	NA	NA	NA	NA	NA
##	7323	2010-12-02	NA	NA	NA	NA	NA
##	7324	2010-12-03	NA	NA	NA	NA	NA
##	7325	2010-12-04	NA	NA	NA	NA	NA
##	7326	2010-12-05	NA	NA	NA	NA	NA
##	7327	2010-12-06	NA	NA	NA	NA	NA
##	7328	2010-12-07	NA	NA	NA	NA	NA
##	7329	2010-12-08	NA	NA	NA	NA	NA
##	7330	2010-12-09	NA	NA	NA	NA	NA
##	7331	2010-12-10	NA	NA	NA	NA	NA
##	7332	2010-12-11	NA	NA	NA	NA	NA
##	7333	2010-12-12	NA	NA	NA	NA	NA
##	7334	2010-12-13	NA	NA	NA	NA	NA

## 7335	2010-12-14	NA	NA	NA	NA	NA
## 7336	2010-12-15	NA	NA	NA	NA	NA
## 7337	2010-12-16	NA	NA	NA	NA	NA
## 7338	2010-12-17	NA	NA	NA	NA	NA
## 7339	2010-12-18	NA	NA	NA	NA	NA
## 7340	2010-12-19	NA	NA	NA	NA	NA
## 7341	2010-12-20	NA	NA	NA	NA	NA
## 7342	2010-12-21	NA	NA	NA	NA	NA
## 7343	2010-12-22	NA	NA	NA	NA	NA
## 7344	2010-12-23	NA	NA	NA	NA	NA
## 7345	2010-12-24	NA	NA	NA	NA	NA
## 7346	2010-12-25	NA	NA	NA	NA	NA
## 7347	2010-12-26	NA	NA	NA	NA	NA
## 7348	2010-12-27	NA	NA	NA	NA	NA
## 7349	2010-12-28	NA	NA	NA	NA	NA
## 7350	2010-12-29	NA	NA	NA	NA	NA
## 7351	2010-12-30	NA	NA	NA	NA	NA
## 7352	2010-12-31	NA	NA	NA	NA	NA
## 7353	2011-01-01	NA	NA	NA	NA	NA
## 7354	2011-01-02	NA	NA	NA	NA	NA
## 7355	2011-01-03	NA	NA	NA	NA	NA
## 7356	2011-01-04	NA	NA	NA	NA	NA
## 7357	2011-01-05	NA	NA	NA	NA	NA
## 7358	2011-01-06	NA	NA	NA	NA	NA
## 7359	2011-01-07	NA	NA	NA	NA	NA
## 7360	2011-01-08	NA	NA	NA	NA	NA
## 7361	2011-01-09	NA	NA	NA	NA	NA
## 7362	2011-01-10	NA	NA	NA	NA	NA
## 7363	2011-01-11	NA	NA	NA	NA	NA
## 7364	2011-01-12	NA	NA	NA	NA	NA
## 7365	2011-01-13	NA	NA	NA	NA	NA
## 7366	2011-01-14	NA	NA	NA	NA	NA
## 7367	2011-01-15	NA	NA	NA	NA	NA
## 7368	2011-01-16	NA	NA	NA	NA	NA
## 7369	2011-01-17	NA	NA	NA	NA	NA
## 7370	2011-01-18	NA	NA	NA	NA	NA
## 7371	2011-01-19	NA	NA	NA	NA	NA
## 7372	2011-01-20	NA	NA	NA	NA	NA
## 7373	2011-01-21	NA	NA	NA	NA	NA
## 7374	2011-01-22	NA	NA	NA	NA	NA
## 7375	2011-01-23	NA	NA	NA	NA	NA
## 7376	2011-01-24	NA	NA	NA	NA	NA
## 7377	2011-01-25	NA	NA	NA	NA	NA
## 7378	2011-01-26	NA	NA	NA	NA	NA
## 7379	2011-01-27	NA	NA	NA	NA	NA
## 7380	2011-01-28	NA	NA	NA	NA	NA
## 7381	2011-01-29	NA	NA	NA	NA	NA
## 7382	2011-01-30	NA	NA	NA	NA	NA
## 7383	2011-01-31	NA	NA	NA	NA	NA
## 7384	2011-02-01	NA	NA	NA	NA	NA
## 7385	2011-02-02	NA	NA	NA	NA	NA
## 7386	2011-02-03	NA	NA	NA	NA	NA
## 7387	2011-02-04	NA	NA	NA	NA	NA
## 7388	2011-02-05	NA	NA	NA	NA	NA

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##	7390	2011-02-07	NA	NA	NA	NA	NA
##	7391	2011-02-08	NA	NA	NA	NA	NA
##	7392	2011-02-09	NA	NA	NA	NA	NA
##	7393	2011-02-10	NA	NA	NA	NA	NA
##	7394	2011-02-11	NA	NA	NA	NA	NA
##	7395	2011-02-12	NA	NA	NA	NA	NA
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##	7397	2011-02-14	NA	NA	NA	NA	NA
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##	7399	2011-02-16	NA	NA	NA	NA	NA
##	7400	2011-02-17	NA	NA	NA	NA	NA
##	7401	2011-02-18	NA	NA	NA	NA	NA
##	7402	2011-02-19	NA	NA	NA	NA	NA
##	7403	2011-02-20	NA	NA	NA	NA	NA
##	7404	2011-02-21	NA	NA	NA	NA	NA
##	7405	2011-02-22	NA	NA	NA	NA	NA
##	7406	2011-02-23	NA	NA	NA	NA	NA
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##	7409	2011-02-26	NA	NA	NA	NA	NA
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##	7411	2011-02-28	NA	NA	NA	NA	NA
##	7412	2011-03-01	NA	NA	NA	NA	NA
##	7413	2011-03-02	NA	NA	NA	NA	NA
##	7414	2011-03-03	NA	NA	NA	NA	NA
##	7415	2011-03-04	NA	NA	NA	NA	NA
##	7416	2011-03-05	NA	NA	NA	NA	NA
##	7417	2011-03-06	NA	NA	NA	NA	NA
##	7418	2011-03-07	NA	NA	NA	NA	NA
##	7419	2011-03-08	NA	NA	NA	NA	NA
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##	7421	2011-03-10	NA	NA	NA	NA	NA
##	7422	2011-03-11	NA	NA	NA	NA	NA
##	7423	2011-03-12	NA	NA	NA	NA	NA
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##	7429	2011-03-18	NA	NA	NA	NA	NA
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##	7431	2011-03-20	NA	NA	NA	NA	NA
##	7432	2011-03-21	NA	NA	NA	NA	NA
##	7433	2011-03-22	NA	NA	NA	NA	NA
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##	7435	2011-03-24	NA	NA	NA	NA	NA
##	7436	2011-03-25	NA	NA	NA	NA	NA
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##	7439	2011-03-28	NA	NA	NA	NA	NA
##	7440	2011-03-29	NA	NA	NA	NA	NA
##	7441	2011-03-30	NA	NA	NA	NA	NA
##	7442	2011-03-31	NA	NA	NA	NA	NA

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## 7444	2011-04-02	NA	NA	NA	NA	NA
## 7445	2011-04-03	NA	NA	NA	NA	NA
## 7446	2011-04-04	NA	NA	NA	NA	NA
## 7447	2011-04-05	NA	NA	NA	NA	NA
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## 7449	2011-04-07	NA	NA	NA	NA	NA
## 7450	2011-04-08	NA	NA	NA	NA	NA
## 7451	2011-04-09	NA	NA	NA	NA	NA
## 7452	2011-04-10	NA	NA	NA	NA	NA
## 7453	2011-04-11	NA	NA	NA	NA	NA
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## 7455	2011-04-13	NA	NA	NA	NA	NA
## 7456	2011-04-14	NA	NA	NA	NA	NA
## 7457	2011-04-15	NA	NA	NA	NA	NA
## 7458	2011-04-16	NA	NA	NA	NA	NA
## 7459	2011-04-17	NA	NA	NA	NA	NA
## 7460	2011-04-18	NA	NA	NA	NA	NA
## 7461	2011-04-19	NA	NA	NA	NA	NA
## 7462	2011-04-20	NA	NA	NA	NA	NA
## 7463	2011-04-21	NA	NA	NA	NA	NA
## 7464	2011-04-22	NA	NA	NA	NA	NA
## 7465	2011-04-23	NA	NA	NA	NA	NA
## 7466	2011-04-24	NA	NA	NA	NA	NA
## 7467	2011-04-25	NA	NA	NA	NA	NA
## 7468	2011-04-26	NA	NA	NA	NA	NA
## 7469	2011-04-27	NA	NA	NA	NA	NA
## 7470	2011-04-28	NA	NA	NA	NA	NA
## 7471	2011-04-29	NA	NA	NA	NA	NA
## 7472	2011-04-30	NA	NA	NA	NA	NA
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## 7474	2011-05-02	NA	NA	NA	NA	NA
## 7475	2011-05-03	NA	NA	NA	NA	NA
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## 7477	2011-05-05	NA	NA	NA	NA	NA
## 7478	2011-05-06	NA	NA	NA	NA	NA
## 7479	2011-05-07	NA	NA	NA	NA	NA
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## 7481	2011-05-09	NA	NA	NA	NA	NA
## 7482	2011-05-10	NA	NA	NA	NA	NA
## 7483	2011-05-11	NA	NA	NA	NA	NA
## 7484	2011-05-12	NA	NA	NA	NA	NA
## 7485	2011-05-13	NA	NA	NA	NA	NA
## 7486	2011-05-14	NA	NA	NA	NA	NA
## 7487	2011-05-15	NA	NA	NA	NA	NA
## 7488	2011-05-16	NA	NA	NA	NA	NA
## 7489	2011-05-17	NA	NA	NA	NA	NA
## 7490	2011-05-18	NA	NA	NA	NA	NA
## 7491	2011-05-19	NA	NA	NA	NA	NA
## 7492	2011-05-20	NA	NA	NA	NA	NA
## 7493	2011-05-21	NA	NA	NA	NA	NA
## 7494	2011-05-22	NA	NA	NA	NA	NA
## 7495	2011-05-23	NA	NA	NA	NA	NA
## 7496	2011-05-24	NA	NA	NA	NA	NA

## 7497	2011-05-25	NA	NA	NA	NA	NA
## 7498	2011-05-26	NA	NA	NA	NA	NA
## 7499	2011-05-27	NA	NA	NA	NA	NA
## 7500	2011-05-28	NA	NA	NA	NA	NA
## 7501	2011-05-29	NA	NA	NA	NA	NA
## 7502	2011-05-30	NA	NA	NA	NA	NA
## 7503	2011-05-31	NA	NA	NA	NA	NA
## 7504	2011-06-01	NA	NA	NA	NA	NA
## 7505	2011-06-02	NA	NA	NA	NA	NA
## 7506	2011-06-03	NA	NA	NA	NA	NA
## 7507	2011-06-04	NA	NA	NA	NA	NA
## 7508	2011-06-05	NA	NA	NA	NA	NA
## 7509	2011-06-06	NA	NA	NA	NA	NA
## 7510	2011-06-07	NA	NA	NA	NA	NA
## 7511	2011-06-08	NA	NA	NA	NA	NA
## 7512	2011-06-09	NA	NA	NA	NA	NA
## 7513	2011-06-10	NA	NA	NA	NA	NA
## 7514	2011-06-11	NA	NA	NA	NA	NA
## 7515	2011-06-12	NA	NA	NA	NA	NA
## 7516	2011-06-13	NA	NA	NA	NA	NA
## 7517	2011-06-14	NA	NA	NA	NA	NA
## 7518	2011-06-15	NA	NA	NA	NA	NA
## 7519	2011-06-16	NA	NA	NA	NA	NA
## 7520	2011-06-17	NA	NA	NA	NA	NA
## 7521	2011-06-18	NA	NA	NA	NA	NA
## 7522	2011-06-19	NA	NA	NA	NA	NA
## 7523	2011-06-20	NA	NA	NA	NA	NA
## 7524	2011-06-21	NA	NA	NA	NA	NA
## 7525	2011-06-22	NA	NA	NA	NA	NA
## 7526	2011-06-23	NA	NA	NA	NA	NA
## 7527	2011-06-24	NA	NA	NA	NA	NA
## 7528	2011-06-25	NA	NA	NA	NA	NA
## 7529	2011-06-26	NA	NA	NA	NA	NA
## 7530	2011-06-27	NA	NA	NA	NA	NA
## 7531	2011-06-28	NA	NA	NA	NA	NA
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## 7533	2011-06-30	NA	NA	NA	NA	NA
## 7534	2011-07-01	NA	NA	NA	NA	NA
## 7535	2011-07-02	NA	NA	NA	NA	NA
## 7536	2011-07-03	NA	NA	NA	NA	NA
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## 7538	2011-07-05	NA	NA	NA	NA	NA
## 7539	2011-07-06	NA	NA	NA	NA	NA
## 7540	2011-07-07	NA	NA	NA	NA	NA
## 7541	2011-07-08	NA	NA	NA	NA	NA
## 7542	2011-07-09	NA	NA	NA	NA	NA
## 7543	2011-07-10	NA	NA	NA	NA	NA
## 7544	2011-07-11	NA	NA	NA	NA	NA
## 7545	2011-07-12	NA	NA	NA	NA	NA
## 7546	2011-07-13	NA	NA	NA	NA	NA
## 7547	2011-07-14	NA	NA	NA	NA	NA
## 7548	2011-07-15	NA	NA	NA	NA	NA
## 7549	2011-07-16	NA	NA	NA	NA	NA
## 7550	2011-07-17	NA	NA	NA	NA	NA

## 7551	2011-07-18	NA	NA	NA	NA	NA
## 7552	2011-07-19	NA	NA	NA	NA	NA
## 7553	2011-07-20	NA	NA	NA	NA	NA
## 7554	2011-07-21	NA	NA	NA	NA	NA
## 7555	2011-07-22	NA	NA	NA	NA	NA
## 7556	2011-07-23	NA	NA	NA	NA	NA
## 7557	2011-07-24	NA	NA	NA	NA	NA
## 7558	2011-07-25	NA	NA	NA	NA	NA
## 7559	2011-07-26	NA	NA	NA	NA	NA
## 7560	2011-07-27	NA	NA	NA	NA	NA
## 7561	2011-07-28	NA	NA	NA	NA	NA
## 7562	2011-07-29	NA	NA	NA	NA	NA
## 7563	2011-07-30	NA	NA	NA	NA	NA
## 7564	2011-07-31	NA	NA	NA	NA	NA
## 7565	2011-08-01	NA	NA	NA	NA	NA
## 7566	2011-08-02	NA	NA	NA	NA	NA
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## 7570	2011-08-06	NA	NA	NA	NA	NA
## 7571	2011-08-07	NA	NA	NA	NA	NA
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## 7575	2011-08-11	NA	NA	NA	NA	NA
## 7576	2011-08-12	NA	NA	NA	NA	NA
## 7577	2011-08-13	NA	NA	NA	NA	NA
## 7578	2011-08-14	NA	NA	NA	NA	NA
## 7579	2011-08-15	NA	NA	NA	NA	NA
## 7580	2011-08-16	NA	NA	NA	NA	NA
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## 7595	2011-08-31	NA	NA	NA	NA	NA
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## 7597	2011-09-02	NA	NA	NA	NA	NA
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## 7599	2011-09-04	NA	NA	NA	NA	NA
## 7600	2011-09-05	NA	NA	NA	NA	NA
## 7601	2011-09-06	NA	NA	NA	NA	NA
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## 7603	2011-09-08	NA	NA	NA	NA	NA
## 7604	2011-09-09	NA	NA	NA	NA	NA

## 7605	2011-09-10	NA	NA	NA	NA	NA
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## 7607	2011-09-12	NA	NA	NA	NA	NA
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## 7609	2011-09-14	NA	NA	NA	NA	NA
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## 7613	2011-09-18	NA	NA	NA	NA	NA
## 7614	2011-09-19	NA	NA	NA	NA	NA
## 7615	2011-09-20	NA	NA	NA	NA	NA
## 7616	2011-09-21	NA	NA	NA	NA	NA
## 7617	2011-09-22	NA	NA	NA	NA	NA
## 7618	2011-09-23	NA	NA	NA	NA	NA
## 7619	2011-09-24	NA	NA	NA	NA	NA
## 7620	2011-09-25	NA	NA	NA	NA	NA
## 7621	2011-09-26	NA	NA	NA	NA	NA
## 7622	2011-09-27	NA	NA	NA	NA	NA
## 7623	2011-09-28	NA	NA	NA	NA	NA
## 7624	2011-09-29	NA	NA	NA	NA	NA
## 7625	2011-09-30	NA	NA	NA	NA	NA
## 7626	2011-10-01	NA	NA	NA	NA	NA
## 7627	2011-10-02	NA	NA	NA	NA	NA
## 7628	2011-10-03	NA	NA	NA	NA	NA
## 7629	2011-10-04	NA	NA	NA	NA	NA
## 7630	2011-10-05	NA	NA	NA	NA	NA
## 7631	2011-10-06	NA	NA	NA	NA	NA
## 7632	2011-10-07	NA	NA	NA	NA	NA
## 7633	2011-10-08	NA	NA	NA	NA	NA
## 7634	2011-10-09	NA	NA	NA	NA	NA
## 7635	2011-10-10	NA	NA	NA	NA	NA
## 7636	2011-10-11	NA	NA	NA	NA	NA
## 7637	2011-10-12	NA	NA	NA	NA	NA
## 7638	2011-10-13	NA	NA	NA	NA	NA
## 7639	2011-10-14	NA	NA	NA	NA	NA
## 7640	2011-10-15	NA	NA	NA	NA	NA
## 7641	2011-10-16	NA	NA	NA	NA	NA
## 7642	2011-10-17	NA	NA	NA	NA	NA
## 7643	2011-10-18	NA	NA	NA	NA	NA
## 7644	2011-10-19	NA	NA	NA	NA	NA
## 7645	2011-10-20	NA	NA	NA	NA	NA
## 7646	2011-10-21	NA	NA	NA	NA	NA
## 7647	2011-10-22	NA	NA	NA	NA	NA
## 7648	2011-10-23	NA	NA	NA	NA	NA
## 7649	2011-10-24	NA	NA	NA	NA	NA
## 7650	2011-10-25	NA	NA	NA	NA	NA
## 7651	2011-10-26	NA	NA	NA	NA	NA
## 7652	2011-10-27	NA	NA	NA	NA	NA
## 7653	2011-10-28	NA	NA	NA	NA	NA
## 7654	2011-10-29	NA	NA	NA	NA	NA
## 7655	2011-10-30	NA	NA	NA	NA	NA
## 7656	2011-10-31	NA	NA	NA	NA	NA
## 7657	2011-11-01	NA	NA	NA	NA	NA
## 7658	2011-11-02	NA	NA	NA	NA	NA

##	7659	2011-11-03	NA	NA	NA	NA	NA
##	7660	2011-11-04	NA	NA	NA	NA	NA
##	7661	2011-11-05	NA	NA	NA	NA	NA
##	7662	2011-11-06	NA	NA	NA	NA	NA
##	7663	2011-11-07	NA	NA	NA	NA	NA
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##	7665	2011-11-09	NA	NA	NA	NA	NA
##	7666	2011-11-10	NA	NA	NA	NA	NA
##	7667	2011-11-11	NA	NA	NA	NA	NA
##	7668	2011-11-12	NA	NA	NA	NA	NA
##	7669	2011-11-13	NA	NA	NA	NA	NA
##	7670	2011-11-14	NA	NA	NA	NA	NA
##	7671	2011-11-15	NA	NA	NA	NA	NA
##	7672	2011-11-16	NA	NA	NA	NA	NA
##	7673	2011-11-17	NA	NA	NA	NA	NA
##	7674	2011-11-18	NA	NA	NA	NA	NA
##	7675	2011-11-19	NA	NA	NA	NA	NA
##	7676	2011-11-20	NA	NA	NA	NA	NA
##	7677	2011-11-21	NA	NA	NA	NA	NA
##	7678	2011-11-22	NA	NA	NA	NA	NA
##	7679	2011-11-23	NA	NA	NA	NA	NA
##	7680	2011-11-24	NA	NA	NA	NA	NA
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##	7683	2011-11-27	NA	NA	NA	NA	NA
##	7684	2011-11-28	NA	NA	NA	NA	NA
##	7685	2011-11-29	NA	NA	NA	NA	NA
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##	7687	2011-12-01	NA	NA	NA	NA	NA
##	7688	2011-12-02	NA	NA	NA	NA	NA
##	7689	2011-12-03	NA	NA	NA	NA	NA
##	7690	2011-12-04	NA	NA	NA	NA	NA
##	7691	2011-12-05	NA	NA	NA	NA	NA
##	7692	2011-12-06	NA	NA	NA	NA	NA
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##	7696	2011-12-10	NA	NA	NA	NA	NA
##	7697	2011-12-11	NA	NA	NA	NA	NA
##	7698	2011-12-12	NA	NA	NA	NA	NA
##	7699	2011-12-13	NA	NA	NA	NA	NA
##	7700	2011-12-14	NA	NA	NA	NA	NA
##	7701	2011-12-15	NA	NA	NA	NA	NA
##	7702	2011-12-16	NA	NA	NA	NA	NA
##	7703	2011-12-17	NA	NA	NA	NA	NA
##	7704	2011-12-18	NA	NA	NA	NA	NA
##	7705	2011-12-19	NA	NA	NA	NA	NA
##	7706	2011-12-20	NA	NA	NA	NA	NA
##	7707	2011-12-21	NA	NA	NA	NA	NA
##	7708	2011-12-22	NA	NA	NA	NA	NA
##	7709	2011-12-23	NA	NA	NA	NA	NA
##	7710	2011-12-24	NA	NA	NA	NA	NA
##	7711	2011-12-25	NA	NA	NA	NA	NA
##	7712	2011-12-26	NA	NA	NA	NA	NA

## 7713	2011-12-27	NA	NA	NA	NA	NA
## 7714	2011-12-28	NA	NA	NA	NA	NA
## 7715	2011-12-29	NA	NA	NA	NA	NA
## 7716	2011-12-30	NA	NA	NA	NA	NA
## 7717	2011-12-31	NA	NA	NA	NA	NA
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## 7719	2012-01-02	NA	NA	NA	NA	NA
## 7720	2012-01-03	NA	NA	NA	NA	NA
## 7721	2012-01-04	NA	NA	NA	NA	NA
## 7722	2012-01-05	NA	NA	NA	NA	NA
## 7723	2012-01-06	NA	NA	NA	NA	NA
## 7724	2012-01-07	NA	NA	NA	NA	NA
## 7725	2012-01-08	NA	NA	NA	NA	NA
## 7726	2012-01-09	NA	NA	NA	NA	NA
## 7727	2012-01-10	NA	NA	NA	NA	NA
## 7728	2012-01-11	NA	NA	NA	NA	NA
## 7729	2012-01-12	NA	NA	NA	NA	NA
## 7730	2012-01-13	NA	NA	NA	NA	NA
## 7731	2012-01-14	NA	NA	NA	NA	NA
## 7732	2012-01-15	NA	NA	NA	NA	NA
## 7733	2012-01-16	NA	NA	NA	NA	NA
## 7734	2012-01-17	NA	NA	NA	NA	NA
## 7735	2012-01-18	NA	NA	NA	NA	NA
## 7736	2012-01-19	NA	NA	NA	NA	NA
## 7737	2012-01-20	NA	NA	NA	NA	NA
## 7738	2012-01-21	NA	NA	NA	NA	NA
## 7739	2012-01-22	NA	NA	NA	NA	NA
## 7740	2012-01-23	NA	NA	NA	NA	NA
## 7741	2012-01-24	NA	NA	NA	NA	NA
## 7742	2012-01-25	NA	NA	NA	NA	NA
## 7743	2012-01-26	NA	NA	NA	NA	NA
## 7744	2012-01-27	NA	NA	NA	NA	NA
## 7745	2012-01-28	NA	NA	NA	NA	NA
## 7746	2012-01-29	NA	NA	NA	NA	NA
## 7747	2012-01-30	NA	NA	NA	NA	NA
## 7748	2012-01-31	NA	NA	NA	NA	NA
## 7749	2012-02-01	NA	NA	NA	NA	NA
## 7750	2012-02-02	NA	NA	NA	NA	NA
## 7751	2012-02-03	NA	NA	NA	NA	NA
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## 7754	2012-02-06	NA	NA	NA	NA	NA
## 7755	2012-02-07	NA	NA	NA	NA	NA
## 7756	2012-02-08	NA	NA	NA	NA	NA
## 7757	2012-02-09	NA	NA	NA	NA	NA
## 7758	2012-02-10	NA	NA	NA	NA	NA
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## 7761	2012-02-13	NA	NA	NA	NA	NA
## 7762	2012-02-14	NA	NA	NA	NA	NA
## 7763	2012-02-15	NA	NA	NA	NA	NA
## 7764	2012-02-16	NA	NA	NA	NA	NA
## 7765	2012-02-17	NA	NA	NA	NA	NA
## 7766	2012-02-18	NA	NA	NA	NA	NA

## 7767	2012-02-19	NA	NA	NA	NA	NA
## 7768	2012-02-20	NA	NA	NA	NA	NA
## 7769	2012-02-21	NA	NA	NA	NA	NA
## 7770	2012-02-22	NA	NA	NA	NA	NA
## 7771	2012-02-23	NA	NA	NA	NA	NA
## 7772	2012-02-24	NA	NA	NA	NA	NA
## 7773	2012-02-25	NA	NA	NA	NA	NA
## 7774	2012-02-26	NA	NA	NA	NA	NA
## 7775	2012-02-27	NA	NA	NA	NA	NA
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## 7777	2012-02-29	NA	NA	NA	NA	NA
## 7778	2012-03-01	NA	NA	NA	NA	NA
## 7779	2012-03-02	NA	NA	NA	NA	NA
## 7780	2012-03-03	NA	NA	NA	NA	NA
## 7781	2012-03-04	NA	NA	NA	NA	NA
## 7782	2012-03-05	NA	NA	NA	NA	NA
## 7783	2012-03-06	NA	NA	NA	NA	NA
## 7784	2012-03-07	NA	NA	NA	NA	NA
## 7785	2012-03-08	NA	NA	NA	NA	NA
## 7786	2012-03-09	NA	NA	NA	NA	NA
## 7787	2012-03-10	NA	NA	NA	NA	NA
## 7788	2012-03-11	NA	NA	NA	NA	NA
## 7789	2012-03-12	NA	NA	NA	NA	NA
## 7790	2012-03-13	NA	NA	NA	NA	NA
## 7791	2012-03-14	NA	NA	NA	NA	NA
## 7792	2012-03-15	NA	NA	NA	NA	NA
## 7793	2012-03-16	NA	NA	NA	NA	NA
## 7794	2012-03-17	NA	NA	NA	NA	NA
## 7795	2012-03-18	NA	NA	NA	NA	NA
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## 7797	2012-03-20	NA	NA	NA	NA	NA
## 7798	2012-03-21	NA	NA	NA	NA	NA
## 7799	2012-03-22	NA	NA	NA	NA	NA
## 7800	2012-03-23	NA	NA	NA	NA	NA
## 7801	2012-03-24	NA	NA	NA	NA	NA
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## 7805	2012-03-28	NA	NA	NA	NA	NA
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## 7807	2012-03-30	NA	NA	NA	NA	NA
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## 7810	2012-04-02	NA	NA	NA	NA	NA
## 7811	2012-04-03	NA	NA	NA	NA	NA
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## 7813	2012-04-05	NA	NA	NA	NA	NA
## 7814	2012-04-06	NA	NA	NA	NA	NA
## 7815	2012-04-07	NA	NA	NA	NA	NA
## 7816	2012-04-08	NA	NA	NA	NA	NA
## 7817	2012-04-09	NA	NA	NA	NA	NA
## 7818	2012-04-10	NA	NA	NA	NA	NA
## 7819	2012-04-11	NA	NA	NA	NA	NA
## 7820	2012-04-12	NA	NA	NA	NA	NA

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##	7823	2012-04-15	NA	NA	NA	NA	NA
##	7824	2012-04-16	NA	NA	NA	NA	NA
##	7825	2012-04-17	NA	NA	NA	NA	NA
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##	7850	2012-05-12	NA	NA	NA	NA	NA
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##	7865	2012-05-27	NA	NA	NA	NA	NA
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##	7867	2012-05-29	NA	NA	NA	NA	NA
##	7868	2012-05-30	NA	NA	NA	NA	NA
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##	7870	2012-06-01	NA	NA	NA	NA	NA
##	7871	2012-06-02	NA	NA	NA	NA	NA
##	7872	2012-06-03	NA	NA	NA	NA	NA
##	7873	2012-06-04	NA	NA	NA	NA	NA
##	7874	2012-06-05	NA	NA	NA	NA	NA

##	7875	2012-06-06	NA	NA	NA	NA	NA
##	7876	2012-06-07	NA	NA	NA	NA	NA
##	7877	2012-06-08	NA	NA	NA	NA	NA
##	7878	2012-06-09	NA	NA	NA	NA	NA
##	7879	2012-06-10	NA	NA	NA	NA	NA
##	7880	2012-06-11	NA	NA	NA	NA	NA
##	7881	2012-06-12	NA	NA	NA	NA	NA
##	7882	2012-06-13	NA	NA	NA	NA	NA
##	7883	2012-06-14	NA	NA	NA	NA	NA
##	7884	2012-06-15	NA	NA	NA	NA	NA
##	7885	2012-06-16	NA	NA	NA	NA	NA
##	7886	2012-06-17	NA	NA	NA	NA	NA
##	7887	2012-06-18	NA	NA	NA	NA	NA
##	7888	2012-06-19	NA	NA	NA	NA	NA
##	7889	2012-06-20	NA	NA	NA	NA	NA
##	7890	2012-06-21	NA	NA	NA	NA	NA
##	7891	2012-06-22	NA	NA	NA	NA	NA
##	7892	2012-06-23	NA	NA	NA	NA	NA
##	7893	2012-06-24	NA	NA	NA	NA	NA
##	7894	2012-06-25	NA	NA	NA	NA	NA
##	7895	2012-06-26	NA	NA	NA	NA	NA
##	7896	2012-06-27	NA	NA	NA	NA	NA
##	7897	2012-06-28	NA	NA	NA	NA	NA
##	7898	2012-06-29	NA	NA	NA	NA	NA
##	7899	2012-06-30	NA	NA	NA	NA	NA
##	7900	2012-07-01	NA	NA	NA	NA	NA
##	7901	2012-07-02	NA	NA	NA	NA	NA
##	7902	2012-07-03	NA	NA	NA	NA	NA
##	7903	2012-07-04	NA	NA	NA	NA	NA
##	7904	2012-07-05	NA	NA	NA	NA	NA
##	7905	2012-07-06	NA	NA	NA	NA	NA
##	7906	2012-07-07	NA	NA	NA	NA	NA
##	7907	2012-07-08	NA	NA	NA	NA	NA
##	7908	2012-07-09	NA	NA	NA	NA	NA
##	7909	2012-07-10	NA	NA	NA	NA	NA
##	7910	2012-07-11	NA	NA	NA	NA	NA
##	7911	2012-07-12	NA	NA	NA	NA	NA
##	7912	2012-07-13	NA	NA	NA	NA	NA
##	7913	2012-07-14	NA	NA	NA	NA	NA
##	7914	2012-07-15	NA	NA	NA	NA	NA
##	7915	2012-07-16	NA	NA	NA	NA	NA
##	7916	2012-07-17	NA	NA	NA	NA	NA
##	7917	2012-07-18	NA	NA	NA	NA	NA
##	7918	2012-07-19	NA	NA	NA	NA	NA
##	7919	2012-07-20	NA	NA	NA	NA	NA
##	7920	2012-07-21	NA	NA	NA	NA	NA
##	7921	2012-07-22	NA	NA	NA	NA	NA
##	7922	2012-07-23	NA	NA	NA	NA	NA
##	7923	2012-07-24	NA	NA	NA	NA	NA
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##	7925	2012-07-26	NA	NA	NA	NA	NA
##	7926	2012-07-27	NA	NA	NA	NA	NA
##	7927	2012-07-28	NA	NA	NA	NA	NA
##	7928	2012-07-29	NA	NA	NA	NA	NA

## 7929	2012-07-30	NA	NA	NA	NA	NA
## 7930	2012-07-31	NA	NA	NA	NA	NA
## 7931	2012-08-01	NA	NA	NA	NA	NA
## 7932	2012-08-02	NA	NA	NA	NA	NA
## 7933	2012-08-03	NA	NA	NA	NA	NA
## 7934	2012-08-04	NA	NA	NA	NA	NA
## 7935	2012-08-05	NA	NA	NA	NA	NA
## 7936	2012-08-06	NA	NA	NA	NA	NA
## 7937	2012-08-07	NA	NA	NA	NA	NA
## 7938	2012-08-08	NA	NA	NA	NA	NA
## 7939	2012-08-09	NA	NA	NA	NA	NA
## 7940	2012-08-10	NA	NA	NA	NA	NA
## 7941	2012-08-11	NA	NA	NA	NA	NA
## 7942	2012-08-12	NA	NA	NA	NA	NA
## 7943	2012-08-13	NA	NA	NA	NA	NA
## 7944	2012-08-14	NA	NA	NA	NA	NA
## 7945	2012-08-15	NA	NA	NA	NA	NA
## 7946	2012-08-16	NA	NA	NA	NA	NA
## 7947	2012-08-17	NA	NA	NA	NA	NA
## 7948	2012-08-18	NA	NA	NA	NA	NA
## 7949	2012-08-19	NA	NA	NA	NA	NA
## 7950	2012-08-20	NA	NA	NA	NA	NA
## 7951	2012-08-21	NA	NA	NA	NA	NA
## 7952	2012-08-22	NA	NA	NA	NA	NA
## 7953	2012-08-23	NA	NA	NA	NA	NA
## 7954	2012-08-24	NA	NA	NA	NA	NA
## 7955	2012-08-25	NA	NA	NA	NA	NA
## 7956	2012-08-26	NA	NA	NA	NA	NA
## 7957	2012-08-27	NA	NA	NA	NA	NA
## 7958	2012-08-28	NA	NA	NA	NA	NA
## 7959	2012-08-29	NA	NA	NA	NA	NA
## 7960	2012-08-30	NA	NA	NA	NA	NA
## 7961	2012-08-31	NA	NA	NA	NA	NA
## 7962	2012-09-01	NA	NA	NA	NA	NA
## 7963	2012-09-02	NA	NA	NA	NA	NA
## 7964	2012-09-03	NA	NA	NA	NA	NA
## 7965	2012-09-04	NA	NA	NA	NA	NA
## 7966	2012-09-05	NA	NA	NA	NA	NA
## 7967	2012-09-06	NA	NA	NA	NA	NA
## 7968	2012-09-07	NA	NA	NA	NA	NA
## 7969	2012-09-08	NA	NA	NA	NA	NA
## 7970	2012-09-09	NA	NA	NA	NA	NA
## 7971	2012-09-10	NA	NA	NA	NA	NA
## 7972	2012-09-11	NA	NA	NA	NA	NA
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## 7974	2012-09-13	NA	NA	NA	NA	NA
## 7975	2012-09-14	NA	NA	NA	NA	NA
## 7976	2012-09-15	NA	NA	NA	NA	NA
## 7977	2012-09-16	NA	NA	NA	NA	NA
## 7978	2012-09-17	NA	NA	NA	NA	NA
## 7979	2012-09-18	NA	NA	NA	NA	NA
## 7980	2012-09-19	NA	NA	NA	NA	NA
## 7981	2012-09-20	NA	NA	NA	NA	NA
## 7982	2012-09-21	NA	NA	NA	NA	NA

## 7983	2012-09-22	NA	NA	NA	NA	NA
## 7984	2012-09-23	NA	NA	NA	NA	NA
## 7985	2012-09-24	NA	NA	NA	NA	NA
## 7986	2012-09-25	NA	NA	NA	NA	NA
## 7987	2012-09-26	NA	NA	NA	NA	NA
## 7988	2012-09-27	NA	NA	NA	NA	NA
## 7989	2012-09-28	NA	NA	NA	NA	NA
## 7990	2012-09-29	NA	NA	NA	NA	NA
## 7991	2012-09-30	NA	NA	NA	NA	NA
## 7992	2012-10-01	NA	NA	NA	NA	NA
## 7993	2012-10-02	NA	NA	NA	NA	NA
## 7994	2012-10-03	NA	NA	NA	NA	NA
## 7995	2012-10-04	NA	NA	NA	NA	NA
## 7996	2012-10-05	NA	NA	NA	NA	NA
## 7997	2012-10-06	NA	NA	NA	NA	NA
## 7998	2012-10-07	NA	NA	NA	NA	NA
## 7999	2012-10-08	NA	NA	NA	NA	NA
## 8000	2012-10-09	NA	NA	NA	NA	NA
## 8001	2012-10-10	NA	NA	NA	NA	NA
## 8002	2012-10-11	NA	NA	NA	NA	NA
## 8003	2012-10-12	NA	NA	NA	NA	NA
## 8004	2012-10-13	NA	NA	NA	NA	NA
## 8005	2012-10-14	NA	NA	NA	NA	NA
## 8006	2012-10-15	NA	NA	NA	NA	NA
## 8007	2012-10-16	NA	NA	NA	NA	NA
## 8008	2012-10-17	NA	NA	NA	NA	NA
## 8009	2012-10-18	NA	NA	NA	NA	NA
## 8010	2012-10-19	NA	NA	NA	NA	NA
## 8011	2012-10-20	NA	NA	NA	NA	NA
## 8012	2012-10-21	NA	NA	NA	NA	NA
## 8013	2012-10-22	NA	NA	NA	NA	NA
## 8014	2012-10-23	NA	NA	NA	NA	NA
## 8015	2012-10-24	NA	NA	NA	NA	NA
## 8016	2012-10-25	NA	NA	NA	NA	NA
## 8017	2012-10-26	NA	NA	NA	NA	NA
## 8018	2012-10-27	NA	NA	NA	NA	NA
## 8019	2012-10-28	NA	NA	NA	NA	NA
## 8020	2012-10-29	NA	NA	NA	NA	NA
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## 8024	2012-11-02	NA	NA	NA	NA	NA
## 8025	2012-11-03	NA	NA	NA	NA	NA
## 8026	2012-11-04	NA	NA	NA	NA	NA
## 8027	2012-11-05	NA	NA	NA	NA	NA
## 8028	2012-11-06	NA	NA	NA	NA	NA
## 8029	2012-11-07	NA	NA	NA	NA	NA
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## 8031	2012-11-09	NA	NA	NA	NA	NA
## 8032	2012-11-10	NA	NA	NA	NA	NA
## 8033	2012-11-11	NA	NA	NA	NA	NA
## 8034	2012-11-12	NA	NA	NA	NA	NA
## 8035	2012-11-13	NA	NA	NA	NA	NA
## 8036	2012-11-14	NA	NA	NA	NA	NA

## 8037	2012-11-15	NA	NA	NA	NA	NA
## 8038	2012-11-16	NA	NA	NA	NA	NA
## 8039	2012-11-17	NA	NA	NA	NA	NA
## 8040	2012-11-18	NA	NA	NA	NA	NA
## 8041	2012-11-19	NA	NA	NA	NA	NA
## 8042	2012-11-20	NA	NA	NA	NA	NA
## 8043	2012-11-21	NA	NA	NA	NA	NA
## 8044	2012-11-22	NA	NA	NA	NA	NA
## 8045	2012-11-23	NA	NA	NA	NA	NA
## 8046	2012-11-24	NA	NA	NA	NA	NA
## 8047	2012-11-25	NA	NA	NA	NA	NA
## 8048	2012-11-26	NA	NA	NA	NA	NA
## 8049	2012-11-27	NA	NA	NA	NA	NA
## 8050	2012-11-28	NA	NA	NA	NA	NA
## 8051	2012-11-29	NA	NA	NA	NA	NA
## 8052	2012-11-30	NA	NA	NA	NA	NA
## 8053	2012-12-01	NA	NA	NA	NA	NA
## 8054	2012-12-02	NA	NA	NA	NA	NA
## 8055	2012-12-03	NA	NA	NA	NA	NA
## 8056	2012-12-04	NA	NA	NA	NA	NA
## 8057	2012-12-05	NA	NA	NA	NA	NA
## 8058	2012-12-06	NA	NA	NA	NA	NA
## 8059	2012-12-07	NA	NA	NA	NA	NA
## 8060	2012-12-08	NA	NA	NA	NA	NA
## 8061	2012-12-09	NA	NA	NA	NA	NA
## 8062	2012-12-10	NA	NA	NA	NA	NA
## 8063	2012-12-11	NA	NA	NA	NA	NA
## 8064	2012-12-12	NA	NA	NA	NA	NA
## 8065	2012-12-13	NA	NA	NA	NA	NA
## 8066	2012-12-14	NA	NA	NA	NA	NA
## 8067	2012-12-15	NA	NA	NA	NA	NA
## 8068	2012-12-16	NA	NA	NA	NA	NA
## 8069	2012-12-17	NA	NA	NA	NA	NA
## 8070	2012-12-18	NA	NA	NA	NA	NA
## 8071	2012-12-19	NA	NA	NA	NA	NA
## 8072	2012-12-20	NA	NA	NA	NA	NA
## 8073	2012-12-21	NA	NA	NA	NA	NA
## 8074	2012-12-22	NA	NA	NA	NA	NA
## 8075	2012-12-23	NA	NA	NA	NA	NA
## 8076	2012-12-24	NA	NA	NA	NA	NA
## 8077	2012-12-25	NA	NA	NA	NA	NA
## 8078	2012-12-26	NA	NA	NA	NA	NA
## 8079	2012-12-27	NA	NA	NA	NA	NA
## 8080	2012-12-28	NA	NA	NA	NA	NA
## 8081	2012-12-29	NA	NA	NA	NA	NA
## 8082	2012-12-30	NA	NA	NA	NA	NA
## 8083	2012-12-31	NA	NA	NA	NA	NA
## 8084	2013-01-01	NA	NA	NA	NA	NA
## 8085	2013-01-02	NA	NA	NA	NA	NA
## 8086	2013-01-03	NA	NA	NA	NA	NA
## 8087	2013-01-04	NA	NA	NA	NA	NA
## 8088	2013-01-05	NA	NA	NA	NA	NA
## 8089	2013-01-06	NA	NA	NA	NA	NA
## 8090	2013-01-07	NA	NA	NA	NA	NA

## 8091	2013-01-08	NA	NA	NA	NA	NA
## 8092	2013-01-09	NA	NA	NA	NA	NA
## 8093	2013-01-10	NA	NA	NA	NA	NA
## 8094	2013-01-11	NA	NA	NA	NA	NA
## 8095	2013-01-12	NA	NA	NA	NA	NA
## 8096	2013-01-13	NA	NA	NA	NA	NA
## 8097	2013-01-14	NA	NA	NA	NA	NA
## 8098	2013-01-15	NA	NA	NA	NA	NA
## 8099	2013-01-16	NA	NA	NA	NA	NA
## 8100	2013-01-17	NA	NA	NA	NA	NA
## 8101	2013-01-18	NA	NA	NA	NA	NA
## 8102	2013-01-19	NA	NA	NA	NA	NA
## 8103	2013-01-20	NA	NA	NA	NA	NA
## 8104	2013-01-21	NA	NA	NA	NA	NA
## 8105	2013-01-22	NA	NA	NA	NA	NA
## 8106	2013-01-23	NA	NA	NA	NA	NA
## 8107	2013-01-24	NA	NA	NA	NA	NA
## 8108	2013-01-25	NA	NA	NA	NA	NA
## 8109	2013-01-26	NA	NA	NA	NA	NA
## 8110	2013-01-27	NA	NA	NA	NA	NA
## 8111	2013-01-28	NA	NA	NA	NA	NA
## 8112	2013-01-29	NA	NA	NA	NA	NA
## 8113	2013-01-30	NA	NA	NA	NA	NA
## 8114	2013-01-31	NA	NA	NA	NA	NA
## 8115	2013-02-01	NA	NA	NA	NA	NA
## 8116	2013-02-02	NA	NA	NA	NA	NA
## 8117	2013-02-03	NA	NA	NA	NA	NA
## 8118	2013-02-04	NA	NA	NA	NA	NA
## 8119	2013-02-05	NA	NA	NA	NA	NA
## 8120	2013-02-06	NA	NA	NA	NA	NA
## 8121	2013-02-07	NA	NA	NA	NA	NA
## 8122	2013-02-08	NA	NA	NA	NA	NA
## 8123	2013-02-09	NA	NA	NA	NA	NA
## 8124	2013-02-10	NA	NA	NA	NA	NA
## 8125	2013-02-11	NA	NA	NA	NA	NA
## 8126	2013-02-12	NA	NA	NA	NA	NA
## 8127	2013-02-13	NA	NA	NA	NA	NA
## 8128	2013-02-14	NA	NA	NA	NA	NA
## 8129	2013-02-15	NA	NA	NA	NA	NA
## 8130	2013-02-16	NA	NA	NA	NA	NA
## 8131	2013-02-17	NA	NA	NA	NA	NA
## 8132	2013-02-18	NA	NA	NA	NA	NA
## 8133	2013-02-19	NA	NA	NA	NA	NA
## 8134	2013-02-20	NA	NA	NA	NA	NA
## 8135	2013-02-21	NA	NA	NA	NA	NA
## 8136	2013-02-22	NA	NA	NA	NA	NA
## 8137	2013-02-23	NA	NA	NA	NA	NA
## 8138	2013-02-24	NA	NA	NA	NA	NA
## 8139	2013-02-25	NA	NA	NA	NA	NA
## 8140	2013-02-26	NA	NA	NA	NA	NA
## 8141	2013-02-27	NA	NA	NA	NA	NA
## 8142	2013-02-28	NA	NA	NA	NA	NA
## 8143	2013-03-01	NA	NA	NA	NA	NA
## 8144	2013-03-02	NA	NA	NA	NA	NA

## 8145	2013-03-03	NA	NA	NA	NA	NA
## 8146	2013-03-04	NA	NA	NA	NA	NA
## 8147	2013-03-05	NA	NA	NA	NA	NA
## 8148	2013-03-06	NA	NA	NA	NA	NA
## 8149	2013-03-07	NA	NA	NA	NA	NA
## 8150	2013-03-08	NA	NA	NA	NA	NA
## 8151	2013-03-09	NA	NA	NA	NA	NA
## 8152	2013-03-10	NA	NA	NA	NA	NA
## 8153	2013-03-11	NA	NA	NA	NA	NA
## 8154	2013-03-12	NA	NA	NA	NA	NA
## 8155	2013-03-13	NA	NA	NA	NA	NA
## 8156	2013-03-14	NA	NA	NA	NA	NA
## 8157	2013-03-15	NA	NA	NA	NA	NA
## 8158	2013-03-16	NA	NA	NA	NA	NA
## 8159	2013-03-17	NA	NA	NA	NA	NA
## 8160	2013-03-18	NA	NA	NA	NA	NA
## 8161	2013-03-19	NA	NA	NA	NA	NA
## 8162	2013-03-20	NA	NA	NA	NA	NA
## 8163	2013-03-21	NA	NA	NA	NA	NA
## 8164	2013-03-22	NA	NA	NA	NA	NA
## 8165	2013-03-23	NA	NA	NA	NA	NA
## 8166	2013-03-24	NA	NA	NA	NA	NA
## 8167	2013-03-25	NA	NA	NA	NA	NA
## 8168	2013-03-26	NA	NA	NA	NA	NA
## 8169	2013-03-27	NA	NA	NA	NA	NA
## 8170	2013-03-28	NA	NA	NA	NA	NA
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## 8172	2013-03-30	NA	NA	NA	NA	NA
## 8173	2013-03-31	NA	NA	NA	NA	NA
## 8174	2013-04-01	NA	NA	NA	NA	NA
## 8175	2013-04-02	NA	NA	NA	NA	NA
## 8176	2013-04-03	NA	NA	NA	NA	NA
## 8177	2013-04-04	NA	NA	NA	NA	NA
## 8178	2013-04-05	NA	NA	NA	NA	NA
## 8179	2013-04-06	NA	NA	NA	NA	NA
## 8180	2013-04-07	NA	NA	NA	NA	NA
## 8181	2013-04-08	NA	NA	NA	NA	NA
## 8182	2013-04-09	NA	NA	NA	NA	NA
## 8183	2013-04-10	NA	NA	NA	NA	NA
## 8184	2013-04-11	NA	NA	NA	NA	NA
## 8185	2013-04-12	NA	NA	NA	NA	NA
## 8186	2013-04-13	NA	NA	NA	NA	NA
## 8187	2013-04-14	NA	NA	NA	NA	NA
## 8188	2013-04-15	NA	NA	NA	NA	NA
## 8189	2013-04-16	NA	NA	NA	NA	NA
## 8190	2013-04-17	NA	NA	NA	NA	NA
## 8191	2013-04-18	NA	NA	NA	NA	NA
## 8192	2013-04-19	NA	NA	NA	NA	NA
## 8193	2013-04-20	NA	NA	NA	NA	NA
## 8194	2013-04-21	NA	NA	NA	NA	NA
## 8195	2013-04-22	NA	NA	NA	NA	NA
## 8196	2013-04-23	NA	NA	NA	NA	NA
## 8197	2013-04-24	NA	NA	NA	NA	NA
## 8198	2013-04-25	NA	NA	NA	NA	NA

## 8199	2013-04-26	NA	NA	NA	NA	NA
## 8200	2013-04-27	NA	NA	NA	NA	NA
## 8201	2013-04-28	NA	NA	NA	NA	NA
## 8202	2013-04-29	NA	NA	NA	NA	NA
## 8203	2013-04-30	NA	NA	NA	NA	NA
## 8204	2013-05-01	NA	NA	NA	NA	NA
## 8205	2013-05-02	NA	NA	NA	NA	NA
## 8206	2013-05-03	NA	NA	NA	NA	NA
## 8207	2013-05-04	NA	NA	NA	NA	NA
## 8208	2013-05-05	NA	NA	NA	NA	NA
## 8209	2013-05-06	NA	NA	NA	NA	NA
## 8210	2013-05-07	NA	NA	NA	NA	NA
## 8211	2013-05-08	NA	NA	NA	NA	NA
## 8212	2013-05-09	NA	NA	NA	NA	NA
## 8213	2013-05-10	NA	NA	NA	NA	NA
## 8214	2013-05-11	NA	NA	NA	NA	NA
## 8215	2013-05-12	NA	NA	NA	NA	NA
## 8216	2013-05-13	NA	NA	NA	NA	NA
## 8217	2013-05-14	NA	NA	NA	NA	NA
## 8218	2013-05-15	NA	NA	NA	NA	NA
## 8219	2013-05-16	NA	NA	NA	NA	NA
## 8220	2013-05-17	NA	NA	NA	NA	NA
## 8221	2013-05-18	NA	NA	NA	NA	NA
## 8222	2013-05-19	NA	NA	NA	NA	NA
## 8223	2013-05-20	NA	NA	NA	NA	NA
## 8224	2013-05-21	NA	NA	NA	NA	NA
## 8225	2013-05-22	NA	NA	NA	NA	NA
## 8226	2013-05-23	NA	NA	NA	NA	NA
## 8227	2013-05-24	NA	NA	NA	NA	NA
## 8228	2013-05-25	NA	NA	NA	NA	NA
## 8229	2013-05-26	NA	NA	NA	NA	NA
## 8230	2013-05-27	NA	NA	NA	NA	NA
## 8231	2013-05-28	NA	NA	NA	NA	NA
## 8232	2013-05-29	NA	NA	NA	NA	NA
## 8233	2013-05-30	NA	NA	NA	NA	NA
## 8234	2013-05-31	NA	NA	NA	NA	NA
## 8235	2013-06-01	NA	NA	NA	NA	NA
## 8236	2013-06-02	NA	NA	NA	NA	NA
## 8237	2013-06-03	NA	NA	NA	NA	NA
## 8238	2013-06-04	NA	NA	NA	NA	NA
## 8239	2013-06-05	NA	NA	NA	NA	NA
## 8240	2013-06-06	NA	NA	NA	NA	NA
## 8241	2013-06-07	NA	NA	NA	NA	NA
## 8242	2013-06-08	NA	NA	NA	NA	NA
## 8243	2013-06-09	NA	NA	NA	NA	NA
## 8244	2013-06-10	NA	NA	NA	NA	NA
## 8245	2013-06-11	NA	NA	NA	NA	NA
## 8246	2013-06-12	NA	NA	NA	NA	NA
## 8247	2013-06-13	NA	NA	NA	NA	NA
## 8248	2013-06-14	NA	NA	NA	NA	NA
## 8249	2013-06-15	NA	NA	NA	NA	NA
## 8250	2013-06-16	NA	NA	NA	NA	NA
## 8251	2013-06-17	NA	NA	NA	NA	NA
## 8252	2013-06-18	NA	NA	NA	NA	NA

## 8253	2013-06-19	NA	NA	NA	NA	NA
## 8254	2013-06-20	NA	NA	NA	NA	NA
## 8255	2013-06-21	NA	NA	NA	NA	NA
## 8256	2013-06-22	NA	NA	NA	NA	NA
## 8257	2013-06-23	NA	NA	NA	NA	NA
## 8258	2013-06-24	NA	NA	NA	NA	NA
## 8259	2013-06-25	NA	NA	NA	NA	NA
## 8260	2013-06-26	NA	NA	NA	NA	NA
## 8261	2013-06-27	NA	NA	NA	NA	NA
## 8262	2013-06-28	NA	NA	NA	NA	NA
## 8263	2013-06-29	NA	NA	NA	NA	NA
## 8264	2013-06-30	NA	NA	NA	NA	NA
## 8265	2013-07-01	NA	NA	NA	NA	NA
## 8266	2013-07-02	NA	NA	NA	NA	NA
## 8267	2013-07-03	NA	NA	NA	NA	NA
## 8268	2013-07-04	NA	NA	NA	NA	NA
## 8269	2013-07-05	NA	NA	NA	NA	NA
## 8270	2013-07-06	NA	NA	NA	NA	NA
## 8271	2013-07-07	NA	NA	NA	NA	NA
## 8272	2013-07-08	NA	NA	NA	NA	NA
## 8273	2013-07-09	NA	NA	NA	NA	NA
## 8274	2013-07-10	NA	NA	NA	NA	NA
## 8275	2013-07-11	NA	NA	NA	NA	NA
## 8276	2013-07-12	NA	NA	NA	NA	NA
## 8277	2013-07-13	NA	NA	NA	NA	NA
## 8278	2013-07-14	NA	NA	NA	NA	NA
## 8279	2013-07-15	NA	NA	NA	NA	NA
## 8280	2013-07-16	NA	NA	NA	NA	NA
## 8281	2013-07-17	NA	NA	NA	NA	NA
## 8282	2013-07-18	NA	NA	NA	NA	NA
## 8283	2013-07-19	NA	NA	NA	NA	NA
## 8284	2013-07-20	NA	NA	NA	NA	NA
## 8285	2013-07-21	NA	NA	NA	NA	NA
## 8286	2013-07-22	NA	NA	NA	NA	NA
## 8287	2013-07-23	NA	NA	NA	NA	NA
## 8288	2013-07-24	NA	NA	NA	NA	NA
## 8289	2013-07-25	NA	NA	NA	NA	NA
## 8290	2013-07-26	NA	NA	NA	NA	NA
## 8291	2013-07-27	NA	NA	NA	NA	NA
## 8292	2013-07-28	NA	NA	NA	NA	NA
## 8293	2013-07-29	NA	NA	NA	NA	NA
## 8294	2013-07-30	NA	NA	NA	NA	NA
## 8295	2013-07-31	NA	NA	NA	NA	NA
## 8296	2013-08-01	NA	NA	NA	NA	NA
## 8297	2013-08-02	NA	NA	NA	NA	NA
## 8298	2013-08-03	NA	NA	NA	NA	NA
## 8299	2013-08-04	NA	NA	NA	NA	NA
## 8300	2013-08-05	NA	NA	NA	NA	NA
## 8301	2013-08-06	NA	NA	NA	NA	NA
## 8302	2013-08-07	NA	NA	NA	NA	NA
## 8303	2013-08-08	NA	NA	NA	NA	NA
## 8304	2013-08-09	NA	NA	NA	NA	NA
## 8305	2013-08-10	NA	NA	NA	NA	NA
## 8306	2013-08-11	NA	NA	NA	NA	NA

##	8307	2013-08-12	NA	NA	NA	NA	NA
##	8308	2013-08-13	NA	NA	NA	NA	NA
##	8309	2013-08-14	NA	NA	NA	NA	NA
##	8310	2013-08-15	NA	NA	NA	NA	NA
##	8311	2013-08-16	NA	NA	NA	NA	NA
##	8312	2013-08-17	NA	NA	NA	NA	NA
##	8313	2013-08-18	NA	NA	NA	NA	NA
##	8314	2013-08-19	NA	NA	NA	NA	NA
##	8315	2013-08-20	NA	NA	NA	NA	NA
##	8316	2013-08-21	NA	NA	NA	NA	NA
##	8317	2013-08-22	NA	NA	NA	NA	NA
##	8318	2013-08-23	NA	NA	NA	NA	NA
##	8319	2013-08-24	NA	NA	NA	NA	NA
##	8320	2013-08-25	NA	NA	NA	NA	NA
##	8321	2013-08-26	NA	NA	NA	NA	NA
##	8322	2013-08-27	NA	NA	NA	NA	NA
##	8323	2013-08-28	NA	NA	NA	NA	NA
##	8324	2013-08-29	NA	NA	NA	NA	NA
##	8325	2013-08-30	NA	NA	NA	NA	NA
##	8326	2013-08-31	NA	NA	NA	NA	NA
##	8327	2013-09-01	NA	NA	NA	NA	NA
##	8328	2013-09-02	NA	NA	NA	NA	NA
##	8329	2013-09-03	NA	NA	NA	NA	NA
##	8330	2013-09-04	NA	NA	NA	NA	NA
##	8331	2013-09-05	NA	NA	NA	NA	NA
##	8332	2013-09-06	NA	NA	NA	NA	NA
##	8333	2013-09-07	NA	NA	NA	NA	NA
##		OG	PH	SALINITY	SUSO	TEMP	XMS
##	1	0.2000000	8.130000	33.595500	3.9964286	19.370000	60.22500
##	2	0.2000000	8.143000	33.580275	3.9964286	14.507692	80.02564
##	3	0.2000000	8.156000	33.565050	3.9964286	14.392308	83.89744
##	4	0.2000000	8.169000	33.549825	3.9964286	14.541026	78.97436
##	5	0.2000000	8.182000	33.534600	3.9964286	13.430000	80.20000
##	6	0.2000000	8.195000	33.519375	3.9964286	14.268889	86.21111
##	7	0.2000000	8.193333	33.493000	3.9964286	13.750000	80.45833
##	8	0.2000000	8.191667	33.491000	3.9964286	14.384000	84.40000
##	9	0.2000000	8.190000	33.495318	3.9964286	14.512821	72.02564
##	10	0.2000000	8.188333	33.499636	3.9964286	14.576923	68.35897
##	11	0.2000000	8.186667	33.503955	3.9964286	14.507692	76.51282
##	12	0.2000000	8.185000	33.508273	3.9964286	14.069231	78.71053
##	13	0.2000000	8.183333	33.512591	3.9964286	14.294872	82.43590
##	14	0.2000000	8.181667	33.516909	3.9964286	14.174359	81.23077
##	15	0.2000000	8.180000	33.521227	3.9964286	14.461538	72.12821
##	16	0.2000000	8.178333	33.525545	3.9964286	14.461538	69.53846
##	17	0.2000000	8.176667	33.529864	3.9964286	13.825641	79.23077
##	18	0.2000000	8.175000	33.534182	3.9964286	13.790000	80.70000
##	19	0.2000000	8.173333	33.538500	3.9964286	13.698824	77.36471
##	20	0.2000000	8.176481	33.504000	3.9964286	14.387500	77.25000
##	21	0.2000000	8.179630	33.509000	3.9964286	14.330000	81.96667
##	22	0.2000000	8.182778	33.509411	3.9964286	13.738462	78.89189
##	23	0.2000000	8.185926	33.509821	3.9964286	14.376923	80.53846
##	24	0.2000000	8.189074	33.510232	3.9964286	14.053846	82.25641
##	25	0.2000000	8.192222	33.510643	3.9964286	14.430769	82.64103
##	26	0.2000000	8.195370	33.511054	3.9964286	14.415385	63.07692

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## 27 0.2000000 8.198519 33.511464 3.9964286 14.720000 64.80000
## 28 0.2000000 8.201667 33.511875 3.9964286 13.148889 80.35556
## 29 0.2000000 8.198148 33.491000 3.9964286 13.694737 66.68421
## 30 0.2000000 8.194630 33.459000 3.9964286 13.693333 77.56667
## 31 0.2000000 8.191111 33.466867 3.9964286 13.297436 75.61538
## 32 0.2000000 8.187593 33.474734 3.9964286 12.942424 72.90909
## 33 0.2000000 8.184074 33.482602 3.9964286 12.700000 58.33333
## 34 0.2000000 8.180556 33.490469 3.9964286 12.784615 73.00000
## 35 0.2000000 8.177037 33.498336 3.9964286 12.947436 71.46154
## 36 0.2000000 8.173519 33.506203 3.9964286 13.110256 69.92308
## 37 0.2000000 8.170000 33.514070 3.9964286 13.273077 68.38462
## 38 0.2000000 8.166481 33.521937 3.9964286 13.435897 66.84615
## 39 0.2000000 8.162963 33.529805 3.9964286 13.433333 75.92105
## 40 0.2000000 8.159444 33.537672 3.9964286 13.500000 74.33333
## 41 0.2000000 8.155926 33.545539 3.9964286 13.125641 82.65789
## 42 0.2000000 8.152407 33.553406 3.9964286 13.194872 81.09818
## 43 0.2000000 8.148889 33.561273 3.9964286 13.264103 79.53846
## 44 0.2000000 8.145370 33.569141 3.9964286 14.248718 73.56410
## 45 0.2000000 8.141852 33.577008 3.9964286 13.130000 72.90000
## 46 0.2000000 8.138333 33.584875 3.9964286 12.688889 79.80000
## 47 0.2000000 8.133333 33.528000 3.9964286 13.463158 64.52632
## 48 0.2000000 8.128333 33.548500 3.9964286 13.126667 68.93333
## 49 0.2000000 8.123333 33.557292 3.9964286 13.192308 74.42105
## 50 0.2000000 8.118333 33.566083 3.9964286 12.979487 74.71053
## 51 0.2000000 8.113333 33.574875 3.9964286 12.766667 75.00000
## 52 0.2000000 8.108333 33.583667 3.9964286 12.956410 76.56410
## 53 0.2000000 8.103333 33.592458 3.9964286 11.987179 78.68421
## 54 0.2000000 8.098333 33.601250 3.9964286 13.515385 78.25641
## 55 0.2000000 8.093333 33.610042 3.9964286 13.957692 76.98718
## 56 0.2000000 8.088333 33.618833 3.9964286 14.400000 75.71795
## 57 0.2000000 8.083333 33.627625 3.9964286 11.715385 77.64103
## 58 0.2000000 8.078333 33.636417 3.9964286 13.279487 66.82051
## 59 0.2000000 8.073333 33.645208 3.9964286 13.169231 71.84211
## 60 0.2000000 8.068333 33.654000 3.9964286 12.750000 73.10000
## 61 0.2000000 8.063333 33.227857 3.9964286 11.525000 78.65000
## 62 0.2000000 8.083194 33.653000 3.9964286 13.347368 78.15789
## 63 0.2000000 8.103056 33.648500 3.9964286 12.600000 79.41379
## 64 0.2000000 8.122917 33.640075 3.9964286 12.305128 74.56410
## 65 0.2000000 8.142778 33.631650 3.9964286 12.520513 76.51282
## 66 0.2000000 8.162639 33.623225 3.9964286 13.802564 68.28205
## 67 0.2000000 8.182500 33.614800 3.9964286 13.169231 70.34211
## 68 0.2000000 8.202361 33.606375 3.9964286 15.138462 66.94872
## 69 0.2000000 8.222222 33.597950 3.9964286 15.103846 66.15385
## 70 0.2000000 8.242083 33.589525 3.9964286 15.069231 65.35897
## 71 0.2000000 8.261944 33.581100 3.9964286 13.658974 70.64103
## 72 0.2000000 8.281806 33.572675 3.9964286 14.500000 77.50000
## 73 0.2000000 8.301667 33.564250 3.9964286 12.565556 71.36667
## 74 0.2000000 8.294679 33.579000 3.9964286 14.705263 66.57895
## 75 0.2000000 8.287692 33.591000 3.9964286 13.720000 70.89655
## 76 0.2000000 8.280705 33.581391 3.9964286 15.787179 74.25641
## 77 0.2000000 8.273718 33.571782 3.9964286 15.988462 74.60256
## 78 0.2000000 8.266731 33.562174 3.9964286 16.189744 74.94872
## 79 0.2000000 8.259744 33.552565 3.9964286 14.502564 73.61538
## 80 0.2000000 8.252756 33.542956 3.9964286 14.271795 74.79487

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## 81 0.2000000 8.245769 33.533347 3.9964286 14.041026 75.97436
## 82 0.2000000 8.238782 33.523738 3.9964286 13.674359 68.76316
## 83 0.2000000 8.231795 33.514130 3.9964286 13.674359 68.76316
## 84 0.2000000 8.224808 33.504521 3.9964286 13.674359 68.76316
## 85 0.2000000 8.217821 33.494912 3.9964286 13.674359 68.76316
## 86 0.2000000 8.210833 33.485303 3.9964286 13.500000 75.70000
## 87 0.2000000 8.203846 33.475694 3.9964286 13.209756 81.04878
## 88 0.2000000 8.211340 33.470000 3.9964286 14.884211 76.94737
## 89 0.2000000 8.218835 33.482000 3.9964286 14.320000 78.53333
## 90 0.2000000 8.226329 33.485425 3.9964286 15.346154 75.60526
## 91 0.2000000 8.233824 33.488851 3.9964286 16.057692 78.61032
## 92 0.2000000 8.241318 33.492276 3.9964286 16.769231 81.61538
## 93 0.2000000 8.248812 33.495702 3.9964286 13.538462 81.78947
## 94 0.2000000 8.256307 33.499127 3.9964286 15.502564 80.15385
## 95 0.2000000 8.263801 33.502553 3.9964286 15.502564 80.15385
## 96 0.2000000 8.271295 33.505978 3.9964286 15.502564 80.15385
## 97 0.2000000 8.278790 33.509404 3.9964286 15.502564 80.15385
## 98 0.2000000 8.286284 33.512829 3.9964286 16.251282 80.23077
## 99 0.2000000 8.293778 33.516255 3.9964286 15.256410 70.25641
## 100 0.2000000 8.301273 33.519680 3.9964286 14.419231 73.06410
## 101 0.2000000 8.308767 33.523106 3.9964286 13.582051 75.87179
## 102 0.2000000 8.316261 33.526531 3.9964286 14.461538 75.30769
## 103 0.2000000 8.323756 33.529957 3.9964286 15.080000 48.30000
## 104 0.2000000 8.331250 33.533382 3.9964286 13.774359 80.73077
## 105 0.2000000 8.329167 33.509000 3.9964286 16.552632 84.52632
## 106 0.2000000 8.327083 33.483500 3.9964286 14.916667 86.73333
## 107 0.2000000 8.325000 33.476319 3.9964286 16.700000 83.71795
## 108 0.2000000 8.322917 33.469138 3.9964286 16.700000 83.71795
## 109 0.2000000 8.320833 33.461957 3.9964286 16.605128 82.38462
## 110 0.2000000 8.318750 33.454776 3.9964286 16.605128 82.38462
## 111 0.2000000 8.316667 33.447595 3.9964286 15.182051 77.87179
## 112 0.2000000 8.314583 33.440414 3.9964286 15.039744 78.26923
## 113 0.2000000 8.312500 33.433233 3.9964286 14.897436 78.66667
## 114 0.2000000 8.310417 33.426052 3.9964286 14.543590 82.64103
## 115 0.2000000 8.308333 33.418871 3.9964286 15.171795 83.19231
## 116 0.2000000 8.306250 33.411690 3.9964286 15.800000 83.74359
## 117 0.2000000 8.304167 33.404509 3.9964286 15.292308 81.35897
## 118 0.2000000 8.302083 33.397328 3.9964286 14.590000 80.50000
## 119 0.2000000 8.300000 33.390147 3.9964286 14.328205 86.85897
## 120 0.2000000 8.296591 33.370000 3.9964286 15.694737 83.05263
## 121 0.2000000 8.293182 33.379000 3.9964286 15.423333 86.53333
## 122 0.2000000 8.289773 33.374765 3.9964286 15.643718 84.10000
## 123 0.2000000 8.286364 33.370529 3.9964286 15.864103 81.66667
## 124 0.2000000 8.282955 33.366294 3.9964286 17.715385 76.87179
## 125 0.2000000 8.279545 33.362059 3.9964286 15.933333 80.02564
## 126 0.2000000 8.276136 33.357824 3.9964286 15.807692 80.25641
## 127 0.2000000 8.272727 33.353588 3.9964286 15.682051 80.48718
## 128 0.2000000 8.269318 33.349353 3.9964286 15.258974 79.42105
## 129 0.2000000 8.265909 33.345118 3.9964286 15.830000 83.40000
## 130 0.2000000 8.262500 33.340882 3.9964286 14.119231 85.96154
## 131 0.2000000 8.258929 33.288000 3.9964286 15.378947 81.05263
## 132 0.2000000 8.255357 33.294500 3.9964286 15.246667 85.10000
## 133 0.2000000 8.251786 33.258341 3.9964286 16.787179 79.00000
## 134 0.2000000 8.248214 33.222181 3.9964286 16.533333 78.02564

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## 135 0.2000000 8.244643 33.186022 3.9964286 16.279487 77.05128
## 136 0.2000000 8.241071 33.149863 3.9964286 17.215385 82.51282
## 137 0.2000000 8.237500 33.113703 3.9964286 17.288462 83.10256
## 138 0.2000000 8.233929 33.077544 3.9964286 17.361538 83.69231
## 139 0.2000000 8.230357 33.041385 3.9964286 15.884615 69.89744
## 140 0.2000000 8.226786 33.005225 3.9964286 15.743590 74.38462
## 141 0.2000000 8.223214 32.969066 3.9964286 15.602564 78.87179
## 142 0.2000000 8.219643 32.932907 3.9964286 15.474359 82.33333
## 143 0.2000000 8.216071 32.896748 3.9964286 14.760000 81.70000
## 144 0.2000000 8.212500 32.860588 3.9964286 15.050000 85.75641
## 145 0.2000000 8.181875 33.367333 3.9964286 16.895918 83.44898
## 146 0.2000000 8.151250 33.448222 3.9964286 15.684615 75.97436
## 147 0.2000000 8.120625 33.529111 3.9964286 16.976667 75.63333
## 148 0.2000000 8.090000 33.610000 3.9964286 16.295000 47.35400
## 149 0.2000000 8.110375 33.591176 3.9964286 15.212000 76.50000
## 150 0.2000000 8.130750 33.572353 3.9964286 16.100000 45.92857
## 151 0.2000000 8.151125 33.553529 3.9964286 15.241026 71.66667
## 152 0.2000000 8.171500 33.534706 3.9964286 15.435897 82.69231
## 153 0.2000000 8.191875 33.515882 3.9964286 15.643590 82.20513
## 154 0.2000000 8.212250 33.497059 3.9964286 14.051282 80.79487
## 155 0.2000000 8.232625 33.478235 3.9964286 14.038462 85.10256
## 156 0.2000000 8.253000 33.459412 3.9964286 14.541176 78.94118
## 157 0.2000000 8.273375 33.440588 3.9964286 14.730000 84.60000
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## 160 0.2000000 8.247159 33.397000 3.9964286 15.300000 84.60000
## 161 0.2000000 8.223864 33.396386 3.9964286 15.158824 79.91176
## 162 0.2000000 8.200568 33.395771 3.9964286 15.188235 82.14706
## 163 0.2000000 8.177273 33.395157 3.9964286 14.658824 80.02941
## 164 0.2000000 8.153977 33.394542 3.9964286 14.620588 82.08824
## 165 0.2000000 8.130682 33.393928 3.9964286 14.641176 67.64706
## 166 0.2000000 8.107386 33.393314 3.9964286 14.641176 67.64706
## 167 0.2000000 8.084091 33.392699 3.9964286 14.866667 80.90000
## 168 0.2000000 8.060795 33.392085 3.9964286 14.560000 65.80000
## 169 0.2000000 8.037500 33.391471 3.9964286 14.748276 83.49425
## 170 0.2000000 8.058761 33.321333 3.9964286 14.687755 81.38776
## 171 0.2000000 8.080021 33.328500 3.9964286 14.597436 78.82051
## 172 0.2000000 8.101282 33.335667 3.9964286 13.866667 77.02703
## 173 0.2000000 8.122543 33.342833 3.9964286 14.587179 78.25641
## 174 0.2000000 8.143803 33.350000 3.9964286 14.533333 79.05128
## 175 0.2000000 8.165064 33.357167 3.9964286 14.533333 79.05128
## 176 0.2000000 8.186325 33.364333 3.9964286 14.533333 79.05128
## 177 0.2000000 8.207585 33.371500 3.9964286 14.261538 66.73684
## 178 0.2000000 8.228846 33.378667 3.9964286 14.261538 66.73684
## 179 0.2000000 8.250107 33.385833 3.9964286 14.682051 64.51282
## 180 0.2000000 8.271368 33.393000 3.9964286 14.820000 68.60000
## 181 0.2000000 8.292628 33.400167 3.9964286 14.720513 69.76923
## 182 0.2000000 8.313889 33.407333 3.9964286 14.603390 78.59322
## 183 0.2000000 8.335150 30.939990 3.9964286 14.942105 78.21053
## 184 0.2000000 8.356410 28.472647 3.9964286 13.296078 63.54455
## 185 0.2000000 8.351051 28.673554 3.9964286 13.839266 64.95953
## 186 0.2000000 8.345691 28.874461 3.9964286 14.382453 66.37450
## 187 0.2000000 8.340331 29.075368 3.9964286 14.925641 67.78947
## 188 0.2000000 8.334972 29.276275 3.9964286 15.230769 64.90756

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## 189 0.2000000 8.329612 29.477181 3.9964286 15.535897 62.02564
## 190 0.2000000 8.324252 29.678088 3.9964286 15.680769 66.14103
## 191 0.2000000 8.318892 29.878995 3.9964286 15.825641 70.25641
## 192 0.2000000 8.313533 30.079902 3.9964286 15.835256 71.82051
## 193 0.2000000 8.308173 30.280809 3.9964286 15.844872 73.38462
## 194 0.2000000 8.302813 30.481716 3.9964286 15.854487 74.94872
## 195 0.2000000 8.297454 30.682623 3.9964286 15.864103 76.51282
## 196 0.2000000 8.292094 30.883529 3.9964286 12.779167 78.84615
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## 198 0.2000000 8.281375 31.285343 3.9964286 15.343590 80.07692
## 199 0.2000000 8.276015 31.486250 3.9964286 15.299145 78.17949
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## 203 0.2000000 8.254576 32.289877 3.9964286 15.425641 63.20513
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## 724 0.2172759 7.958220 33.537704 5.5541667 12.940563 84.78592
## 725 0.2139540 7.966275 33.516346 5.8933333 14.415385 75.64103
## 726 0.2106322 7.974330 33.494988 6.2325000 14.392692 73.43718
## 727 0.2073103 7.982385 33.473630 6.5716667 14.370000 71.23333
## 728 0.2039885 7.990440 33.452272 6.9108333 14.707692 65.53846

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## 729 0.2006667 7.998495 33.430914 7.2500000 14.030978 66.76630
## 730 0.2000000 7.955318 33.384555 7.7583333 13.702273 69.22727
## 731 0.2055556 7.870532 33.573032 5.9291667 12.676623 75.50649
## 732 0.2000000 7.903741 33.502705 5.8558405 12.874138 76.13793
## 733 0.2010417 7.900257 33.623682 5.7825142 12.307761 80.26866
## 734 0.2020833 7.916960 33.587333 5.7091880 14.293939 67.18182
## 735 0.2031250 7.933664 33.550985 5.6358618 14.310256 66.46154
## 736 0.2041667 7.950367 33.514637 5.5625356 14.276923 80.12821
## 737 0.2052083 7.967071 33.478288 5.4892094 14.248718 81.71795
## 738 0.2062500 7.983775 33.441940 5.4158832 14.243842 80.43318
## 739 0.2072917 8.000478 33.405592 5.3425570 14.238967 79.14841
## 740 0.2083333 8.017182 33.369243 5.2692308 14.234091 77.86364
## 741 0.2038889 7.985359 33.428622 5.8785714 14.067187 78.45312
## 742 0.2000000 8.000827 33.389645 4.9846154 14.516000 78.37333
## 743 0.2000000 7.956373 33.422241 5.6906948 14.913158 75.28947
## 744 0.2000000 7.911918 33.454836 6.3967742 13.802717 84.39130
## 745 0.2000000 7.929104 33.422903 6.4040199 13.805618 84.89888
## 746 0.2000000 7.963628 33.402264 6.4112655 14.410583 83.47959
## 747 0.2000000 7.998152 33.381625 6.4185112 15.015548 82.06031
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## 749 0.2000000 8.067199 33.340348 6.4330025 15.451282 80.75641
## 750 0.2000000 8.101723 33.319709 6.4402481 15.282051 80.87179
## 751 0.2000000 8.136247 33.299071 6.4474938 15.058974 79.46154
## 752 0.2000000 8.170771 33.278432 6.4547395 15.115831 79.88345
## 753 0.2000000 8.205294 33.257793 6.4619851 15.172688 80.30536
## 754 0.2000000 8.239818 33.237155 6.4692308 15.229545 80.72727
## 755 0.2000000 8.086659 33.373506 5.6785714 14.297561 84.28049
## 756 0.2000000 8.141207 33.273267 5.3500000 14.875862 82.15517
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## 758 0.2000000 8.053571 33.518243 5.1857143 13.028571 79.14286
## 759 0.2000000 8.010563 33.530248 5.1035714 16.289744 70.33333
## 760 0.2000000 7.967554 33.542254 5.0214286 15.126496 74.15063
## 761 0.2000000 7.924546 33.554259 4.9392857 13.963248 77.96793
## 762 0.2000000 7.881537 33.566264 4.8571429 12.800000 81.78523
## 763 0.2000000 7.921751 33.493532 4.7750000 12.961922 86.43772
## 764 0.2000000 7.941222 33.469147 4.7333333 12.877778 85.97222
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## 766 0.2000000 7.902641 33.581762 4.9220085 13.769231 77.82051
## 767 0.2000000 7.900550 33.610893 4.9606838 14.530070 76.91026
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## 769 0.2000000 7.896367 33.669153 5.0380342 13.916129 72.93548
## 770 0.2000000 7.894276 33.698283 5.0767094 11.789014 86.35775
## 771 0.2000000 8.107300 33.634716 5.1153846 12.154000 78.62000
## 772 0.2000000 8.071429 33.727745 4.8166667 11.750000 81.02381
## 773 0.2000000 7.905503 33.648533 4.7871795 12.033702 86.45856
## 774 0.2000000 7.942647 33.645826 4.7576923 12.752941 76.55882
## 775 0.2000000 7.918954 33.690294 4.7123077 12.966667 68.48485
## 776 0.2000000 7.895260 33.734761 4.6669231 12.872876 70.21539
## 777 0.2000000 7.871567 33.779228 4.6215385 12.779085 71.94593
## 778 0.2000000 7.847873 33.823695 4.5761538 12.685294 73.67647
## 779 0.2000000 7.824180 33.868162 4.5307692 11.276000 79.52000
## 780 0.2000000 8.093030 33.841945 4.2500000 12.248485 66.21212
## 781 0.2000000 7.960293 33.781037 2.8750000 11.763415 79.12195
## 782 0.2000000 7.740793 33.932945 4.0281250 10.811413 85.53261

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## 783 0.2000000 7.800949 33.918520 4.2540598 10.976404 86.14326
## 784 0.2000000 7.821753 33.887838 4.4799947 12.033333 72.15152
## 785 0.2000000 7.842557 33.857157 4.7059295 12.834314 72.28164
## 786 0.2000000 7.863361 33.826475 4.9318643 13.635294 72.41176
## 787 0.2000000 7.884165 33.795794 5.1577991 14.967647 78.88235
## 788 0.2000000 7.904969 33.765112 5.3837340 14.676471 83.26471
## 789 0.2000000 7.925772 33.734431 5.6096688 15.489706 80.25000
## 790 0.2000000 7.946576 33.703749 5.8356036 16.302941 77.23529
## 791 0.2000000 7.967380 33.673068 6.0615385 13.768000 80.94000
## 792 0.2000000 8.049220 33.658398 5.1333333 14.029268 80.02439
## 793 0.2000000 8.292147 33.648918 5.6576923 16.935294 70.55882
## 794 0.2000000 8.074959 33.686214 5.2663462 15.550000 74.00000
## 795 0.2000000 7.857772 33.723511 4.8750000 11.596196 86.98370
## 796 0.2000000 7.882716 33.711027 4.8770833 15.717647 77.58824
## 797 0.2000000 7.907660 33.698543 4.8791667 12.036517 88.10955
## 798 0.2000000 7.864572 33.722984 4.8812500 15.014706 83.76471
## 799 0.2000000 7.821483 33.747424 4.8833333 14.387500 73.33333
## 800 0.2000000 7.778394 33.771865 4.8854167 11.688451 83.41408
## 801 0.2000000 7.873098 33.742086 4.8875000 12.168627 86.84314
## 802 0.2000000 7.904192 33.676832 4.4206731 15.383333 76.00000
## 803 0.2000000 7.935286 33.611579 3.9538462 14.457143 81.57143
## 804 0.2000000 8.017100 33.652090 4.9333333 13.940000 80.00000
## 805 0.2000000 8.100250 33.620742 4.6846154 14.854167 81.87500
## 806 0.2000000 8.097586 33.619405 4.5892728 14.629167 82.33333
## 807 0.2000000 8.094923 33.618068 4.4939303 15.381250 82.85417
## 808 0.2000000 8.092259 33.616731 4.3985877 16.133333 83.37500
## 809 0.2000000 8.089595 33.615394 4.3032452 15.940217 83.03125
## 810 0.2000000 8.086931 33.614057 4.2079026 15.747101 82.68750
## 811 0.2000000 8.084267 33.612720 4.1125601 15.553986 82.34375
## 812 0.2000000 8.081604 33.611383 4.0172175 15.360870 82.00000
## 813 0.2000000 8.078940 33.610046 3.9218750 12.810000 84.88000
## 814 0.2000000 8.180716 33.620536 3.9702524 12.938235 85.15686
## 815 0.2000000 8.223005 33.582356 4.0186298 16.062500 77.58333
## 816 0.2000000 8.265294 33.544176 4.0670072 17.289583 80.37500
## 817 0.2000000 8.307583 33.505996 4.1153846 18.516667 83.16667
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## 821 0.2058889 8.182162 33.537431 3.3021368 16.975000 85.45833
## 822 0.2088333 8.134443 33.533096 2.9323718 16.366667 83.08333
## 823 0.2117778 8.086724 33.528762 2.5626068 16.725000 84.25000
## 824 0.2147222 8.039005 33.524427 2.1928419 17.083333 85.41667
## 825 0.2176667 7.991286 33.520093 1.8230769 14.814286 84.57143
## 826 0.2000000 8.040875 33.493767 2.8807692 15.737500 83.83333
## 827 0.2000000 7.901000 33.622300 3.9833333 13.400000 79.70000
## 828 0.2000000 7.886794 33.631330 4.0243056 15.887500 80.91667
## 829 0.2000000 7.872588 33.640361 4.0652778 12.825490 84.11765
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## 831 0.2000000 7.895859 33.631526 4.1454688 16.760870 79.56522
## 832 0.2000000 7.887737 33.626105 4.1846875 15.641667 68.16667
## 833 0.2000000 7.879616 33.620684 4.2239062 17.137500 74.20833
## 834 0.2000000 7.871494 33.615264 4.2631250 16.812500 82.08333
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## 836 0.2000000 7.855250 33.604423 4.3415625 16.595833 80.79167

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## 837 0.2000000 7.847129 33.599002 4.3807813 13.181188 84.27723
## 838 0.2000000 7.842000 33.609521 4.4200000 13.234615 87.05769
## 839 0.2000000 7.943786 33.553439 4.2909615 15.716667 78.37500
## 840 0.2000000 8.045571 33.497357 4.1619231 14.500000 82.14286
## 841 0.2000000 8.012500 33.512820 4.0328846 14.160000 80.70000
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## 843 0.2000000 8.116406 33.460247 3.8878846 16.235417 80.37500
## 844 0.2000000 8.113229 33.458477 3.8719231 16.741667 79.50000
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## 846 0.2000000 8.106875 33.454937 3.8400000 15.025000 84.25000
## 847 0.2000000 8.198103 33.425103 4.7130435 16.097436 82.61538
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## 851 0.2000000 8.100000 33.587000 3.2595853 19.190000 50.05000
## 852 0.2000000 8.105337 33.564961 3.1785457 17.370833 84.25000
## 853 0.2000000 8.110673 33.542922 3.0975060 17.296286 82.16848
## 854 0.2000000 8.116010 33.520884 3.0164663 17.221739 80.08696
## 855 0.2000000 8.121347 33.498845 2.9354267 15.875000 72.37500
## 856 0.2000000 8.126684 33.476806 2.8543870 15.664583 76.97917
## 857 0.2000000 8.132020 33.454767 2.7733474 15.454167 81.58333
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## 859 0.2000000 8.165000 33.433746 3.5000000 15.404167 78.83333
## 860 0.2000000 8.145200 33.409000 3.5750000 14.770000 66.40000
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## 863 0.2000000 7.935538 33.587140 2.9437500 12.180769 82.76923
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## 865 0.2000000 7.994179 33.513171 4.6017628 14.641667 65.20833
## 866 0.2000000 8.023500 33.476186 5.4307692 13.671429 73.42857
## 867 0.2000000 8.087250 33.444104 4.7307692 14.604167 79.62500
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## 869 0.2000000 8.064201 33.513605 5.2468750 14.733333 81.79167
## 870 0.2000000 8.035902 33.582561 3.7437500 12.241176 85.88235
## 871 0.2000000 8.006387 33.590096 3.8118007 13.303922 80.35784
## 872 0.2000000 7.976872 33.597630 3.8798514 14.366667 74.83333
## 873 0.2000000 7.947356 33.605165 3.9479021 12.019802 86.31683
## 874 0.2000000 7.886412 33.561820 4.0159528 12.513725 89.80392
## 875 0.2000000 7.914720 33.551549 4.0840035 13.595833 78.08333
## 876 0.2000000 7.943029 33.541279 4.1520542 13.050000 78.83333
## 877 0.2000000 7.971337 33.531009 4.2201049 13.326389 77.81944
## 878 0.2000000 7.999646 33.520739 4.2881556 13.602778 76.80556
## 879 0.2000000 8.027954 33.510469 4.3562063 13.879167 75.79167
## 880 0.2000000 8.056263 33.500199 4.4242570 13.587500 74.25000
## 881 0.2000000 8.084571 33.489929 4.4923077 13.550000 79.35714
## 882 0.2000000 8.085400 33.507600 8.2416667 13.780000 82.70000
## 883 0.2000000 8.109875 33.424896 4.2153846 14.900000 81.87500
## 884 0.2000000 7.946983 33.540955 4.0081731 13.442000 84.01750
## 885 0.2000000 7.784090 33.657015 3.8009615 11.984000 86.16000
## 886 0.2000000 7.760118 33.675924 3.5937500 11.676471 85.92157
## 887 0.2000000 7.809027 33.649643 3.5088942 13.591304 79.91304
## 888 0.2000000 7.857936 33.623363 3.4240385 13.560870 79.56522
## 889 0.2000000 7.906845 33.597083 3.3391827 13.732518 78.94928
## 890 0.2000000 7.955754 33.570803 3.2543269 13.904167 78.33333

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## 891	0.2000000	8.004662	33.544523	3.1694712	13.762500	81.25000
## 892	0.2000000	8.053571	33.518243	3.0846154	13.028571	79.14286
## 893	0.2000000	8.145391	33.510235	3.9000000	14.000000	75.56522
## 894	0.2000000	8.080333	33.505989	3.9392045	13.122222	78.55556
## 895	0.2000000	7.886442	33.641079	3.9784091	11.715385	82.71154
## 896	0.2000000	7.901216	33.639680	4.0176136	11.774510	82.26471
## 897	0.2000000	7.897267	33.658066	4.0568182	12.837255	78.73652
## 898	0.2000000	7.893319	33.676452	4.0960227	13.900000	75.20833
## 899	0.2000000	7.889370	33.694838	4.1352273	14.762500	76.16667
## 900	0.2000000	7.885422	33.713224	4.1744318	14.683333	76.33333
## 901	0.2000000	7.881473	33.731609	4.2136364	14.370833	76.10417
## 902	0.2000000	7.877525	33.749995	4.2528409	14.058333	75.87500
## 903	0.2000000	7.873576	33.768381	4.2920455	13.362500	75.70833
## 904	0.2000000	7.869627	33.786767	4.3312500	11.349020	81.96078
## 905	0.2000000	7.908824	33.818272	5.1208333	11.137255	85.93137
## 906	0.2000000	7.961224	33.768105	5.9104167	12.372794	76.96569
## 907	0.2000000	8.013625	33.717937	6.7000000	13.608333	68.00000
## 908	0.2000000	7.957375	33.748917	4.8120000	12.512500	75.91667
## 909	0.2000000	7.957229	33.742292	4.7030556	15.537500	77.16667
## 910	0.2000000	7.957083	33.735668	4.5941111	15.416667	80.66667
## 911	0.2000000	7.956938	33.729043	4.4851667	16.508333	77.37500
## 912	0.2000000	7.956792	33.722419	4.3762222	17.600000	74.08333
## 913	0.2000000	7.956646	33.715794	4.2672778	18.429167	76.12500
## 914	0.2000000	7.956500	33.709170	4.1583333	14.390000	77.30000
## 915	0.2000000	7.982714	33.692150	3.8538462	14.692857	81.71429
## 916	0.2000000	8.130292	33.820004	3.3576923	16.958333	80.00000
## 917	0.2000000	7.875922	33.900595	3.9725962	12.007843	86.02941
## 918	0.2000000	7.880269	33.917013	4.5875000	12.023077	85.36538
## 919	0.2000000	7.913144	33.895802	4.4500000	15.400000	70.91667
## 920	0.2000000	7.946019	33.874591	4.3125000	16.035417	73.87500
## 921	0.2000000	7.978893	33.853380	4.1750000	16.670833	76.83333
## 922	0.2000000	8.011768	33.832168	4.0375000	15.385417	78.20238
## 923	0.2000000	8.044643	33.810957	3.9000000	14.100000	79.57143
## 924	0.2000000	8.195609	33.978657	4.3115385	16.373913	80.39130
## 925	0.2000000	7.984500	33.805310	6.7583333	14.380000	80.70000
## 926	0.2143167	7.951360	33.829782	6.0168403	15.821250	80.01667
## 927	0.2286333	7.918221	33.854254	5.2753472	17.262500	79.33333
## 928	0.2429500	7.885081	33.878726	4.5338542	16.716667	81.41667
## 929	0.2572667	7.851942	33.903198	3.7923611	14.394967	84.13903
## 930	0.2715833	7.818802	33.927670	3.0508681	12.073267	86.86139
## 931	0.2859000	7.652173	33.903065	2.3093750	12.036538	85.65385
## 932	0.2715833	7.693001	33.904537	2.6808894	17.875000	79.45833
## 933	0.2572667	7.733830	33.906008	3.0524038	16.995833	77.37500
## 934	0.2429500	7.774658	33.907479	3.4239183	15.510417	73.85417
## 935	0.2286333	7.815486	33.908950	3.7954327	14.025000	70.33333
## 936	0.2143167	7.856315	33.910422	4.1669471	13.387500	74.45238
## 937	0.2000000	7.897143	33.911893	4.5384615	12.750000	78.57143
## 938	0.2000000	7.945250	34.011721	5.2653846	14.266667	77.33333
## 939	0.2000000	7.913900	34.019450	3.9416667	12.500000	75.10000
## 940	0.2000000	7.899098	34.006261	3.9765625	13.177083	75.84167
## 941	0.2000000	7.884296	33.993072	4.0114583	13.854167	76.58333
## 942	0.2000000	7.869494	33.979883	4.0463542	12.848237	79.71474
## 943	0.2000000	7.854692	33.966694	4.0812500	11.842308	82.84615
## 944	0.2000000	7.773618	33.980779	3.9619231	11.667647	86.03922

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## 945 0.2000000 7.792213 33.930088 3.8425962 15.504167 71.62500
## 946 0.2000000 7.810809 33.879397 3.7232692 15.920833 72.00000
## 947 0.2000000 7.829404 33.828706 3.6039423 15.445833 82.66667
## 948 0.2000000 7.848000 33.778014 3.4846154 14.907143 80.07143
## 949 0.2000000 7.953800 33.787240 4.1333333 14.580000 82.30000
## 950 0.2000000 8.042167 34.098204 2.8192308 17.183333 77.75000
## 951 0.2000000 7.965177 33.990233 2.9120280 17.264583 79.91667
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## 959 0.2000000 8.003526 33.697144 3.6544056 18.758333 85.45833
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## 962 0.2000000 8.138208 33.772121 3.5713750 17.141667 86.70833
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## 965 0.2000000 7.963530 33.655060 2.7655000 13.860000 90.05000
## 966 0.2000000 8.012404 33.668096 2.4968750 13.796154 90.71154
## 967 0.2000000 8.007303 33.658218 2.7335069 18.570833 86.91667
## 968 0.2000000 8.002203 33.648341 2.9701389 18.000000 87.10417
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## 1481 0.2016667 7.713822 33.697201 4.9182540 13.600000 67.15152
## 1482 0.2025000 7.728024 33.692718 4.6752976 13.900000 62.74242
## 1483 0.2033333 7.742227 33.688235 4.4323413 14.200000 58.33333
## 1484 0.2041667 7.756430 33.683753 4.1893849 13.231667 70.31667

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## 1485 0.2050000 7.770633 33.679270 3.9464286 12.263333 82.30000
## 1486 0.2000000 7.691378 33.789956 3.6344828 11.102222 86.84444
## 1487 0.2000000 7.933000 33.578742 3.8676724 14.141667 77.66667
## 1488 0.2000000 7.940867 33.587462 4.1008621 13.646970 76.76768
## 1489 0.2000000 7.948733 33.596183 4.3340517 13.152273 75.86869
## 1490 0.2000000 7.956600 33.604904 4.5672414 12.657576 74.96970
## 1491 0.2000000 7.964467 33.613625 4.8004310 12.993939 72.98990
## 1492 0.2000000 7.972333 33.622345 5.0336207 13.330303 71.01010
## 1493 0.2000000 7.980200 33.631066 5.2668103 13.666667 69.03030
## 1494 0.2000000 7.988067 33.639787 5.5000000 13.576667 78.56667
## 1495 0.2025333 7.933875 33.647941 6.0041667 13.316071 77.89286
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## 1497 0.2000000 7.795786 33.834032 3.4452381 11.013265 88.57143
## 1498 0.2000000 7.822020 33.838449 3.5196429 12.015152 80.15152
## 1499 0.2000000 7.848255 33.842866 3.5940476 12.521212 77.27273
## 1500 0.2000000 7.874490 33.847283 3.6684524 12.093365 79.98119
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## 1507 0.2000000 7.980625 33.717001 6.1757479 13.853048 77.65206
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## 1534 0.2000000 8.083544 33.772183 4.3507527 15.753788 82.96591
## 1535 0.2000000 8.093630 33.824138 4.4130440 16.957576 84.84848
## 1536 0.2000000 8.103716 33.876092 4.4753352 16.303030 82.46465
## 1537 0.2000000 8.113802 33.928046 4.5376264 15.648485 80.08081
## 1538 0.2000000 8.123889 33.980001 4.5999176 14.993939 77.69697

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## 1541 0.2153333 8.085717 33.649096 4.6691667 15.196226 81.62264
## 1542 0.2028571 8.106581 33.621826 3.7333333 15.145161 86.38710
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## 1552 0.2000000 7.938700 33.650480 4.3802308 15.788095 84.19048
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## 1589 0.2000000 8.150850 33.597768 6.2431818 17.295000 84.66667
## 1590 0.2000000 8.055436 33.615377 8.9606061 17.615385 83.61538
## 1591 0.2000000 7.952236 33.661493 7.3803030 13.187736 87.74528
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## 1593 0.2000000 8.042638 33.600923 5.3976190 16.223990 79.09848
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## 1596 0.2000000 7.855159 33.589066 6.0068966 12.659091 89.97727
## 1597 0.2000000 8.086000 33.547383 4.9000000 15.845833 85.37500
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## 1601 0.2341667 8.062379 33.547633 3.9750000 17.117424 80.61364
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## 1610 0.5320000 8.120000 33.588000 2.5969048 19.250000 72.15000
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## 1618 0.2000000 7.906119 33.603423 2.6794505 13.917204 78.97849
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## 1638 0.2016111 7.969250 33.620725 6.0234776 14.384848 75.45265
## 1639 0.2032222 7.919458 33.662141 5.8815705 14.103030 74.69697
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## 1642 0.2080556 7.896915 33.667091 5.4558494 14.066667 74.92929
## 1643 0.2096667 7.910539 33.648858 5.3139423 13.857576 74.67677
## 1644 0.2112778 7.924163 33.630625 5.1720353 13.648485 74.42424
## 1645 0.2128889 7.937787 33.612392 5.0301282 13.618182 73.99242
## 1646 0.2145000 7.951411 33.594158 4.8882212 13.587879 73.56061

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## 1647 0.2161111 7.965035 33.575925 4.7463141 13.557576 73.12879
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## 1649 0.2193333 7.992283 33.539458 4.4625000 13.435849 74.77358
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## 1732 0.2000000 7.907733 33.686163 6.5356359 14.736364 77.81818
## 1733 0.2000000 7.963931 33.662359 6.8660322 13.766569 80.53812
## 1734 0.2000000 8.020129 33.638555 7.1964286 12.796774 83.25806
## 1735 0.2000000 7.918600 33.682747 3.3862069 11.853333 91.20000
## 1736 0.2000000 8.132625 33.624038 10.8230769 15.529167 69.29167
## 1737 0.2000000 8.165730 33.607409 11.7603846 15.328535 70.81061
## 1738 0.2000000 8.198835 33.590780 12.6976923 15.127904 72.32955
## 1739 0.2000000 8.231939 33.574152 13.6350000 14.927273 73.84848
## 1740 0.2000000 8.111000 33.590893 7.1911765 15.373171 80.92683
## 1741 0.2000000 8.116364 33.569732 12.7789474 15.315909 75.06818
## 1742 0.2061111 8.111874 33.572743 11.5182895 17.884848 83.27273
## 1743 0.2122222 8.107384 33.575754 10.2576316 18.133333 83.68182
## 1744 0.2183333 8.102894 33.578764 8.9969737 18.381818 84.09091
## 1745 0.2244444 8.098404 33.581775 7.7363158 17.978788 84.57576
## 1746 0.2305556 8.093914 33.584786 6.4756579 17.575758 85.06061
## 1747 0.2366667 8.089424 33.587797 5.2150000 14.081818 84.12121
## 1748 0.2000000 8.094227 33.589948 4.7236842 13.879545 85.70455
## 1749 0.2000000 8.138738 33.610605 4.6911765 14.364286 87.33333
## 1750 0.2000000 8.074839 33.623123 4.2715126 16.233333 84.15152
## 1751 0.2000000 8.010939 33.635642 3.8518487 17.087879 82.84848
## 1752 0.2000000 7.947039 33.648161 3.4321849 14.891789 85.61779
## 1753 0.2000000 7.883140 33.660680 3.0125210 12.695699 88.38710
## 1754 0.2000000 8.034622 33.620208 2.5928571 14.448649 90.00000

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## 1755 0.2000000 8.148042 33.698329 3.0500000 17.920833 85.95833
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## 1757 0.2019753 7.977161 33.651170 2.9100383 14.424444 88.32323
## 1758 0.2017284 7.994277 33.635905 3.1062835 16.162222 85.64646
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## 1763 0.2004938 8.079858 33.559579 4.0875096 16.496364 81.85455
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## 1765 0.2000000 8.114091 33.529048 4.4800000 15.387879 80.48485
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## 1767 0.2000000 8.021587 33.553837 5.5118421 15.624242 80.36364
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## 1801 0.2000000 8.120000 33.588000 5.5893899 19.240000 72.00000
## 1802 0.2000000 7.909467 33.628987 3.3172414 12.848889 91.26667
## 1803 0.2000000 7.920809 33.620654 4.0820962 14.475758 75.33333
## 1804 0.2000000 7.932151 33.612321 4.8469510 14.624242 75.88889
## 1805 0.2000000 7.943493 33.603988 5.6118058 14.772727 76.44444
## 1806 0.2000000 7.954835 33.595656 6.3766606 14.921212 77.00000
## 1807 0.2000000 7.966177 33.587323 7.1415154 14.629293 76.41414
## 1808 0.2000000 7.977518 33.578990 7.9063702 14.337374 75.82828

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## 1812 0.2000000 8.022886 33.545659 10.9657895 13.911364 68.77273
## 1813 0.2000000 8.101970 33.555206 11.7450000 13.930303 72.63636
## 1814 0.2000000 8.105571 33.564876 6.9441176 14.011905 85.02381
## 1815 0.2000000 8.047806 33.599426 6.9000000 13.264516 87.48387
## 1816 0.2000000 7.910523 33.613616 5.4862069 12.606818 91.06818
## 1817 0.2000000 8.164000 33.589904 7.3307692 14.025000 85.75000
## 1818 0.2000000 7.971650 33.657654 7.2825481 12.204000 90.87000
## 1819 0.2000000 7.974890 33.646584 7.2343269 12.618828 85.17596
## 1820 0.2000000 7.978131 33.635515 7.1861058 13.033657 79.48192
## 1821 0.2000000 7.981371 33.624445 7.1378846 13.448485 73.78788
## 1822 0.2000000 7.984612 33.613376 7.0896635 14.072727 77.90909
## 1823 0.2000000 7.987852 33.602306 7.0414423 13.939394 77.51515
## 1824 0.2000000 7.991093 33.591236 6.9932212 13.930303 73.78788
## 1825 0.2000000 7.994333 33.580167 6.9450000 13.693939 78.39394
## 1826 0.2000000 7.988179 33.578124 7.2533824 13.727922 76.98268
## 1827 0.2000000 7.982024 33.576081 7.5617647 13.761905 75.57143
## 1828 0.2000000 7.985750 33.572120 7.9605263 13.722727 74.50000
## 1829 0.2103333 7.929742 33.588748 5.3178571 13.038710 86.70968
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## 1831 0.2000000 7.906067 33.621573 5.7448276 12.657778 90.08889
## 1832 0.2000000 8.148000 33.603596 4.6384615 14.200000 86.25000
## 1833 0.2000000 7.995029 33.640775 4.8425214 12.357843 90.07843
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## 1835 0.2000000 7.985833 33.632818 5.2506410 13.420291 84.99584
## 1836 0.2000000 7.981234 33.628839 5.4547009 13.951515 82.45455
## 1837 0.2000000 7.976636 33.624860 5.6587607 13.642424 82.90909
## 1838 0.2000000 7.972038 33.620882 5.8628205 13.374747 84.25253
## 1839 0.2000000 7.967439 33.616903 6.0668803 13.107071 85.59596
## 1840 0.2000000 7.962841 33.612924 6.2709402 12.839394 86.93939
## 1841 0.2000000 7.958242 33.608945 6.4750000 12.403030 83.78788
## 1842 0.2026667 7.934841 33.575059 5.8684211 12.097727 84.29545
## 1843 0.2000000 7.931976 33.579574 6.4117647 12.876190 86.97619
## 1844 0.2000000 7.950070 33.594335 6.3899860 13.069913 80.24567
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## 1857 0.2000000 7.955774 33.676968 6.6178571 12.500000 88.35484
## 1858 0.2000000 7.871533 33.765556 4.7586207 11.597778 90.08889
## 1859 0.2000000 8.076417 33.616558 10.6769231 13.808333 69.54167
## 1860 0.2000000 7.881606 33.744439 10.3150000 11.684848 75.36364
## 1861 0.2000000 7.874659 33.742937 4.1764706 11.424390 85.17073
## 1862 0.2000000 7.872045 33.768193 7.4394737 11.543182 79.34091

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## 1863 0.2000000 7.876522 33.773305 6.7445789 12.027273 79.96970
## 1864 0.2000000 7.880998 33.778417 6.0496842 12.966667 68.33333
## 1865 0.2000000 7.885474 33.783529 5.3547895 11.964833 79.16167
## 1866 0.2000000 7.889950 33.788641 4.6598947 10.963000 89.99000
## 1867 0.2000000 8.017273 33.662330 3.9650000 12.375758 83.15152
## 1868 0.2000000 7.929651 33.638723 3.2921053 12.720930 83.11628
## 1869 0.2000000 7.895500 33.660629 6.7382353 12.890476 84.76190
## 1870 0.2000000 7.888689 33.679615 6.8705882 13.593939 84.48485
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## 1874 0.2000000 7.861444 33.755560 7.4000000 11.357778 90.24444
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## 1878 0.2000000 7.920770 33.843444 7.6571429 11.330000 89.99000
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## 1882 0.2000000 7.859323 33.790403 6.5642857 11.629032 85.22581
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## 1884 0.2000000 8.222417 33.698954 4.1423077 14.100000 79.66667
## 1885 0.2000000 8.184846 33.701104 4.3397285 13.960606 80.19697
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## 1889 0.2000000 8.034561 33.709702 5.1294118 13.695122 84.29268
## 1890 0.2000000 7.953939 33.734685 8.2050000 12.569697 77.96970
## 1891 0.2000000 7.967182 33.761627 7.5578947 12.122727 78.47727
## 1892 0.2000000 7.926448 33.787135 7.4655075 13.590909 78.84848
## 1893 0.2000000 7.885713 33.812642 7.3731203 12.509517 84.14299
## 1894 0.2000000 7.844979 33.838149 7.2807331 11.428125 89.43750
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## 1913 0.2000000 8.063422 33.649727 4.7447368 14.304444 83.88889
## 1914 0.2011000 8.017518 33.659990 4.6514098 15.335556 83.48990
## 1915 0.2022000 7.971614 33.670254 4.5580827 16.366667 83.09091
## 1916 0.2033000 7.925710 33.680517 4.4647556 15.075269 85.28739

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## 1917 0.2044000 7.879806 33.690781 4.3714286 13.783871 87.48387
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## 1920 0.2077000 7.816407 33.717180 6.2161686 17.939394 84.75758
## 1921 0.2088000 7.835236 33.726327 6.4116475 16.777273 83.95455
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## 1961 0.2291615 7.912256 33.485895 2.4103448 12.400000 90.23256
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## 1963 0.2253923 7.938166 33.418960 2.8802036 15.042235 83.94508
## 1964 0.2235077 7.914124 33.462832 3.0565611 15.630303 83.51515
## 1965 0.2216231 7.890082 33.506705 3.2329186 15.430303 85.00000
## 1966 0.2197385 7.866040 33.550577 3.4092760 12.450495 89.47525
## 1967 0.2178538 7.904571 33.493638 3.5856335 14.072217 86.14671
## 1968 0.2159692 7.943103 33.436698 3.7619910 15.693939 82.81818
## 1969 0.2140846 7.981635 33.379759 3.9383484 15.475758 83.24242
## 1970 0.2122000 8.020167 33.322819 4.1147059 14.261905 86.04762

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## 1971 0.2001667 8.024756 33.310847 4.5131579 14.188889 84.37778
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## 1973 0.2175694 7.942097 33.415845 2.6321429 13.351613 84.16129
## 1974 0.2159722 8.048833 33.392458 4.8923077 15.170833 78.62500
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## 1980 0.2063889 7.938735 33.462867 3.5194596 13.132353 89.42157
## 1981 0.2047917 7.951485 33.445948 3.6474894 14.793939 78.42424
## 1982 0.2031944 7.964234 33.429030 3.7755193 15.106061 78.16667
## 1983 0.2015972 7.976984 33.412112 3.9035491 15.418182 77.90909
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## 1987 0.2118533 7.983677 33.385184 3.0285714 14.103226 86.25806
## 1988 0.2110067 8.063250 33.373321 4.1884615 15.725000 77.37500
## 1989 0.2101600 7.929867 33.461573 3.3827586 13.108889 87.60000
## 1990 0.2093133 7.931072 33.458876 3.4004454 13.051616 87.52323
## 1991 0.2084667 7.932277 33.456179 3.4181322 12.994343 87.44646
## 1992 0.2076200 7.933482 33.453481 3.4358190 12.937071 87.36970
## 1993 0.2067733 7.934687 33.450784 3.4535057 12.879798 87.29293
## 1994 0.2059267 7.944612 33.435880 3.4711925 14.927273 75.18182
## 1995 0.2050800 7.954538 33.420976 3.4888793 14.642424 73.63636
## 1996 0.2042333 7.964463 33.406072 3.5065661 14.357576 72.09091
## 1997 0.2033867 7.974389 33.391168 3.5242529 14.072727 70.54545
## 1998 0.2025400 7.984314 33.376264 3.5419397 14.108081 71.71717
## 1999 0.2016933 7.994240 33.361360 3.5596264 14.143434 72.88889
## 2000 0.2008467 8.004165 33.346456 3.5773132 14.178788 74.06061
## 2001 0.2000000 8.014091 33.331552 3.5950000 14.036364 75.54545
## 2002 0.2000000 8.021165 33.339878 4.6063235 14.256277 74.17749
## 2003 0.2000000 8.028238 33.348205 5.6176471 14.476190 72.80952
## 2004 0.2000000 8.041311 33.338380 5.2684211 14.642222 73.42222
## 2005 0.2000000 8.002188 33.370032 3.5859962 14.757576 71.39394
## 2006 0.2000000 7.963065 33.401684 1.9035714 13.506452 85.22581
## 2007 0.2000000 7.916000 33.483973 1.3000000 12.922727 89.97727
## 2008 0.2000000 7.935958 33.366483 3.6000000 14.079167 79.04167
## 2009 0.2000000 7.926763 33.396615 3.5577778 14.538068 80.67235
## 2010 0.2000000 7.917567 33.426746 3.5155556 14.996970 82.30303
## 2011 0.2000000 7.908372 33.456877 3.4733333 14.681818 75.27273
## 2012 0.2000000 7.899176 33.487009 3.4311111 13.809046 81.62166
## 2013 0.2000000 7.889980 33.517140 3.3888889 12.936275 87.97059
## 2014 0.2000000 7.935750 33.484376 3.3466667 14.039349 87.15196
## 2015 0.2000000 7.981520 33.451611 3.3044444 15.142424 86.33333
## 2016 0.2000000 8.027291 33.418846 3.2622222 15.239394 86.78788
## 2017 0.2000000 8.073061 33.386082 3.2200000 14.854545 83.09091
## 2018 0.2000000 8.072159 33.381552 3.2368421 14.838636 81.63636
## 2019 0.2000000 8.070595 33.397433 2.4558824 14.883333 87.85714
## 2020 0.2000000 7.968524 33.424071 5.7153846 13.142857 90.00000
## 2021 0.2000000 7.969526 33.409932 2.9142857 14.178947 89.00000
## 2022 0.2000000 7.964694 33.302100 3.4550000 15.269444 85.08333
## 2023 0.2000000 8.045000 33.352609 2.1187500 14.513636 90.27273
## 2024 0.2000000 8.014684 33.395558 2.2381250 14.894697 81.92424

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## 2025 0.2000000 7.984368 33.438507 2.3575000 15.275758 73.57576
## 2026 0.2000000 7.954051 33.481455 2.4768750 13.979545 82.40553
## 2027 0.2000000 7.923735 33.524404 2.5962500 12.683333 91.23529
## 2028 0.2000000 7.925804 33.511827 2.7156250 15.157576 80.00000
## 2029 0.2000000 7.927873 33.499250 2.8350000 15.068182 79.10606
## 2030 0.2000000 7.929942 33.486674 2.9543750 14.978788 78.21212
## 2031 0.2000000 7.932011 33.474097 3.0737500 14.849242 78.55303
## 2032 0.2000000 7.934080 33.461520 3.1931250 14.719697 78.89394
## 2033 0.2000000 7.936149 33.448943 3.3125000 14.590152 79.23485
## 2034 0.2000000 7.938218 33.436367 3.4318750 14.460606 79.57576
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## 2036 0.2000000 7.942355 33.411213 3.6706250 14.627273 79.63636
## 2037 0.2000000 7.944424 33.398636 3.7900000 13.654545 80.57576
## 2038 0.2000000 7.927167 33.444195 3.1764706 13.380952 83.35714
## 2039 0.2000000 7.962386 33.402793 5.1342105 13.852273 76.52273
## 2040 0.2083333 7.798461 33.713014 4.9327530 11.872549 89.85294
## 2041 0.2166667 7.817179 33.636586 4.7312955 12.117953 86.34804
## 2042 0.2250000 7.835897 33.560159 4.5298381 12.363358 82.84314
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## 2059 0.3937500 7.962340 33.719749 4.7940828 13.703030 76.03030
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## 2062 0.4206250 7.869014 33.805803 5.3958580 13.239394 77.23485
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## 2065 0.4475000 7.775687 33.891857 5.9976331 11.538503 82.37834
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## 2073 0.2250000 7.838806 33.763332 3.2285714 12.306452 84.87097
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## 2075 0.2500000 7.885028 33.818005 4.0061589 13.484848 80.34470
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## 2077 0.2750000 7.713499 33.872678 3.8877074 12.340241 83.31283
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## 2079 0.3000000 7.704531 33.841543 3.7692559 12.242543 85.32620
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## 2081 0.3250000 7.858123 33.724599 3.6508044 14.506061 80.60606
## 2082 0.3375000 7.934918 33.666127 3.5915787 14.056602 80.91017
## 2083 0.3500000 8.011714 33.607655 3.5323529 13.607143 81.21429
## 2084 0.4833333 8.045089 33.584516 4.3973684 14.917778 76.53333
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## 2092 0.2000000 7.743429 33.771506 2.9285714 11.630612 87.82653
## 2093 0.2000000 7.769200 33.751122 2.9714286 14.009246 84.35266
## 2094 0.2000000 7.794972 33.730737 3.0142857 16.387879 80.87879
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## 2107 0.2000000 8.073614 33.471917 3.6410428 17.737374 81.59596
## 2108 0.2000000 8.068370 33.466506 3.8233690 17.166667 82.66667
## 2109 0.2000000 8.063126 33.461095 4.0056952 16.649495 82.51515
## 2110 0.2000000 8.057882 33.455683 4.1880214 16.132323 82.36364
## 2111 0.2000000 8.052638 33.450272 4.3703476 15.615152 82.21212
## 2112 0.2000000 8.047394 33.444861 4.5526738 15.351515 79.69697
## 2113 0.2000000 7.999939 33.366182 4.7350000 13.512121 77.27273
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## 2115 0.2000000 7.988690 33.445660 3.3264706 13.154762 83.66667
## 2116 0.2722222 8.007500 33.436183 3.4757516 14.804167 77.33333
## 2117 0.3444444 8.023333 33.440618 3.6250327 14.145455 77.78788
## 2118 0.4166667 8.110848 33.426124 3.7743137 16.196970 76.69697
## 2119 0.4888889 8.074629 33.426685 3.9235948 15.872727 77.14394
## 2120 0.5611111 8.038409 33.427245 4.0728758 15.548485 77.59091
## 2121 0.6333333 8.002189 33.427806 4.2221569 15.224242 78.03788
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## 2129 0.5666667 8.071419 33.377374 7.1187500 17.543434 73.09343
## 2130 0.6888889 8.085588 33.372235 7.2472222 17.586869 73.06187
## 2131 0.8111111 8.099758 33.367097 7.3756944 17.630303 73.03030
## 2132 0.9333333 8.073205 33.351057 7.5041667 16.988636 74.20455

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## 2133 1.0555556 8.046652 33.335017 7.6326389 16.346970 75.37879
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## 2135 1.3000000 7.993545 33.302936 7.8895833 15.063636 77.72727
## 2136 1.4222222 8.032364 33.280633 8.0180556 15.203030 71.89394
## 2137 1.5444444 8.071182 33.258330 8.1465278 15.342424 66.06061
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## 2159 0.3048951 8.009364 33.157015 4.4658242 15.700000 78.69697
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## 2163 0.2629371 8.051636 33.166248 4.3554945 14.821212 81.03030
## 2164 0.2524476 8.045561 33.174683 4.3279121 14.962784 81.31439
## 2165 0.2419580 8.039485 33.183118 4.3003297 15.104356 81.59848
## 2166 0.2314685 8.033409 33.191553 4.2727473 15.245928 81.88258
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## 2179 0.2500000 8.078152 33.195594 2.8752941 13.757576 81.60606
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## 2187 0.5000000 8.060698 33.231972 4.0955882 13.269603 86.43254
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## 2216 0.2000000 8.007919 33.146638 5.4958824 14.897980 81.15152
## 2217 0.2000000 7.960333 33.147970 5.4907843 14.933333 81.96970
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## 2232 0.2000000 7.898917 33.354919 4.2809955 12.129167 84.81250
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## 2244 0.2000000 8.051556 33.394972 4.2250000 13.777778 79.61111
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## 2246 0.2000000 8.162212 33.376230 5.1912500 17.296970 73.24242
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## 2509 0.2000000 8.230545 33.383727 4.7290045 15.709091 77.54545
## 2510 0.2000000 8.301909 33.385455 4.6558371 15.721212 75.66667

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## 2779 0.2000000 8.212768 33.786459 3.5553947 14.812121 81.40404
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## 3049 0.2000000 8.031909 33.389618 5.3790000 15.272727 80.30303
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## 4027 0.2000000 8.077879 33.537939 4.4311765 15.035152 73.66273
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## 4029 0.2000000 8.088182 33.539682 4.5008824 15.209545 75.78712
## 4030 0.2000000 8.093333 33.540553 4.5357353 15.296742 76.84932
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## 4033 0.2000000 8.156330 33.524569 4.6402941 15.405320 73.23673
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## 4035 0.2000000 8.321111 33.503222 4.7100000 15.051111 75.86111
## 4036 0.2000000 8.192847 33.521799 4.8583333 15.094931 77.82014
## 4037 0.2000000 8.064583 33.540375 5.0066667 15.138750 79.77917
## 4038 0.2000000 8.055870 33.541697 5.1550000 14.987273 74.89061
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## 4042 0.4527778 7.852045 33.651295 3.8729825 12.080455 87.28273
## 4043 0.4333333 7.880238 33.603929 3.8673684 12.451429 85.03190
## 4044 0.4138889 7.927734 33.569902 3.8617544 12.907114 80.43915
## 4045 0.3944444 7.975231 33.535875 3.8561404 13.362799 75.84639
## 4046 0.3750000 8.022727 33.501848 3.8505263 13.818485 71.25364
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## 4048 0.3361111 8.109394 33.483697 3.8392982 15.153636 84.49545
## 4049 0.3166667 8.114924 33.469864 3.8336842 15.379167 79.96818
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## 8067	NA	NA	NA	NA	NA	NA
## 8068	NA	NA	NA	NA	NA	NA
## 8069	NA	NA	NA	NA	NA	NA
## 8070	NA	NA	NA	NA	NA	NA
## 8071	NA	NA	NA	NA	NA	NA
## 8072	NA	NA	NA	NA	NA	NA

## 8073	NA	NA	NA	NA	NA	NA
## 8074	NA	NA	NA	NA	NA	NA
## 8075	NA	NA	NA	NA	NA	NA
## 8076	NA	NA	NA	NA	NA	NA
## 8077	NA	NA	NA	NA	NA	NA
## 8078	NA	NA	NA	NA	NA	NA
## 8079	NA	NA	NA	NA	NA	NA
## 8080	NA	NA	NA	NA	NA	NA
## 8081	NA	NA	NA	NA	NA	NA
## 8082	NA	NA	NA	NA	NA	NA
## 8083	NA	NA	NA	NA	NA	NA
## 8084	NA	NA	NA	NA	NA	NA
## 8085	NA	NA	NA	NA	NA	NA
## 8086	NA	NA	NA	NA	NA	NA
## 8087	NA	NA	NA	NA	NA	NA
## 8088	NA	NA	NA	NA	NA	NA
## 8089	NA	NA	NA	NA	NA	NA
## 8090	NA	NA	NA	NA	NA	NA
## 8091	NA	NA	NA	NA	NA	NA
## 8092	NA	NA	NA	NA	NA	NA
## 8093	NA	NA	NA	NA	NA	NA
## 8094	NA	NA	NA	NA	NA	NA
## 8095	NA	NA	NA	NA	NA	NA
## 8096	NA	NA	NA	NA	NA	NA
## 8097	NA	NA	NA	NA	NA	NA
## 8098	NA	NA	NA	NA	NA	NA
## 8099	NA	NA	NA	NA	NA	NA
## 8100	NA	NA	NA	NA	NA	NA
## 8101	NA	NA	NA	NA	NA	NA
## 8102	NA	NA	NA	NA	NA	NA
## 8103	NA	NA	NA	NA	NA	NA
## 8104	NA	NA	NA	NA	NA	NA
## 8105	NA	NA	NA	NA	NA	NA
## 8106	NA	NA	NA	NA	NA	NA
## 8107	NA	NA	NA	NA	NA	NA
## 8108	NA	NA	NA	NA	NA	NA
## 8109	NA	NA	NA	NA	NA	NA
## 8110	NA	NA	NA	NA	NA	NA
## 8111	NA	NA	NA	NA	NA	NA
## 8112	NA	NA	NA	NA	NA	NA
## 8113	NA	NA	NA	NA	NA	NA
## 8114	NA	NA	NA	NA	NA	NA
## 8115	NA	NA	NA	NA	NA	NA
## 8116	NA	NA	NA	NA	NA	NA
## 8117	NA	NA	NA	NA	NA	NA
## 8118	NA	NA	NA	NA	NA	NA
## 8119	NA	NA	NA	NA	NA	NA
## 8120	NA	NA	NA	NA	NA	NA
## 8121	NA	NA	NA	NA	NA	NA
## 8122	NA	NA	NA	NA	NA	NA
## 8123	NA	NA	NA	NA	NA	NA
## 8124	NA	NA	NA	NA	NA	NA
## 8125	NA	NA	NA	NA	NA	NA
## 8126	NA	NA	NA	NA	NA	NA

## 8127	NA	NA	NA	NA	NA	NA
## 8128	NA	NA	NA	NA	NA	NA
## 8129	NA	NA	NA	NA	NA	NA
## 8130	NA	NA	NA	NA	NA	NA
## 8131	NA	NA	NA	NA	NA	NA
## 8132	NA	NA	NA	NA	NA	NA
## 8133	NA	NA	NA	NA	NA	NA
## 8134	NA	NA	NA	NA	NA	NA
## 8135	NA	NA	NA	NA	NA	NA
## 8136	NA	NA	NA	NA	NA	NA
## 8137	NA	NA	NA	NA	NA	NA
## 8138	NA	NA	NA	NA	NA	NA
## 8139	NA	NA	NA	NA	NA	NA
## 8140	NA	NA	NA	NA	NA	NA
## 8141	NA	NA	NA	NA	NA	NA
## 8142	NA	NA	NA	NA	NA	NA
## 8143	NA	NA	NA	NA	NA	NA
## 8144	NA	NA	NA	NA	NA	NA
## 8145	NA	NA	NA	NA	NA	NA
## 8146	NA	NA	NA	NA	NA	NA
## 8147	NA	NA	NA	NA	NA	NA
## 8148	NA	NA	NA	NA	NA	NA
## 8149	NA	NA	NA	NA	NA	NA
## 8150	NA	NA	NA	NA	NA	NA
## 8151	NA	NA	NA	NA	NA	NA
## 8152	NA	NA	NA	NA	NA	NA
## 8153	NA	NA	NA	NA	NA	NA
## 8154	NA	NA	NA	NA	NA	NA
## 8155	NA	NA	NA	NA	NA	NA
## 8156	NA	NA	NA	NA	NA	NA
## 8157	NA	NA	NA	NA	NA	NA
## 8158	NA	NA	NA	NA	NA	NA
## 8159	NA	NA	NA	NA	NA	NA
## 8160	NA	NA	NA	NA	NA	NA
## 8161	NA	NA	NA	NA	NA	NA
## 8162	NA	NA	NA	NA	NA	NA
## 8163	NA	NA	NA	NA	NA	NA
## 8164	NA	NA	NA	NA	NA	NA
## 8165	NA	NA	NA	NA	NA	NA
## 8166	NA	NA	NA	NA	NA	NA
## 8167	NA	NA	NA	NA	NA	NA
## 8168	NA	NA	NA	NA	NA	NA
## 8169	NA	NA	NA	NA	NA	NA
## 8170	NA	NA	NA	NA	NA	NA
## 8171	NA	NA	NA	NA	NA	NA
## 8172	NA	NA	NA	NA	NA	NA
## 8173	NA	NA	NA	NA	NA	NA
## 8174	NA	NA	NA	NA	NA	NA
## 8175	NA	NA	NA	NA	NA	NA
## 8176	NA	NA	NA	NA	NA	NA
## 8177	NA	NA	NA	NA	NA	NA
## 8178	NA	NA	NA	NA	NA	NA
## 8179	NA	NA	NA	NA	NA	NA
## 8180	NA	NA	NA	NA	NA	NA

## 8181	NA	NA	NA	NA	NA	NA
## 8182	NA	NA	NA	NA	NA	NA
## 8183	NA	NA	NA	NA	NA	NA
## 8184	NA	NA	NA	NA	NA	NA
## 8185	NA	NA	NA	NA	NA	NA
## 8186	NA	NA	NA	NA	NA	NA
## 8187	NA	NA	NA	NA	NA	NA
## 8188	NA	NA	NA	NA	NA	NA
## 8189	NA	NA	NA	NA	NA	NA
## 8190	NA	NA	NA	NA	NA	NA
## 8191	NA	NA	NA	NA	NA	NA
## 8192	NA	NA	NA	NA	NA	NA
## 8193	NA	NA	NA	NA	NA	NA
## 8194	NA	NA	NA	NA	NA	NA
## 8195	NA	NA	NA	NA	NA	NA
## 8196	NA	NA	NA	NA	NA	NA
## 8197	NA	NA	NA	NA	NA	NA
## 8198	NA	NA	NA	NA	NA	NA
## 8199	NA	NA	NA	NA	NA	NA
## 8200	NA	NA	NA	NA	NA	NA
## 8201	NA	NA	NA	NA	NA	NA
## 8202	NA	NA	NA	NA	NA	NA
## 8203	NA	NA	NA	NA	NA	NA
## 8204	NA	NA	NA	NA	NA	NA
## 8205	NA	NA	NA	NA	NA	NA
## 8206	NA	NA	NA	NA	NA	NA
## 8207	NA	NA	NA	NA	NA	NA
## 8208	NA	NA	NA	NA	NA	NA
## 8209	NA	NA	NA	NA	NA	NA
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## 8211	NA	NA	NA	NA	NA	NA
## 8212	NA	NA	NA	NA	NA	NA
## 8213	NA	NA	NA	NA	NA	NA
## 8214	NA	NA	NA	NA	NA	NA
## 8215	NA	NA	NA	NA	NA	NA
## 8216	NA	NA	NA	NA	NA	NA
## 8217	NA	NA	NA	NA	NA	NA
## 8218	NA	NA	NA	NA	NA	NA
## 8219	NA	NA	NA	NA	NA	NA
## 8220	NA	NA	NA	NA	NA	NA
## 8221	NA	NA	NA	NA	NA	NA
## 8222	NA	NA	NA	NA	NA	NA
## 8223	NA	NA	NA	NA	NA	NA
## 8224	NA	NA	NA	NA	NA	NA
## 8225	NA	NA	NA	NA	NA	NA
## 8226	NA	NA	NA	NA	NA	NA
## 8227	NA	NA	NA	NA	NA	NA
## 8228	NA	NA	NA	NA	NA	NA
## 8229	NA	NA	NA	NA	NA	NA
## 8230	NA	NA	NA	NA	NA	NA
## 8231	NA	NA	NA	NA	NA	NA
## 8232	NA	NA	NA	NA	NA	NA
## 8233	NA	NA	NA	NA	NA	NA
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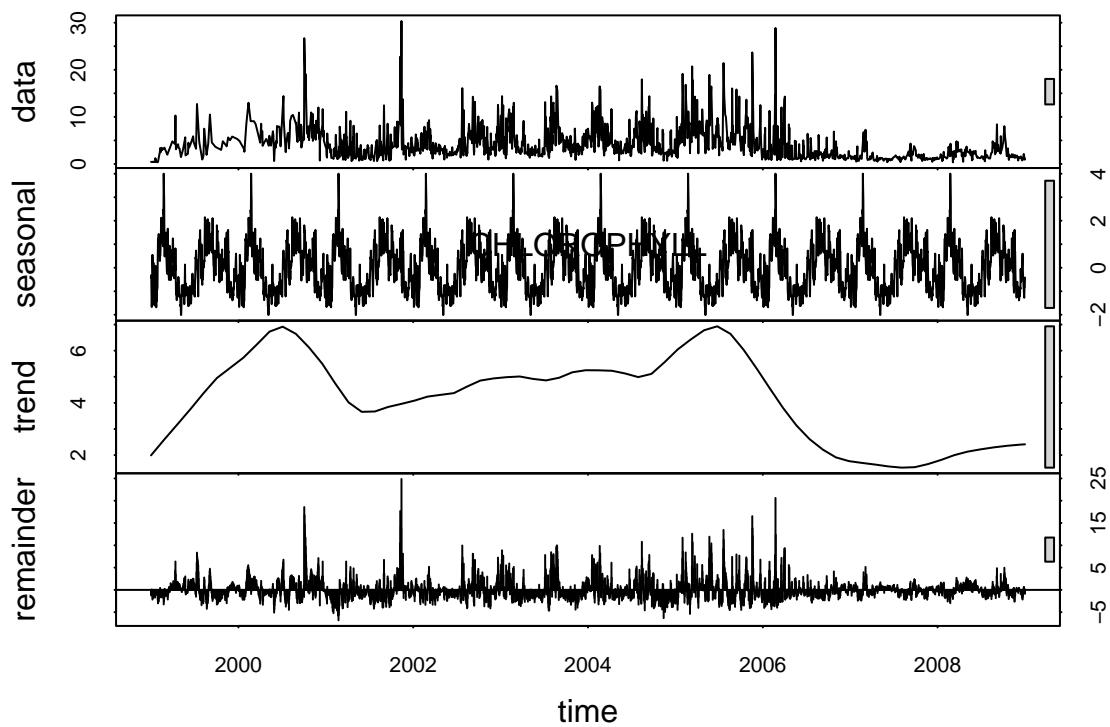
## 8235	NA	NA	NA	NA	NA	NA
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## 8238	NA	NA	NA	NA	NA	NA
## 8239	NA	NA	NA	NA	NA	NA
## 8240	NA	NA	NA	NA	NA	NA
## 8241	NA	NA	NA	NA	NA	NA
## 8242	NA	NA	NA	NA	NA	NA
## 8243	NA	NA	NA	NA	NA	NA
## 8244	NA	NA	NA	NA	NA	NA
## 8245	NA	NA	NA	NA	NA	NA
## 8246	NA	NA	NA	NA	NA	NA
## 8247	NA	NA	NA	NA	NA	NA
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## 8249	NA	NA	NA	NA	NA	NA
## 8250	NA	NA	NA	NA	NA	NA
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## 8253	NA	NA	NA	NA	NA	NA
## 8254	NA	NA	NA	NA	NA	NA
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## 8256	NA	NA	NA	NA	NA	NA
## 8257	NA	NA	NA	NA	NA	NA
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## 8259	NA	NA	NA	NA	NA	NA
## 8260	NA	NA	NA	NA	NA	NA
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## 8262	NA	NA	NA	NA	NA	NA
## 8263	NA	NA	NA	NA	NA	NA
## 8264	NA	NA	NA	NA	NA	NA
## 8265	NA	NA	NA	NA	NA	NA
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## 8267	NA	NA	NA	NA	NA	NA
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## 8270	NA	NA	NA	NA	NA	NA
## 8271	NA	NA	NA	NA	NA	NA
## 8272	NA	NA	NA	NA	NA	NA
## 8273	NA	NA	NA	NA	NA	NA
## 8274	NA	NA	NA	NA	NA	NA
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## 8277	NA	NA	NA	NA	NA	NA
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## 8282	NA	NA	NA	NA	NA	NA
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## 8284	NA	NA	NA	NA	NA	NA
## 8285	NA	NA	NA	NA	NA	NA
## 8286	NA	NA	NA	NA	NA	NA
## 8287	NA	NA	NA	NA	NA	NA
## 8288	NA	NA	NA	NA	NA	NA

```

## 8289      NA      NA      NA      NA      NA      NA
## 8290      NA      NA      NA      NA      NA      NA
## 8291      NA      NA      NA      NA      NA      NA
## 8292      NA      NA      NA      NA      NA      NA
## 8293      NA      NA      NA      NA      NA      NA
## 8294      NA      NA      NA      NA      NA      NA
## 8295      NA      NA      NA      NA      NA      NA
## 8296      NA      NA      NA      NA      NA      NA
## 8297      NA      NA      NA      NA      NA      NA
## 8298      NA      NA      NA      NA      NA      NA
## 8299      NA      NA      NA      NA      NA      NA
## 8300      NA      NA      NA      NA      NA      NA
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## 8303      NA      NA      NA      NA      NA      NA
## 8304      NA      NA      NA      NA      NA      NA
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## 8306      NA      NA      NA      NA      NA      NA
## 8307      NA      NA      NA      NA      NA      NA
## 8308      NA      NA      NA      NA      NA      NA
## 8309      NA      NA      NA      NA      NA      NA
## 8310      NA      NA      NA      NA      NA      NA
## 8311      NA      NA      NA      NA      NA      NA
## 8312      NA      NA      NA      NA      NA      NA
## 8313      NA      NA      NA      NA      NA      NA
## 8314      NA      NA      NA      NA      NA      NA
## 8315      NA      NA      NA      NA      NA      NA
## 8316      NA      NA      NA      NA      NA      NA
## 8317      NA      NA      NA      NA      NA      NA
## 8318      NA      NA      NA      NA      NA      NA
## 8319      NA      NA      NA      NA      NA      NA
## 8320      NA      NA      NA      NA      NA      NA
## 8321      NA      NA      NA      NA      NA      NA
## 8322      NA      NA      NA      NA      NA      NA
## 8323      NA      NA      NA      NA      NA      NA
## 8324      NA      NA      NA      NA      NA      NA
## 8325      NA      NA      NA      NA      NA      NA
## 8326      NA      NA      NA      NA      NA      NA
## 8327      NA      NA      NA      NA      NA      NA
## 8328      NA      NA      NA      NA      NA      NA
## 8329      NA      NA      NA      NA      NA      NA
## 8330      NA      NA      NA      NA      NA      NA
## 8331      NA      NA      NA      NA      NA      NA
## 8332      NA      NA      NA      NA      NA      NA
## 8333      NA      NA      NA      NA      NA      NA
## [ reached 'max' / getOption("max.print") -- omitted 3035 rows ]

##### 5 YEAR - 1996 - 2001 #####
ts_chlorophyll <- ts(owt_df02_gb04_mrgd$CHLOROPHYLL, start = c(1996, 1), freq = 365)
ts_1996_2001_chl <- window(ts_chlorophyll, start=c(1999, 1), end=c(2009, 1))
stl_chl <- stl(ts_1996_2001_chl, s.window="periodic")
#labels.chart = seq(as.Date("1990-11-15"), as.Date("2021-12-29"), by = "weeks")
plot(stl_chl)
mtext("CHLOROPHYLL", side=3, line = -5)

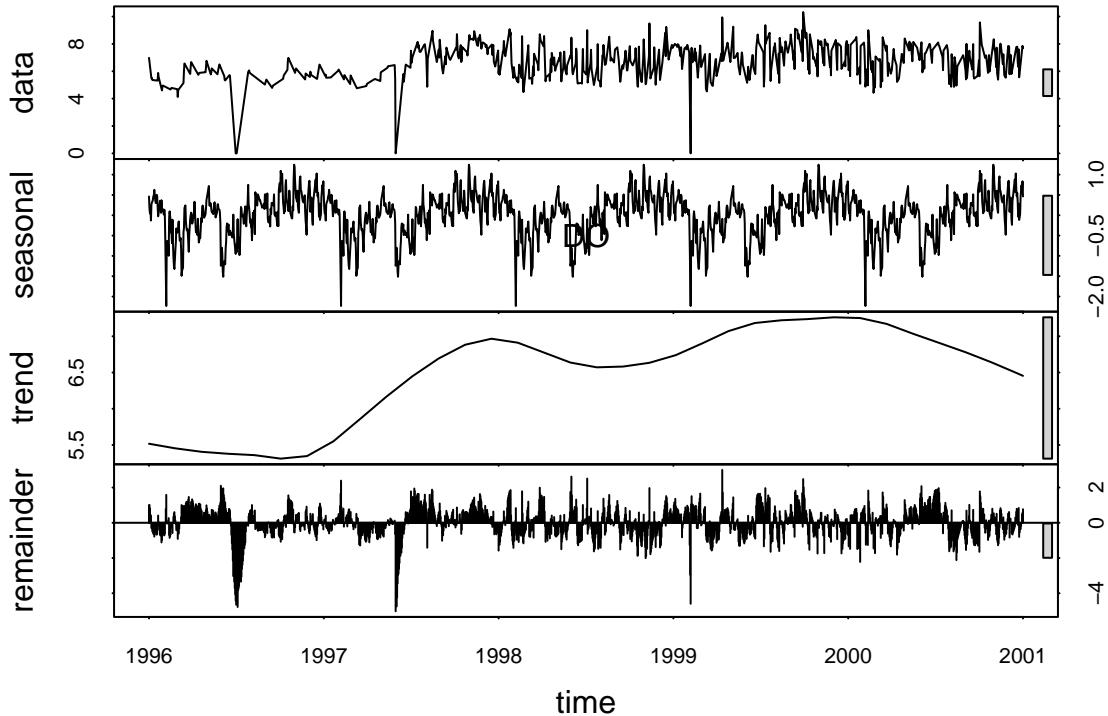
```



```

ts_do <- ts(owt_df02_gb04_mrgd$D0, start = c(1996, 1), freq = 365)
ts_1996_2001_do <- window(ts_do, start=c(1996, 1), end=c(2001, 1))
stl_do <- stl(ts_1996_2001_do, s.window="periodic")
#labels.chart = seq(as.Date("1990-11-15"), as.Date("2021-12-29"), by = "weeks")
plot(stl_do)
mtext("D0", side=3, line = -5)

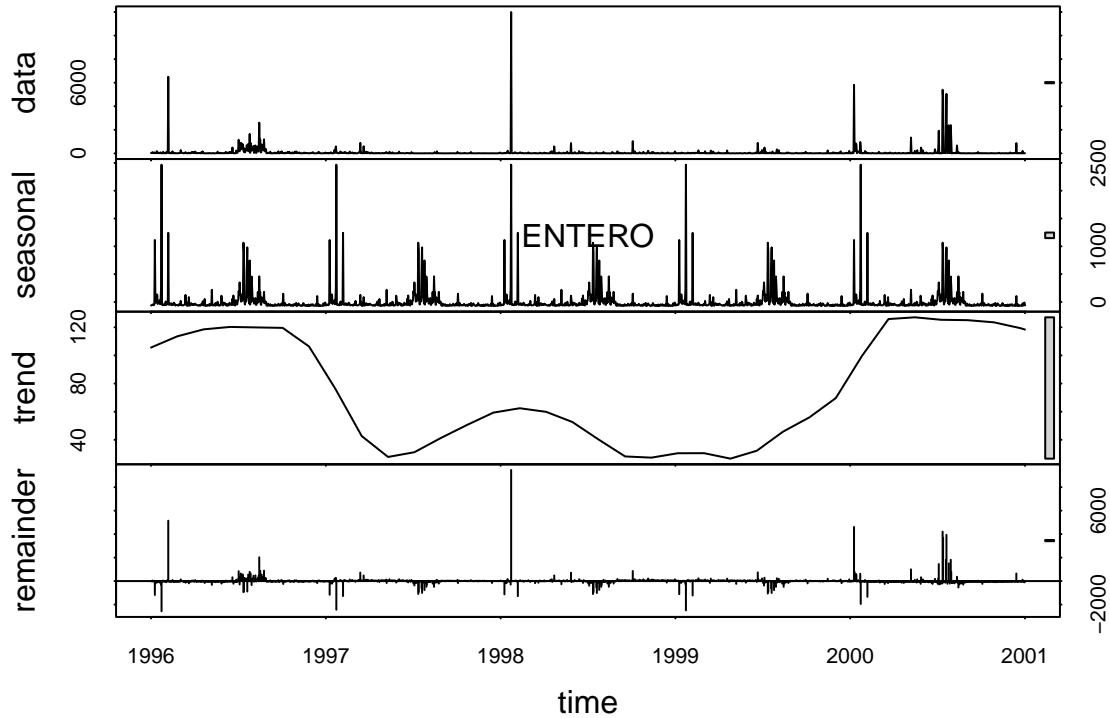
```



```

ts_ent <- ts(owt_df02_gb04_mrgd$ENTERO, start = c(1996, 1), freq = 365)
ts_1996_2001_ent <- window(ts_ent, start=c(1996, 1), end=c(2001, 1))
stl_ent <- stl(ts_1996_2001_ent, s.window="periodic")
#labels.chart = seq(as.Date("1990-11-15"), as.Date("2021-12-29"), by = "weeks")
plot(stl_ent)
mtext("ENTERO", side=3, line = -5)

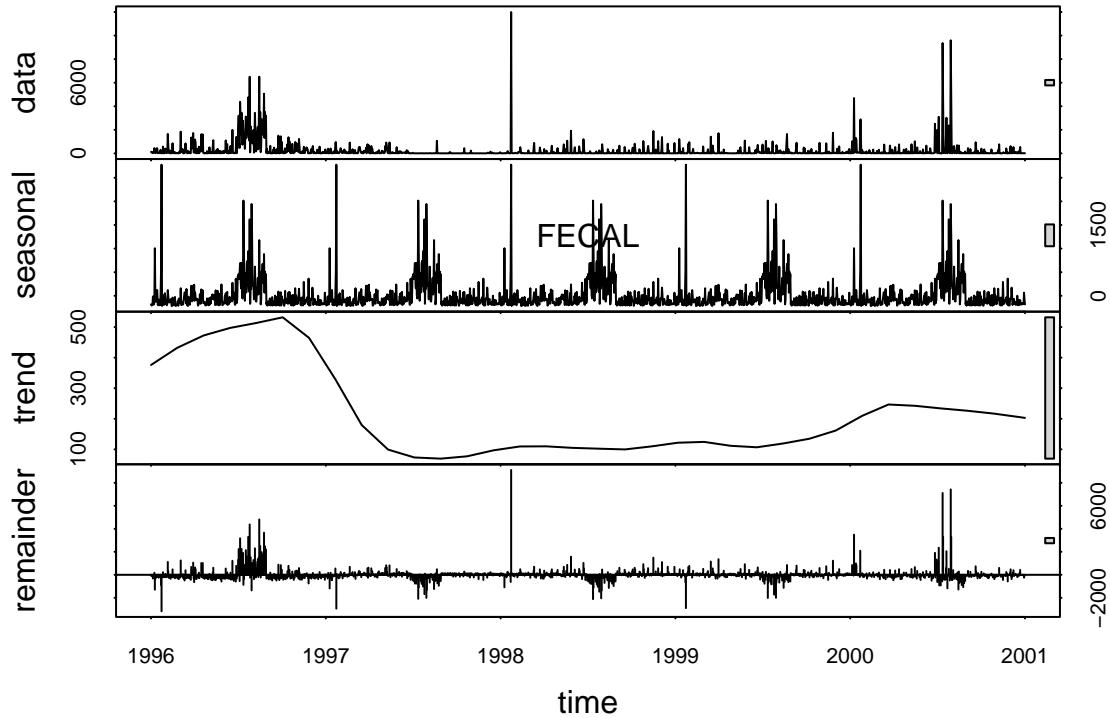
```



```

ts_fecal <- ts(owt_df02_gb04_mrgd$FECAL, start = c(1996, 1), freq = 365)
ts_1996_2001_fecal <- window(ts_fecal, start=c(1996, 1), end=c(2001, 1))
stl_fecal <- stl(ts_1996_2001_fecal, s.window="periodic")
#labels.chart = seq(as.Date("1990-11-15"), as.Date("2021-12-29"), by = "weeks")
plot(stl_fecal)
mtext("FECAL", side=3, line = -5)

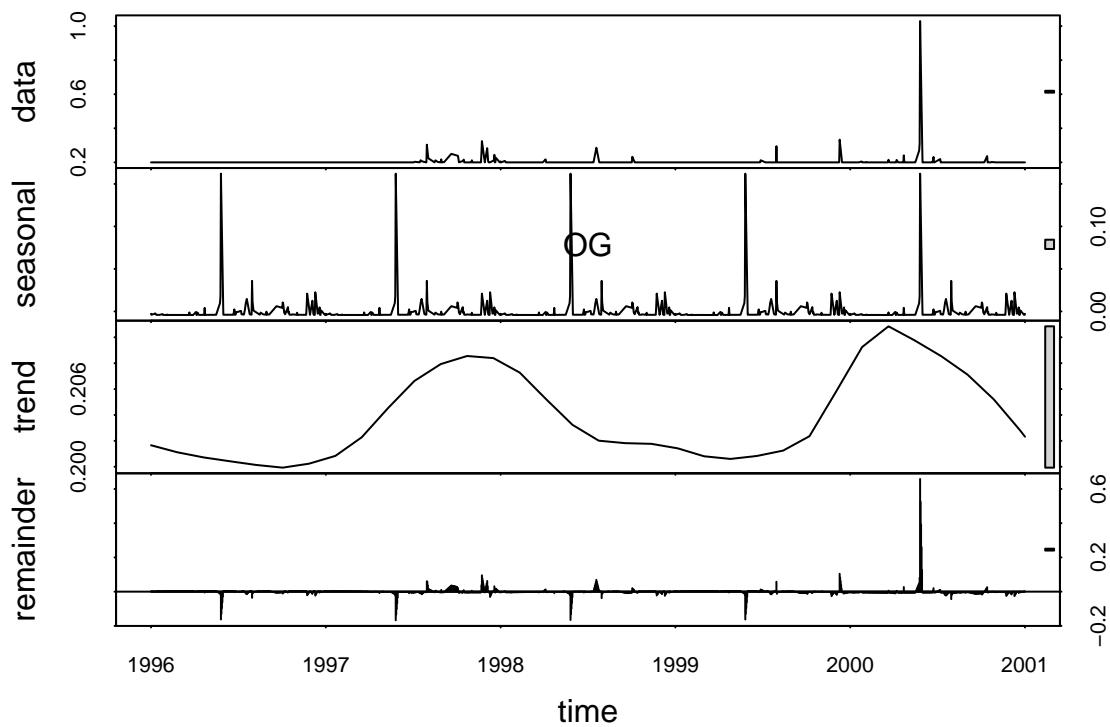
```



```

ts_og <- ts(owt_df02_gb04_mrgd$OG, start = c(1996, 1), freq = 365)
ts_1996_2001_og <- window(ts_og, start=c(1996, 1), end=c(2001, 1))
stl_og <- stl(ts_1996_2001_og, s.window="periodic")
#labels.chart = seq(as.Date("1990-11-15"), as.Date("2021-12-29"), by = "weeks")
plot(stl_og)
mtext("OG", side=3, line = -5)

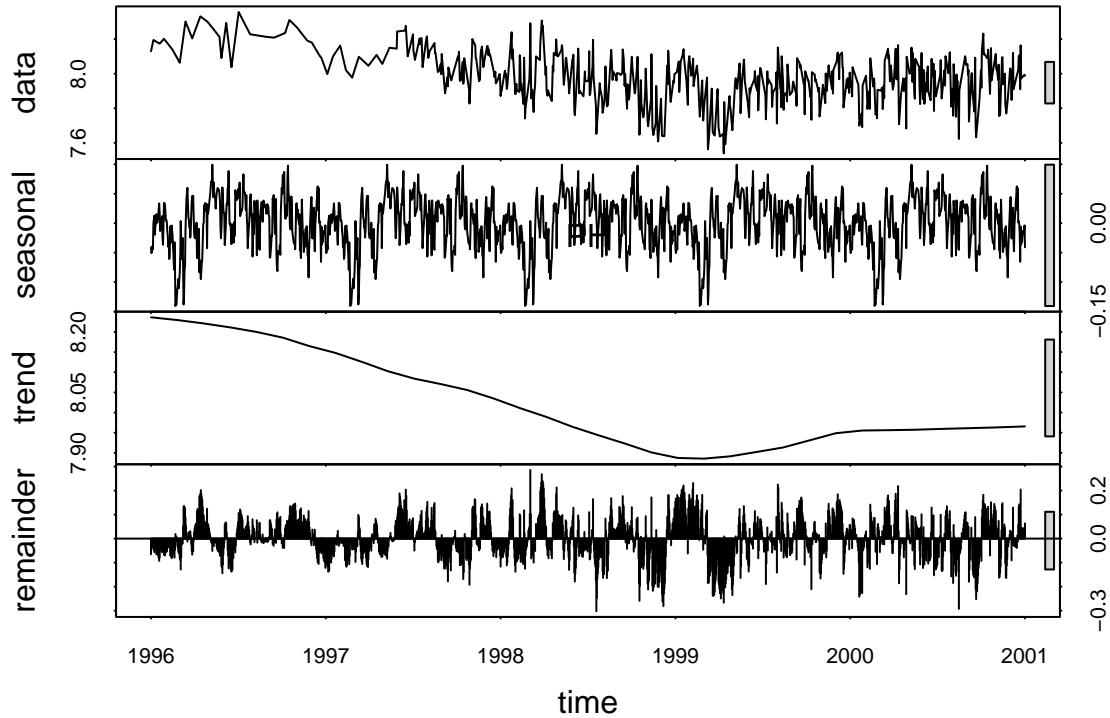
```



```

ts_ph <- ts(owt_df02_gb04_mrgd$PH, start = c(1996, 1), freq = 365)
ts_1996_2001_ph <- window(ts_ph, start=c(1996, 1), end=c(2001, 1))
stl_ph <- stl(ts_1996_2001_ph, s.window="periodic")
#labels.chart = seq(as.Date("1990-11-15"), as.Date("2021-12-29"), by = "weeks")
plot(stl_ph)
mtext("PH", side=3, line = -5)

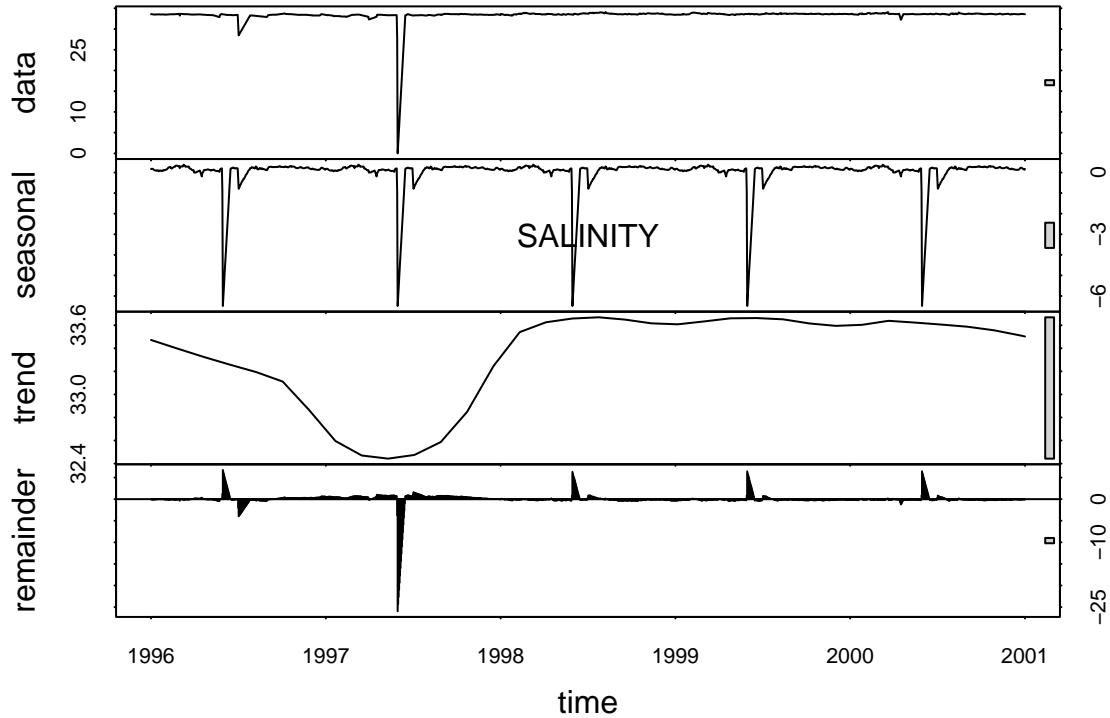
```



```

ts_salinity <- ts(owt_df02_gb04_mrgd$SALINITY, start = c(1996, 1), freq = 365)
ts_1996_2001_salinity <- window(ts_salinity, start=c(1996, 1), end=c(2001, 1))
stl_salinity <- stl(ts_1996_2001_salinity, s.window="periodic")
#labels.chart = seq(as.Date("1990-11-15"), as.Date("2021-12-29"), by = "weeks")
plot(stl_salinity)
mtext("SALINITY", side=3, line = -5)

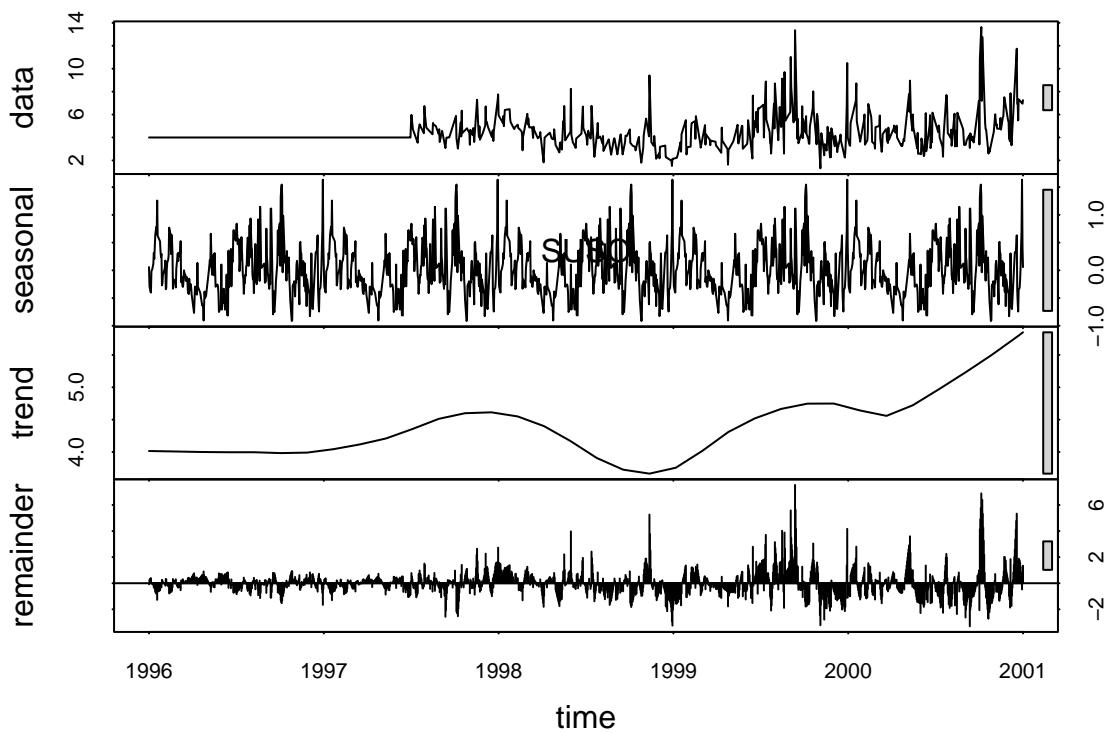
```



```

ts_suso <- ts(owt_df02_gb04_mrgd$SUSO, start = c(1996, 1), freq = 365)
ts_1996_2001_suso <- window(ts_suso, start=c(1996, 1), end=c(2001, 1))
stl_suso <- stl(ts_1996_2001_suso, s.window="periodic")
#labels.chart = seq(as.Date("1990-11-15"), as.Date("2021-12-29"), by = "weeks")
plot(stl_suso)
mtext("SUSO", side=3, line = -5)

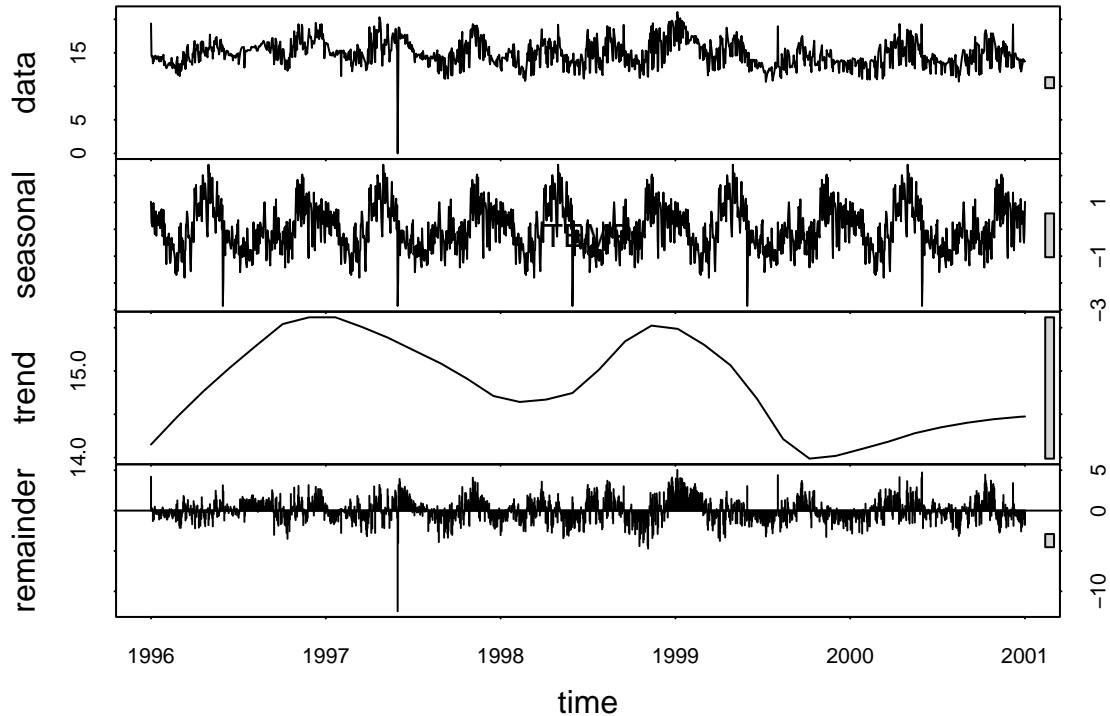
```



```

ts_temp <- ts(owt_df02_gb04_mrgd$TEMP, start = c(1996, 1), freq = 365)
ts_1996_2001_temp <- window(ts_temp, start=c(1996, 1), end=c(2001, 1))
stl_temp <- stl(ts_1996_2001_temp, s.window="periodic")
#labels.chart = seq(as.Date("1990-11-15"), as.Date("2021-12-29"), by = "weeks")
plot(stl_temp)
mtext("TEMP", side=3, line = -5)

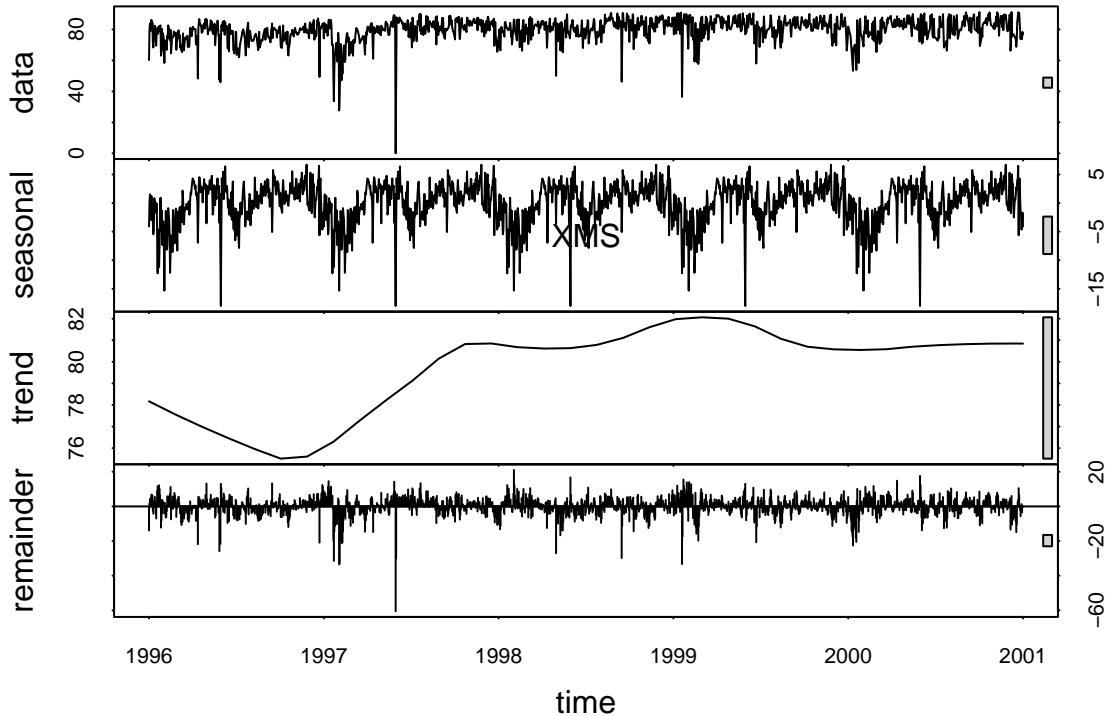
```



```

ts_xms <- ts(owt_df02_gb04_mrgd$XMS, start = c(1996, 1), freq = 365)
ts_1996_2001_xms <- window(ts_xms, start=c(1996, 1), end=c(2001, 1))
stl_xms <- stl(ts_1996_2001_xms, s.window="periodic")
#labels.chart = seq(as.Date("1990-11-15"), as.Date("2021-12-29"), by = "weeks")
plot(stl_xms)
mtext("XMS", side=3, line = -5)

```



```
{r CC-EDA-STL-1YEARPERIOD}
```

1 YEAR - 2001

```
ts_chlorophyll <- ts(owt_df02_gb04_mrgd$CHLOROPHYLL, start = c(2001, 1), freq = 365)
ts_1996_2001_chl <- window(ts_chlorophyll, start=c(2001, 1), end=c(2001, 2)) plot(ts_1996_2001_chl)
stl_chl <- stl(ts_1996_2001_chl, s.window="periodic") #labels.chart = seq(as.Date("1990-11-15"),
as.Date("2021-12-29"), by = "weeks") plot(stl_chl) mtext("CHLOROPHYLL", side=3, line = -5)
```

```
library(forecast)
```

```
## Warning: package 'forecast' was built under R version 4.2.1
```

```
# All parameters exhibited seasonal cycles within a year range, so
# it would make sense to have several years worth of datapoints for the training period.
# This set below can be used for all parameters.
train <- head(owt_df02_gb04_mrgd, round(NROW(owt_df02_gb04_mrgd) * 0.6))
h <- length(owt_df02_gb04_mrgd) - NROW(train)
test <- tail(owt_df02_gb04_mrgd, h)
```

Display new dataframes

```
#print(head(owt_df02_gb04_mrgd, 17))
#print(head(owt_df02_gb09_mrgd, 17))
#print(head(owt_df02_gb07_mrgd, 17))

owt_df02_gb04_tbbl <- as_tibble(owt_df02_gb04_mrgd, index = date_sample)
```

```

owt_df02_gb04_wkly_tbbl <- as_tibble(owt_df02_gb04_wkly, index = date_sample)
owt_df02_gb09_tbbl <- as_tibble(owt_df02_gb09_mrgd, key = project, index = date_sample)
owt_df02_gb09_wkly_tbbl <- as_tibble(owt_df02_gb09_wkly, key = project, index =
  ~ date_sample)
owt_df02_gb07_tbbl <- as_tibble(owt_df02_gb07_mrgd, key = c(project, depth_m_bin), index
  ~ = date_sample)
owt_df02_gb07_wkly_tbbl <- as_tibble(owt_df02_gb07_wkly, key = c(project, depth_m_bin),
  ~ index = date_sample)

print(head(owt_df02_gb04_tbbl, 17))

## # A tibble: 17 x 12
##   date_sam~1 CHLOR~2 DENSITY DO    ENTERO FECAL OG     PH    SALIN~3 SUSO TEMP
##   <date>      <zoo>    <zoo>    <zoo> <zoo> <zoo> <zoo> <zoo>    <zoo> <zoo>
## 1 1990-11-15 1.0700~ 23.854~ 6.98~  32.0~ 125.~ 0.2  8.13~ 33.595~ 3.99~ 19.3~
## 2 1991-01-02 1.0690~ 23.854~ 6.67~  32.0~ 125.~ 0.2  8.14~ 33.580~ 3.99~ 14.5~
## 3 1991-01-03 1.0680~ 23.854~ 6.37~  18.7~ 51.~ 0.2  8.15~ 33.565~ 3.99~ 14.3~
## 4 1991-01-07 1.0671~ 23.854~ 6.07~  106.1~ 80.~ 0.2  8.16~ 33.549~ 3.99~ 14.5~
## 5 1991-01-08 1.0661~ 23.854~ 5.77~  40.0~ 40.~ 0.2  8.18~ 33.534~ 3.99~ 13.4~
## 6 1991-01-09 1.0652~ 23.854~ 5.47~  20.3~ 40.~ 0.2  8.19~ 33.519~ 3.99~ 14.2~
## 7 1991-01-10 1.0642~ 23.854~ 5.50~  40.2~ 78.~ 0.2  8.19~ 33.493~ 3.99~ 13.7~
## 8 1991-01-11 1.0633~ 23.854~ 5.36~  83.9~ 446.~ 0.2 8.19~ 33.491~ 3.99~ 14.3~
## 9 1991-01-14 1.0623~ 23.854~ 5.35~  33.8~ 95.~ 0.2  8.19~ 33.495~ 3.99~ 14.5~
## 10 1991-01-16 1.0614~ 23.854~ 5.35~  12.5~ 23.~ 0.2  8.18~ 33.499~ 3.99~ 14.5~
## 11 1991-01-22 1.0604~ 23.855~ 5.34~  20.5~ 31.~ 0.2  8.18~ 33.503~ 3.99~ 14.5~
## 12 1991-01-23 1.0595~ 23.855~ 5.34~  43.1~ 108.~ 0.2 8.18~ 33.508~ 3.99~ 14.0~
## 13 1991-01-28 1.0585~ 23.855~ 5.34~  183.0~ 427.~ 0.2 8.18~ 33.512~ 3.99~ 14.2~
## 14 1991-01-30 1.0576~ 23.855~ 5.33~  125.3~ 429.~ 0.2 8.18~ 33.516~ 3.99~ 14.1~
## 15 1991-02-04 1.0566~ 23.855~ 5.33~  16.2~ 16.~ 0.2  8.18~ 33.521~ 3.99~ 14.4~
## 16 1991-02-06 1.0557~ 23.855~ 5.32~  17.3~ 12.~ 0.2  8.17~ 33.525~ 3.99~ 14.4~
## 17 1991-02-11 1.0547~ 23.855~ 5.32~  51.8~ 55.~ 0.2  8.17~ 33.529~ 3.99~ 13.8~

## # ... with 1 more variable: XMS <zoo>, and abbreviated variable names
## #   1: date_sample, 2: CHLOROPHYLL, 3: SALINITY

print(head(owt_df02_gb04_wkly_tbbl, 17))

## # A tibble: 17 x 12
##   date_sam~1 CHLOR~2 DENSITY DO    ENTERO FECAL OG     PH    SALIN~3 SUSO TEMP
##   <date>      <zoo>    <zoo>    <zoo> <zoo> <zoo> <zoo> <zoo>    <zoo> <zoo>
## 1 1990-11-19 1.0700~ 23.854~ 6.98~  25.~ 88.~ 0.2  8.13~ 33.595~ 5.06~ 19.3~
## 2 1991-01-07 1.0669~ 23.854~ 6.21~  25.~ 88.~ 0.2  8.16~ 33.548~ 5.06~ 14.4~
## 3 1991-01-14 1.0639~ 23.854~ 5.44~  58.~ 137.~ 0.2 8.19~ 33.501~ 5.06~ 14.0~
## 4 1991-01-21 1.0608~ 23.854~ 5.47~  23.~ 59.~ 0.2  8.19~ 33.504~ 5.06~ 14.5~
## 5 1991-01-28 1.0578~ 23.855~ 5.50~  31.~ 69.~ 0.2  8.18~ 33.507~ 5.06~ 14.2~
## 6 1991-02-04 1.0547~ 23.855~ 5.53~  154.~ 428.~ 0.2 8.18~ 33.510~ 5.06~ 14.2~
## 7 1991-02-11 1.0517~ 23.855~ 5.56~  16.~ 14.~ 0.2  8.17~ 33.513~ 5.06~ 14.4~
## 8 1991-02-18 1.0486~ 23.856~ 5.59~  45.~ 112.~ 0.2 8.17~ 33.517~ 5.06~ 14.0~
## 9 1991-02-25 1.0456~ 23.856~ 5.33~  9.~ 16.~ 0.2  8.18~ 33.507~ 5.06~ 14.0~
## 10 1991-03-04 1.0426~ 23.856~ 5.07~  16.~ 15.~ 0.2  8.19~ 33.497~ 5.06~ 14.2~
## 11 1991-03-11 1.0395~ 23.857~ 4.80~  43.~ 247.~ 0.2 8.20~ 33.487~ 5.06~ 13.9~
## 12 1991-03-18 1.0365~ 23.857~ 4.79~  32.~ 179.~ 0.2 8.18~ 33.500~ 5.06~ 12.9~
## 13 1991-03-25 1.0334~ 23.857~ 4.77~  1370.~ 517.~ 0.2 8.17~ 33.513~ 5.06~ 13.1~
## 14 1991-04-01 1.0304~ 23.858~ 4.76~  15.~ 33.~ 0.2  8.16~ 33.527~ 5.06~ 13.4~
## 15 1991-04-08 1.0273~ 23.858~ 4.74~  38.~ 136.~ 0.2 8.15~ 33.540~ 5.06~ 13.1~

```

```

## 16 1991-04-15 1.0243~ 23.858~ 4.73~ 43.~ 190.~ 0.2 8.13~ 33.553~ 5.06~ 13.3~
## 17 1991-04-22 1.0213~ 23.859~ 4.69~ 24.~ 77.~ 0.2 8.12~ 33.552~ 5.06~ 12.9~
## # ... with 1 more variable: XMS <zoo>, and abbreviated variable names
## #   1: date_sample, 2: CHLOROPHYLL, 3: SALINITY

print(head(owt_df02_gb09_tbbl, 17))

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
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## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

```

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## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
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## if the index entries in 'order.by' are not unique

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## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## # A tibble: 17 x 13
##   date_sample project CHLOROPH~1 DENSITY DO      ENTERO FECAL OG      PH      SALIN~2
##   <date>     <fct>    <zoo>      <zoo>    <zoo> <zoo> <zoo> <zoo> <zoo> <zoo>
## 1 1990-11-15 PL00    0.870000  23.855~ 6.55~  32.0~ 125.~ 0.2   8.08~ 33.617~
## 2 1990-11-15 SB00    1.270000  23.853~ 7.41~  32.0~ 125.~ 0.2   8.18~ 33.574~
## 3 1991-01-02 PL00    1.267687  23.853~ 7.02~  32.0~ 125.~ 0.2   8.18~ 33.563~
## 4 1991-01-03 PL00    1.265374  23.853~ 6.63~  18.7~ 51.~ 0.2   8.18~ 33.552~
## 5 1991-01-07 PL00    1.263061  23.853~ 6.24~  106.1~ 80.~ 0.2   8.18~ 33.541~
## 6 1991-01-08 PL00    1.260748  23.853~ 5.86~  40.0~ 40.~ 0.2   8.19~ 33.530~
## 7 1991-01-09 PL00    1.258435  23.853~ 5.47~  20.3~ 40.~ 0.2   8.19~ 33.519~
## 8 1991-01-10 PL00    1.256122  23.853~ 5.50~  40.2~ 78.~ 0.2   8.19~ 33.493~
## 9 1991-01-11 PL00    1.253810  23.853~ 5.36~  83.9~ 446.~ 0.2   8.19~ 33.491~
## 10 1991-01-14 PL00   1.251497  23.853~ 5.35~  33.8~ 95.~ 0.2   8.19~ 33.495~
## 11 1991-01-16 PL00   1.249184  23.853~ 5.35~  12.5~ 23.~ 0.2   8.18~ 33.499~
## 12 1991-01-22 PL00   1.246871  23.854~ 5.34~  20.5~ 31.~ 0.2   8.18~ 33.503~
## 13 1991-01-23 PL00   1.244558  23.854~ 5.34~  43.1~ 108.~ 0.2   8.18~ 33.508~
## 14 1991-01-28 PL00   1.242245  23.854~ 5.34~  183.0~ 427.~ 0.2   8.18~ 33.512~
## 15 1991-01-30 PL00   1.239932  23.854~ 5.33~  125.3~ 429.~ 0.2   8.18~ 33.516~
## 16 1991-02-04 PL00   1.237619  23.854~ 5.33~  16.2~ 16.~ 0.2   8.18~ 33.521~
## 17 1991-02-06 PL00   1.235306  23.854~ 5.32~  17.3~ 12.~ 0.2   8.17~ 33.525~

## # ... with 3 more variables: SUS0 <zoo>, TEMP <zoo>, XMS <zoo>, and abbreviated
## # variable names 1: CHLOROPHYLL, 2: SALINITY

print(head(owt_df02_gb09_wkly_tbbl, 17))

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
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## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

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## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
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## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique
```

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## # A tibble: 17 x 13
##   date_sample project CHLOROPH~1 DENSITY DO    ENTERO FECAL OG     PH     SALIN~2
##   <date>      <fct>   <zoo>     <zoo>   <zoo> <zoo>  <zoo> <zoo> <zoo> <zoo>
## 1 1990-11-19 PL00    0.870000 23.855~ 6.55~  25.~  88.~ 0.2  8.08~ 33.617~
## 2 1990-11-19 SB00    1.270000 23.853~ 7.41~  25.~  88.~ 0.2  8.18~ 33.574~
## 3 1991-01-07 PL00    1.262609 23.853~ 6.42~  25.~  88.~ 0.2  8.18~ 33.537~
## 4 1991-01-14 PL00    1.255217 23.853~ 5.44~  58.~ 137.~ 0.2  8.19~ 33.501~
## 5 1991-01-21 PL00    1.247826 23.854~ 5.47~  23.~  59.~ 0.2  8.19~ 33.504~
## 6 1991-01-28 PL00    1.240435 23.854~ 5.50~  31.~  69.~ 0.2  8.18~ 33.507~
## 7 1991-02-04 PL00    1.233043 23.854~ 5.53~  154.~ 428.~ 0.2  8.18~ 33.510~
## 8 1991-02-11 PL00    1.225652 23.855~ 5.56~  16.~  14.~ 0.2  8.17~ 33.513~
## 9 1991-02-18 PL00    1.218261 23.855~ 5.59~  45.~ 112.~ 0.2  8.17~ 33.517~
## 10 1991-02-25 PL00    1.210870 23.855~ 5.33~  9.~  16.~ 0.2  8.18~ 33.507~
## 11 1991-03-04 PL00    1.203478 23.856~ 5.07~  16.~  15.~ 0.2  8.19~ 33.497~
## 12 1991-03-11 PL00    1.196087 23.856~ 4.80~  43.~ 247.~ 0.2  8.20~ 33.487~
## 13 1991-03-18 PL00    1.188696 23.856~ 4.79~  32.~ 179.~ 0.2  8.18~ 33.500~
## 14 1991-03-25 PL00    1.181304 23.857~ 4.77~ 1370.~ 517.~ 0.2  8.17~ 33.513~
## 15 1991-04-01 PL00    1.173913 23.857~ 4.76~  15.~ 33.~ 0.2  8.16~ 33.527~
## 16 1991-04-08 PL00    1.166522 23.857~ 4.74~  38.~ 136.~ 0.2  8.15~ 33.540~
## 17 1991-04-15 PL00    1.159130 23.858~ 4.73~  43.~ 190.~ 0.2  8.13~ 33.553~

## # ... with 3 more variables: SUS0 <zoo>, TEMP <zoo>, XMS <zoo>, and abbreviated
## # variable names 1: CHLOROPHYLL, 2: SALINITY

print(head(owt_df02_gb07_tbbl, 17))

```

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## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

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```

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

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## if the index entries in 'order.by' are not unique

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## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## A tibble: 17 x 14
##   date_sample project depth_m~1 CHLOR~2 DENSITY DO      ENTERO FECAL OG      PH
##   <date>      <fct>    <chr>      <zoo>    <zoo>    <zoo>    <zoo>    <zoo>    <zoo>
## 1 1990-11-15 PL00     [8,33)    0.8700~ 23.855~ 6.55~  34.0~ 134.~ 0.2    8.08~
## 2 1990-11-15 SB00     [0,8)     1.2700~ 23.853~ 7.41~  34.0~ 134.~ 0.2    8.18~
## 3 1991-01-02 PL00     [0,8)     1.2690~ 23.853~ 7.25~  34.0~ 134.~ 0.2    8.18~
## 4 1991-01-02 PL00     [8,33)    1.2681~ 23.853~ 7.09~  27.5~ 105.~ 0.2    8.18~
## 5 1991-01-03 PL00     [0,8)     1.2672~ 23.853~ 6.93~  17.4~ 45.~ 0.2    8.18~
## 6 1991-01-03 PL00     [8,33)    1.2663~ 23.853~ 6.77~  21.6~ 64.~ 0.2    8.18~
## 7 1991-01-07 PL00     [0,8)     1.2654~ 23.853~ 6.62~  77.4~ 44.~ 0.2    8.18~
## 8 1991-01-07 PL00     [8,33)    1.2645~ 23.853~ 6.46~  170.8~ 163.~ 0.2    8.19~
## 9 1991-01-08 PL00     [0,8)     1.2636~ 23.853~ 6.30~  36.2~ 31.~ 0.2    8.19~
## 10 1991-01-08 PL00    [33,47)   1.2627~ 23.853~ 6.14~  10.0~ 12.~ 0.2    8.19~
## 11 1991-01-08 PL00    [47,70)   1.2618~ 23.853~ 5.99~  16.6~ 10.~ 0.2    8.19~
## 12 1991-01-08 PL00    [8,33)    1.2609~ 23.853~ 5.83~  57.5~ 66.~ 0.2    8.19~
## 13 1991-01-09 PL00    [0,8)     1.2600~ 23.853~ 5.67~  11.8~ 11.~ 0.2    8.20~
## 14 1991-01-09 PL00    [33,47)   1.2591~ 23.853~ 5.39~  32.5~ 10.~ 0.2    8.20~

```

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## 15 1991-01-09 PLOO      [47,70)     1.2582~ 23.853~ 5.30~ 10.0~ 75.~ 0.2   8.19~
## 16 1991-01-09 PLOO      [70,90)     1.2573~ 23.853~ 5.02~ 10.0~ 10.~ 0.2   8.15~
## 17 1991-01-09 PLOO      [8,33)      1.2564~ 23.853~ 5.49~ 30.0~ 42.~ 0.2   8.20~
## # ... with 4 more variables: SALINITY <zoo>, SUSO <zoo>, TEMP <zoo>, XMS <zoo>,
## #   and abbreviated variable names 1: depth_m_bin, 2: CHLOROPHYLL

print(head(owt_df02_gb07_wkly_tbbl, 17))

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
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## if the index entries in 'order.by' are not unique

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## if the index entries in 'order.by' are not unique

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## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

```

```

## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## Warning in zoo(rval[i], index(x)[i]): some methods for "zoo" objects do not work
## if the index entries in 'order.by' are not unique

## # A tibble: 17 x 14
##   date_sample project depth_m_~1 CHLOR~2 DENSITY DO      ENTERO FECAL OG      PH
##   <date>      <fct>    <chr>      <zoo>    <zoo>    <zoo>    <zoo>    <zoo>    <zoo>
## 1 1990-11-19  PL00     [8,33)    0.8700~ 23.8550 6.55~ 25.7~ 90.~ 0.2  8.08~
## 2 1990-11-19  SB00     [0,8)     1.2700~ 23.8530 7.41~ 25.7~ 90.~ 0.2  8.18~
## 3 1991-01-07  PL00     [0,8)     1.2678~ 23.8531 6.79~ 25.7~ 90.~ 0.2  8.18~
## 4 1991-01-07  PL00     [8,33)    1.2657~ 23.8532 6.17~ 24.5~ 84.~ 0.2  8.19~
## 5 1991-01-14  PL00     [0,8)     1.2636~ 23.8533 5.55~ 36.0~ 33.~ 0.2  8.20~
## 6 1991-01-14  PL00     [33,47)   1.2615~ 23.8534 5.34~ 66.2~ 352.~ 0.2  8.20~
## 7 1991-01-14  PL00     [47,70)   1.2593~ 23.8535 5.30~ 13.3~ 31.~ 0.2  8.19~
## 8 1991-01-14  PL00     [70,90)   1.2572~ 23.8536 5.02~ 10.0~ 10.~ 0.2  8.15~
## 9 1991-01-14  PL00     [8,33)    1.2551~ 23.8537 5.44~ 85.7~ 200.~ 0.2  8.20~
## 10 1991-01-14  PL00    Unknown   1.2530~ 23.8538 5.49~ 18.8~ 120.~ 0.2  8.20~
## 11 1991-01-21  PL00     [0,8)     1.2508~ 23.8539 5.54~ 11.1~ 17.~ 0.2  8.20~
## 12 1991-01-21  PL00     [8,33)    1.2487~ 23.8540 5.59~ 50.4~ 155.~ 0.2  8.20~
## 13 1991-01-28  PL00     [0,8)     1.2466~ 23.8541 5.64~ 39.6~ 77.~ 0.2  8.21~
## 14 1991-01-28  PL00     [8,33)    1.2445~ 23.8542 5.68~ 26.6~ 87.~ 0.2  8.21~
## 15 1991-01-28  PL00    Unknown   1.2423~ 23.8543 5.73~ 10.0~ 12.~ 0.2  8.21~
## 16 1991-02-04  PL00     [0,8)     1.2402~ 23.8544 5.78~ 137.9~ 296.~ 0.2  8.22~
## 17 1991-02-04  PL00     [8,33)    1.2381~ 23.8545 5.83~ 190.8~ 725.~ 0.2  8.22~

## # ... with 4 more variables: SALINITY <zoo>, SUSO <zoo>, TEMP <zoo>, XMS <zoo>,
## # and abbreviated variable names 1: depth_m_bin, 2: CHLOROPHYLL

#owt_df02_gb04_mrgd
#owt_df02_gb09_mrgd
#owt_df02_gb07_mrgd
#owt_df02_gb04_wkly
#owt_df02_gb04_wkly02
#owt_df02_gb09_wkly
#owt_df02_gb07_wkly

param_lst03 <- c("CHLOROPHYLL",
                 "DENSITY",
                 "DO",
                 "FECAL",

```

```

    "OG",
    "PH",
    "SALINITY",
    "SUSO",
    "TEMP",
    "XMS")

scatr <- function(df = NA,
                  y = NA,
                  x_lst = c()) {
  for (p in x_lst) {
    plot <- ggplot(df, aes(df[, p], df[, y])) +
      geom_point() +
      stat_smooth(method = "lm",
                  formula = y ~ x,
                  geom = "smooth") +
      labs(x = p,
            y = y,
            title = "Figure",
            subtitle = paste0("Scatterplot of ", p, " and ", y, " Series"))
    print(plot)
  }
}

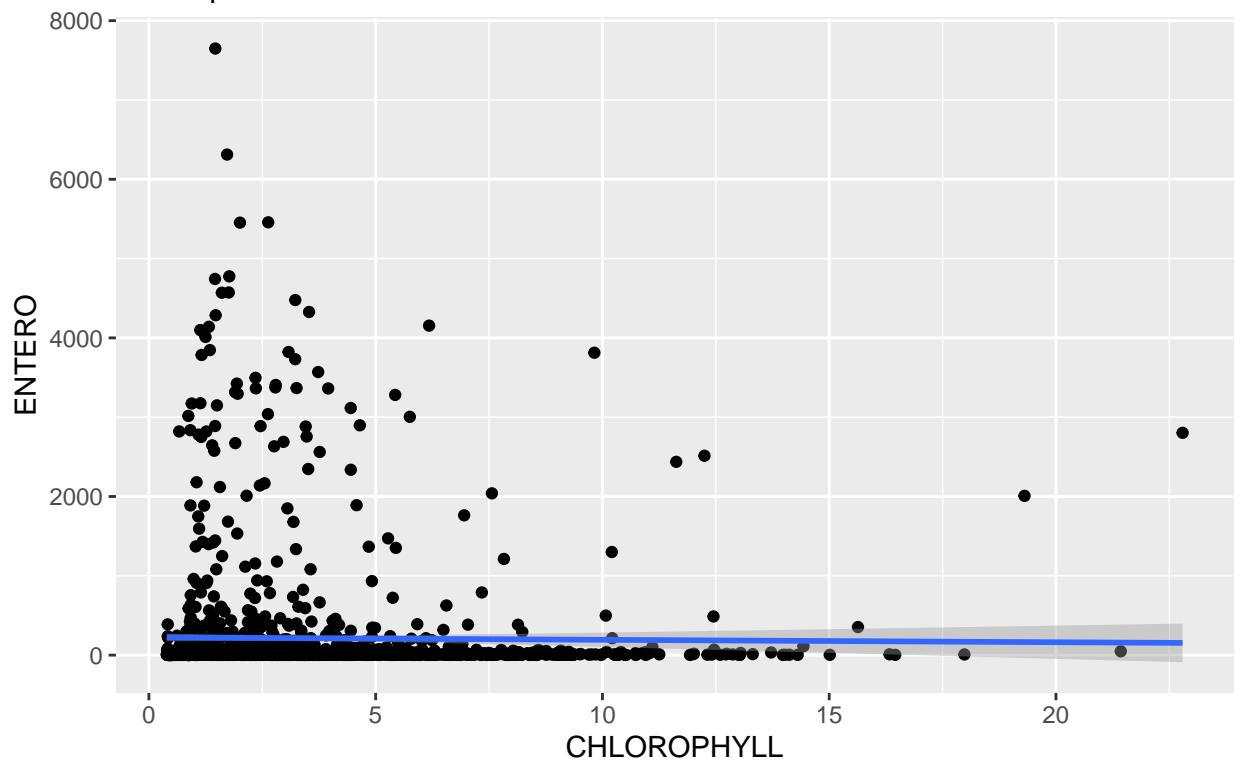
scatr(df = owt_df02_gb04_wkly,
      y = "ENTERO",
      x_lst = param_lst03)

## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.
## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.

```

Figure

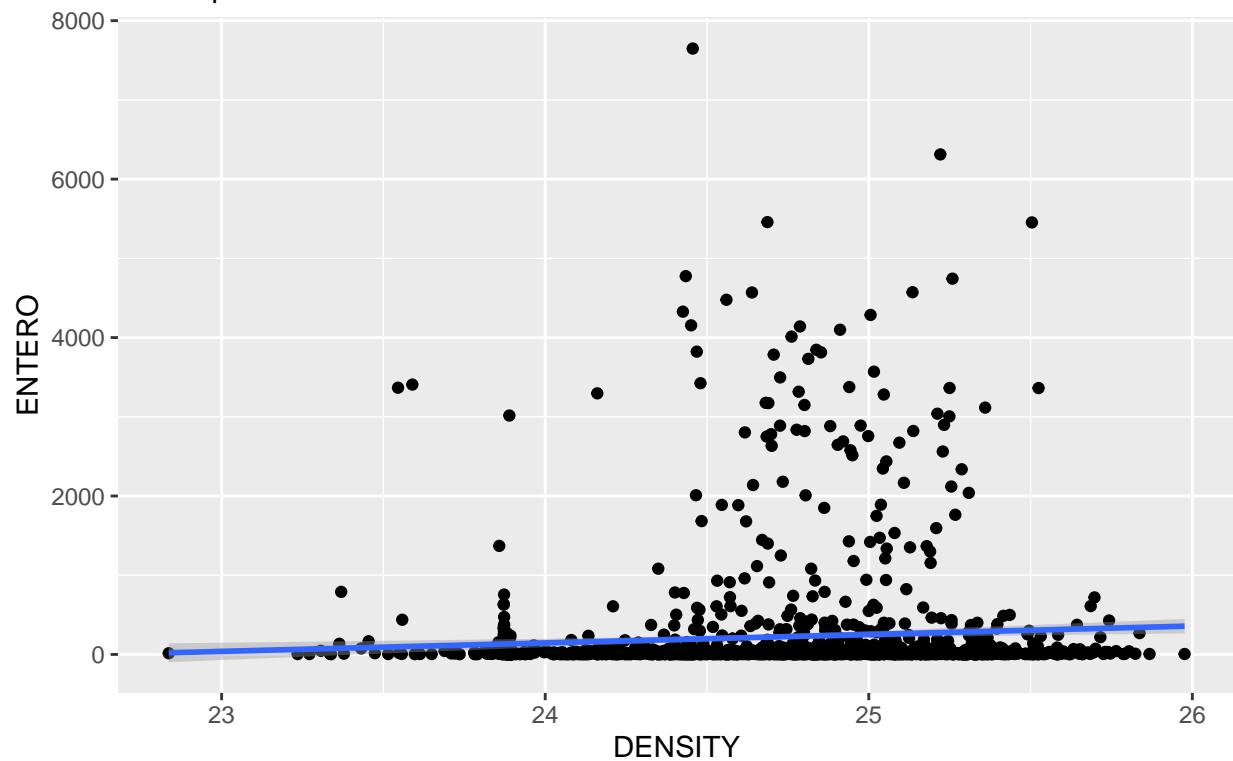
Scatterplot of CHLOROPHYLL and ENTERO Series



```
## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.
## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.
```

Figure

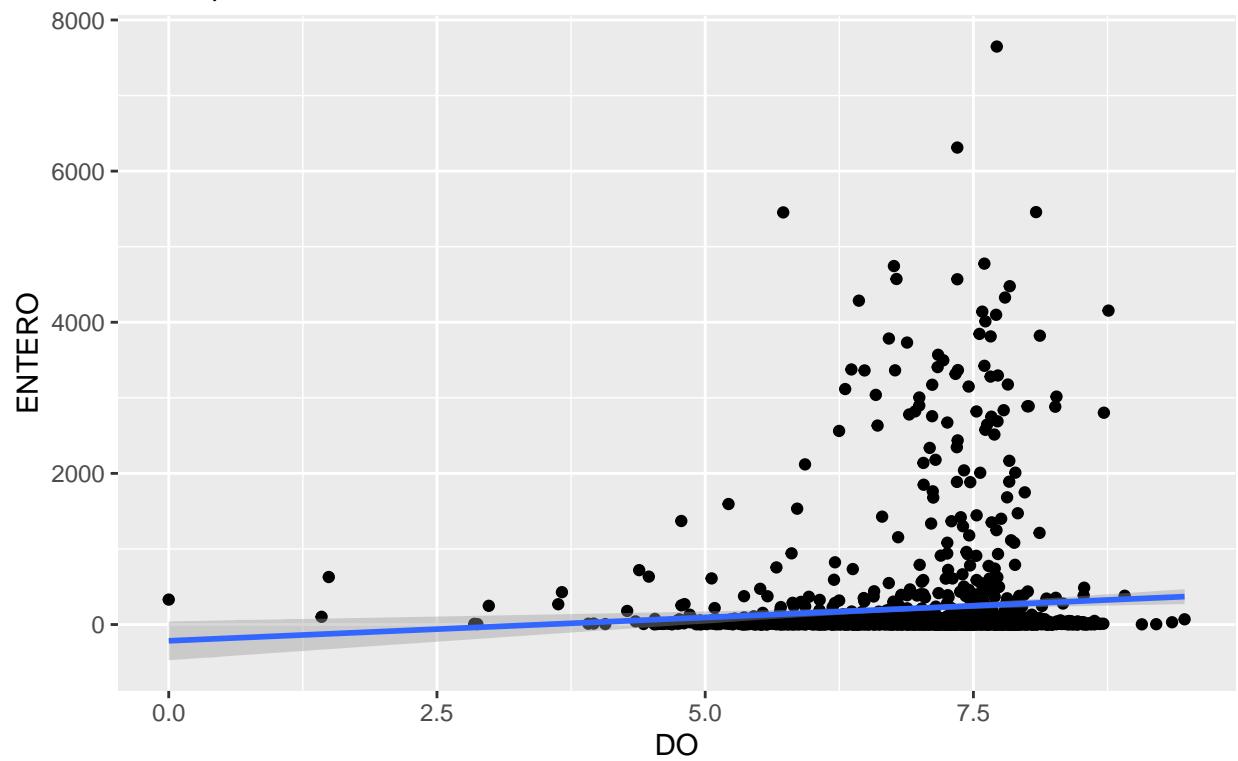
Scatterplot of DENSITY and ENTERO Series



```
## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.
## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.
```

Figure

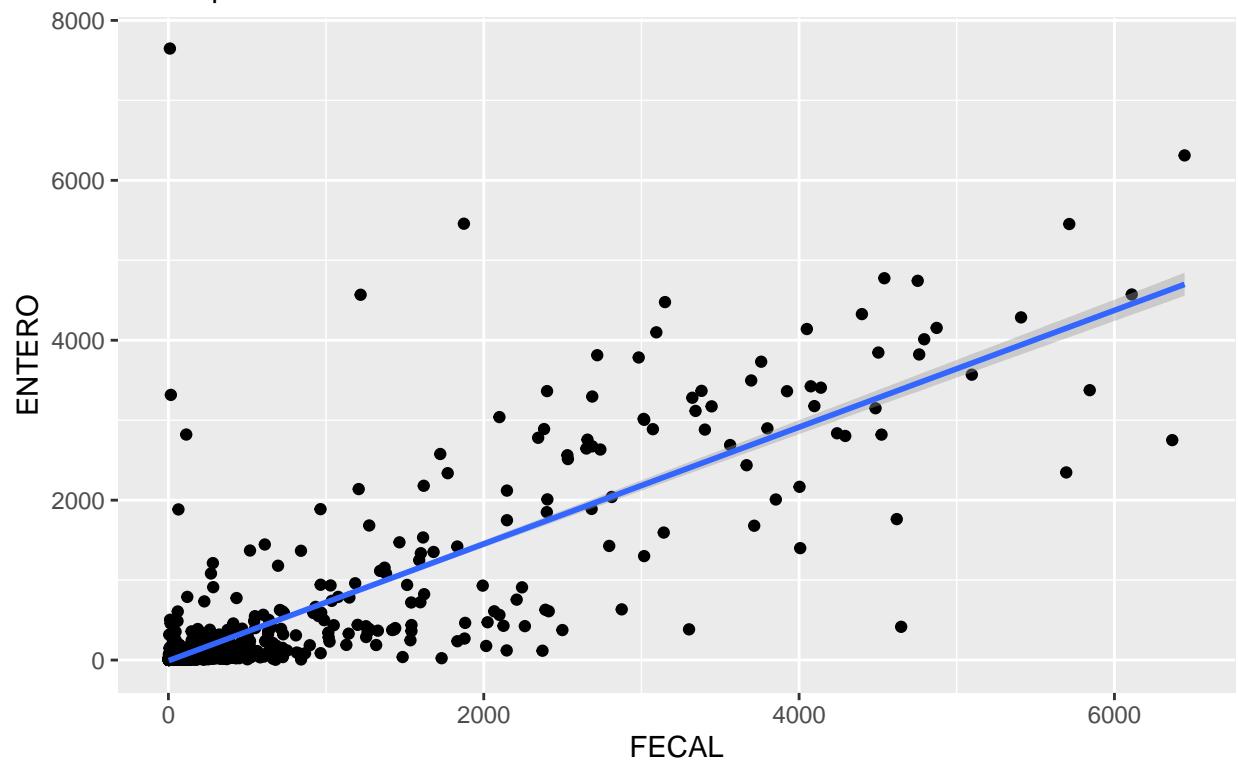
Scatterplot of DO and ENTERO Series



```
## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.
## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.
```

Figure

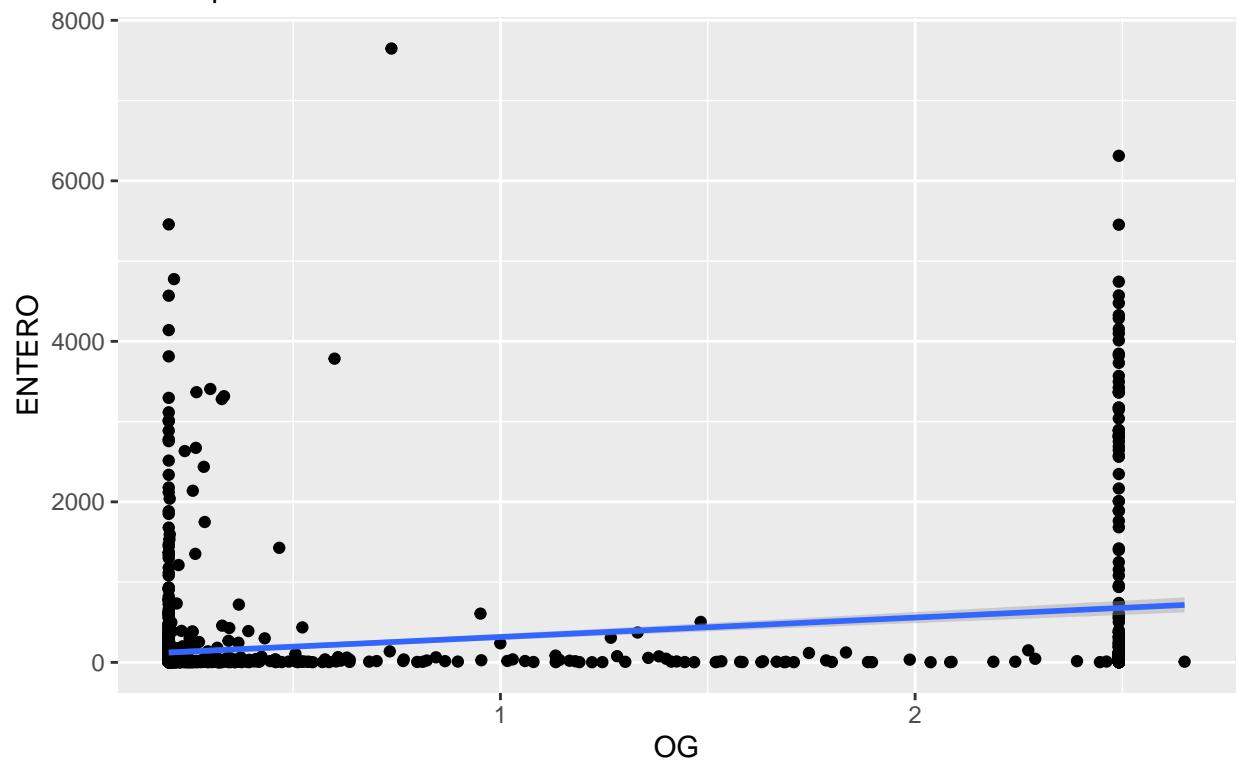
Scatterplot of FECAL and ENTERO Series



```
## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.
## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.
```

Figure

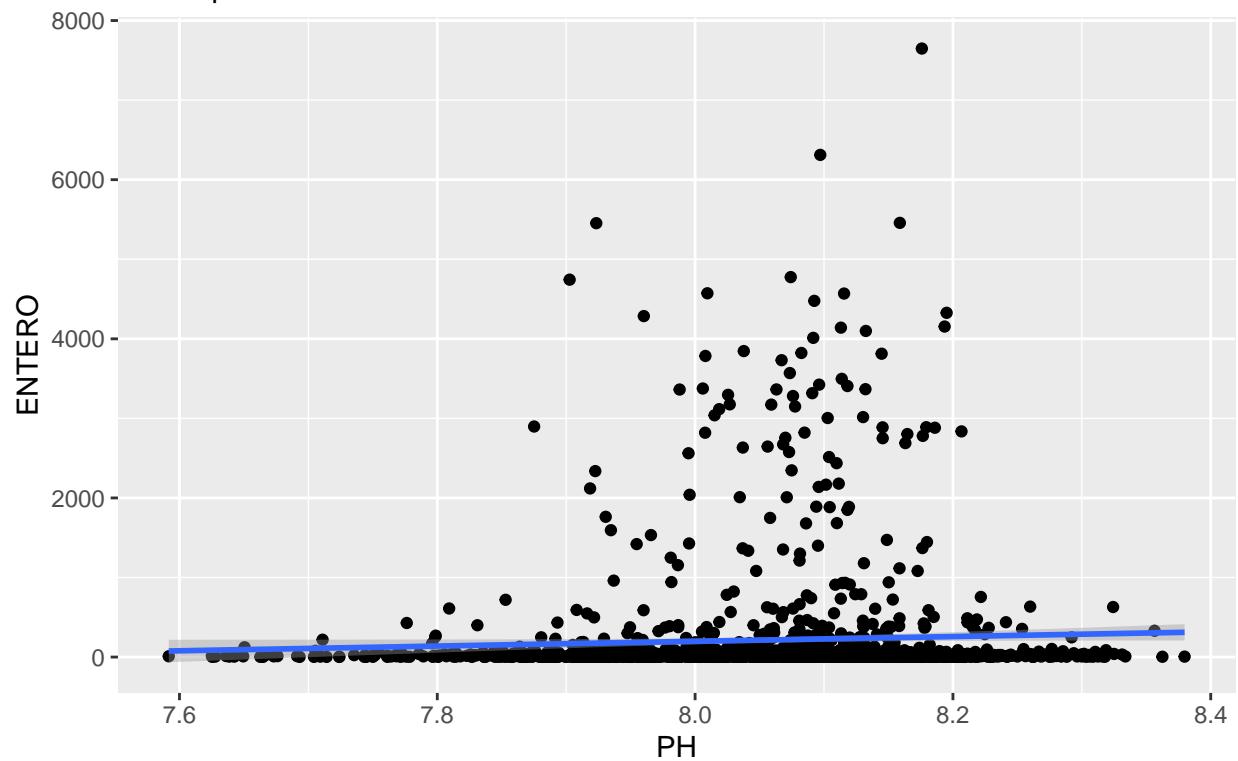
Scatterplot of OG and ENTERO Series



```
## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.
## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.
```

Figure

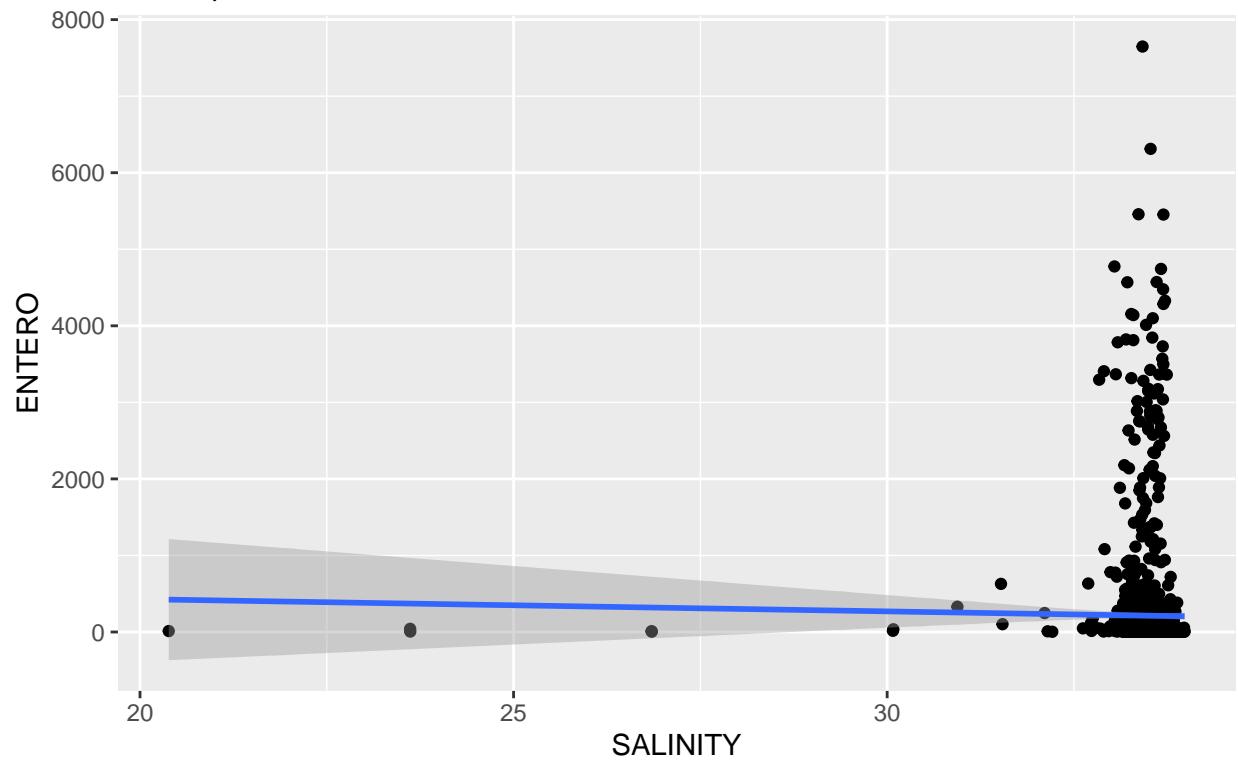
Scatterplot of PH and ENTERO Series



```
## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.
## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.
```

Figure

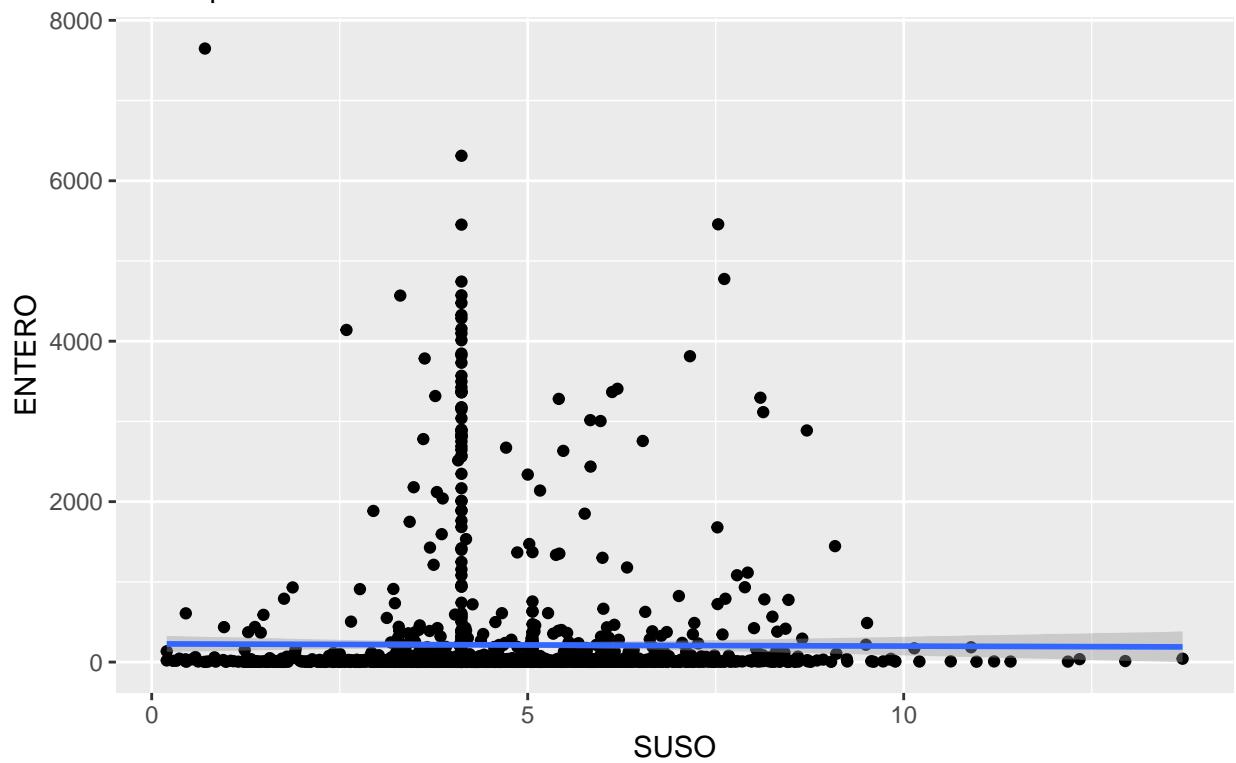
Scatterplot of SALINITY and ENTERO Series



```
## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.
## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.
```

Figure

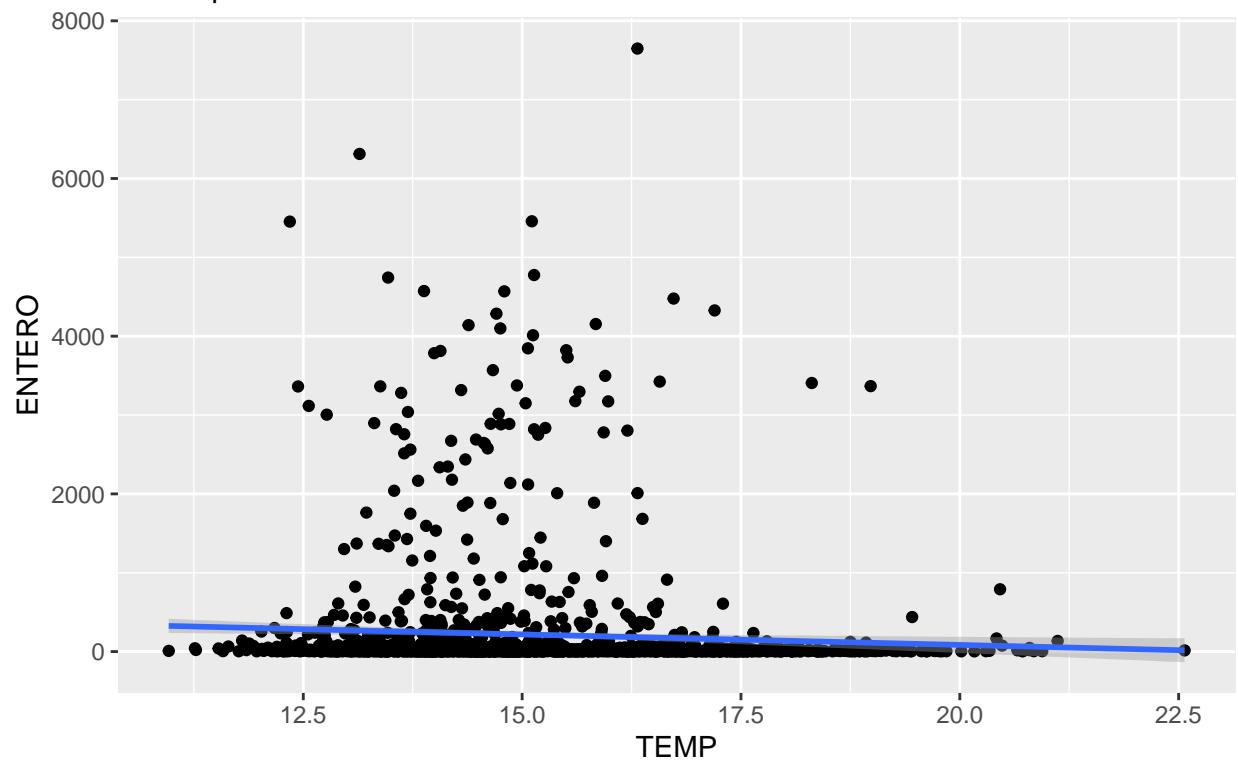
Scatterplot of SUSO and ENTERO Series



```
## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.
## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.
```

Figure

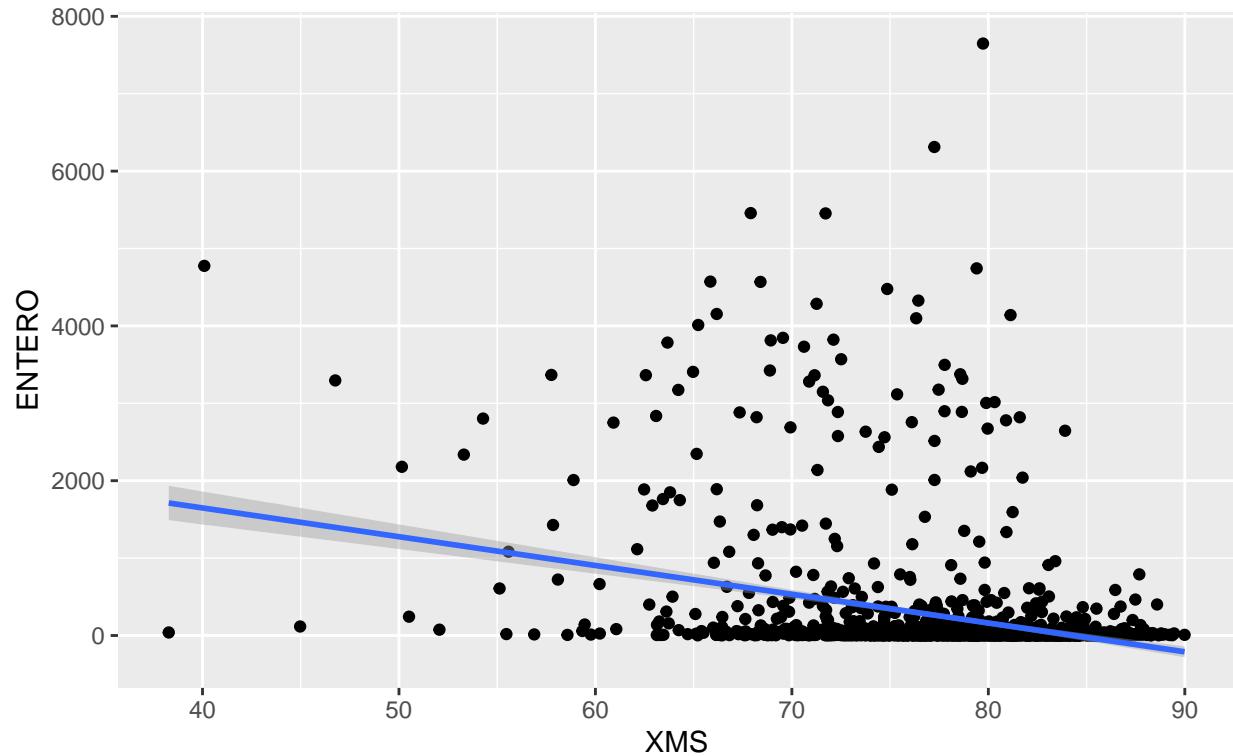
Scatterplot of TEMP and ENTERO Series



```
## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.
## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.
```

Figure

Scatterplot of XMS and ENTERO Series



```
print(head(owt_df02_gb04_wkly02, 17))
```

```
##   date_sample CHLOROPHYLL DENSITY      DO      ENTERO    FECAL OG     PH
## 1 1990-11-19        1.07 23.854 6.980000       NA      NA NA 8.130000
## 2 1991-01-07        NA      NA      NA 25.384615 88.46154 NA      NA
## 3 1991-01-14        NA      NA 5.445417 58.129735 137.21730 NA 8.195000
## 4 1991-01-21        NA      NA      NA 23.205128 59.61538 NA      NA
## 5 1991-01-28        NA      NA      NA 31.818910 69.78365 NA      NA
## 6 1991-02-04        NA      NA      NA 154.230769 428.58974 NA      NA
## 7 1991-02-11        NA      NA      NA 16.838141 14.63141 NA      NA
## 8 1991-02-18        NA      NA 5.597500 45.317879 112.33029 NA 8.173333
## 9 1991-02-25        NA      NA      NA 9.083333 16.10737 NA      NA
## 10 1991-03-04        NA      NA      NA 16.512821 15.05128 NA      NA
## 11 1991-03-11        NA      NA 4.808333 43.496041 247.95270 NA 8.201667
## 12 1991-03-18        NA      NA      NA 32.542347 179.98990 NA      NA
## 13 1991-03-25        NA      NA      NA 1370.111538 517.44812 NA      NA
## 14 1991-04-01        NA      NA      NA 15.025641 33.15385 NA      NA
## 15 1991-04-08        NA      NA      NA 38.837607 136.90598 NA      NA
## 16 1991-04-15        NA      NA 4.730833 43.944524 190.35018 NA 8.138333
## 17 1991-04-22        NA      NA      NA 24.313390 77.44160 NA      NA
##   SALINITY SUSO      TEMP      XMS
## 1 33.59550  NA 19.37000 60.22500
## 2       NA  NA 14.45000 81.96154
## 3 33.50113  NA 14.07478 82.04876
## 4       NA  NA 14.54487 70.19231
## 5       NA  NA 14.28846 77.61167
```

```

## 6      NA  NA 14.23462 81.83333
## 7      NA  NA 14.46154 70.83333
## 8 33.51717  NA 14.00639 79.30243
## 9      NA  NA 14.05769 79.71518
## 10     NA  NA 14.24231 82.44872
## 11 33.48729  NA 13.93447 70.49667
## 12     NA  NA 12.97995 68.95260
## 13     NA  NA 13.11026 69.92308
## 14     NA  NA 13.46667 75.12719
## 15     NA  NA 13.19487 81.09818
## 16 33.55379  NA 13.33149 71.94475
## 17     NA  NA 12.97949 74.71053

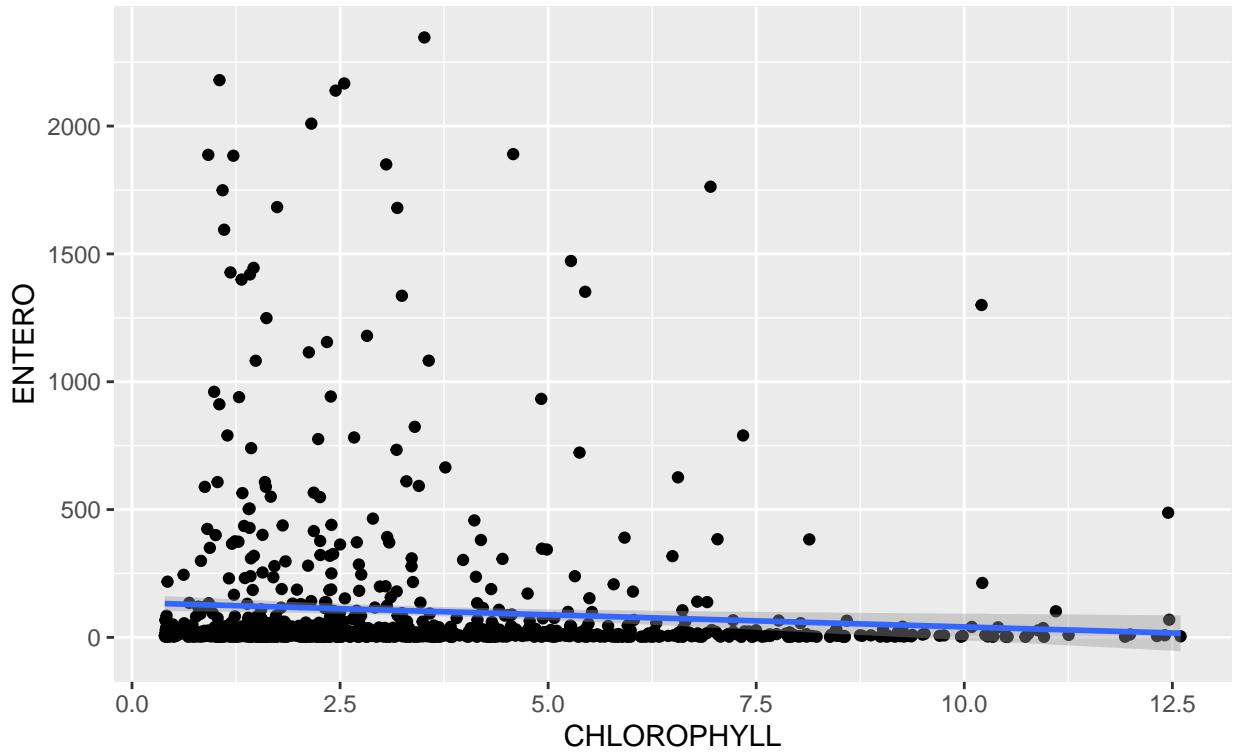
scatr(df = owt_df02_gb04_wkly02,
      y = "ENTERO",
      x_lst = param_lst03)

## Warning: Removed 618 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 618 rows containing missing values (`geom_point()`).

```

Figure

Scatterplot of CHLOROPHYLL and ENTERO Series

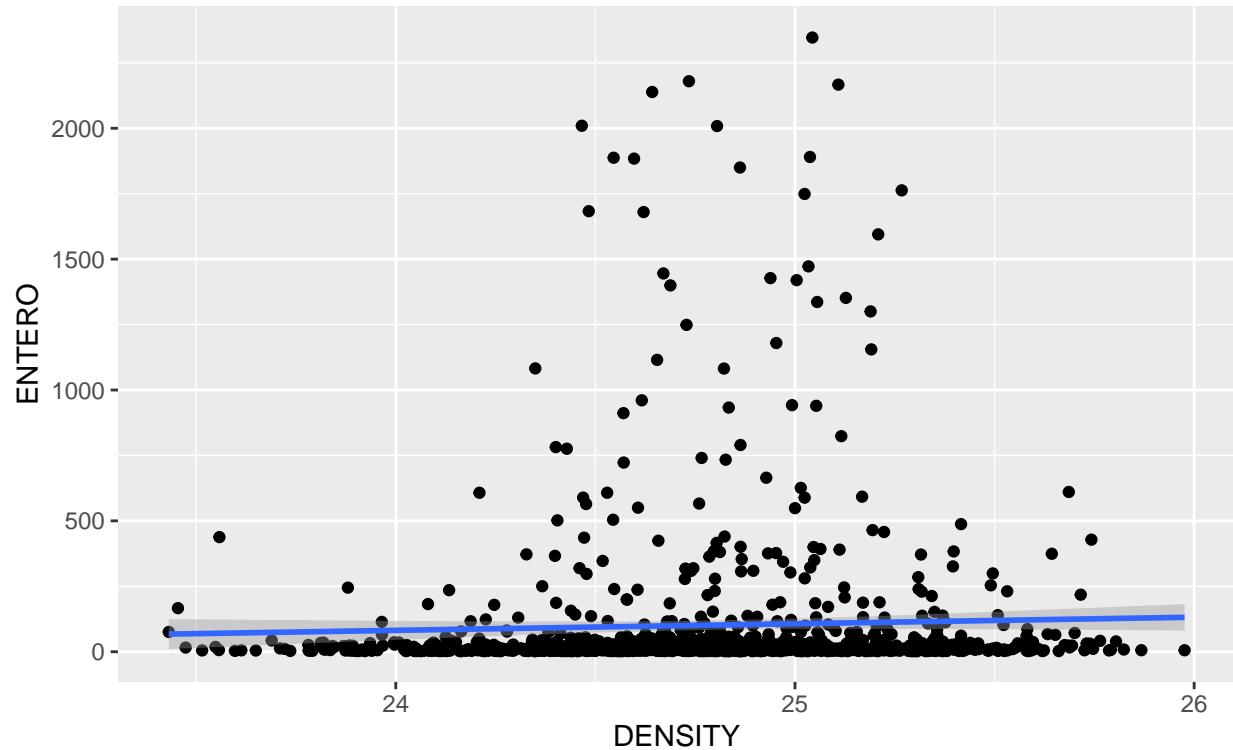


```

## Warning: Removed 579 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 579 rows containing missing values (`geom_point()`).

```

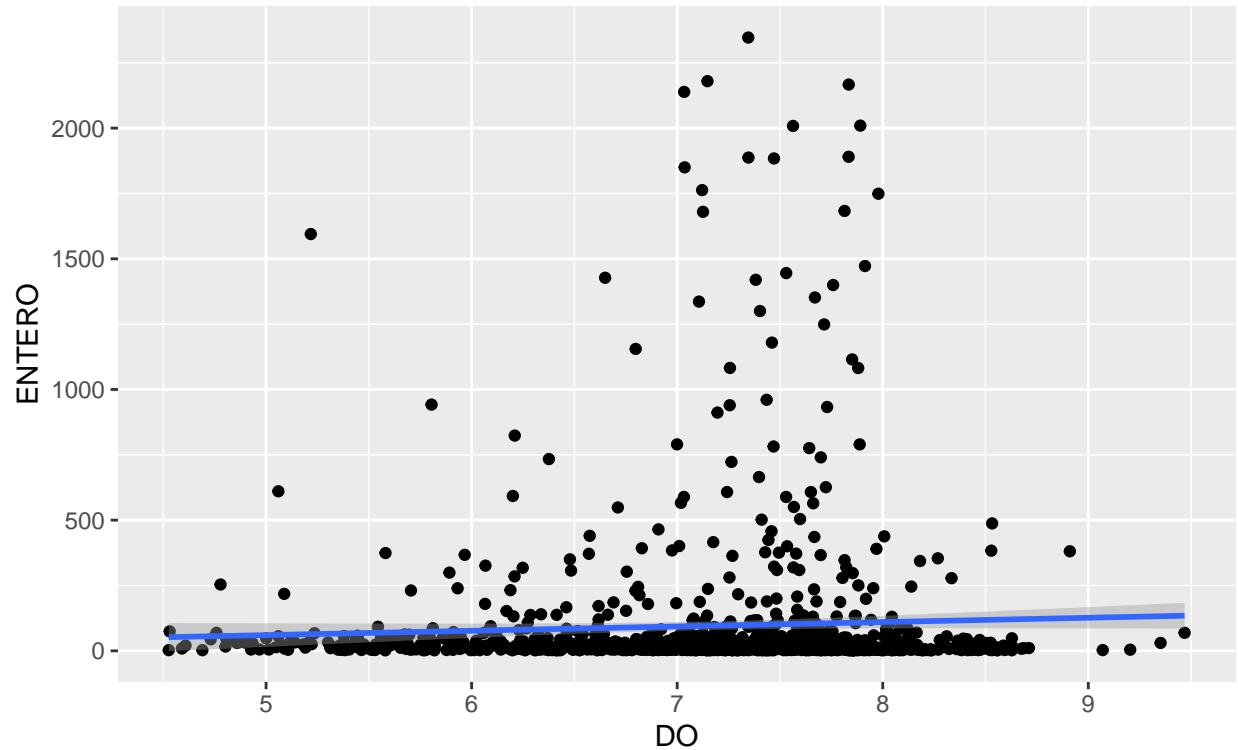
Figure
Scatterplot of DENSITY and ENTERO Series



```
## Warning: Removed 473 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 473 rows containing missing values (`geom_point()`).
```

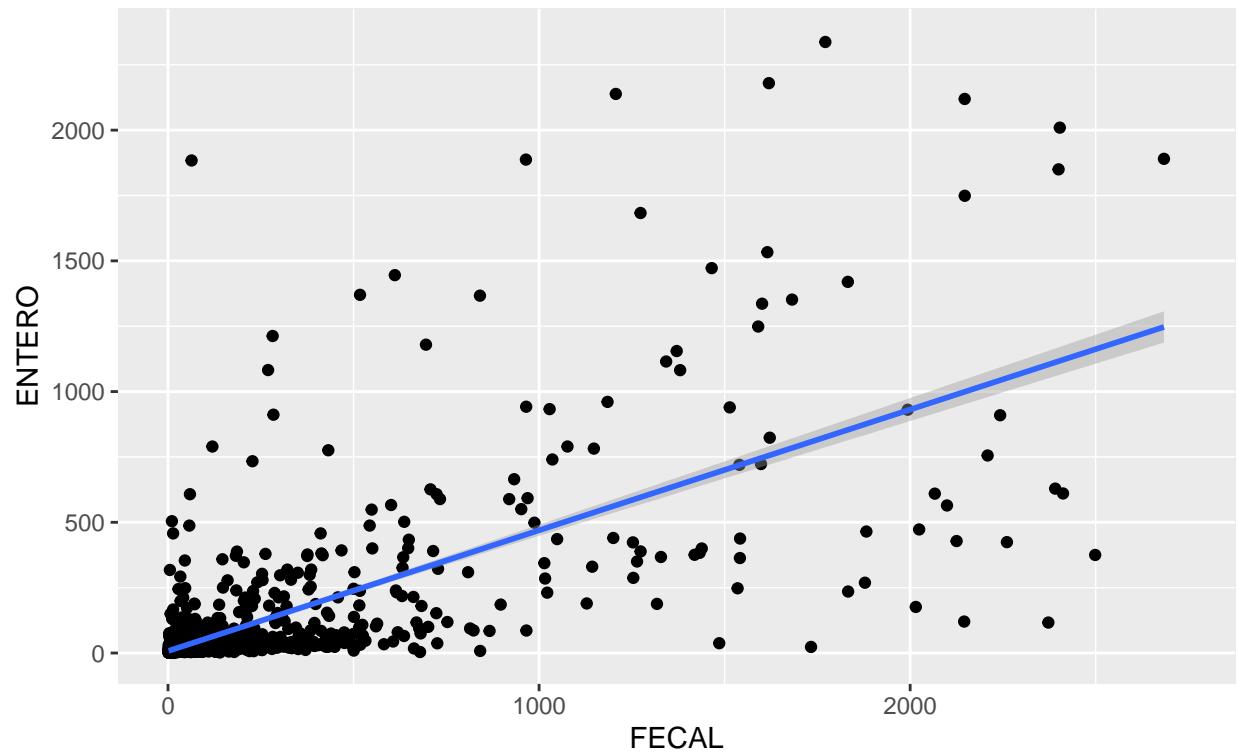
Figure

Scatterplot of DO and ENTERO Series



```
## Warning: Removed 71 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 71 rows containing missing values (`geom_point()`).
```

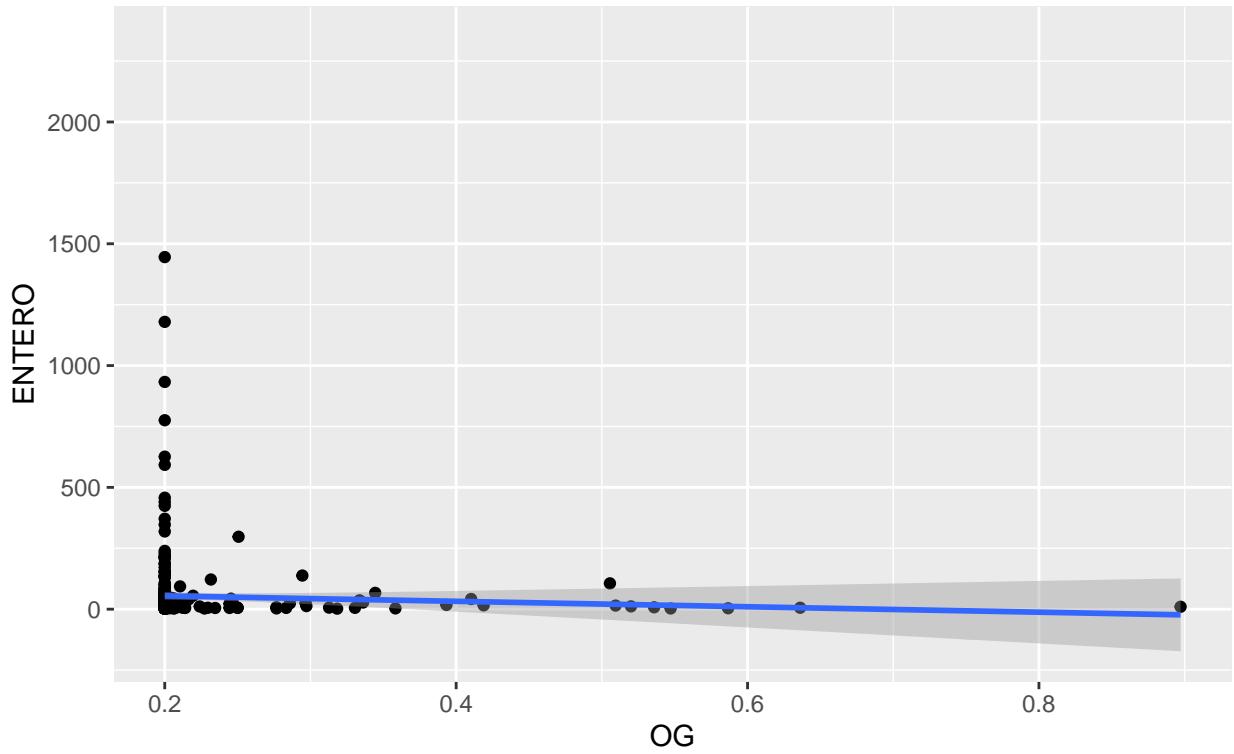
Figure
Scatterplot of FECAL and ENTERO Series



```
## Warning: Removed 1273 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 1273 rows containing missing values (`geom_point()`).
```

Figure

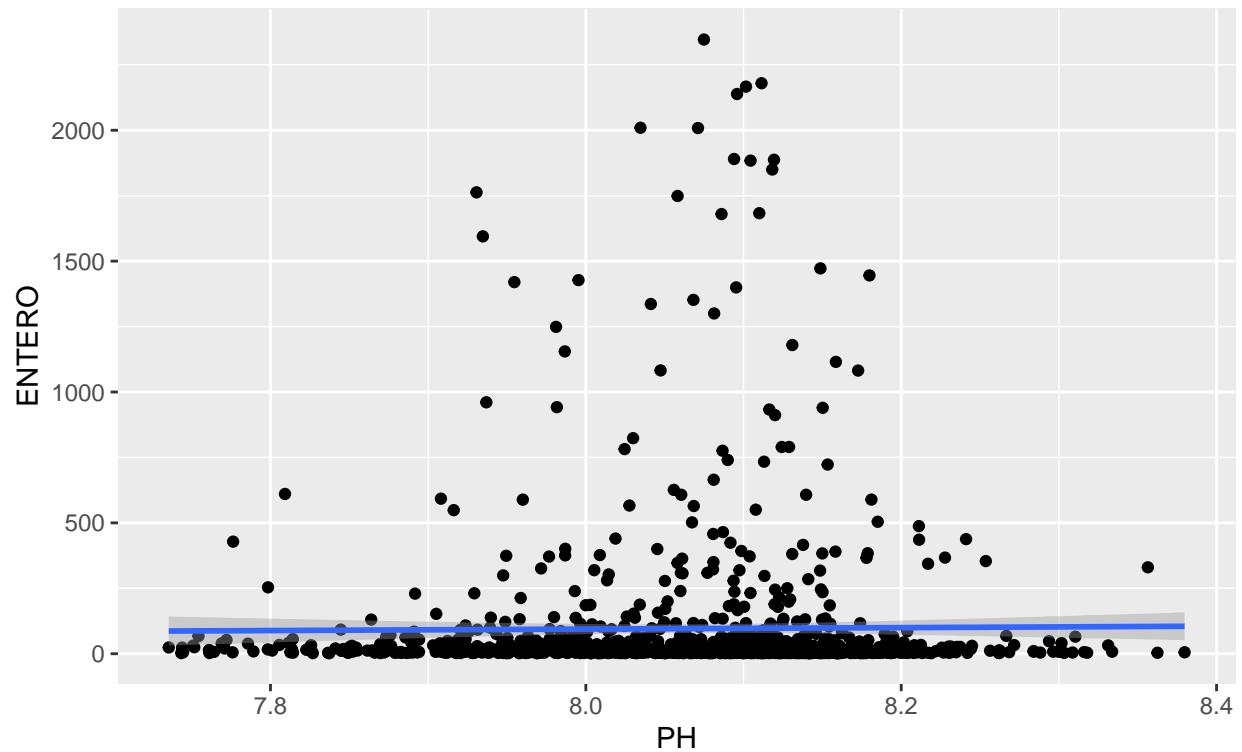
Scatterplot of OG and ENTERO Series



```
## Warning: Removed 476 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 476 rows containing missing values (`geom_point()`).
```

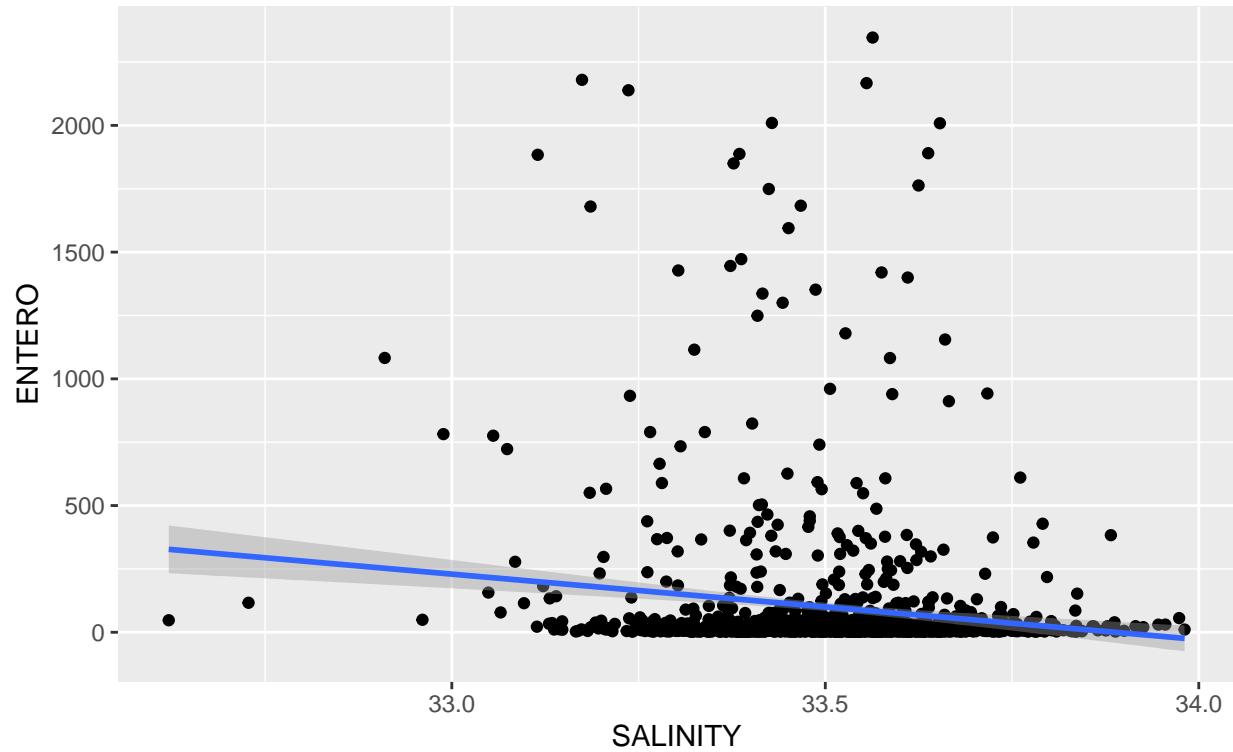
Figure

Scatterplot of PH and ENTERO Series



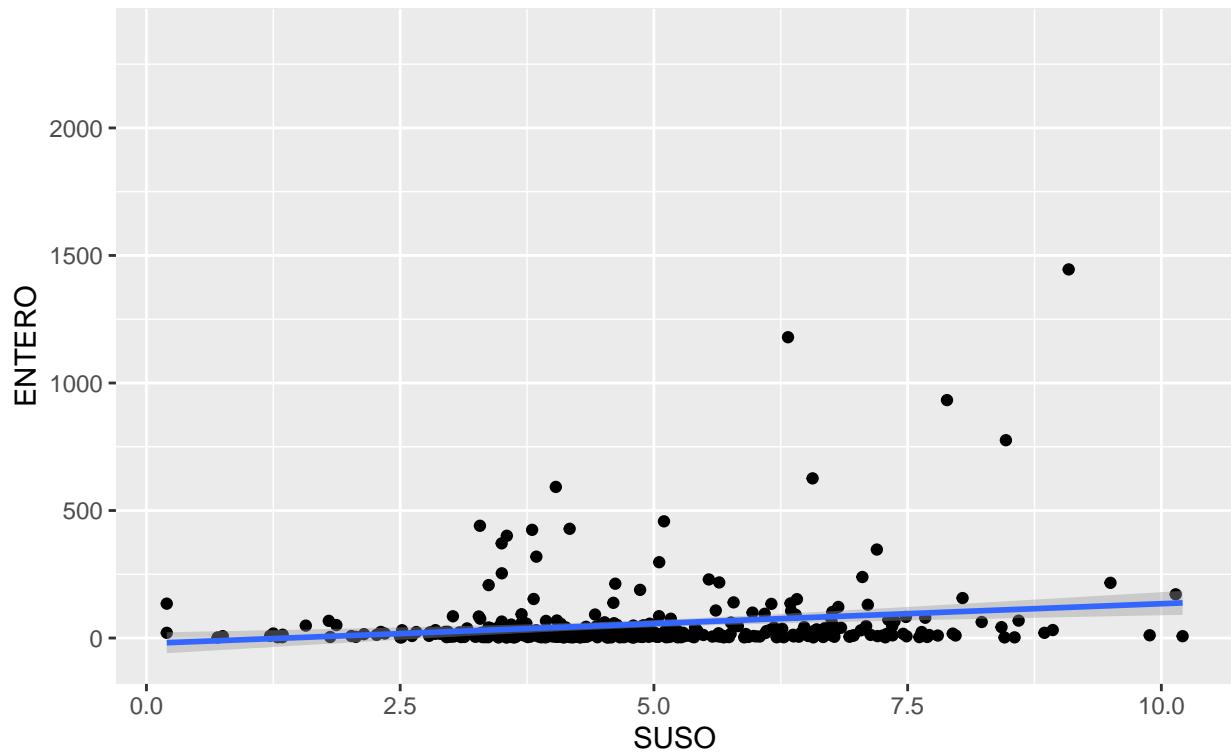
```
## Warning: Removed 474 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 474 rows containing missing values (`geom_point()`).
```

Figure
Scatterplot of SALINITY and ENTERO Series



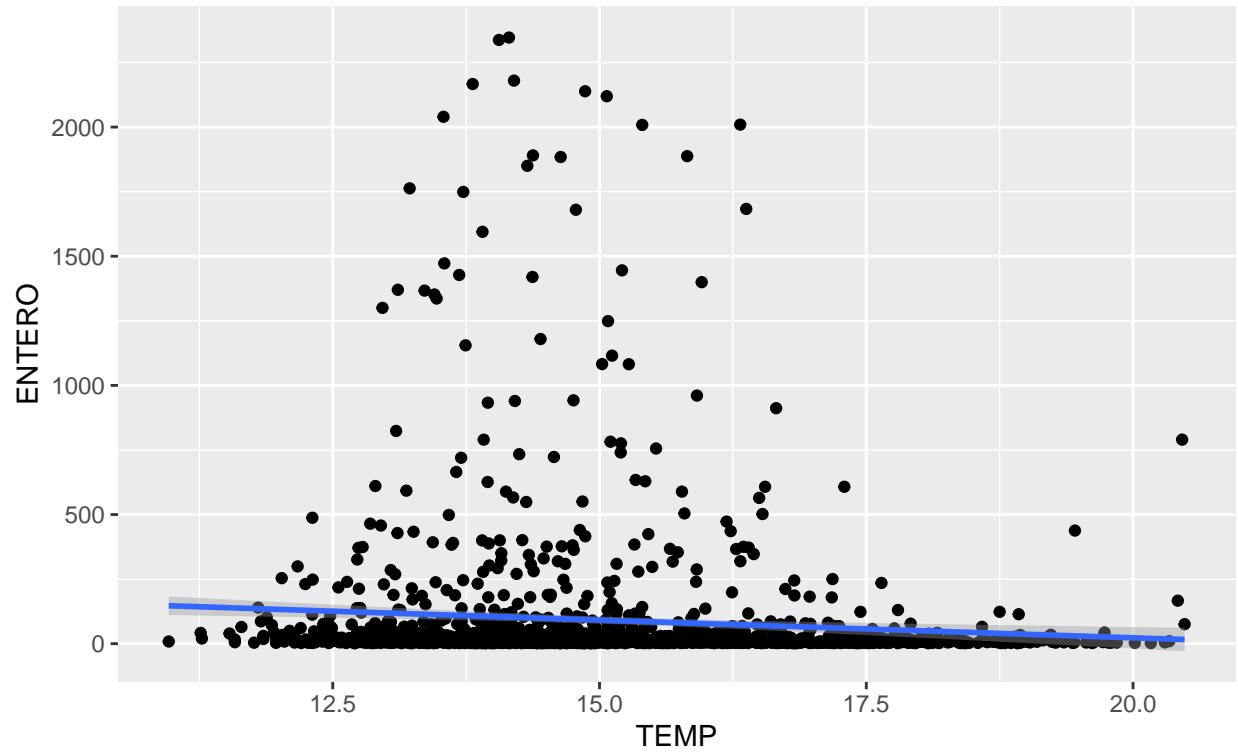
```
## Warning: Removed 1255 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 1255 rows containing missing values (`geom_point()`).
```

Figure
Scatterplot of SUSO and ENTERO Series



```
## Warning: Removed 132 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 132 rows containing missing values (`geom_point()`).
```

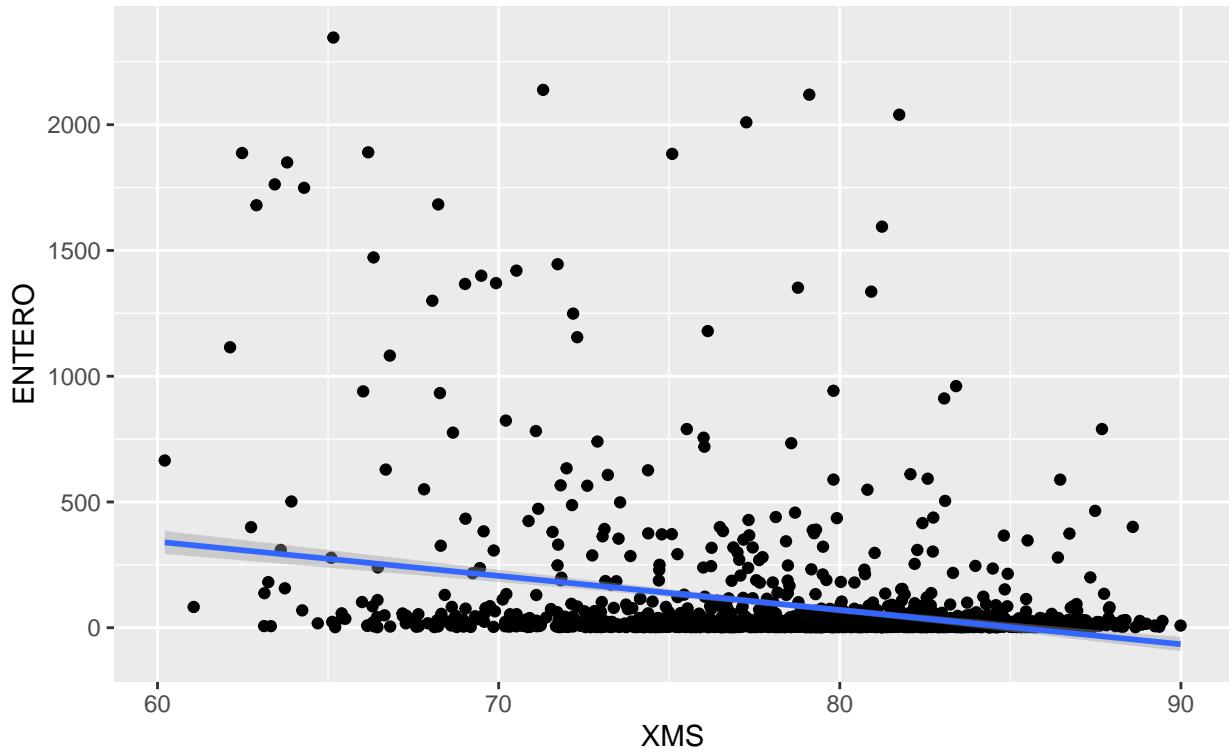
Figure
Scatterplot of TEMP and ENTERO Series



```
## Warning: Removed 146 rows containing non-finite values (`stat_smooth()`).
## Warning: Removed 146 rows containing missing values (`geom_point()`).
```

Figure

Scatterplot of XMS and ENTERO Series



```
# i = parameter
# j = project
# k = depth
time_plt <- function(df = NA,
                      date = NA,
                      l1 = c(),
                      l2_name = NA,
                      l2 = c(),
                      l3_name = NA,
                      l3 = c()) {
  if(length(l3) == 0 & length(l2) == 0) {
    for(i in l1) {
      df_01a <- df
      par(mar = c(5,5,5,2))
      try(print(acf(df_01a[, i],
                    pl = TRUE,
                    na.action = na.pass,
                    main = paste0("ACF Plot for ", i))))
      plot <- ggplot(df_01a, aes(x = df_01a[, date], y = df_01a[, i], group = 1)) +
        geom_line() +
        labs(x = "Time",
             y = i,
             title = "Figure",
             subtitle = paste0("Time Series Plot for ", i))
      print(plot)
    }
  }
}
```

```

}
if(length(l3) == 0) {
  for(i in l1) {
    for(j in l2) {
      df_01a <- df[df[, l2_name] == j, ]
      par(mar = c(5,5,5,2))
      try(print(acf(df_01a[, i],
                    pl = TRUE,
                    na.action = na.pass,
                    main = paste0("ACF Plot for ", i, " (", j, ")")))
      plot <- ggplot(df_01a, aes(x = df_01a[, date], y = df_01a[, i], group = 1)) +
        geom_line() +
        labs(x = "Time",
             y = i,
             title = "Figure",
             subtitle = paste0("Time Series Plot for ", i, " (", j, ")"))
      print(plot)
    }
  }
} else {
  for(i in l1) {
    for(j in l2) {
      for(k in l3) {
        df_01a <- df[df[, l2_name] == j & df[, l3_name] == k, ]
        par(mar = c(5,5,5,2))
        try(print(acf(df_01a[, i],
                      pl = TRUE,
                      na.action = na.pass,
                      main = paste0("ACF Plot for ", i, " (", j, ":", k, ")")))
        plot <- ggplot(df_01a, aes(x = df_01a[, date], y = df_01a[, i], group = 1)) +
          geom_line() +
          labs(x = "Time",
               y = i,
               title = "Figure",
               subtitle = paste0("Time Series Plot for ", i, " (", j, ":", k, ")"))
        print(plot)
      }
    }
  }
}
}

param_lst04 <- c("CHLOROPHYLL",
                "DENSITY",
                "DO",
                "ENTERO",
                "FECAL",
                "PH",
                "SALINITY",
                "TEMP",
                "XMS")

```

```

param_lst05 <- c("ENTERO")

uniq_proj <- unique(owt_df02_gb07_mrgd$project)
uniq_depth <- unique(owt_df02_gb07_mrgd$depth_m_bin)
uniq_proj

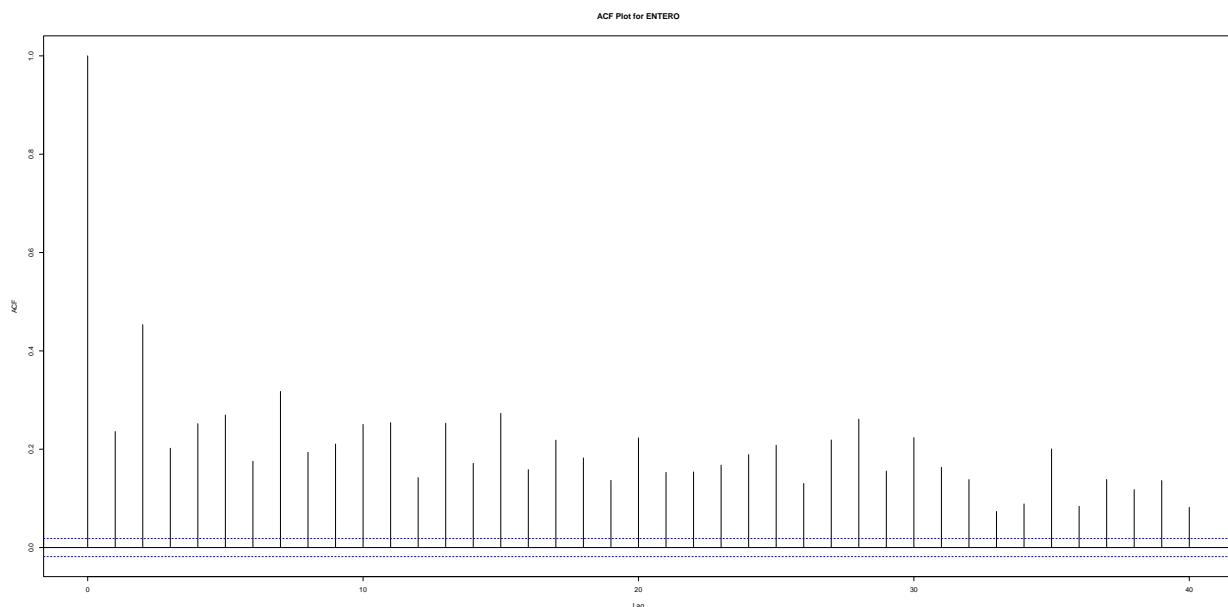
## [1] PL00 SB00
## Levels: PL00 SB00

uniq_depth

## [1] "[8,33]"      "[0,8)"       "[33,47)"      "[47,70)"      "[70,90)"      "Unknown"
## [7] "[112,120]"   "[90,112)"

time_plt(df = owt_df02_gb04_mrgd,
          date = "date_sample",
          l1 = param_lst05)

```

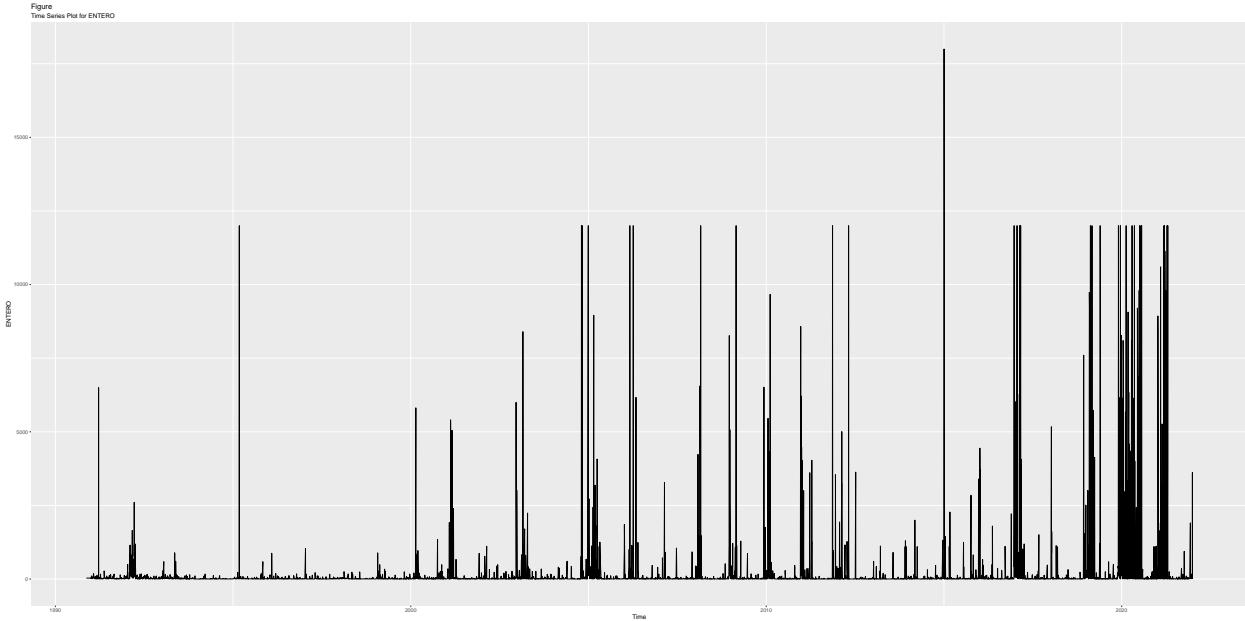


```

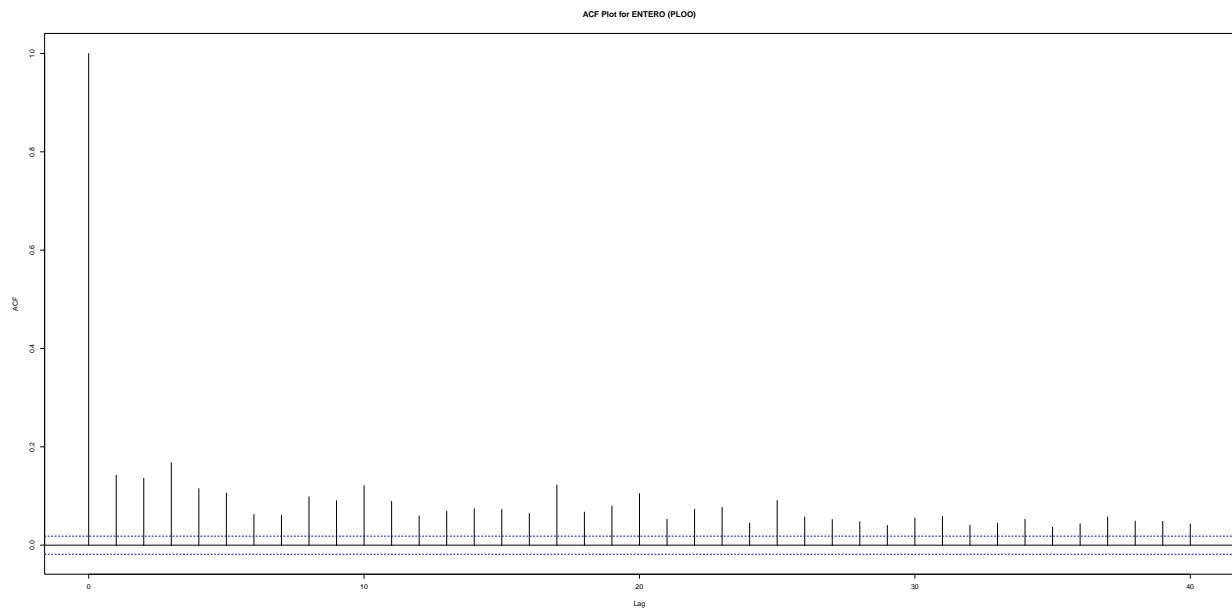
##
## Autocorrelations of series 'df_01a[, i]', by lag
##
##          0     1     2     3     4     5     6     7     8     9     10    11    12
## 1 1.000 0.236 0.453 0.202 0.252 0.270 0.175 0.318 0.194 0.210 0.250 0.254 0.142
## 13 0.253 0.171 0.273 0.158 0.218 0.182 0.137 0.223 0.153 0.154 0.168 0.189 0.208
## 26 0.130 0.219 0.261 0.156 0.224 0.163 0.138 0.073 0.089 0.200 0.084 0.138 0.118
## 39 0.136 0.082
##          39     40
##          0.136 0.082

## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.

```



```
time_plt(df = owt_df02_gb09_mrgd,
         date = "date_sample",
         l1 = param_lst05,
         l2_name = "project",
         l2 = uniq_proj)
```



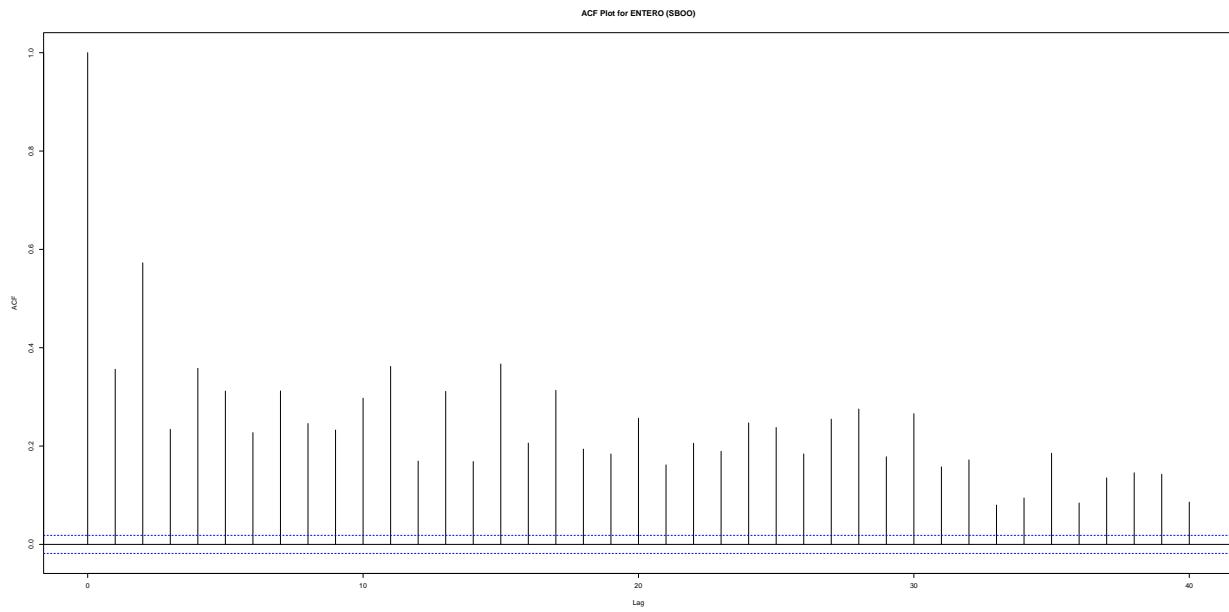
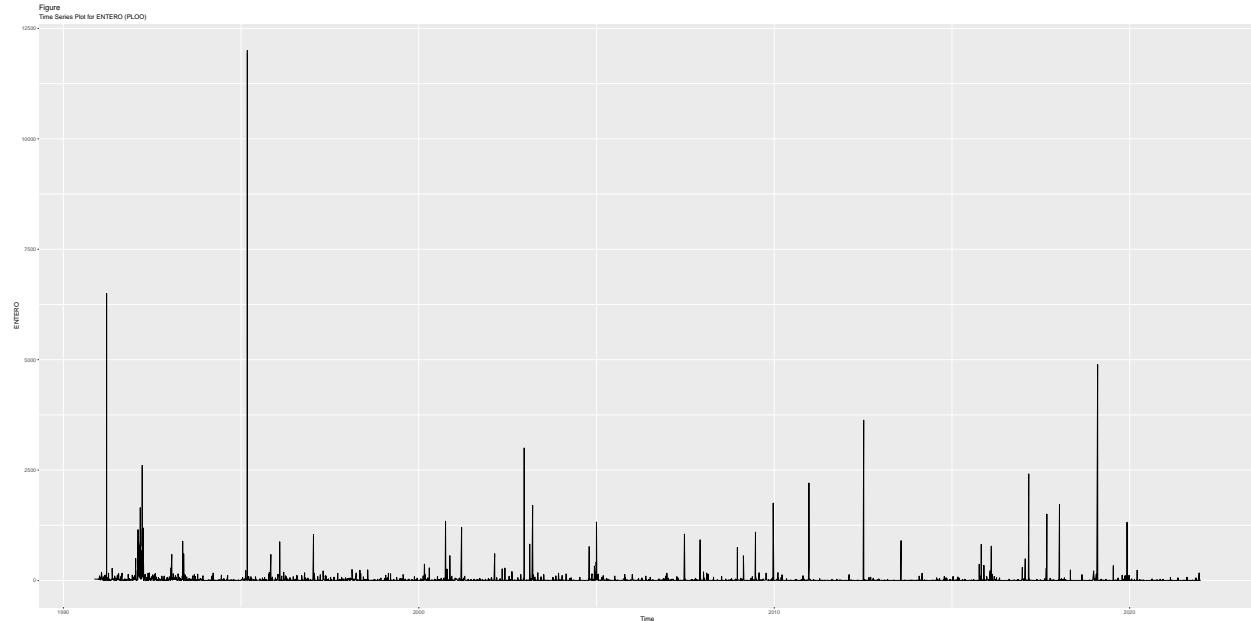
```
##
## Autocorrelations of series 'df_01a[, i]', by lag
##
##      0      1      2      3      4      5      6      7      8      9      10     11     12
## 1.000 0.142 0.136 0.168 0.115 0.106 0.063 0.061 0.098 0.091 0.121 0.089 0.059
##      13     14     15     16     17     18     19     20     21     22     23     24     25
## 0.069 0.074 0.073 0.064 0.122 0.067 0.080 0.105 0.053 0.073 0.077 0.045 0.091
```

```

##   26    27    28    29    30    31    32    33    34    35    36    37    38
## 0.057 0.052 0.048 0.040 0.055 0.058 0.041 0.045 0.053 0.036 0.044 0.058 0.049
##   39    40
## 0.049 0.043

## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.

```



```

##
## Autocorrelations of series 'df_01a[, i]', by lag
##
##   0    1    2    3    4    5    6    7    8    9    10   11   12
## 1.000 0.356 0.573 0.234 0.358 0.312 0.227 0.312 0.246 0.233 0.297 0.362 0.169
##   13   14   15   16   17   18   19   20   21   22   23   24   25
## 0.311 0.168 0.367 0.206 0.313 0.194 0.184 0.257 0.162 0.206 0.189 0.247 0.238

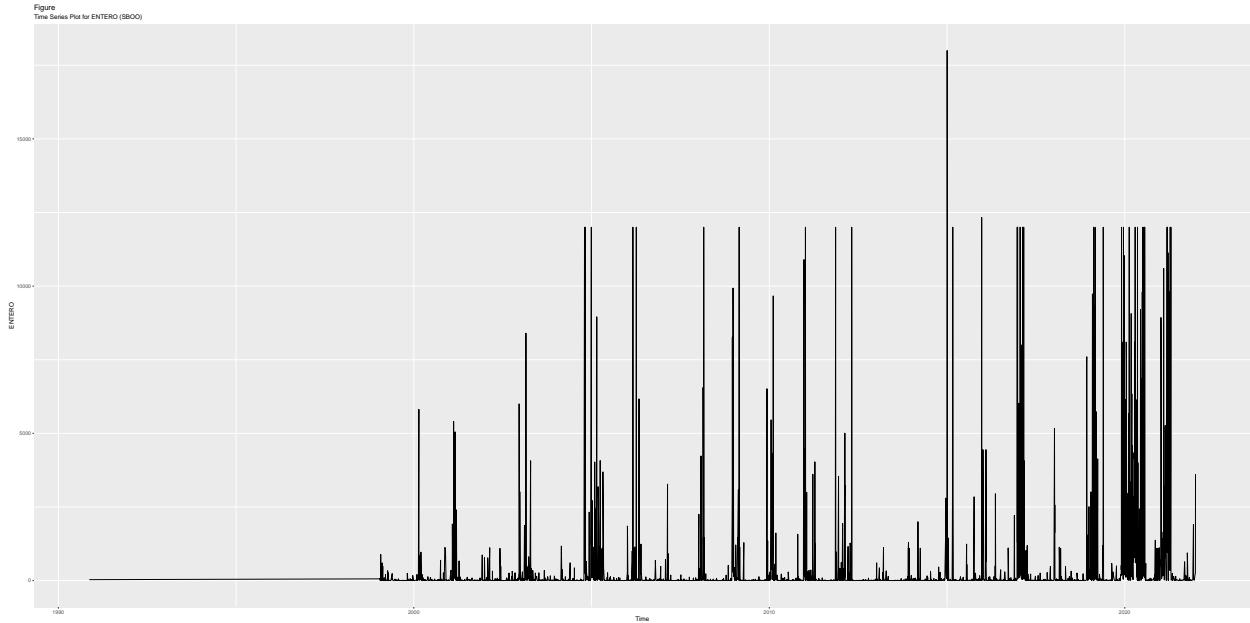
```

```

##    26     27     28     29     30     31     32     33     34     35     36     37     38
## 0.184 0.255 0.275 0.178 0.266 0.158 0.172 0.080 0.094 0.185 0.084 0.135 0.146
##    39     40
## 0.143 0.086

## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.

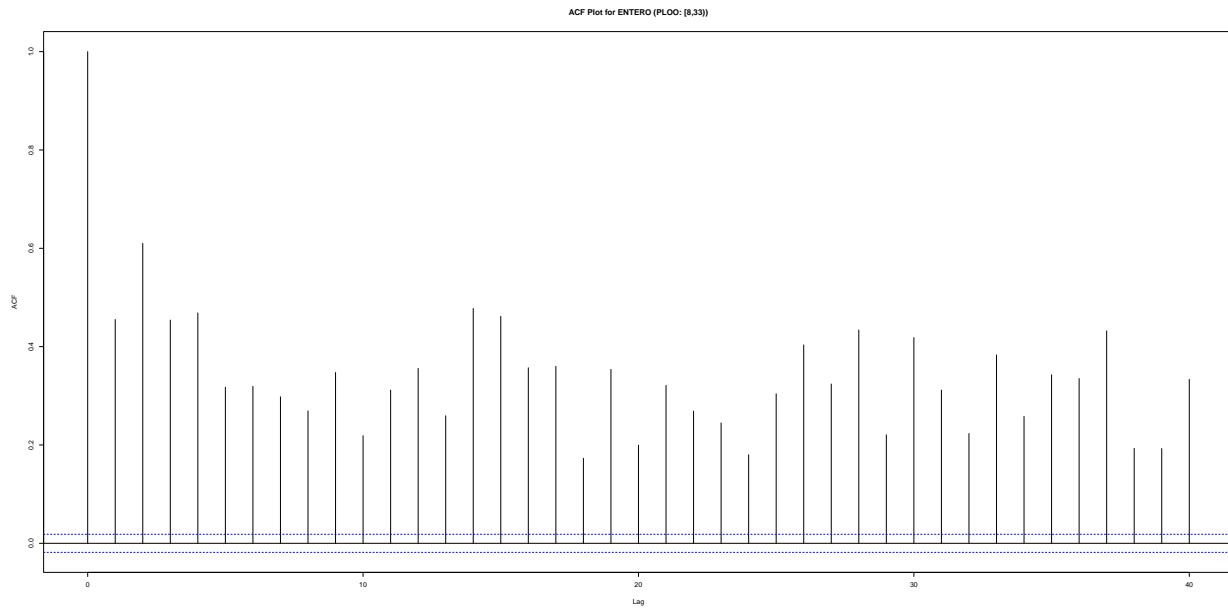
```



```

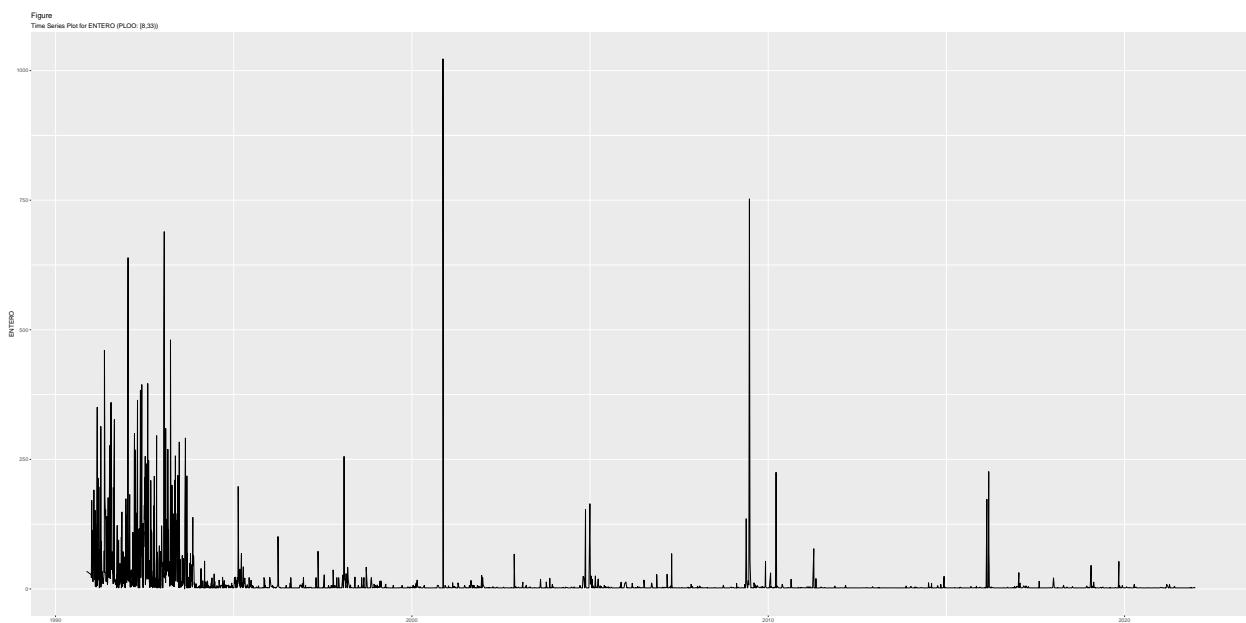
time_plt(df = owt_df02_gb07_mrgd,
          date = "date_sample",
          l1 = param_lst05,
          l2_name = "project",
          l2 = uniq_proj,
          l3_name = "depth_m_bin",
          l3 = uniq_depth)

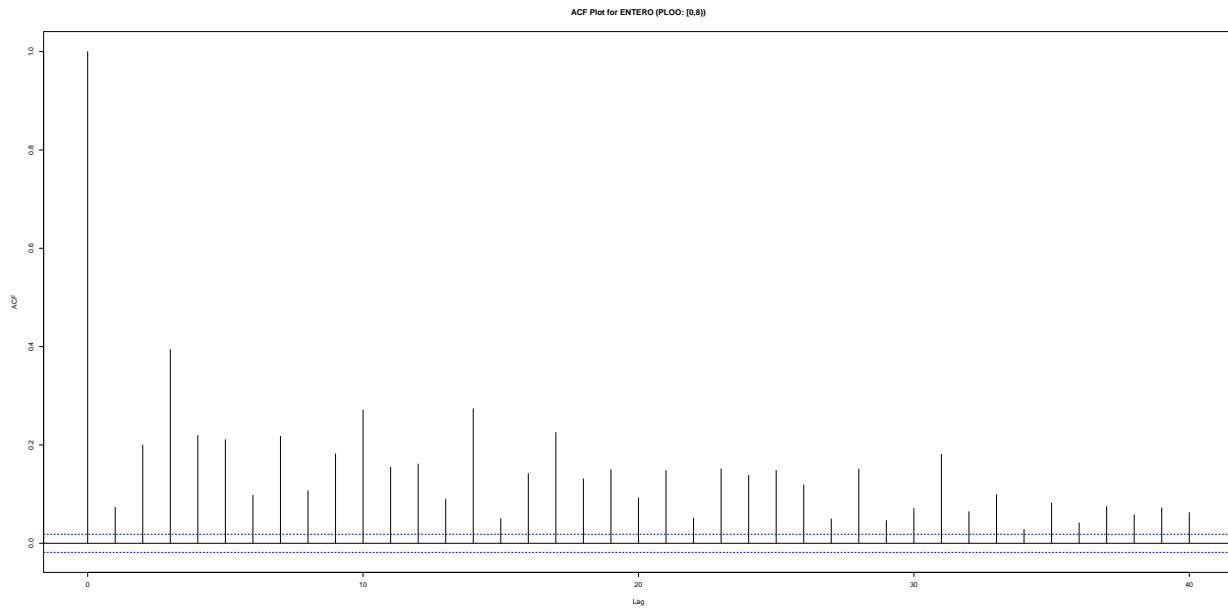
```



```
##
## Autocorrelations of series 'df_01a[, i]', by lag
##
##          0      1      2      3      4      5      6      7      8      9      10     11     12
## 1.000 0.455 0.610 0.454 0.469 0.317 0.319 0.298 0.269 0.347 0.219 0.312 0.356
##          13     14     15     16     17     18     19     20     21     22     23     24     25
## 0.259 0.478 0.462 0.357 0.360 0.173 0.354 0.200 0.321 0.269 0.245 0.180 0.304
##          26     27     28     29     30     31     32     33     34     35     36     37     38
## 0.403 0.324 0.434 0.221 0.418 0.312 0.223 0.383 0.258 0.343 0.335 0.432 0.193
##          39     40
## 0.193 0.333

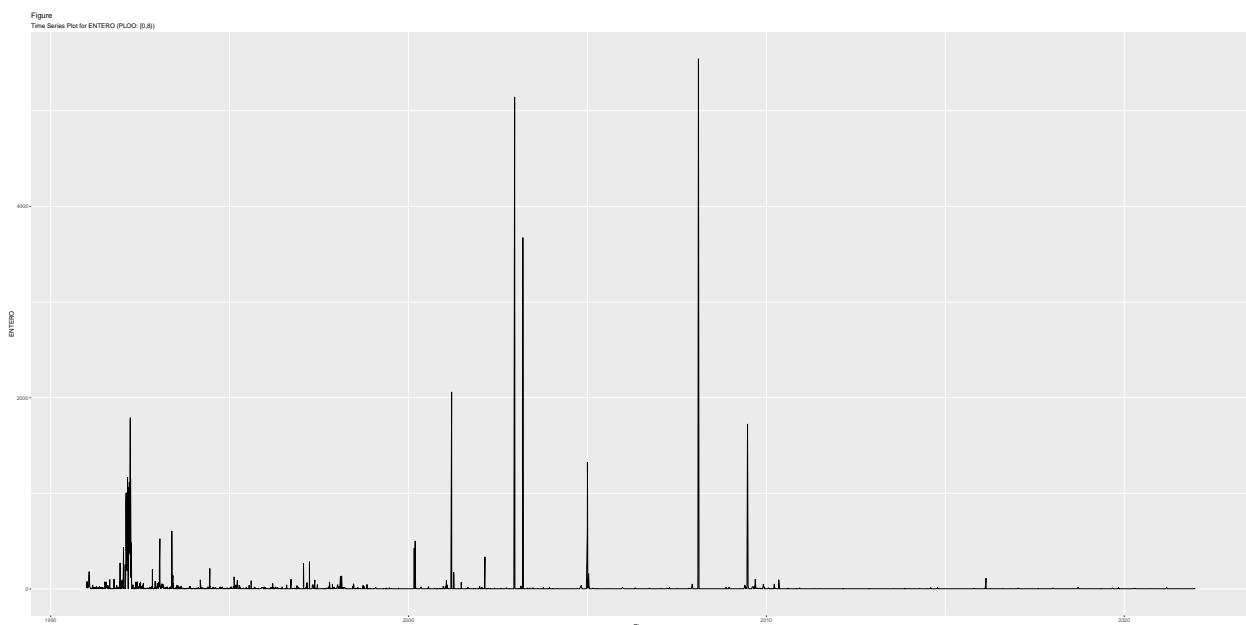
## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.
```

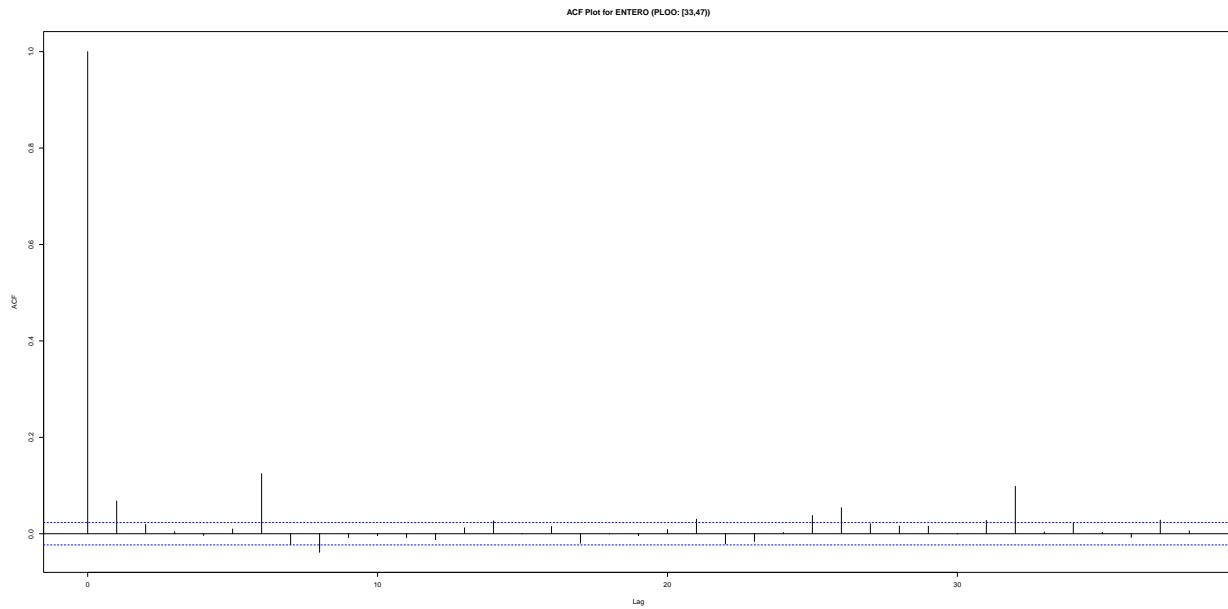




```
##
## Autocorrelations of series 'df_01a[, i]', by lag
##
##          0      1      2      3      4      5      6      7      8      9      10     11     12
## 1.000 0.073 0.200 0.394 0.219 0.211 0.098 0.217 0.107 0.182 0.271 0.155 0.161
##      13     14     15     16     17     18     19     20     21     22     23     24     25
## 0.090 0.274 0.050 0.142 0.225 0.131 0.150 0.092 0.148 0.051 0.151 0.138 0.148
##      26     27     28     29     30     31     32     33     34     35     36     37     38
## 0.119 0.050 0.151 0.046 0.071 0.181 0.064 0.099 0.028 0.082 0.042 0.075 0.058
##      39     40
## 0.072 0.062

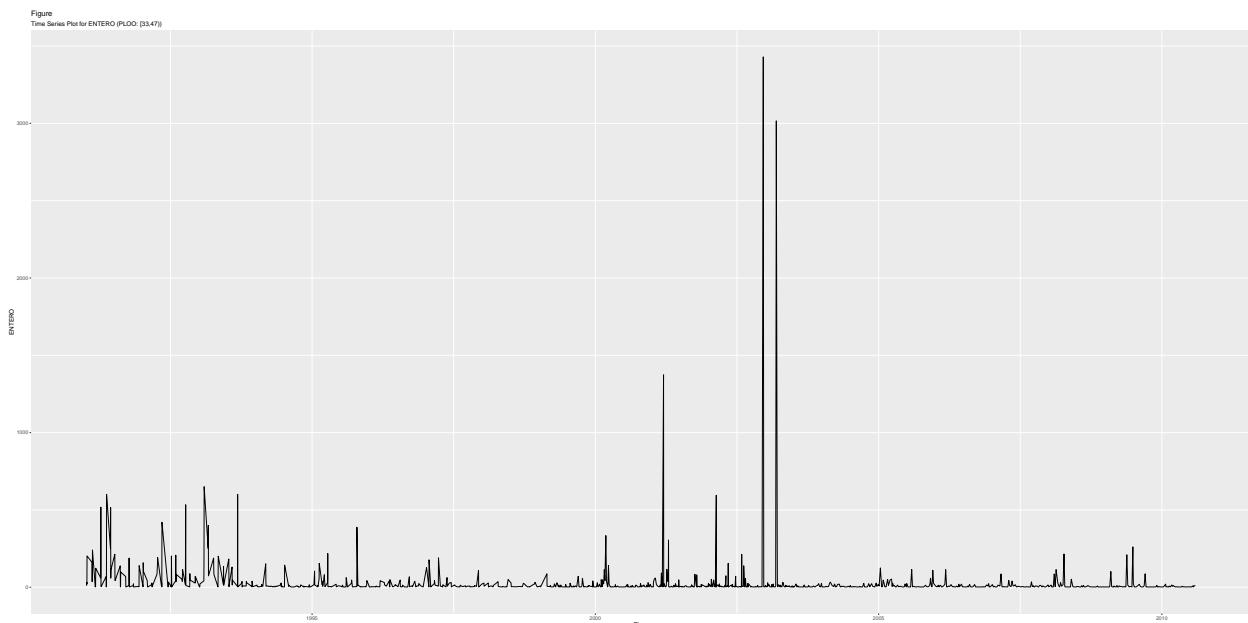
## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.
```

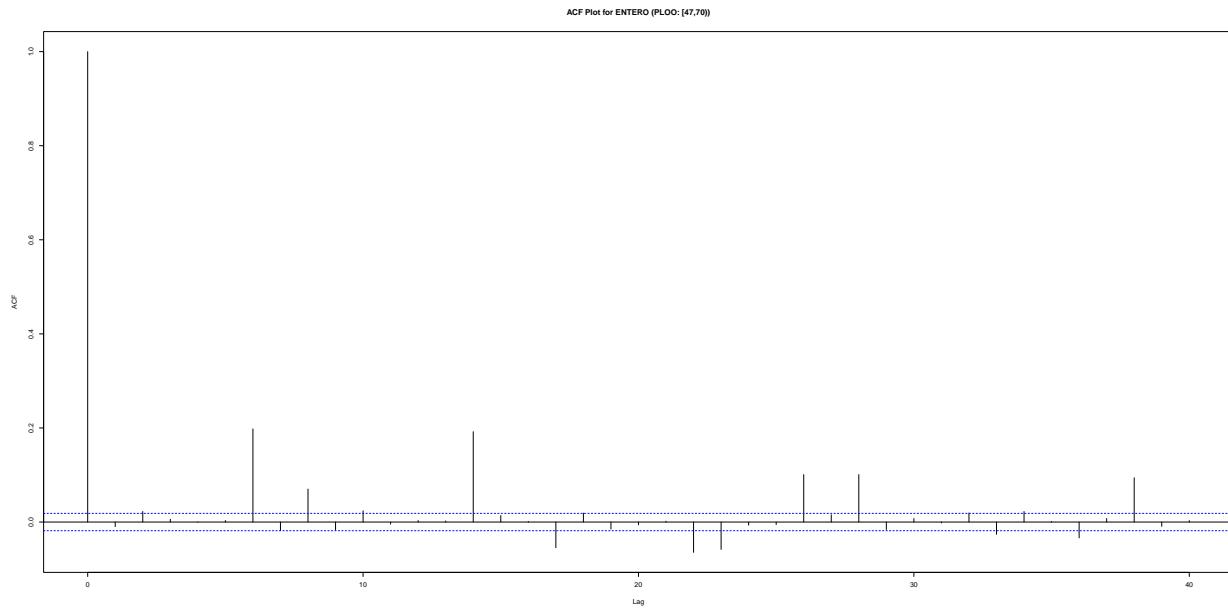




```
##
## Autocorrelations of series 'df_01a[, i]', by lag
##
##          0      1      2      3      4      5      6      7      8      9      10
##  1.000  0.068  0.019  0.004 -0.004  0.010  0.125 -0.022 -0.039 -0.008 -0.004
##      11     12     13     14     15     16     17     18     19     20     21
## -0.008 -0.012  0.012  0.027  0.000  0.015 -0.020  0.000 -0.004  0.009  0.030
##      22     23     24     25     26     27     28     29     30     31     32
## -0.021 -0.016  0.003  0.038  0.054  0.021  0.016  0.016 -0.001  0.028  0.098
##      33     34     35     36     37     38
##  0.004  0.022  0.003 -0.008  0.028  0.006

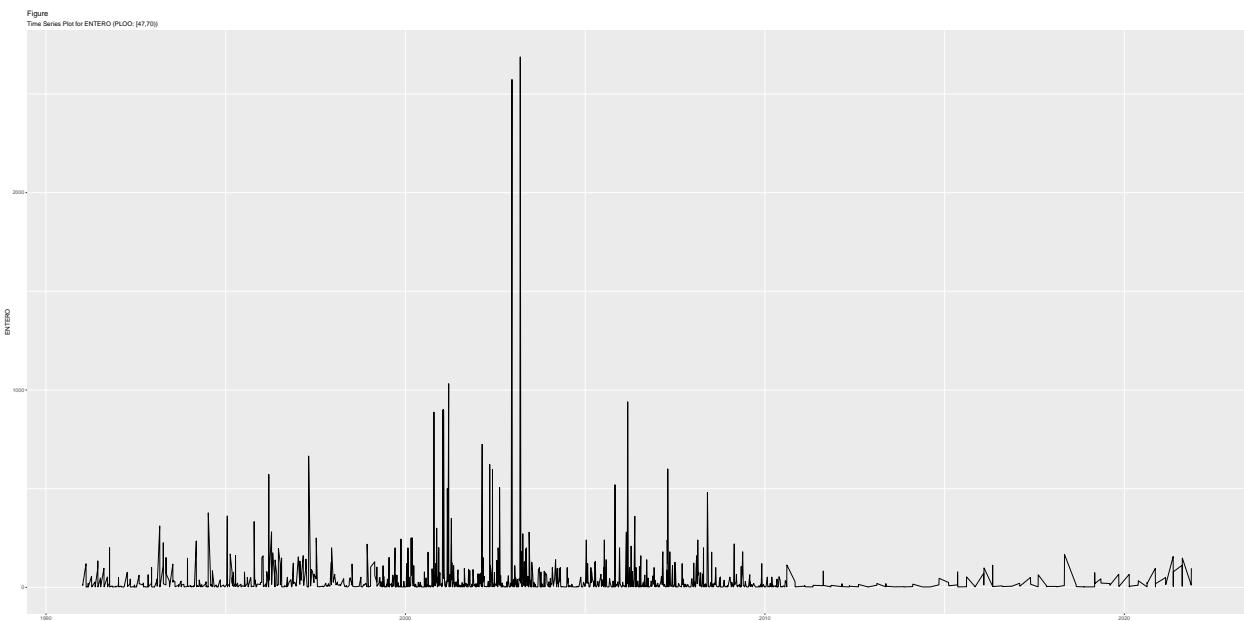
## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.
```

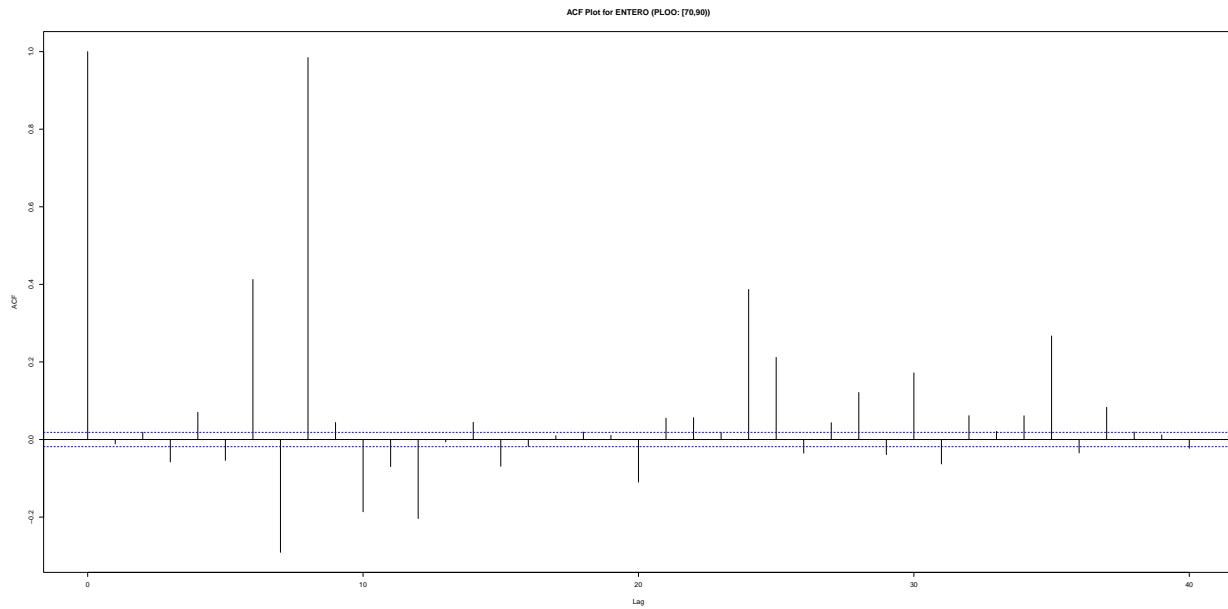




```
##
## Autocorrelations of series 'df_01a[, i]', by lag
##
##          0      1      2      3      4      5      6      7      8      9      10
## 1.000 -0.010  0.022  0.006  0.000  0.003  0.198 -0.018  0.070 -0.017  0.024
##      11     12     13     14     15     16     17     18     19     20     21
## -0.004  0.003  0.002  0.192  0.014  0.001 -0.054  0.019 -0.015 -0.006  0.002
##      22     23     24     25     26     27     28     29     30     31     32
## -0.064 -0.058 -0.007 -0.005  0.101  0.015  0.101 -0.016  0.008 -0.002  0.019
##      33     34     35     36     37     38     39     40
## -0.026  0.022  0.001 -0.034  0.008  0.094 -0.009  0.003
```

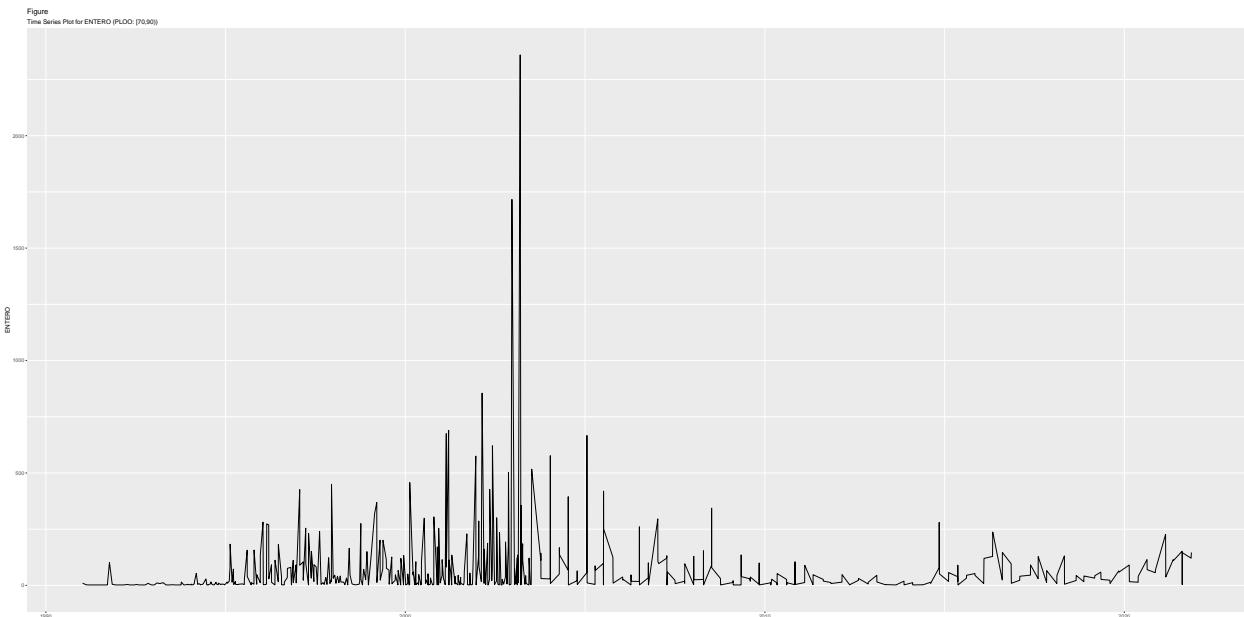
Don't know how to automatically pick scale for object of type <zoo>. Defaulting
to continuous.

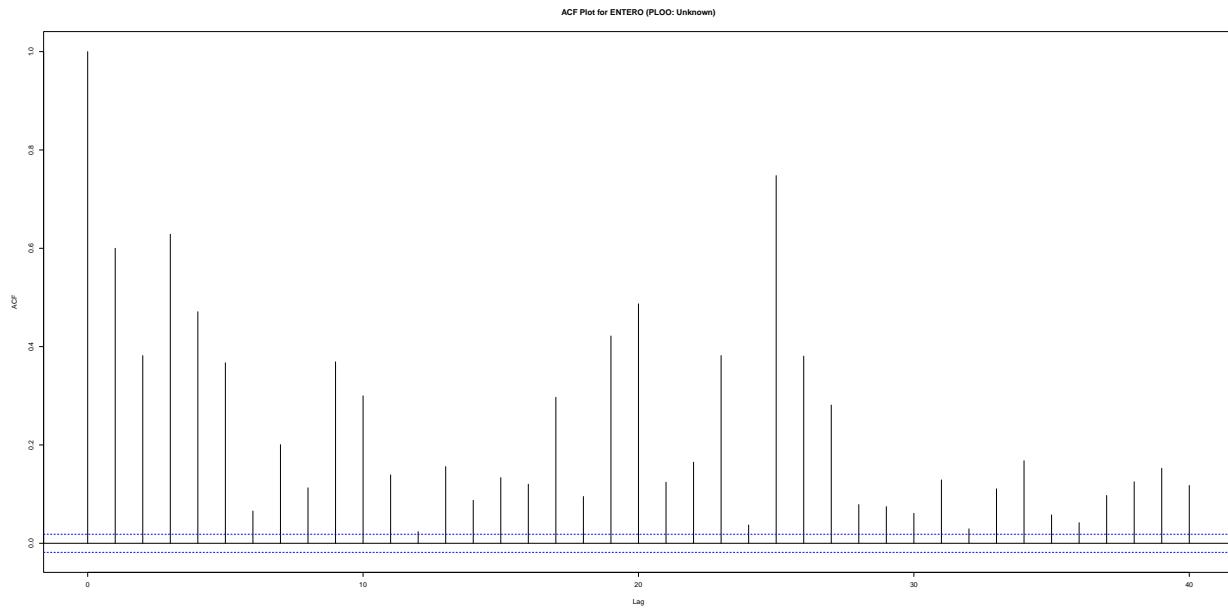




```
##
## Autocorrelations of series 'df_01a[, i]', by lag
##
##          0      1      2      3      4      5      6      7      8      9      10
##  1.000 -0.011  0.019 -0.058  0.070 -0.054  0.413 -0.291  0.985  0.044 -0.186
##          11     12     13     14     15     16     17     18     19     20     21
## -0.070 -0.204 -0.006  0.044 -0.069 -0.018  0.010  0.019  0.011 -0.110  0.055
##          22     23     24     25     26     27     28     29     30     31     32
##  0.056  0.019  0.387  0.212 -0.035  0.043  0.121 -0.039  0.172 -0.063  0.062
##          33     34     35     36     37     38     39     40
##  0.021  0.061  0.267 -0.034  0.083  0.020  0.012 -0.023

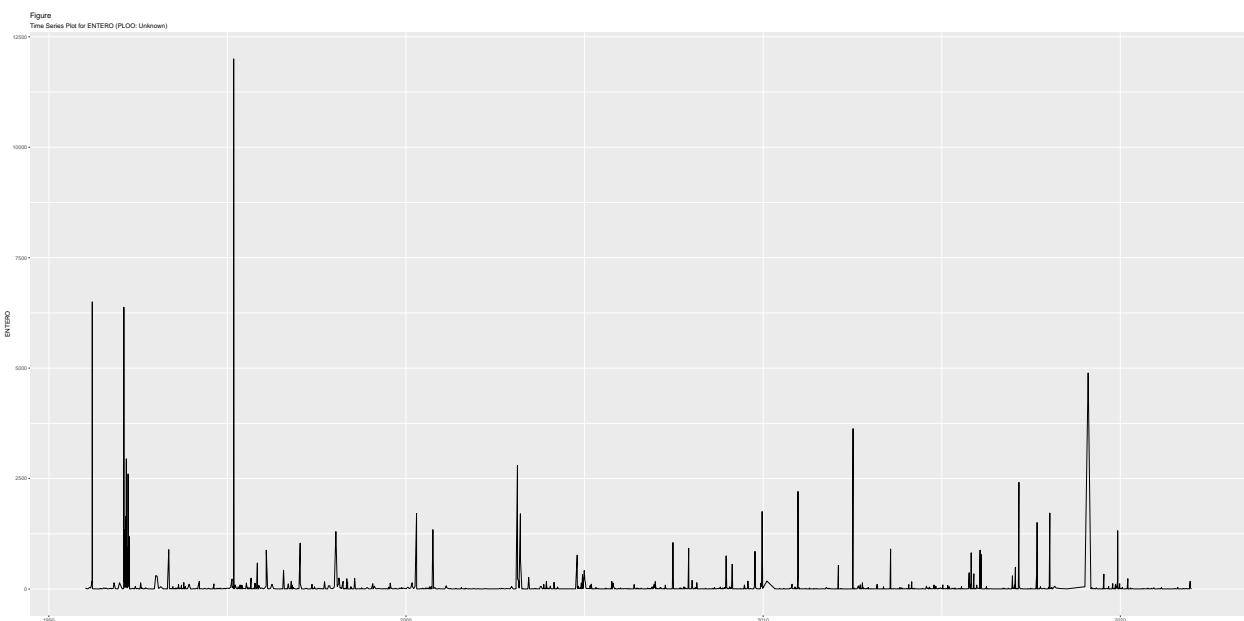
## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.
```

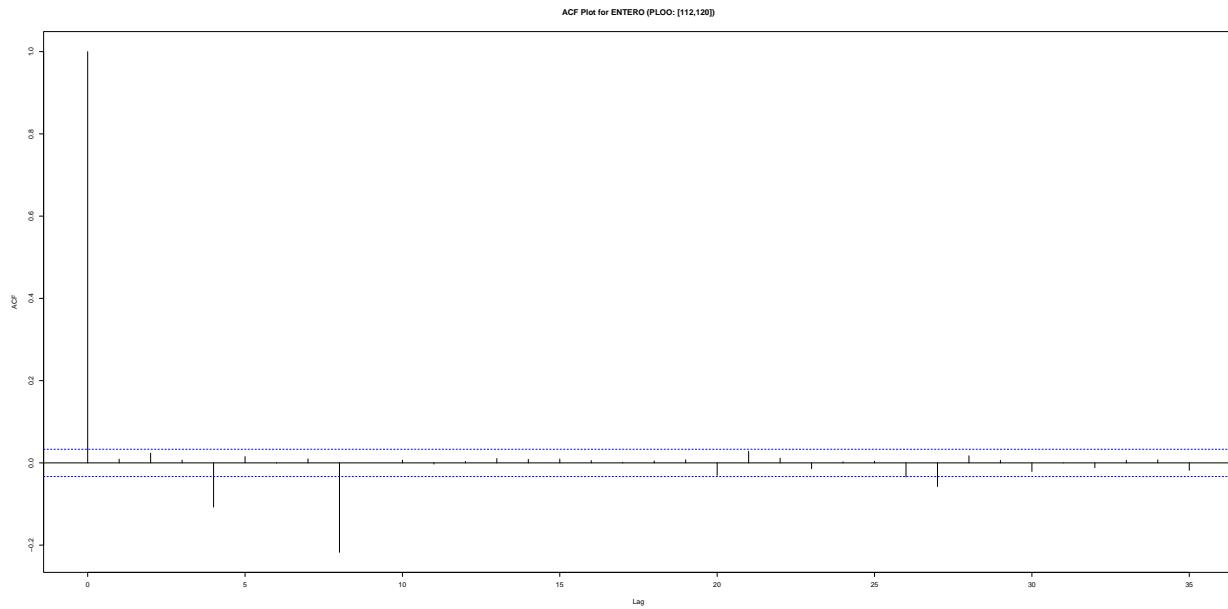




```
##
## Autocorrelations of series 'df_01a[, i]', by lag
##
##          0      1      2      3      4      5      6      7      8      9      10     11     12
## 1.000 0.600 0.382 0.628 0.471 0.367 0.066 0.201 0.113 0.369 0.300 0.139 0.024
##          13     14     15     16     17     18     19     20     21     22     23     24     25
## 0.156 0.087 0.134 0.120 0.297 0.095 0.422 0.487 0.124 0.165 0.382 0.037 0.748
##          26     27     28     29     30     31     32     33     34     35     36     37     38
## 0.381 0.281 0.079 0.074 0.061 0.129 0.029 0.111 0.168 0.058 0.042 0.097 0.125
##          39     40
## 0.153 0.118

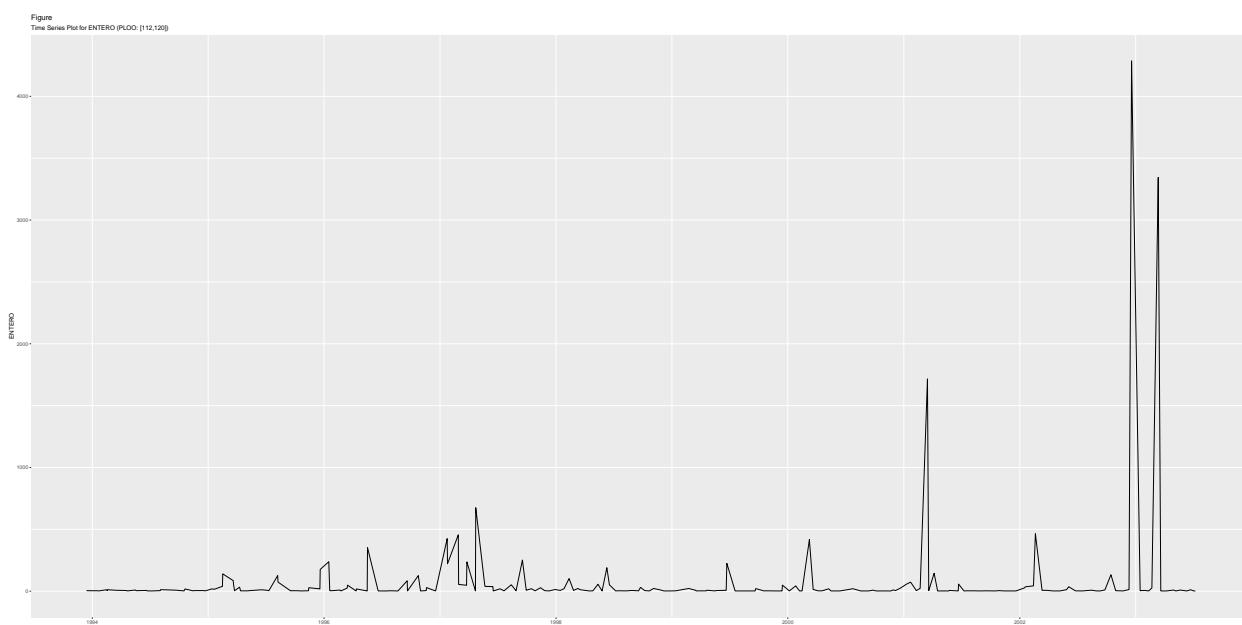
## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.
```

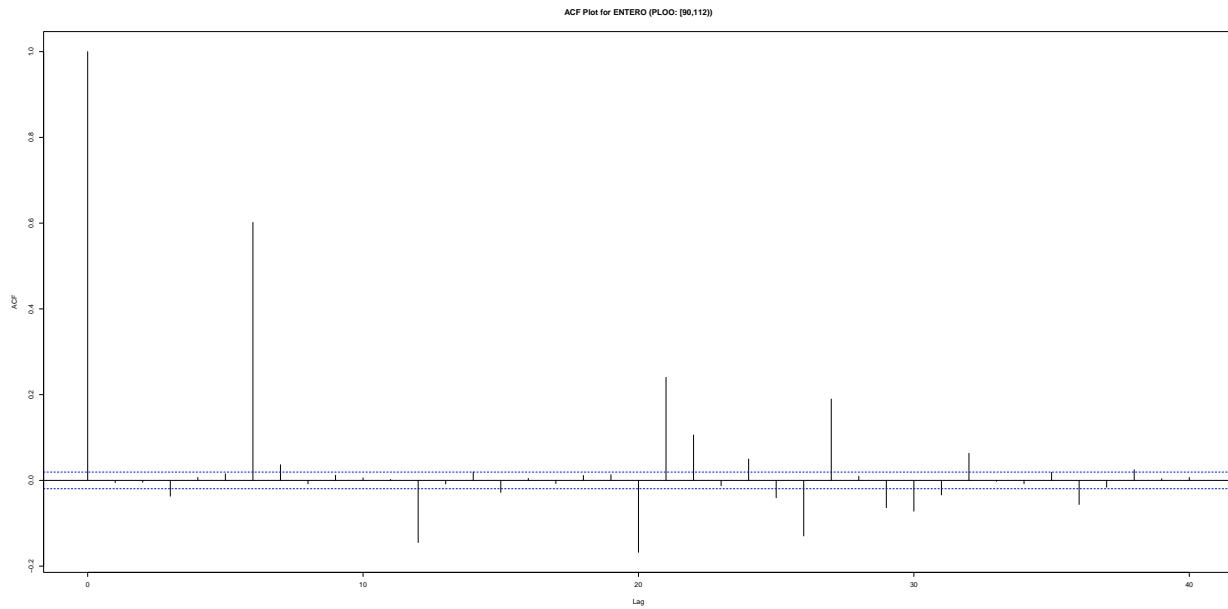




```
##
## Autocorrelations of series 'df_01a[, i]', by lag
##
##          0      1      2      3      4      5      6      7      8      9      10
## 1.000  0.009  0.024  0.007 -0.108  0.015  0.000  0.010 -0.218    NA  0.006
##      11     12     13     14     15     16     17     18     19     20     21
## -0.003  0.004  0.011  0.008  0.009  0.006  0.001  0.005  0.008 -0.030  0.028
##      22     23     24     25     26     27     28     29     30     31     32
##  0.012 -0.014  0.003  0.004 -0.034 -0.058  0.017  0.006 -0.021  0.000 -0.012
##      33     34     35
##  0.006  0.007 -0.018

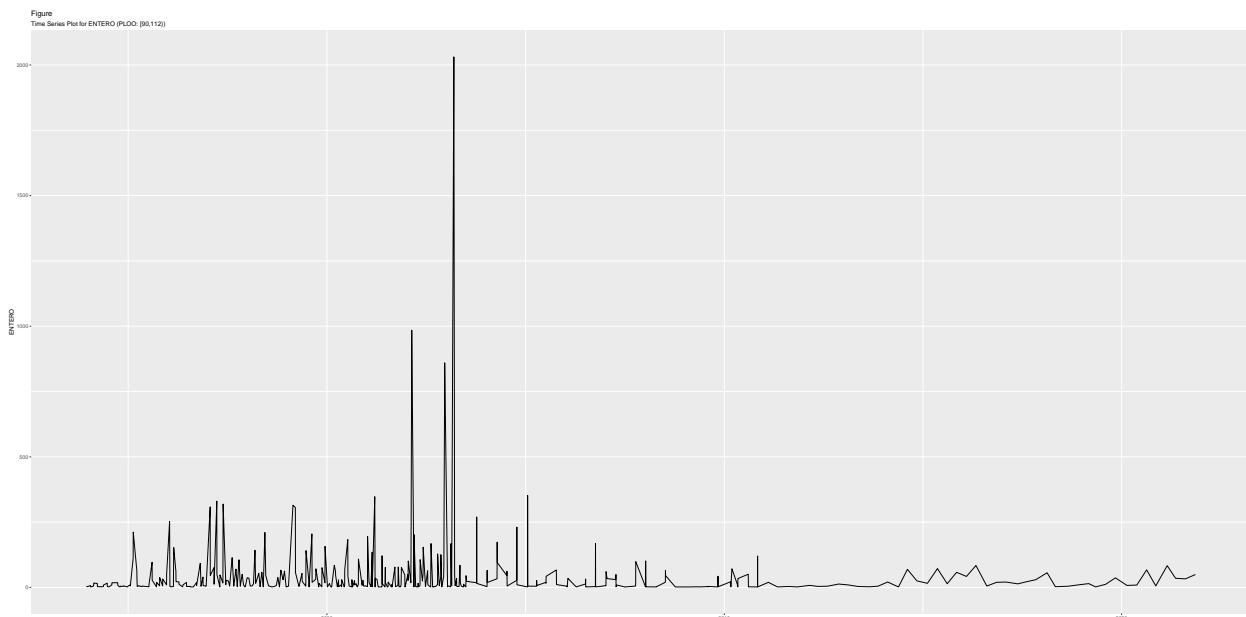
## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.
```

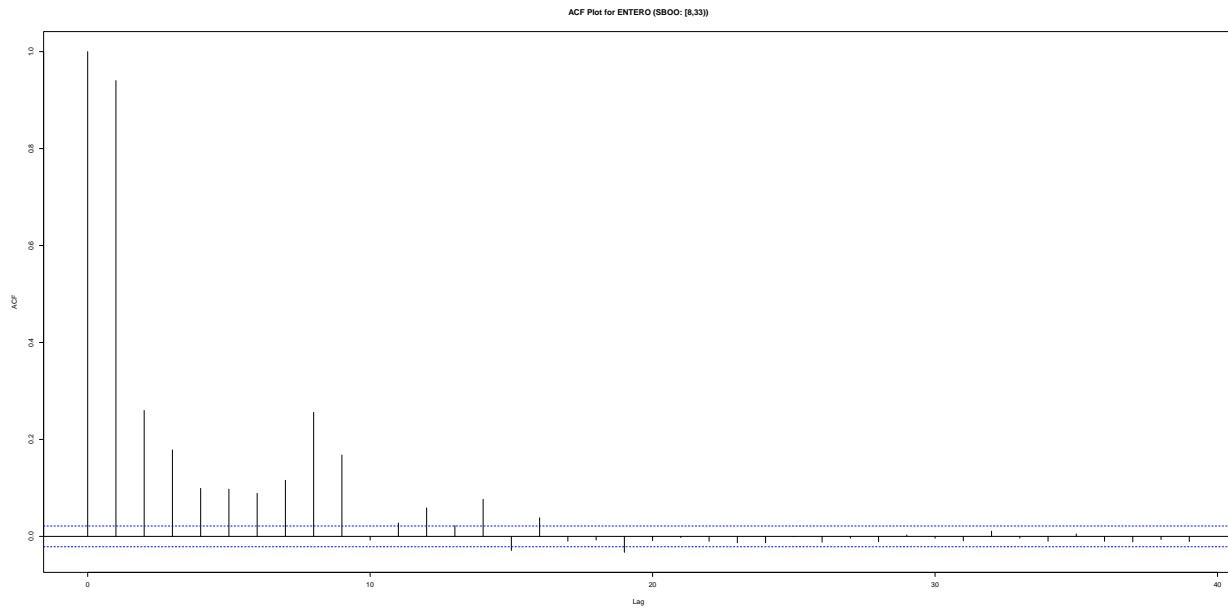




```
##
## Autocorrelations of series 'df_01a[, i]', by lag
##
##          0      1      2      3      4      5      6      7      8      9      10
##  1.000 -0.005 -0.004 -0.037  0.007  0.015  0.602  0.037 -0.008  0.012  0.006
##          11     12     13     14     15     16     17     18     19     20     21
##  0.002 -0.145 -0.008  0.020 -0.028  0.005 -0.007  0.011  0.013 -0.168  0.240
##          22     23     24     25     26     27     28     29     30     31     32
##  0.106 -0.012  0.050 -0.040 -0.130  0.190  0.010 -0.064 -0.072 -0.034  0.063
##          33     34     35     36     37     38     39     40
##  -0.002 -0.008  0.018 -0.056 -0.016  0.025  0.004  0.007
```

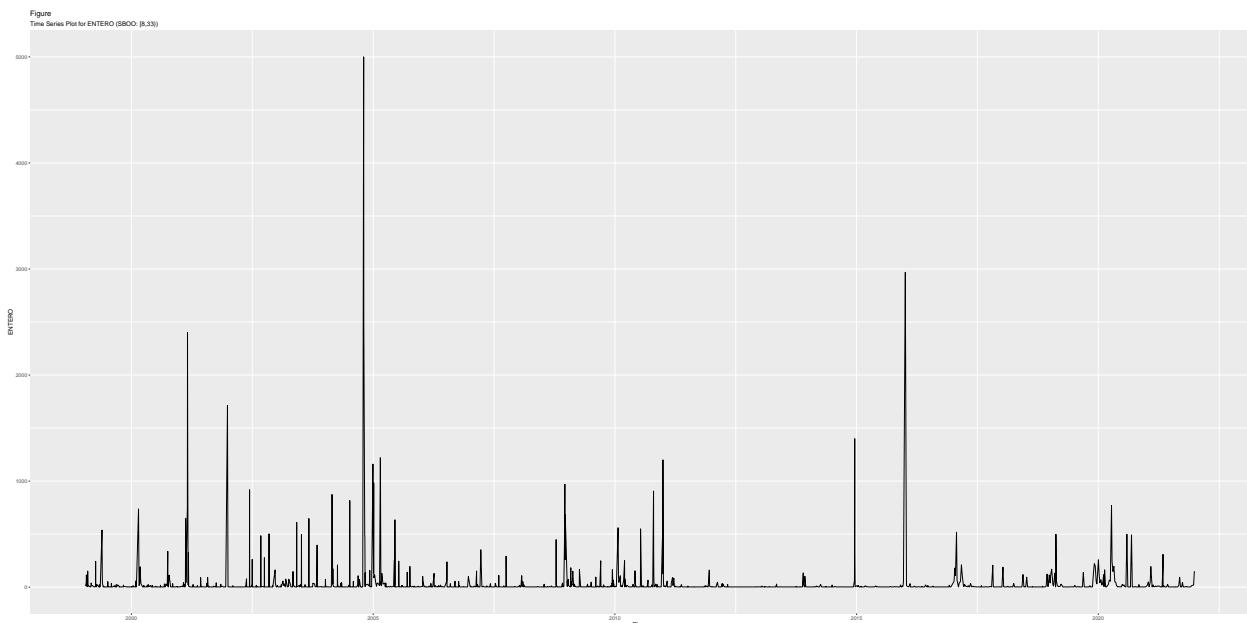
Don't know how to automatically pick scale for object of type <zoo>. Defaulting
to continuous.

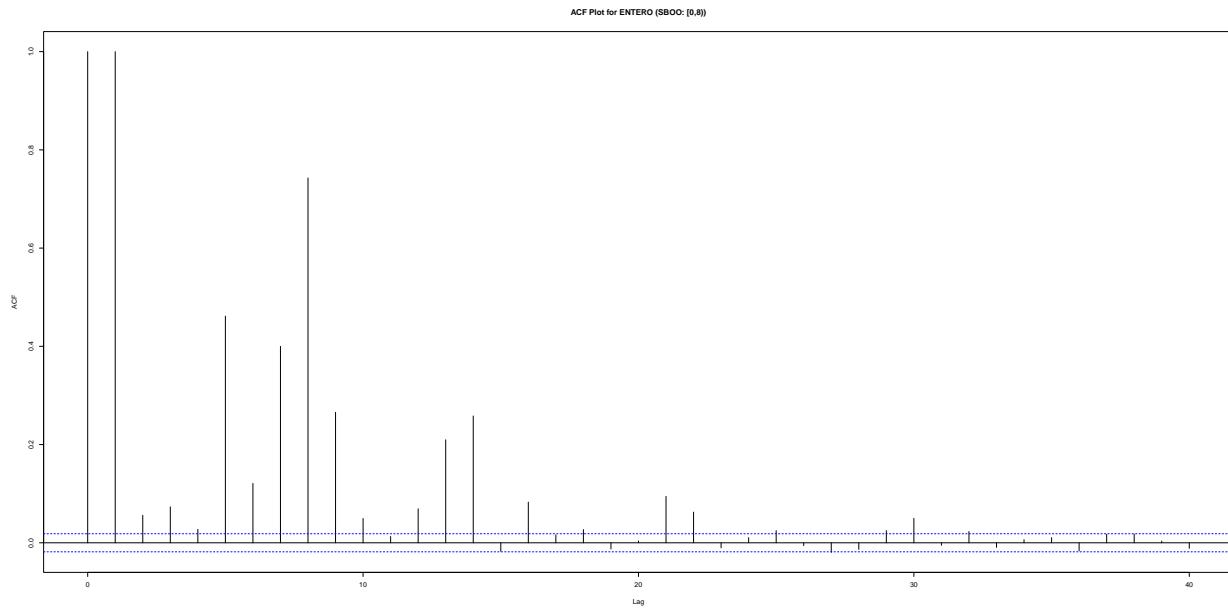




```
##
## Autocorrelations of series 'df_01a[, i]', by lag
##
##          0      1      2      3      4      5      6      7      8      9      10
##  1.000  0.940  0.260  0.178  0.099  0.097  0.089  0.116  0.256  0.168 -0.008
##      11     12     13     14     15     16     17     18     19     20     21
##  0.028  0.059  0.022  0.077 -0.029  0.038 -0.010 -0.008 -0.033 -0.009 -0.002
##      22     23     24     25     26     27     28     29     30     31     32
## -0.010 -0.013 -0.013 -0.001 -0.012 -0.004 -0.011  0.003 -0.004 -0.009  0.011
##      33     34     35     36     37     38     39
## -0.003 -0.010  0.005 -0.010 -0.011 -0.006 -0.011
```

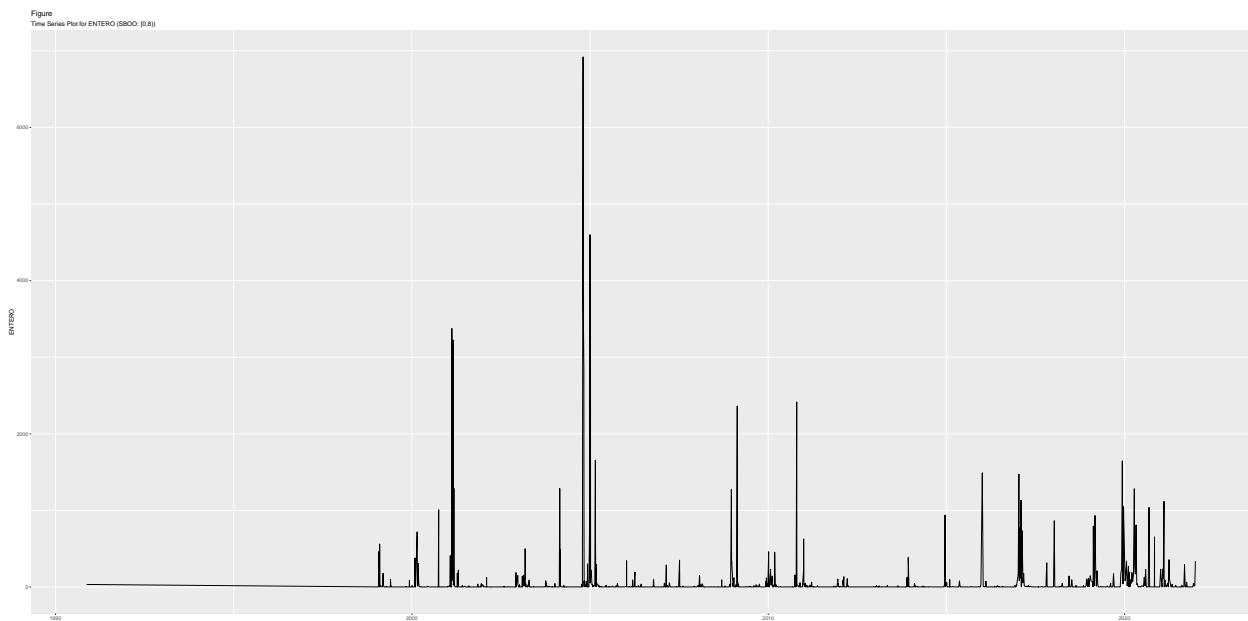
Don't know how to automatically pick scale for object of type <zoo>. Defaulting
to continuous.

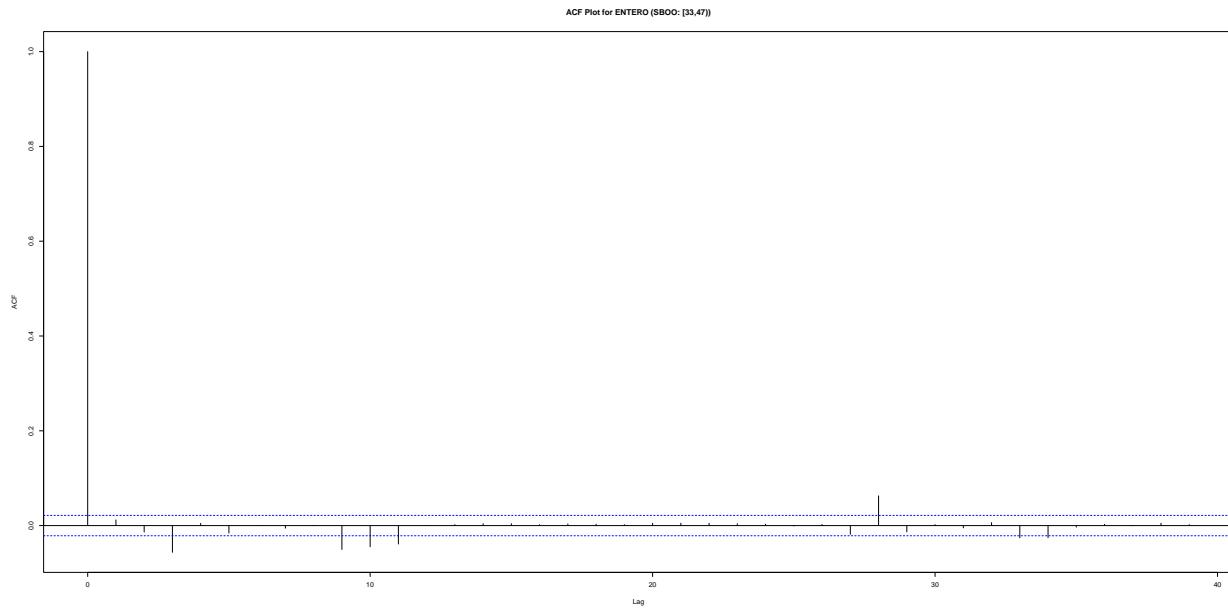




```
##
## Autocorrelations of series 'df_01a[, i]', by lag
##
##          0      1      2      3      4      5      6      7      8      9      10
## 1.000  1.000  0.056  0.073  0.027  0.461  0.121  0.400  0.743  0.266  0.050
##      11     12     13     14     15     16     17     18     19     20     21
##  0.013  0.069  0.210  0.258 -0.017  0.083  0.016  0.027 -0.013  0.004  0.095
##      22     23     24     25     26     27     28     29     30     31     32
##  0.063 -0.010  0.010  0.025 -0.006 -0.019 -0.013  0.025  0.050 -0.005  0.023
##      33     34     35     36     37     38     39     40
## -0.009  0.006  0.010 -0.016  0.017  0.018  0.004 -0.011
```

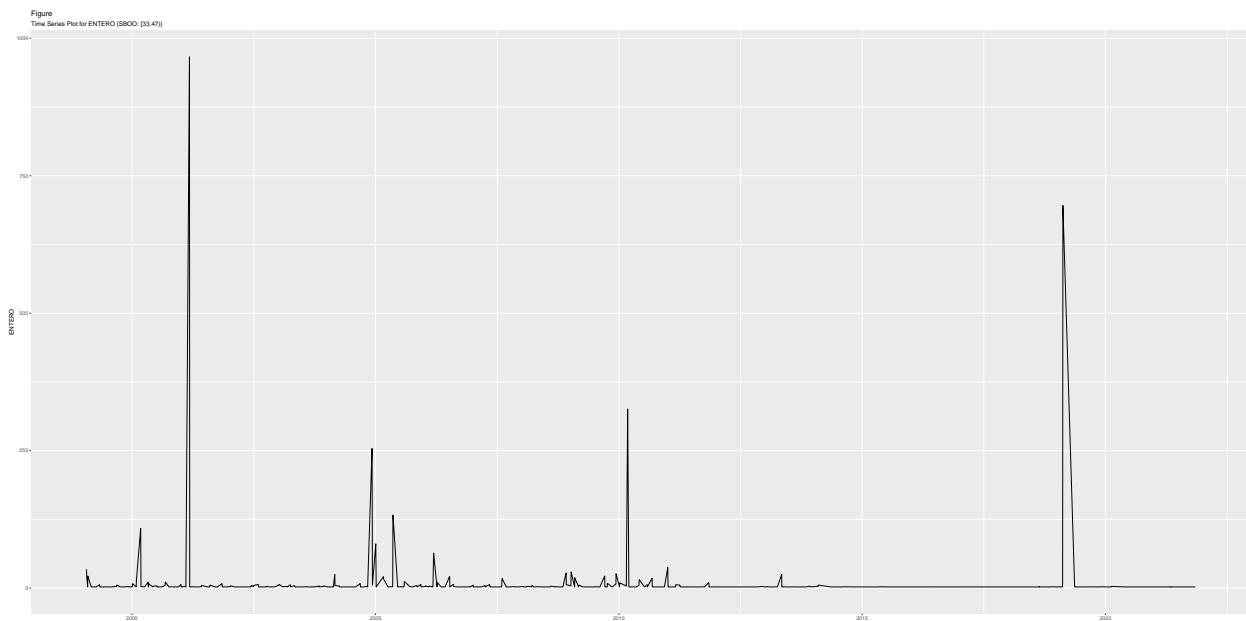
Don't know how to automatically pick scale for object of type <zoo>. Defaulting
to continuous.

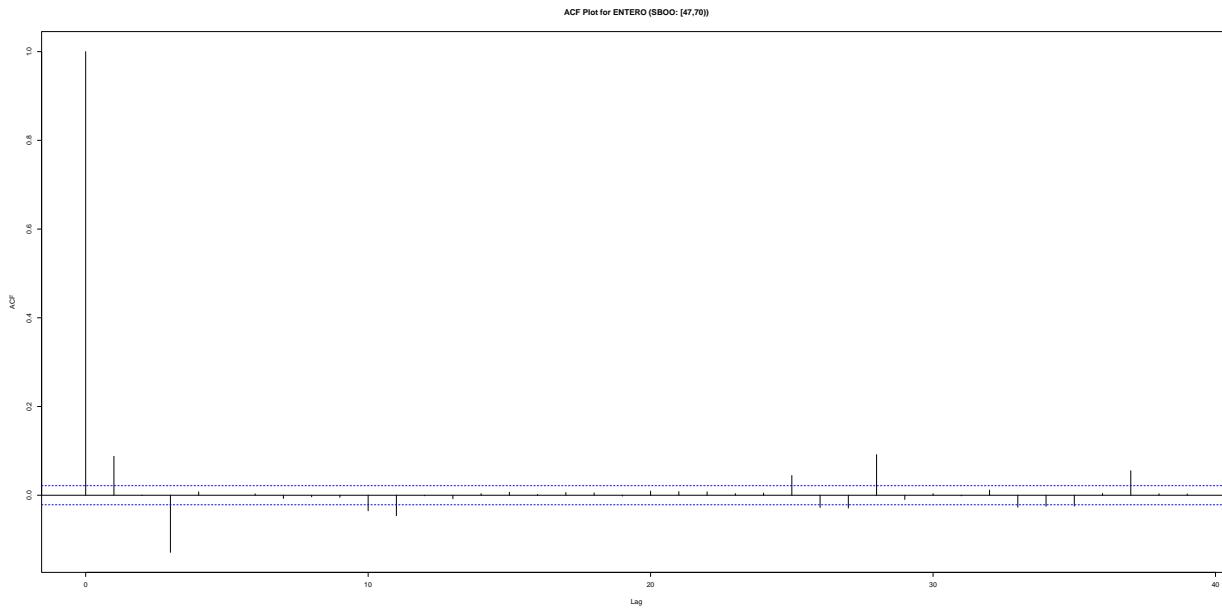




```
##
## Autocorrelations of series 'df_01a[, i]', by lag
##
##          0      1      2      3      4      5      6      7      8      9      10
##  1.000  0.012 -0.014 -0.056  0.005 -0.016  0.000 -0.005  0.001 -0.050 -0.045
##  11     12     13     14     15     16     17     18     19     20     21
## -0.039  0.000  0.002  0.004  0.004  0.002  0.004  0.003  0.002  0.005  0.005
##  22     23     24     25     26     27     28     29     30     31     32
##  0.005  0.004  0.003 -0.001  0.002 -0.018  0.063 -0.013  0.002 -0.005  0.006
##  33     34     35     36     37     38     39
## -0.026 -0.026 -0.003  0.003  0.000  0.005  0.002
```

Don't know how to automatically pick scale for object of type <zoo>. Defaulting
to continuous.





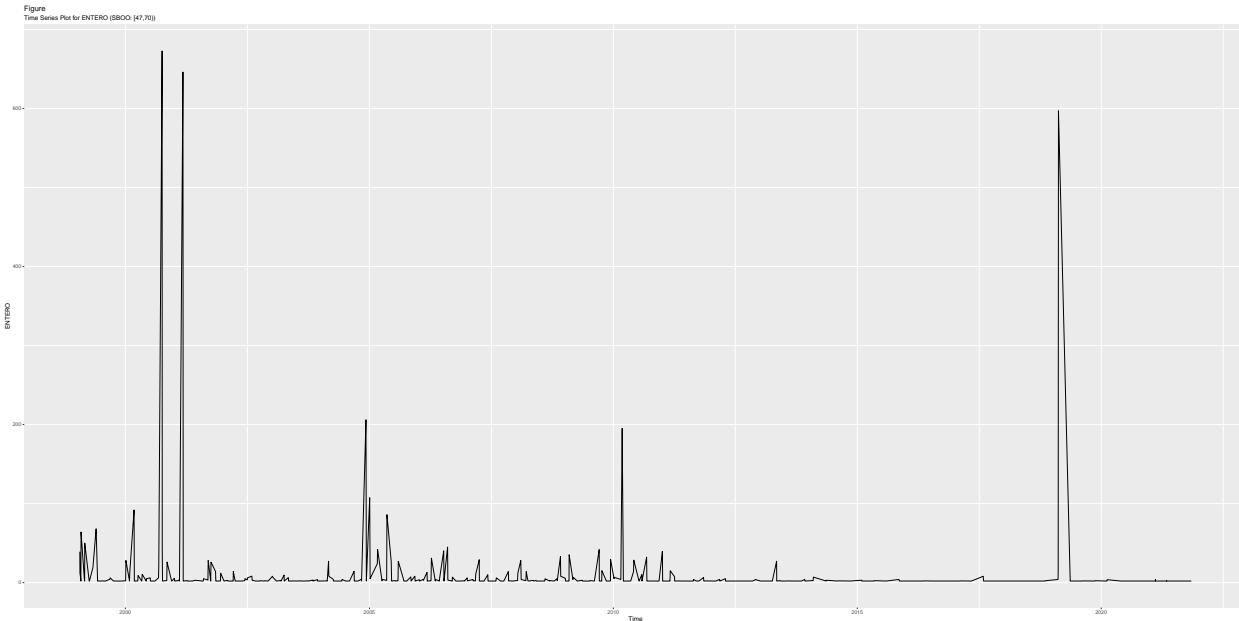
```

## 
## Autocorrelations of series 'df_01a[, i]', by lag
## 
##      0      1      2      3      4      5      6      7      8      9      10 
## 1.000  0.088 -0.001 -0.129  0.008    NA  0.003 -0.007 -0.004 -0.005 -0.035 
##      11     12     13     14     15     16     17     18     19     20     21 
## -0.046 -0.001 -0.008  0.004  0.007  0.002  0.006  0.005 -0.002  0.009  0.008 
##      22     23     24     25     26     27     28     29     30     31     32 
##  0.008  0.004  0.005  0.044 -0.028 -0.029  0.091 -0.010  0.004 -0.001  0.011 
##      33     34     35     36     37     38     39 
## -0.027 -0.025 -0.024  0.004  0.055  0.003  0.003

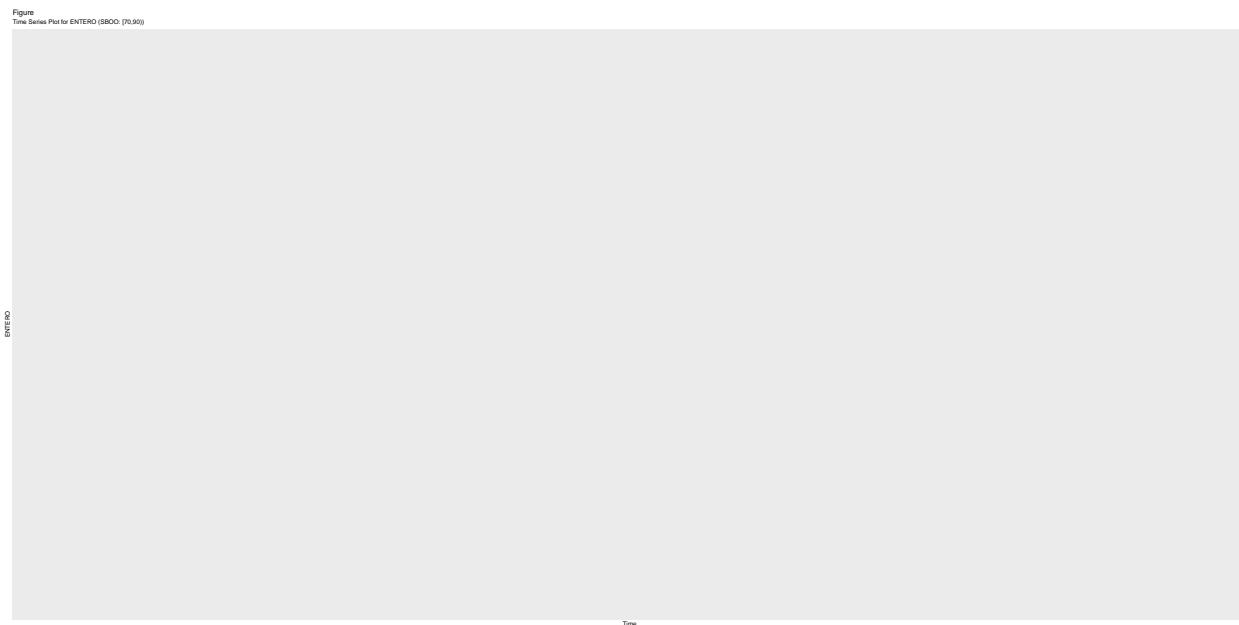
## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.

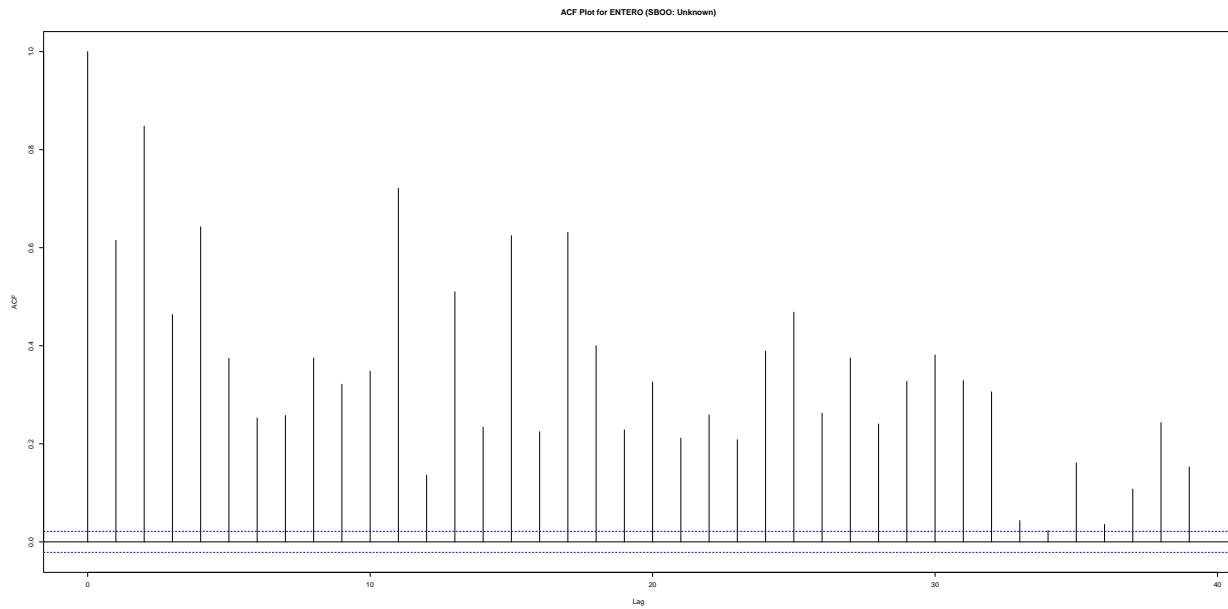
## Warning in as.ts.zoo(x): 'x' does not have an underlying regularity

```

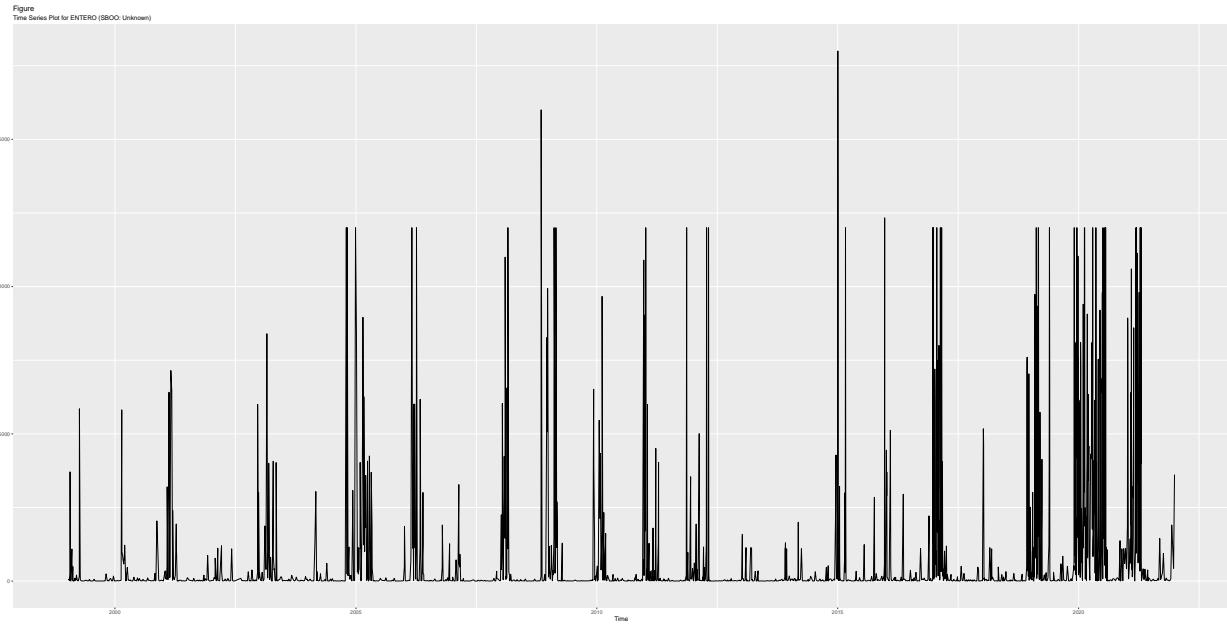


```
## Error in ts(coredata(x)) : 'ts' object must have one or more observations
```





```
##
## Autocorrelations of series 'df_01a[, i]', by lag
##
##          0      1      2      3      4      5      6      7      8      9      10     11     12
## 1.000 0.615 0.848 0.464 0.643 0.374 0.253 0.258 0.375 0.321 0.348 0.721 0.136
##          13     14     15     16     17     18     19     20     21     22     23     24     25
## 0.510 0.234 0.625 0.225 0.631 0.400 0.228 0.326 0.212 0.259 0.208 0.389 0.469
##          26     27     28     29     30     31     32     33     34     35     36     37     38
## 0.263 0.375 0.240 0.328 0.381 0.329 0.306 0.043 0.023 0.161 0.035 0.108 0.243
##          39
## 0.153
## Don't know how to automatically pick scale for object of type <zoo>. Defaulting
## to continuous.
## Warning in as.ts.zoo(x): 'x' does not have an underlying regularity
```



```
## Error in ts(coredata(x)) : 'ts' object must have one or more observations
## Warning in as.ts.zoo(x): 'x' does not have an underlying regularity
```



```
## Error in ts(coredata(x)) : 'ts' object must have one or more observations
```

Figure
Time Series Plot for ENTERO (SBOO [30,112])

