

Daily gold pricesForecasting Models

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R set up

```
rm(list=ls())
options(scipen=999,digits=4)
rm
```

```
## function (... , list = character(), pos = -1, envir = as.environment(pos),
##     inherits = FALSE)
## {
##     dots <- match.call(expand.dots = FALSE)$...
##     if (length(dots) && !all(vapply(dots, function(x) is.symbol(x) ||
##         is.character(x), NA, USE.NAMES = FALSE)))
##         stop("... must contain names or character strings")
##     names <- vapply(dots, as.character, "")
##     if (length(names) == 0L)
##         names <- character()
##     list <- .Primitive("c")(list, names)
##     .Internal(remove(list, envir, inherits))
## }
## <bytecode: 0x0000000014bf88f0>
## <environment: namespace:base>
```

Load R packages

```
library(readxl)
library(tidyquant)
```

```
## Loading required package: lubridate
```

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

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

```
## Loading required package: PerformanceAnalytics
```

```
## Loading required package: xts
```

```
## Loading required package: zoo
```

```
## Warning: package 'zoo' was built under R version 4.1.3
```

```
##  
## Attaching package: 'zoo'
```

```
## The following objects are masked from 'package:base':  
##  
##   as.Date, as.Date.numeric
```

```
##  
## Attaching package: 'PerformanceAnalytics'
```

```
## The following object is masked from 'package:graphics':  
##  
##   legend
```

```
## Loading required package: quantmod
```

```
## Loading required package: TTR
```

```
## Registered S3 method overwritten by 'quantmod':  
##   method      from  
##   as.zoo.data.frame zoo
```

```
## == Need to Learn tidyquant? =====  
## Business Science offers a 1-hour course - Learning Lab #9: Performance Analysis & Portfolio O  
ptimization with tidyquant!  
## </> Learn more at: https://university.business-science.io/p/learning-labs-pro </>
```

```
library(tidyverse)
```

```
## -- Attaching packages ----- tidyverse 1.3.1 --
```

```
## v ggplot2 3.3.5    v purrr   0.3.4  
## v tibble  3.1.4    v dplyr   1.0.7  
## v tidyr   1.1.3    v stringr 1.4.0  
## v readr   2.0.1    v forcats 0.5.1
```

```
## Warning: package 'ggplot2' was built under R version 4.1.2
```

```
## -- Conflicts ----- tidyverse_conflicts() --
## x lubridate::as.difftime() masks base::as.difftime()
## x lubridate::date()       masks base::date()
## x dplyr::filter()         masks stats::filter()
## x dplyr::first()          masks xts::first()
## x lubridate::intersect()  masks base::intersect()
## x dplyr::lag()            masks stats::lag()
## x dplyr::last()           masks xts::last()
## x lubridate::setdiff()    masks base::setdiff()
## x lubridate::union()      masks base::union()
```

```
library(lubridate)
library(xts)
library(quantmod)
library(tseries)
library(zoo)
library(ggplot2)
library(fpp2)
```

```
## Warning: package 'fpp2' was built under R version 4.1.3
```

```
## -- Attaching packages ----- fpp2 2.4 --
```

```
## v forecast 8.16      v expsmooth 2.3
## v fma       2.4
```

```
## Warning: package 'forecast' was built under R version 4.1.3
```

```
## Warning: package 'fma' was built under R version 4.1.3
```

```
## Warning: package 'expsmooth' was built under R version 4.1.3
```

```
##
```

```
library(data.table)
```

```
##
## Attaching package: 'data.table'
```

```
## The following objects are masked from 'package:dplyr':
##
##   between, first, last
```

```
## The following object is masked from 'package:purrr':
##
##   transpose
```

```
## The following objects are masked from 'package:xts':
##
##   first, last
```

```
## The following objects are masked from 'package:lubridate':
##
##   hour, isoweek, mday, minute, month, quarter, second, wday, week,
##   yday, year
```

```
library(forecast)
library(anytime)
```

```
## Warning: package 'anytime' was built under R version 4.1.3
```

Dataset Loading

```
data <- ts(gold, start = c(1985,1), frequency = 365.25)
class(data)
```

```
## [1] "ts"
```

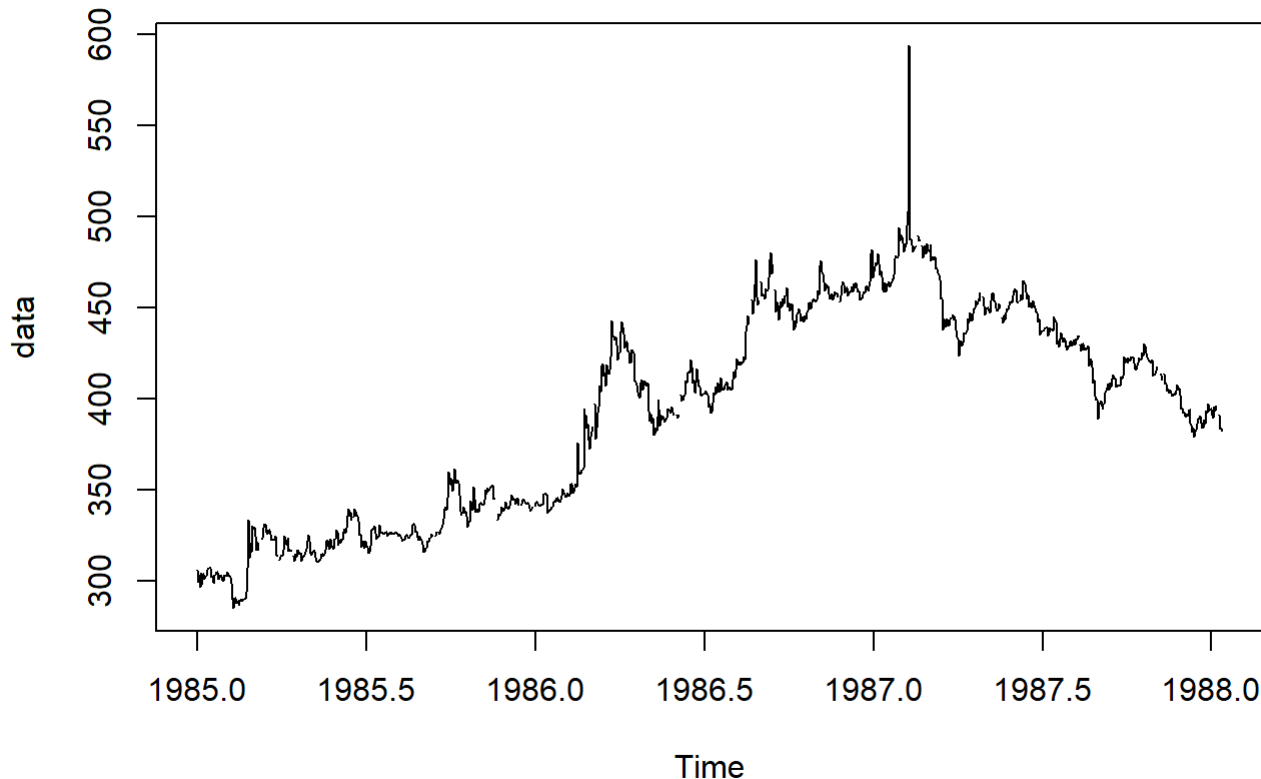
```
frequency(data)
```

```
## [1] 365.2
```

```
summary(data)
```

```
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
##   285     338     403     392     444     594     34
```

```
plot(data)
```



```
# There is an outlier, the long spike.  
# There are NA's values, the broken plot which could be seen better by using summary NA function  
s.
```

Cleaning Na's and outliers: Since I didn't get the missing values from the data collector; I will have to use a ts function to statistically get it.

```
# Cleaning the data  
data_clean <- tsclean(data)  
data_clean
```

```

## Time Series:
## Start = 1985
## End = 1988.03080082136
## Frequency = 365.25
## [1] 306.2 299.5 303.4 296.8 304.4 298.4 304.0 304.0 301.2 302.5 302.4 305.8
## [13] 306.9 307.0 306.9 302.1 301.9 299.2 298.6 303.5 303.0 304.9 304.8 301.2
## [25] 301.8 303.4 302.5 300.6 300.0 303.4 302.8 303.4 304.9 304.9 302.9 302.9
## [37] 302.0 298.8 290.0 285.0 290.8 290.5 288.1 288.3 288.9 286.7 289.3 289.0
## [49] 290.2 288.8 290.1 290.2 289.9 293.7 307.2 333.2 312.5 320.8 315.9 316.0
## [61] 329.9 328.8 329.8 324.6 317.0 321.1 317.0 318.3 323.4 323.1 323.3 329.0
## [73] 331.2 330.3 331.5 327.0 325.5 327.7 328.1 326.0 322.6 322.4 322.5 323.0
## [85] 324.6 315.6 314.2 313.7 322.6 311.2 313.4 314.5 313.6 316.8 324.8 322.9
## [97] 320.4 319.8 323.6 316.5 317.4 316.4 316.4 318.8 313.9 311.2 315.0 313.1
## [109] 316.9 316.2 314.8 314.9 315.0 310.8 313.2 313.8 314.1 315.8 317.2 321.6
## [121] 325.2 322.0 315.2 314.1 315.9 316.5 316.2 316.5 313.4 310.9 310.4 310.7
## [133] 310.9 312.2 314.8 314.7 313.8 315.1 317.1 316.8 321.7 322.2 319.0 317.4
## [145] 322.8 318.5 319.4 317.6 323.0 323.2 328.1 326.8 319.6 323.0 321.4 320.6
## [157] 322.9 322.4 326.6 328.5 326.2 328.9 335.4 339.2 335.5 335.8 337.6 333.6
## [169] 332.6 335.2 339.3 338.4 335.8 335.4 332.7 325.0 326.0 318.8 320.2 320.0
## [181] 322.0 318.0 321.8 318.9 318.7 315.5 315.9 319.2 328.1 328.4 328.7 330.4
## [193] 328.9 326.5 323.1 324.8 324.4 330.6 326.2 326.1 326.9 325.6 325.8 326.6
## [205] 326.9 325.9 324.6 326.2 326.5 325.9 326.9 325.9 325.6 326.5 326.6 326.8
## [217] 325.8 324.6 325.6 324.6 324.8 323.6 322.1 323.2 322.7 324.5 325.0 324.6
## [229] 323.8 324.1 325.1 325.8 326.0 330.5 331.5 330.4 326.8 327.4 323.9 322.5
## [241] 324.5 322.5 322.5 320.1 316.1 316.8 316.1 317.9 318.2 321.9 321.1 323.4
## [253] 323.6 325.8 324.9 327.5 329.7 324.8 326.1 327.0 329.9 327.1 326.0 327.8
## [265] 328.9 330.9 333.9 339.4 340.8 338.8 345.3 359.6 357.2 353.2 356.5 352.8
## [277] 349.5 355.2 361.8 353.8 354.4 355.4 354.0 347.4 338.5 335.9 337.1 337.9
## [289] 340.5 337.2 338.4 335.4 329.5 333.0 332.4 343.7 339.2 339.0 343.4 351.4
## [301] 345.1 337.9 338.2 339.4 337.9 342.2 343.0 342.0 341.8 341.6 344.5 349.8
## [313] 347.6 348.2 350.8 349.2 350.6 351.4 352.4 352.9 344.9 345.5 343.1 340.8
## [325] 333.7 335.5 336.6 335.6 336.5 340.6 338.6 338.1 340.2 343.2 340.2 340.8
## [337] 339.3 341.0 342.4 344.1 347.2 346.0 344.3 344.4 342.4 344.8 345.6 341.6
## [349] 344.1 341.6 342.1 344.6 344.2 344.9 343.8 342.8 342.5 342.8 342.1 340.3
## [361] 338.6 339.4 340.9 344.7 341.1 341.6 342.8 343.4 343.0 341.9 341.4 341.5
## [373] 341.5 341.9 347.6 347.5 347.9 347.4 346.5 337.3 338.5 338.7 338.9 340.5
## [385] 340.8 343.2 343.8 343.6 345.5 345.6 344.0 343.5 343.8 344.4 346.5 350.4
## [397] 347.5 347.6 346.2 345.9 348.4 346.9 347.1 353.0 353.5 351.8 348.5 349.0
## [409] 350.8 353.3 351.4 375.8 360.5 358.8 358.5 360.9 360.9 361.9 394.5 386.1
## [421] 391.2 384.0 386.4 377.2 372.5 379.0 381.8 384.6 388.8 397.3 377.8 384.0
## [433] 386.0 392.0 395.5 407.2 404.0 418.2 419.0 412.5 414.5 407.0 418.8 416.0
## [445] 413.6 413.6 415.7 423.0 442.8 435.1 434.0 432.2 434.0 429.4 421.2 425.5
## [457] 425.5 436.9 436.5 442.0 439.4 435.8 428.1 431.4 431.2 426.2 426.0 420.0
## [469] 420.0 426.8 426.6 425.4 413.0 409.6 409.6 407.8 404.0 401.5 400.3 408.5
## [481] 410.2 405.0 408.3 409.9 407.4 407.4 406.9 409.0 393.2 388.0 391.5 387.0
## [493] 389.5 380.4 380.8 384.0 382.3 390.0 399.6 394.3 385.2 391.2 388.6 390.5
## [505] 389.2 387.2 388.8 389.7 394.6 393.7 393.4 392.5 394.1 395.4 392.8 391.0
## [517] 400.2 400.5 391.4 389.4 390.9 405.8 402.4 399.0 401.7 399.5 401.6 402.2
## [529] 409.9 408.6 414.4 415.0 414.5 421.2 417.4 408.5 410.6 403.6 403.4 408.7
## [541] 416.5 411.0 407.3 406.4 402.0 401.8 402.6 402.7 402.9 404.4 402.9 402.0
## [553] 395.6 397.2 396.9 392.2 392.6 397.5 403.0 401.9 406.7 403.1 408.7 404.4
## [565] 403.7 407.6 411.4 406.5 404.9 405.0 406.9 408.0 409.2 404.6 406.0 406.4

```

```

## [577] 405.1 405.0 406.6 410.3 415.0 411.3 415.9 421.8 419.0 418.5 420.2 418.6
## [589] 420.6 419.8 423.2 421.5 423.3 436.5 440.2 445.5 441.0 452.0 451.1 454.3
## [601] 446.8 453.0 462.6 476.6 455.8 451.8 454.5 452.1 454.1 464.5 456.8 457.4
## [613] 456.7 454.8 460.2 459.5 460.0 466.7 476.5 471.4 479.9 468.6 473.6 467.4
## [625] 459.6 447.9 453.4 451.8 443.4 449.3 453.4 450.2 454.7 454.4 452.1 456.6
## [637] 456.4 460.8 450.4 452.8 448.2 451.1 452.2 443.6 438.1 443.0 439.0 441.4
## [649] 446.0 447.1 449.5 447.4 443.0 443.1 444.8 442.1 445.3 444.2 443.7 447.1
## [661] 448.2 452.9 452.5 449.6 452.5 454.4 454.8 454.0 453.1 454.2 459.5 457.2
## [673] 464.2 473.2 476.0 469.9 468.9 464.0 459.5 463.2 461.0 462.0 457.4 454.8
## [685] 454.9 457.6 457.4 454.1 455.8 458.5 457.4 458.2 455.9 454.5 453.1 456.6
## [697] 462.1 464.4 463.4 462.8 458.0 461.0 460.9 456.6 458.4 458.5 458.8 461.4
## [709] 458.9 463.1 461.1 463.9 461.0 460.9 458.9 459.1 454.1 455.0 455.1 456.9
## [721] 458.6 458.2 461.8 461.9 459.6 459.4 461.8 464.2 479.5 481.6 466.6 469.8
## [733] 472.6 474.9 473.4 479.6 474.1 468.0 469.9 470.1 467.0 459.7 458.6 463.5
## [745] 458.8 461.3 463.0 464.2 461.8 463.6 464.2 465.8 466.2 468.2 476.9 478.8
## [757] 477.6 477.8 493.9 486.9 490.0 488.9 485.8 480.9 483.0 485.3 484.5 495.0
## [769] 502.8 493.0 487.1 487.8 484.6 481.0 481.6 483.2 483.8 480.7 485.4 489.6
## [781] 486.9 486.5 476.3 484.1 477.3 481.6 483.9 479.5 485.3 482.1 481.4 480.9
## [793] 484.8 475.9 476.8 477.8 476.5 477.9 471.4 471.4 469.4 468.0 465.2 454.6
## [805] 455.1 447.1 437.6 444.1 443.1 439.2 443.8 440.2 440.3 443.6 444.2 444.4
## [817] 446.2 443.4 445.1 443.9 438.0 433.9 432.6 423.8 429.1 431.6 429.1 430.8
## [829] 436.0 435.7 436.1 437.2 444.1 441.9 442.2 447.1 445.4 442.8 446.5 449.4
## [841] 450.0 453.9 451.5 453.1 454.7 454.0 458.0 457.3 456.6 456.0 450.8 446.2
## [853] 448.6 450.1 450.2 448.5 447.0 453.9 457.6 456.6 458.0 454.0 453.1 449.8
## [865] 448.2 449.1 452.1 449.8 448.6 444.3 441.9 445.4 445.9 443.6 447.1 449.4
## [877] 448.6 451.1 453.4 453.1 452.7 456.6 459.5 460.2 458.6 458.6 453.0 452.5
## [889] 451.4 454.0 457.0 454.6 464.9 464.1 463.4 458.8 455.0 457.1 450.5 450.8
## [901] 450.3 452.6 449.8 453.9 451.7 449.8 447.6 447.0 442.0 443.9 434.9 436.9
## [913] 436.5 437.1 437.4 438.1 439.1 438.9 439.6 434.5 436.2 439.1 438.1 437.6
## [925] 437.2 445.0 443.2 443.2 442.2 430.1 431.7 428.8 432.7 436.4 432.9 431.2
## [937] 433.4 431.4 431.9 428.2 426.9 429.0 428.4 431.1 432.0 429.0 430.2 432.4
## [949] 429.7 432.7 432.1 434.8 433.8 428.0 429.4 426.4 430.3 430.3 427.0 427.6
## [961] 427.0 428.0 428.9 418.0 420.8 421.9 421.5 417.3 409.0 410.4 401.6 399.6
## [973] 399.3 389.1 397.0 397.6 398.6 396.1 394.2 397.4 397.2 403.0 404.2 406.2
## [985] 408.0 404.7 408.6 406.5 411.1 413.1 410.8 411.4 410.6 406.3 406.6 407.5
## [997] 407.1 407.3 412.3 411.0 412.5 422.9 419.5 422.0 421.9 419.5 422.2 420.8
## [1009] 420.6 422.8 422.6 423.3 419.8 416.6 416.1 417.9 419.9 422.6 421.4 422.1
## [1021] 421.3 425.5 423.8 430.4 429.0 425.4 423.3 422.2 421.0 420.1 419.6 421.4
## [1033] 412.6 413.6 413.2 413.9 415.6 417.6 411.7 410.4 413.6 413.1 410.1 408.3
## [1045] 413.6 410.5 408.0 408.4 404.4 405.5 403.5 404.9 403.5 401.8 402.1 402.9
## [1057] 402.3 404.5 407.8 407.8 404.8 406.0 402.2 394.3 394.9 392.0 392.7 390.9
## [1069] 390.2 391.4 390.4 394.1 393.8 386.7 385.6 381.7 384.2 378.9 382.1 382.8
## [1081] 386.0 389.0 389.2 390.8 386.8 386.1 384.1 384.1 388.4 386.3 393.1 392.5
## [1093] 397.0 393.1 394.3 394.4 391.0 389.2 395.3 394.1 393.4 396.0 391.7 390.8
## [1105] 391.2 383.3 384.0 382.3

```

```

# Further check if there are NAs
summary(data_clean)

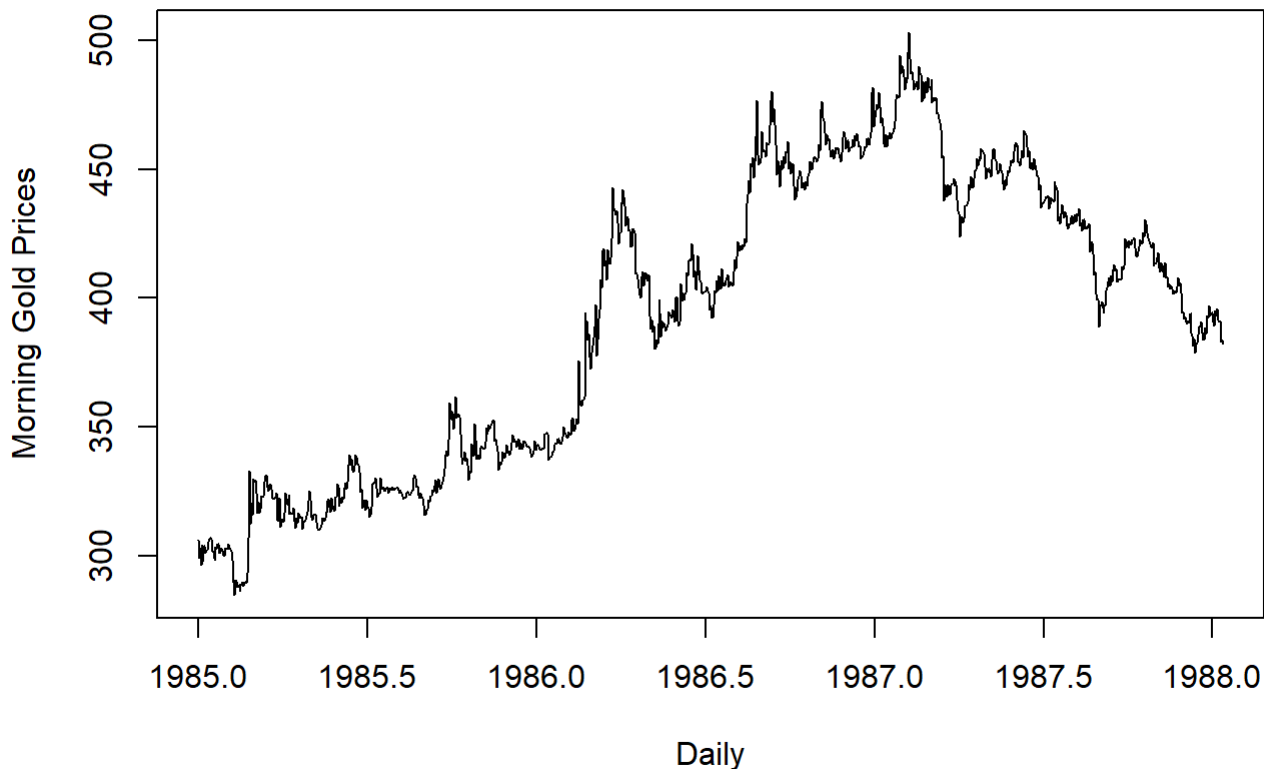
```

##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
##	285	338	403	393	444	503

```
# plot the cleaned data
```

```
plot.ts(data_clean,ylab="Morning Gold Prices", xlab="Daily", main="Morning Gold Prices vs Individual days")
```

Morning Gold Prices vs Individual days



```
# There is heteroscedasticity
# mean is constant
# variance is not constant.
# There is no seasonality component
```

To ascertain if there is a seasonal components

```
ggseasonplot(data_clean, year.labels = T, year.labels.left = T) +ylab("degree") +ggtitle("Seasonal Plot: Daily Gold Prices Data ")
```

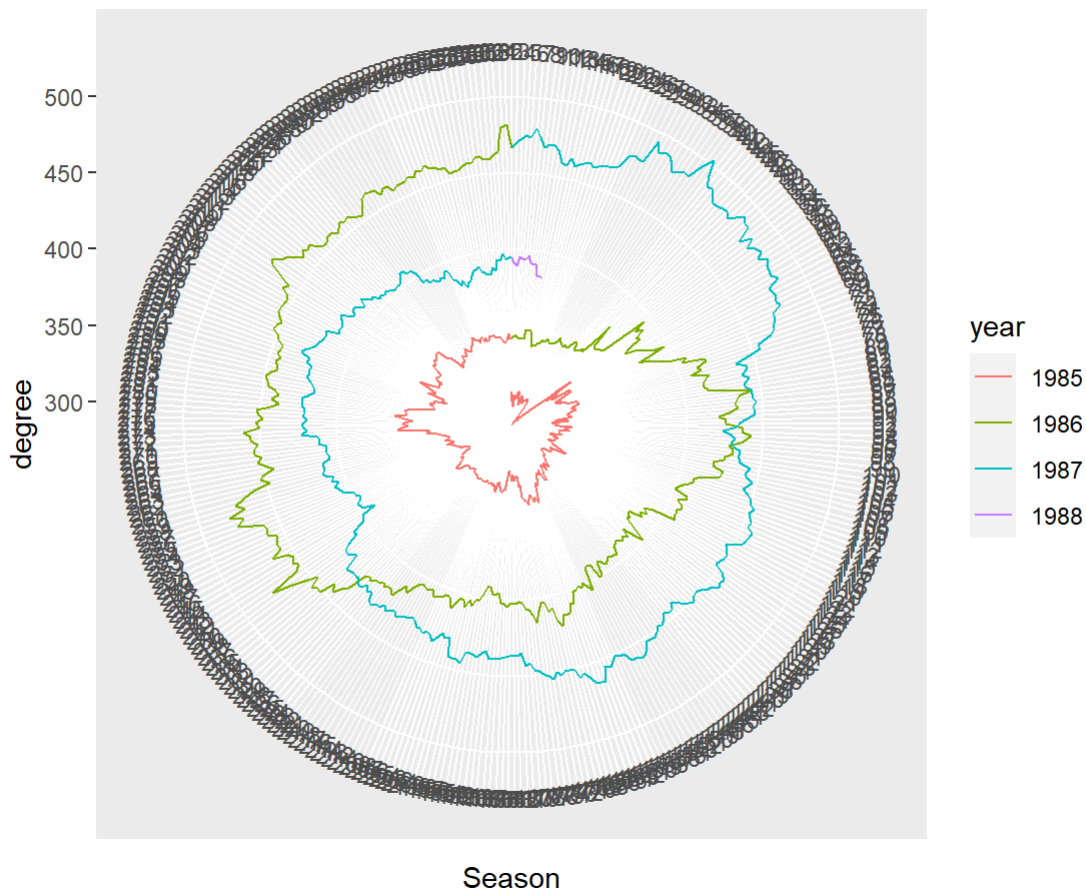

Seasonal Plot: Daily Gold Prices Data



There is no seasonality

```
ggseasonplot(data_clean, polar = T) +ylab("degree") +ggtitle("Polar plot: Daily Gold Prices")
```

Polar plot: Daily Gold Prices



The plot is circular meaning there is no seasonality.

Splitting the dataset for training and testing

```
data_train <- window(data_clean, start=c(1985,1),end=c(1987,5), freq=365.25)
data_train
```

```
## Time Series:
## Start = 1985
## End = 1987.00958247775
## Frequency = 365.25
## [1] 306.2 299.5 303.4 296.8 304.4 298.4 304.0 304.0 301.2 302.5 302.4 305.8
## [13] 306.9 307.0 306.9 302.1 301.9 299.2 298.6 303.5 303.0 304.9 304.8 301.2
## [25] 301.8 303.4 302.5 300.6 300.0 303.4 302.8 303.4 304.9 304.9 302.9 302.9
## [37] 302.0 298.8 290.0 285.0 290.8 290.5 288.1 288.3 288.9 286.7 289.3 289.0
## [49] 290.2 288.8 290.1 290.2 289.9 293.7 307.2 333.2 312.5 320.8 315.9 316.0
## [61] 329.9 328.8 329.8 324.6 317.0 321.1 317.0 318.3 323.4 323.1 323.3 329.0
## [73] 331.2 330.3 331.5 327.0 325.5 327.7 328.1 326.0 322.6 322.4 322.5 323.0
## [85] 324.6 315.6 314.2 313.7 322.6 311.2 313.4 314.5 313.6 316.8 324.8 322.9
## [97] 320.4 319.8 323.6 316.5 317.4 316.4 316.4 318.8 313.9 311.2 315.0 313.1
## [109] 316.9 316.2 314.8 314.9 315.0 310.8 313.2 313.8 314.1 315.8 317.2 321.6
## [121] 325.2 322.0 315.2 314.1 315.9 316.5 316.2 316.5 313.4 310.9 310.4 310.7
## [133] 310.9 312.2 314.8 314.7 313.8 315.1 317.1 316.8 321.7 322.2 319.0 317.4
## [145] 322.8 318.5 319.4 317.6 323.0 323.2 328.1 326.8 319.6 323.0 321.4 320.6
## [157] 322.9 322.4 326.6 328.5 326.2 328.9 335.4 339.2 335.5 335.8 337.6 333.6
## [169] 332.6 335.2 339.3 338.4 335.8 335.4 332.7 325.0 326.0 318.8 320.2 320.0
## [181] 322.0 318.0 321.8 318.9 318.7 315.5 315.9 319.2 328.1 328.4 328.7 330.4
## [193] 328.9 326.5 323.1 324.8 324.4 330.6 326.2 326.1 326.9 325.6 325.8 326.6
## [205] 326.9 325.9 324.6 326.2 326.5 325.9 326.9 325.9 325.6 326.5 326.6 326.8
## [217] 325.8 324.6 325.6 324.6 324.8 323.6 322.1 323.2 322.7 324.5 325.0 324.6
## [229] 323.8 324.1 325.1 325.8 326.0 330.5 331.5 330.4 326.8 327.4 323.9 322.5
## [241] 324.5 322.5 322.5 320.1 316.1 316.8 316.1 317.9 318.2 321.9 321.1 323.4
## [253] 323.6 325.8 324.9 327.5 329.7 324.8 326.1 327.0 329.9 327.1 326.0 327.8
## [265] 328.9 330.9 333.9 339.4 340.8 338.8 345.3 359.6 357.2 353.2 356.5 352.8
## [277] 349.5 355.2 361.8 353.8 354.4 355.4 354.0 347.4 338.5 335.9 337.1 337.9
## [289] 340.5 337.2 338.4 335.4 329.5 333.0 332.4 343.7 339.2 339.0 343.4 351.4
## [301] 345.1 337.9 338.2 339.4 337.9 342.2 343.0 342.0 341.8 341.6 344.5 349.8
## [313] 347.6 348.2 350.8 349.2 350.6 351.4 352.4 352.9 344.9 345.5 343.1 340.8
## [325] 333.7 335.5 336.6 335.6 336.5 340.6 338.6 338.1 340.2 343.2 340.2 340.8
## [337] 339.3 341.0 342.4 344.1 347.2 346.0 344.3 344.4 342.4 344.8 345.6 341.6
## [349] 344.1 341.6 342.1 344.6 344.2 344.9 343.8 342.8 342.5 342.8 342.1 340.3
## [361] 338.6 339.4 340.9 344.7 341.1 341.6 342.8 343.4 343.0 341.9 341.4 341.5
## [373] 341.5 341.9 347.6 347.5 347.9 347.4 346.5 337.3 338.5 338.7 338.9 340.5
## [385] 340.8 343.2 343.8 343.6 345.5 345.6 344.0 343.5 343.8 344.4 346.5 350.4
## [397] 347.5 347.6 346.2 345.9 348.4 346.9 347.1 353.0 353.5 351.8 348.5 349.0
## [409] 350.8 353.3 351.4 375.8 360.5 358.8 358.5 360.9 360.9 361.9 394.5 386.1
## [421] 391.2 384.0 386.4 377.2 372.5 379.0 381.8 384.6 388.8 397.3 377.8 384.0
## [433] 386.0 392.0 395.5 407.2 404.0 418.2 419.0 412.5 414.5 407.0 418.8 416.0
## [445] 413.6 413.6 415.7 423.0 442.8 435.1 434.0 432.2 434.0 429.4 421.2 425.5
## [457] 425.5 436.9 436.5 442.0 439.4 435.8 428.1 431.4 431.2 426.2 426.0 420.0
## [469] 420.0 426.8 426.6 425.4 413.0 409.6 409.6 407.8 404.0 401.5 400.3 408.5
## [481] 410.2 405.0 408.3 409.9 407.4 407.4 406.9 409.0 393.2 388.0 391.5 387.0
## [493] 389.5 380.4 380.8 384.0 382.3 390.0 399.6 394.3 385.2 391.2 388.6 390.5
## [505] 389.2 387.2 388.8 389.7 394.6 393.7 393.4 392.5 394.1 395.4 392.8 391.0
## [517] 400.2 400.5 391.4 389.4 390.9 405.8 402.4 399.0 401.7 399.5 401.6 402.2
## [529] 409.9 408.6 414.4 415.0 414.5 421.2 417.4 408.5 410.6 403.6 403.4 408.7
## [541] 416.5 411.0 407.3 406.4 402.0 401.8 402.6 402.7 402.9 404.4 402.9 402.0
## [553] 395.6 397.2 396.9 392.2 392.6 397.5 403.0 401.9 406.7 403.1 408.7 404.4
## [565] 403.7 407.6 411.4 406.5 404.9 405.0 406.9 408.0 409.2 404.6 406.0 406.4
```

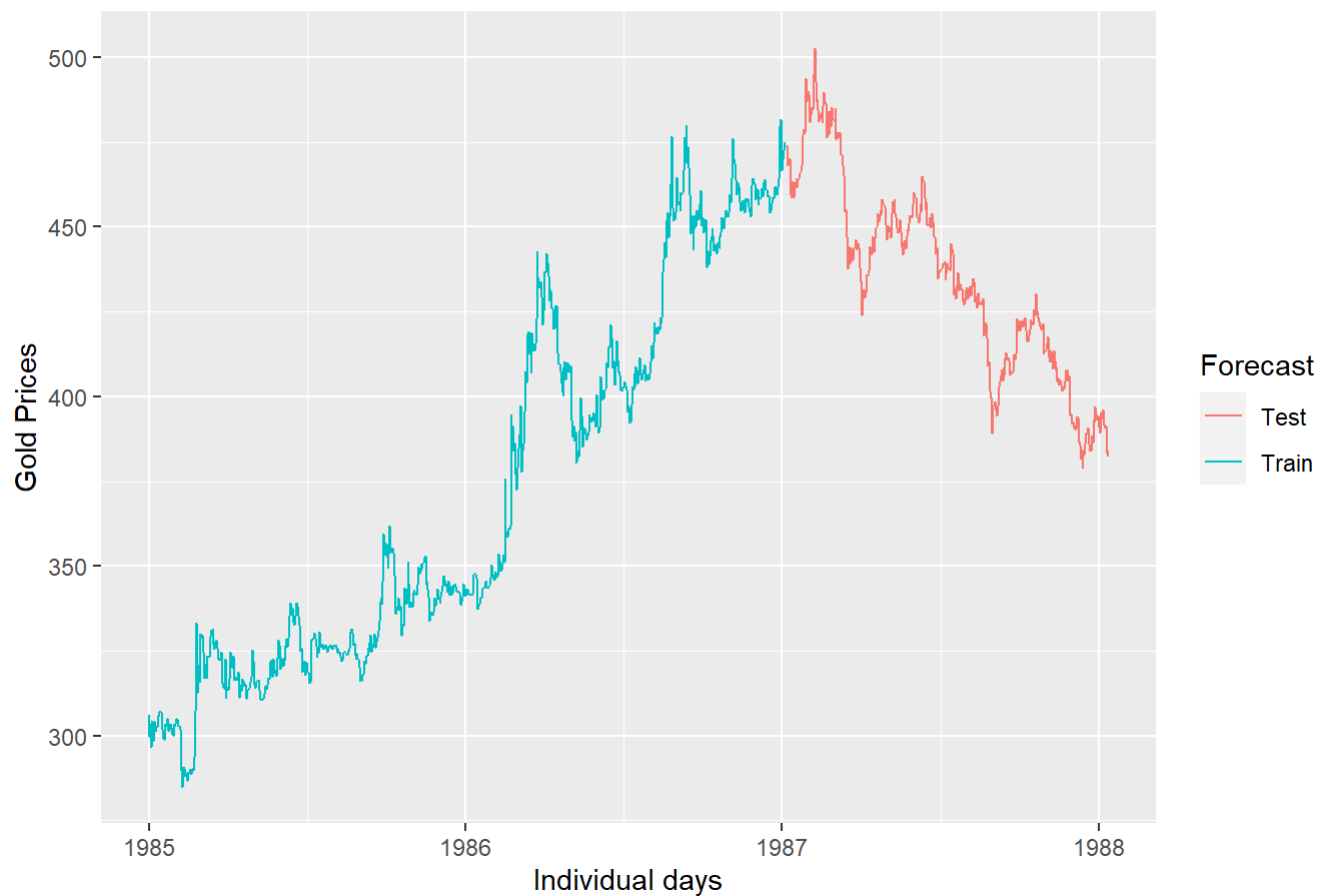
```
## [577] 405.1 405.0 406.6 410.3 415.0 411.3 415.9 421.8 419.0 418.5 420.2 418.6
## [589] 420.6 419.8 423.2 421.5 423.3 436.5 440.2 445.5 441.0 452.0 451.1 454.3
## [601] 446.8 453.0 462.6 476.6 455.8 451.8 454.5 452.1 454.1 464.5 456.8 457.4
## [613] 456.7 454.8 460.2 459.5 460.0 466.7 476.5 471.4 479.9 468.6 473.6 467.4
## [625] 459.6 447.9 453.4 451.8 443.4 449.3 453.4 450.2 454.7 454.4 452.1 456.6
## [637] 456.4 460.8 450.4 452.8 448.2 451.1 452.2 443.6 438.1 443.0 439.0 441.4
## [649] 446.0 447.1 449.5 447.4 443.0 443.1 444.8 442.1 445.3 444.2 443.7 447.1
## [661] 448.2 452.9 452.5 449.6 452.5 454.4 454.8 454.0 453.1 454.2 459.5 457.2
## [673] 464.2 473.2 476.0 469.9 468.9 464.0 459.5 463.2 461.0 462.0 457.4 454.8
## [685] 454.9 457.6 457.4 454.1 455.8 458.5 457.4 458.2 455.9 454.5 453.1 456.6
## [697] 462.1 464.4 463.4 462.8 458.0 461.0 460.9 456.6 458.4 458.5 458.8 461.4
## [709] 458.9 463.1 461.1 463.9 461.0 460.9 458.9 459.1 454.1 455.0 455.1 456.9
## [721] 458.6 458.2 461.8 461.9 459.6 459.4 461.8 464.2 479.5 481.6 466.6 469.8
## [733] 472.6 474.9 473.4
```

```
data_test <- window(data_clean, start=c(1987,6), freq=365.25)
data_test
```

```
## Time Series:
## Start = 1987.01505817933
## End = 1988.03080082136
## Frequency = 365.25
## [1] 474.1 468.0 469.9 470.1 467.0 459.7 458.6 463.5 458.8 461.3 463.0 464.2
## [13] 461.8 463.6 464.2 465.8 466.2 468.2 476.9 478.8 477.6 477.8 493.9 486.9
## [25] 490.0 488.9 485.8 480.9 483.0 485.3 484.5 495.0 502.8 493.0 487.1 487.8
## [37] 484.6 481.0 481.6 483.2 483.8 480.7 485.4 489.6 486.9 486.5 476.3 484.1
## [49] 477.3 481.6 483.9 479.5 485.3 482.1 481.4 480.9 484.8 475.9 476.8 477.8
## [61] 476.5 477.9 471.4 471.4 469.4 468.0 465.2 454.6 455.1 447.1 437.6 444.1
## [73] 443.1 439.2 443.8 440.2 440.3 443.6 444.2 444.4 446.2 443.4 445.1 443.9
## [85] 438.0 433.9 432.6 423.8 429.1 431.6 429.1 430.8 436.0 435.7 436.1 437.2
## [97] 444.1 441.9 442.2 447.1 445.4 442.8 446.5 449.4 450.0 453.9 451.5 453.1
## [109] 454.7 454.0 458.0 457.3 456.6 456.0 450.8 446.2 448.6 450.1 450.2 448.5
## [121] 447.0 453.9 457.6 456.6 458.0 454.0 453.1 449.8 448.2 449.1 452.1 449.8
## [133] 448.6 444.3 441.9 445.4 445.9 443.6 447.1 449.4 448.6 451.1 453.4 453.1
## [145] 452.7 456.6 459.5 460.2 458.6 458.6 453.0 452.5 451.4 454.0 457.0 454.6
## [157] 464.9 464.1 463.4 458.8 455.0 457.1 450.5 450.8 450.3 452.6 449.8 453.9
## [169] 451.7 449.8 447.6 447.0 442.0 443.9 434.9 436.9 436.5 437.1 437.4 438.1
## [181] 439.1 438.9 439.6 434.5 436.2 439.1 438.1 437.6 437.2 445.0 443.2 443.2
## [193] 442.2 430.1 431.7 428.8 432.7 436.4 432.9 431.2 433.4 431.4 431.9 428.2
## [205] 426.9 429.0 428.4 431.1 432.0 429.0 430.2 432.4 429.7 432.7 432.1 434.8
## [217] 433.8 428.0 429.4 426.4 430.3 430.3 427.0 427.6 427.0 428.0 428.9 418.0
## [229] 420.8 421.9 421.5 417.3 409.0 410.4 401.6 399.6 399.3 389.1 397.0 397.6
## [241] 398.6 396.1 394.2 397.4 397.2 403.0 404.2 406.2 408.0 404.7 408.6 406.5
## [253] 411.1 413.1 410.8 411.4 410.6 406.3 406.6 407.5 407.1 407.3 412.3 411.0
## [265] 412.5 422.9 419.5 422.0 421.9 419.5 422.2 420.8 420.6 422.8 422.6 423.3
## [277] 419.8 416.6 416.1 417.9 419.9 422.6 421.4 422.1 421.3 425.5 423.8 430.4
## [289] 429.0 425.4 423.3 422.2 421.0 420.1 419.6 421.4 412.6 413.6 413.2 413.9
## [301] 415.6 417.6 411.7 410.4 413.6 413.1 410.1 408.3 413.6 410.5 408.0 408.4
## [313] 404.4 405.5 403.5 404.9 403.5 401.8 402.1 402.9 402.3 404.5 407.8 407.8
## [325] 404.8 406.0 402.2 394.3 394.9 392.0 392.7 390.9 390.2 391.4 390.4 394.1
## [337] 393.8 386.7 385.6 381.7 384.2 378.9 382.1 382.8 386.0 389.0 389.2 390.8
## [349] 386.8 386.1 384.1 384.1 388.4 386.3 393.1 392.5 397.0 393.1 394.3 394.4
## [361] 391.0 389.2 395.3 394.1 393.4 396.0 391.7 390.8 391.2 383.3 384.0 382.3
```

```
autoplot(data_train, series = "Train") + autolayer(data_test, series = "Test") + ggtitle("Gold P
rices train and test set") + xlab("Individual days") + ylab("Gold Prices") + guides(colour=guide_leg
end(title = "Forecast"))
```

Gold Prices train and test set



Data forecasting methods

```
naiveF <- naive(data_train, h=365*3) ; naiveF # Naive method
```

##	Point Forecast	Lo 80	Hi 80	Lo 95	Hi 95
## 1987.0123	473.4	467.4	479.5	464.3	482.6
## 1987.0151	473.4	465.0	481.9	460.5	486.4
## 1987.0178	473.4	463.1	483.8	457.6	489.3
## 1987.0205	473.4	461.4	485.5	455.1	491.8
## 1987.0233	473.4	460.0	486.9	452.9	494.0
## 1987.0260	473.4	458.8	488.1	451.0	495.9
## 1987.0287	473.4	457.6	489.3	449.2	497.7
## 1987.0315	473.4	456.5	490.4	447.5	499.4
## 1987.0342	473.4	455.4	491.5	445.9	501.0
## 1987.0370	473.4	454.5	492.4	444.4	502.5
## 1987.0397	473.4	453.5	493.4	443.0	503.9
## 1987.0424	473.4	452.7	494.2	441.7	505.2
## 1987.0452	473.4	451.8	495.1	440.4	506.5
## 1987.0479	473.4	451.0	495.9	439.1	507.8
## 1987.0507	473.4	450.2	496.7	437.9	509.0
## 1987.0534	473.4	449.4	497.5	436.7	510.2
## 1987.0561	473.4	448.7	498.2	435.6	511.3
## 1987.0589	473.4	448.0	498.9	434.5	512.4
## 1987.0616	473.4	447.3	499.6	433.4	513.5
## 1987.0643	473.4	446.6	500.3	432.4	514.5
## 1987.0671	473.4	446.0	500.9	431.4	515.5
## 1987.0698	473.4	445.3	501.6	430.4	516.5
## 1987.0726	473.4	444.7	502.2	429.4	517.5
## 1987.0753	473.4	444.1	502.8	428.5	518.4
## 1987.0780	473.4	443.4	503.5	427.6	519.3
## 1987.0808	473.4	442.9	504.0	426.7	520.2
## 1987.0835	473.4	442.3	504.6	425.8	521.1
## 1987.0862	473.4	441.7	505.2	424.9	522.0
## 1987.0890	473.4	441.1	505.8	424.0	522.9
## 1987.0917	473.4	440.6	506.3	423.2	523.7
## 1987.0945	473.4	440.0	506.9	422.4	524.5
## 1987.0972	473.4	439.5	507.4	421.5	525.4
## 1987.0999	473.4	439.0	507.9	420.7	526.2
## 1987.1027	473.4	438.5	508.4	419.9	527.0
## 1987.1054	473.4	438.0	508.9	419.2	527.7
## 1987.1081	473.4	437.4	509.5	418.4	528.5
## 1987.1109	473.4	437.0	509.9	417.6	529.3
## 1987.1136	473.4	436.5	510.4	416.9	530.0
## 1987.1164	473.4	436.0	510.9	416.1	530.8
## 1987.1191	473.4	435.5	511.4	415.4	531.5
## 1987.1218	473.4	435.0	511.9	414.7	532.2
## 1987.1246	473.4	434.6	512.3	414.0	532.9
## 1987.1273	473.4	434.1	512.8	413.3	533.6
## 1987.1300	473.4	433.6	513.3	412.6	534.3
## 1987.1328	473.4	433.2	513.7	411.9	535.0
## 1987.1355	473.4	432.8	514.1	411.2	535.7
## 1987.1383	473.4	432.3	514.6	410.5	536.4
## 1987.1410	473.4	431.9	515.0	409.9	537.0
## 1987.1437	473.4	431.4	515.5	409.2	537.7
## 1987.1465	473.4	431.0	515.9	408.6	538.3
## 1987.1492	473.4	430.6	516.3	407.9	539.0

## 1987.1520	473.4 430.2 516.7 407.3 539.6
## 1987.1547	473.4 429.8 517.1 406.6 540.3
## 1987.1574	473.4 429.4 517.5 406.0 540.9
## 1987.1602	473.4 429.0 517.9 405.4 541.5
## 1987.1629	473.4 428.5 518.4 404.8 542.1
## 1987.1656	473.4 428.1 518.8 404.2 542.7
## 1987.1684	473.4 427.8 519.1 403.6 543.3
## 1987.1711	473.4 427.4 519.5 403.0 543.9
## 1987.1739	473.4 427.0 519.9 402.4 544.5
## 1987.1766	473.4 426.6 520.3 401.8 545.1
## 1987.1793	473.4 426.2 520.7 401.2 545.7
## 1987.1821	473.4 425.8 521.1 400.6 546.3
## 1987.1848	473.4 425.4 521.5 400.0 546.9
## 1987.1875	473.4 425.1 521.8 399.5 547.4
## 1987.1903	473.4 424.7 522.2 398.9 548.0
## 1987.1930	473.4 424.3 522.6 398.3 548.6
## 1987.1958	473.4 424.0 522.9 397.8 549.1
## 1987.1985	473.4 423.6 523.3 397.2 549.7
## 1987.2012	473.4 423.2 523.7 396.7 550.2
## 1987.2040	473.4 422.9 524.0 396.1 550.8
## 1987.2067	473.4 422.5 524.4 395.6 551.3
## 1987.2094	473.4 422.2 524.7 395.0 551.9
## 1987.2122	473.4 421.8 525.1 394.5 552.4
## 1987.2149	473.4 421.5 525.4 394.0 552.9
## 1987.2177	473.4 421.1 525.8 393.4 553.5
## 1987.2204	473.4 420.8 526.1 392.9 554.0
## 1987.2231	473.4 420.5 526.4 392.4 554.5
## 1987.2259	473.4 420.1 526.8 391.9 555.0
## 1987.2286	473.4 419.8 527.1 391.4 555.5
## 1987.2313	473.4 419.4 527.5 390.9 556.0
## 1987.2341	473.4 419.1 527.8 390.4 556.5
## 1987.2368	473.4 418.8 528.1 389.8 557.1
## 1987.2396	473.4 418.5 528.4 389.3 557.6
## 1987.2423	473.4 418.1 528.8 388.8 558.1
## 1987.2450	473.4 417.8 529.1 388.3 558.6
## 1987.2478	473.4 417.5 529.4 387.9 559.0
## 1987.2505	473.4 417.2 529.7 387.4 559.5
## 1987.2533	473.4 416.8 530.1 386.9 560.0
## 1987.2560	473.4 416.5 530.4 386.4 560.5
## 1987.2587	473.4 416.2 530.7 385.9 561.0
## 1987.2615	473.4 415.9 531.0 385.4 561.5
## 1987.2642	473.4 415.6 531.3 385.0 561.9
## 1987.2669	473.4 415.3 531.6 384.5 562.4
## 1987.2697	473.4 415.0 531.9 384.0 562.9
## 1987.2724	473.4 414.7 532.2 383.5 563.4
## 1987.2752	473.4 414.4 532.5 383.1 563.8
## 1987.2779	473.4 414.0 532.9 382.6 564.3
## 1987.2806	473.4 413.7 533.2 382.1 564.8
## 1987.2834	473.4 413.4 533.5 381.7 565.2
## 1987.2861	473.4 413.1 533.8 381.2 565.7
## 1987.2888	473.4 412.8 534.1 380.8 566.1
## 1987.2916	473.4 412.6 534.3 380.3 566.6

## 1987.2943	473.4	412.3	534.6	379.9	567.0
## 1987.2971	473.4	412.0	534.9	379.4	567.5
## 1987.2998	473.4	411.7	535.2	379.0	567.9
## 1987.3025	473.4	411.4	535.5	378.5	568.4
## 1987.3053	473.4	411.1	535.8	378.1	568.8
## 1987.3080	473.4	410.8	536.1	377.6	569.3
## 1987.3107	473.4	410.5	536.4	377.2	569.7
## 1987.3135	473.4	410.2	536.7	376.8	570.1
## 1987.3162	473.4	409.9	537.0	376.3	570.6
## 1987.3190	473.4	409.7	537.2	375.9	571.0
## 1987.3217	473.4	409.4	537.5	375.5	571.4
## 1987.3244	473.4	409.1	537.8	375.0	571.9
## 1987.3272	473.4	408.8	538.1	374.6	572.3
## 1987.3299	473.4	408.5	538.4	374.2	572.7
## 1987.3326	473.4	408.3	538.6	373.8	573.1
## 1987.3354	473.4	408.0	538.9	373.3	573.6
## 1987.3381	473.4	407.7	539.2	372.9	574.0
## 1987.3409	473.4	407.4	539.5	372.5	574.4
## 1987.3436	473.4	407.2	539.7	372.1	574.8
## 1987.3463	473.4	406.9	540.0	371.7	575.2
## 1987.3491	473.4	406.6	540.3	371.3	575.6
## 1987.3518	473.4	406.4	540.5	370.9	576.0
## 1987.3546	473.4	406.1	540.8	370.4	576.5
## 1987.3573	473.4	405.8	541.1	370.0	576.9
## 1987.3600	473.4	405.6	541.3	369.6	577.3
## 1987.3628	473.4	405.3	541.6	369.2	577.7
## 1987.3655	473.4	405.0	541.9	368.8	578.1
## 1987.3682	473.4	404.8	542.1	368.4	578.5
## 1987.3710	473.4	404.5	542.4	368.0	578.9
## 1987.3737	473.4	404.3	542.6	367.6	579.3
## 1987.3765	473.4	404.0	542.9	367.2	579.7
## 1987.3792	473.4	403.7	543.2	366.8	580.1
## 1987.3819	473.4	403.5	543.4	366.4	580.5
## 1987.3847	473.4	403.2	543.7	366.0	580.9
## 1987.3874	473.4	403.0	543.9	365.6	581.3
## 1987.3901	473.4	402.7	544.2	365.3	581.6
## 1987.3929	473.4	402.5	544.4	364.9	582.0
## 1987.3956	473.4	402.2	544.7	364.5	582.4
## 1987.3984	473.4	401.9	545.0	364.1	582.8
## 1987.4011	473.4	401.7	545.2	363.7	583.2
## 1987.4038	473.4	401.4	545.5	363.3	583.6
## 1987.4066	473.4	401.2	545.7	362.9	584.0
## 1987.4093	473.4	400.9	546.0	362.6	584.3
## 1987.4120	473.4	400.7	546.2	362.2	584.7
## 1987.4148	473.4	400.5	546.4	361.8	585.1
## 1987.4175	473.4	400.2	546.7	361.4	585.5
## 1987.4203	473.4	400.0	546.9	361.1	585.8
## 1987.4230	473.4	399.7	547.2	360.7	586.2
## 1987.4257	473.4	399.5	547.4	360.3	586.6
## 1987.4285	473.4	399.2	547.7	359.9	587.0
## 1987.4312	473.4	399.0	547.9	359.6	587.3
## 1987.4339	473.4	398.7	548.2	359.2	587.7

## 1987.4367	473.4	398.5	548.4	358.8	588.1
## 1987.4394	473.4	398.3	548.6	358.5	588.4
## 1987.4422	473.4	398.0	548.9	358.1	588.8
## 1987.4449	473.4	397.8	549.1	357.7	589.2
## 1987.4476	473.4	397.6	549.3	357.4	589.5
## 1987.4504	473.4	397.3	549.6	357.0	589.9
## 1987.4531	473.4	397.1	549.8	356.6	590.3
## 1987.4559	473.4	396.8	550.1	356.3	590.6
## 1987.4586	473.4	396.6	550.3	355.9	591.0
## 1987.4613	473.4	396.4	550.5	355.6	591.3
## 1987.4641	473.4	396.1	550.8	355.2	591.7
## 1987.4668	473.4	395.9	551.0	354.9	592.0
## 1987.4695	473.4	395.7	551.2	354.5	592.4
## 1987.4723	473.4	395.4	551.5	354.2	592.7
## 1987.4750	473.4	395.2	551.7	353.8	593.1
## 1987.4778	473.4	395.0	551.9	353.4	593.5
## 1987.4805	473.4	394.8	552.1	353.1	593.8
## 1987.4832	473.4	394.5	552.4	352.7	594.2
## 1987.4860	473.4	394.3	552.6	352.4	594.5
## 1987.4887	473.4	394.1	552.8	352.1	594.8
## 1987.4914	473.4	393.8	553.1	351.7	595.2
## 1987.4942	473.4	393.6	553.3	351.4	595.5
## 1987.4969	473.4	393.4	553.5	351.0	595.9
## 1987.4997	473.4	393.2	553.7	350.7	596.2
## 1987.5024	473.4	392.9	554.0	350.3	596.6
## 1987.5051	473.4	392.7	554.2	350.0	596.9
## 1987.5079	473.4	392.5	554.4	349.6	597.3
## 1987.5106	473.4	392.3	554.6	349.3	597.6
## 1987.5133	473.4	392.1	554.8	349.0	597.9
## 1987.5161	473.4	391.8	555.1	348.6	598.3
## 1987.5188	473.4	391.6	555.3	348.3	598.6
## 1987.5216	473.4	391.4	555.5	348.0	598.9
## 1987.5243	473.4	391.2	555.7	347.6	599.3
## 1987.5270	473.4	391.0	555.9	347.3	599.6
## 1987.5298	473.4	390.7	556.2	347.0	599.9
## 1987.5325	473.4	390.5	556.4	346.6	600.3
## 1987.5352	473.4	390.3	556.6	346.3	600.6
## 1987.5380	473.4	390.1	556.8	346.0	600.9
## 1987.5407	473.4	389.9	557.0	345.6	601.3
## 1987.5435	473.4	389.7	557.2	345.3	601.6
## 1987.5462	473.4	389.4	557.5	345.0	601.9
## 1987.5489	473.4	389.2	557.7	344.6	602.3
## 1987.5517	473.4	389.0	557.9	344.3	602.6
## 1987.5544	473.4	388.8	558.1	344.0	602.9
## 1987.5572	473.4	388.6	558.3	343.7	603.2
## 1987.5599	473.4	388.4	558.5	343.3	603.6
## 1987.5626	473.4	388.2	558.7	343.0	603.9
## 1987.5654	473.4	388.0	558.9	342.7	604.2
## 1987.5681	473.4	387.7	559.2	342.4	604.5
## 1987.5708	473.4	387.5	559.4	342.1	604.8
## 1987.5736	473.4	387.3	559.6	341.7	605.2
## 1987.5763	473.4	387.1	559.8	341.4	605.5

## 1987.5791	473.4	386.9	560.0	341.1	605.8
## 1987.5818	473.4	386.7	560.2	340.8	606.1
## 1987.5845	473.4	386.5	560.4	340.5	606.4
## 1987.5873	473.4	386.3	560.6	340.2	606.7
## 1987.5900	473.4	386.1	560.8	339.8	607.1
## 1987.5927	473.4	385.9	561.0	339.5	607.4
## 1987.5955	473.4	385.7	561.2	339.2	607.7
## 1987.5982	473.4	385.5	561.4	338.9	608.0
## 1987.6010	473.4	385.3	561.6	338.6	608.3
## 1987.6037	473.4	385.1	561.8	338.3	608.6
## 1987.6064	473.4	384.9	562.0	338.0	608.9
## 1987.6092	473.4	384.7	562.2	337.6	609.3
## 1987.6119	473.4	384.5	562.4	337.3	609.6
## 1987.6146	473.4	384.2	562.7	337.0	609.9
## 1987.6174	473.4	384.0	562.9	336.7	610.2
## 1987.6201	473.4	383.8	563.1	336.4	610.5
## 1987.6229	473.4	383.6	563.3	336.1	610.8
## 1987.6256	473.4	383.4	563.5	335.8	611.1
## 1987.6283	473.4	383.2	563.7	335.5	611.4
## 1987.6311	473.4	383.0	563.9	335.2	611.7
## 1987.6338	473.4	382.8	564.1	334.9	612.0
## 1987.6366	473.4	382.6	564.3	334.6	612.3
## 1987.6393	473.4	382.5	564.4	334.3	612.6
## 1987.6420	473.4	382.3	564.6	334.0	612.9
## 1987.6448	473.4	382.1	564.8	333.7	613.2
## 1987.6475	473.4	381.9	565.0	333.4	613.5
## 1987.6502	473.4	381.7	565.2	333.1	613.8
## 1987.6530	473.4	381.5	565.4	332.8	614.1
## 1987.6557	473.4	381.3	565.6	332.5	614.4
## 1987.6585	473.4	381.1	565.8	332.2	614.7
## 1987.6612	473.4	380.9	566.0	331.9	615.0
## 1987.6639	473.4	380.7	566.2	331.6	615.3
## 1987.6667	473.4	380.5	566.4	331.3	615.6
## 1987.6694	473.4	380.3	566.6	331.0	615.9
## 1987.6721	473.4	380.1	566.8	330.7	616.2
## 1987.6749	473.4	379.9	567.0	330.4	616.5
## 1987.6776	473.4	379.7	567.2	330.1	616.8
## 1987.6804	473.4	379.5	567.4	329.8	617.1
## 1987.6831	473.4	379.3	567.6	329.5	617.4
## 1987.6858	473.4	379.1	567.8	329.2	617.7
## 1987.6886	473.4	379.0	567.9	328.9	618.0
## 1987.6913	473.4	378.8	568.1	328.6	618.3
## 1987.6940	473.4	378.6	568.3	328.4	618.5
## 1987.6968	473.4	378.4	568.5	328.1	618.8
## 1987.6995	473.4	378.2	568.7	327.8	619.1
## 1987.7023	473.4	378.0	568.9	327.5	619.4
## 1987.7050	473.4	377.8	569.1	327.2	619.7
## 1987.7077	473.4	377.6	569.3	326.9	620.0
## 1987.7105	473.4	377.4	569.5	326.6	620.3
## 1987.7132	473.4	377.3	569.6	326.3	620.6
## 1987.7159	473.4	377.1	569.8	326.0	620.9
## 1987.7187	473.4	376.9	570.0	325.8	621.1

## 1987.7214	473.4	376.7	570.2	325.5	621.4
## 1987.7242	473.4	376.5	570.4	325.2	621.7
## 1987.7269	473.4	376.3	570.6	324.9	622.0
## 1987.7296	473.4	376.1	570.8	324.6	622.3
## 1987.7324	473.4	376.0	570.9	324.3	622.6
## 1987.7351	473.4	375.8	571.1	324.1	622.8
## 1987.7379	473.4	375.6	571.3	323.8	623.1
## 1987.7406	473.4	375.4	571.5	323.5	623.4
## 1987.7433	473.4	375.2	571.7	323.2	623.7
## 1987.7461	473.4	375.0	571.9	322.9	624.0
## 1987.7488	473.4	374.9	572.0	322.7	624.2
## 1987.7515	473.4	374.7	572.2	322.4	624.5
## 1987.7543	473.4	374.5	572.4	322.1	624.8
## 1987.7570	473.4	374.3	572.6	321.8	625.1
## 1987.7598	473.4	374.1	572.8	321.5	625.4
## 1987.7625	473.4	373.9	573.0	321.3	625.6
## 1987.7652	473.4	373.8	573.1	321.0	625.9
## 1987.7680	473.4	373.6	573.3	320.7	626.2
## 1987.7707	473.4	373.4	573.5	320.4	626.5
## 1987.7734	473.4	373.2	573.7	320.2	626.7
## 1987.7762	473.4	373.0	573.9	319.9	627.0
## 1987.7789	473.4	372.9	574.0	319.6	627.3
## 1987.7817	473.4	372.7	574.2	319.3	627.6
## 1987.7844	473.4	372.5	574.4	319.1	627.8
## 1987.7871	473.4	372.3	574.6	318.8	628.1
## 1987.7899	473.4	372.2	574.7	318.5	628.4
## 1987.7926	473.4	372.0	574.9	318.3	628.6
## 1987.7953	473.4	371.8	575.1	318.0	628.9
## 1987.7981	473.4	371.6	575.3	317.7	629.2
## 1987.8008	473.4	371.4	575.5	317.4	629.5
## 1987.8036	473.4	371.3	575.6	317.2	629.7
## 1987.8063	473.4	371.1	575.8	316.9	630.0
## 1987.8090	473.4	370.9	576.0	316.6	630.3
## 1987.8118	473.4	370.7	576.2	316.4	630.5
## 1987.8145	473.4	370.6	576.3	316.1	630.8
## 1987.8172	473.4	370.4	576.5	315.8	631.1
## 1987.8200	473.4	370.2	576.7	315.6	631.3
## 1987.8227	473.4	370.0	576.9	315.3	631.6
## 1987.8255	473.4	369.9	577.0	315.0	631.9
## 1987.8282	473.4	369.7	577.2	314.8	632.1
## 1987.8309	473.4	369.5	577.4	314.5	632.4
## 1987.8337	473.4	369.3	577.6	314.2	632.7
## 1987.8364	473.4	369.2	577.7	314.0	632.9
## 1987.8392	473.4	369.0	577.9	313.7	633.2
## 1987.8419	473.4	368.8	578.1	313.4	633.5
## 1987.8446	473.4	368.7	578.2	313.2	633.7
## 1987.8474	473.4	368.5	578.4	312.9	634.0
## 1987.8501	473.4	368.3	578.6	312.7	634.2
## 1987.8528	473.4	368.1	578.8	312.4	634.5
## 1987.8556	473.4	368.0	578.9	312.1	634.8
## 1987.8583	473.4	367.8	579.1	311.9	635.0
## 1987.8611	473.4	367.6	579.3	311.6	635.3

## 1987.8638	473.4	367.5	579.4	311.4	635.5
## 1987.8665	473.4	367.3	579.6	311.1	635.8
## 1987.8693	473.4	367.1	579.8	310.8	636.1
## 1987.8720	473.4	367.0	579.9	310.6	636.3
## 1987.8747	473.4	366.8	580.1	310.3	636.6
## 1987.8775	473.4	366.6	580.3	310.1	636.8
## 1987.8802	473.4	366.4	580.5	309.8	637.1
## 1987.8830	473.4	366.3	580.6	309.5	637.4
## 1987.8857	473.4	366.1	580.8	309.3	637.6
## 1987.8884	473.4	365.9	581.0	309.0	637.9
## 1987.8912	473.4	365.8	581.1	308.8	638.1
## 1987.8939	473.4	365.6	581.3	308.5	638.4
## 1987.8966	473.4	365.4	581.5	308.3	638.6
## 1987.8994	473.4	365.3	581.6	308.0	638.9
## 1987.9021	473.4	365.1	581.8	307.8	639.1
## 1987.9049	473.4	364.9	582.0	307.5	639.4
## 1987.9076	473.4	364.8	582.1	307.3	639.6
## 1987.9103	473.4	364.6	582.3	307.0	639.9
## 1987.9131	473.4	364.4	582.5	306.7	640.2
## 1987.9158	473.4	364.3	582.6	306.5	640.4
## 1987.9185	473.4	364.1	582.8	306.2	640.7
## 1987.9213	473.4	364.0	582.9	306.0	640.9
## 1987.9240	473.4	363.8	583.1	305.7	641.2
## 1987.9268	473.4	363.6	583.3	305.5	641.4
## 1987.9295	473.4	363.5	583.4	305.2	641.7
## 1987.9322	473.4	363.3	583.6	305.0	641.9
## 1987.9350	473.4	363.1	583.8	304.7	642.2
## 1987.9377	473.4	363.0	583.9	304.5	642.4
## 1987.9405	473.4	362.8	584.1	304.2	642.7
## 1987.9432	473.4	362.6	584.3	304.0	642.9
## 1987.9459	473.4	362.5	584.4	303.7	643.2
## 1987.9487	473.4	362.3	584.6	303.5	643.4
## 1987.9514	473.4	362.2	584.7	303.2	643.7
## 1987.9541	473.4	362.0	584.9	303.0	643.9
## 1987.9569	473.4	361.8	585.1	302.8	644.1
## 1987.9596	473.4	361.7	585.2	302.5	644.4
## 1987.9624	473.4	361.5	585.4	302.3	644.6
## 1987.9651	473.4	361.4	585.5	302.0	644.9
## 1987.9678	473.4	361.2	585.7	301.8	645.1
## 1987.9706	473.4	361.0	585.9	301.5	645.4
## 1987.9733	473.4	360.9	586.0	301.3	645.6
## 1987.9760	473.4	360.7	586.2	301.0	645.9
## 1987.9788	473.4	360.6	586.3	300.8	646.1
## 1987.9815	473.4	360.4	586.5	300.5	646.4
## 1987.9843	473.4	360.2	586.7	300.3	646.6
## 1987.9870	473.4	360.1	586.8	300.1	646.8
## 1987.9897	473.4	359.9	587.0	299.8	647.1
## 1987.9925	473.4	359.8	587.1	299.6	647.3
## 1987.9952	473.4	359.6	587.3	299.3	647.6
## 1987.9979	473.4	359.4	587.5	299.1	647.8
## 1988.0007	473.4	359.3	587.6	298.9	648.0
## 1988.0034	473.4	359.1	587.8	298.6	648.3

## 1988.0062	473.4	359.0	587.9	298.4	648.5
## 1988.0089	473.4	358.8	588.1	298.1	648.8
## 1988.0116	473.4	358.7	588.2	297.9	649.0
## 1988.0144	473.4	358.5	588.4	297.6	649.3
## 1988.0171	473.4	358.3	588.6	297.4	649.5
## 1988.0198	473.4	358.2	588.7	297.2	649.7
## 1988.0226	473.4	358.0	588.9	296.9	650.0
## 1988.0253	473.4	357.9	589.0	296.7	650.2
## 1988.0281	473.4	357.7	589.2	296.5	650.4
## 1988.0308	473.4	357.6	589.3	296.2	650.7
## 1988.0335	473.4	357.4	589.5	296.0	650.9
## 1988.0363	473.4	357.3	589.6	295.7	651.2
## 1988.0390	473.4	357.1	589.8	295.5	651.4
## 1988.0418	473.4	356.9	590.0	295.3	651.6
## 1988.0445	473.4	356.8	590.1	295.0	651.9
## 1988.0472	473.4	356.6	590.3	294.8	652.1
## 1988.0500	473.4	356.5	590.4	294.6	652.3
## 1988.0527	473.4	356.3	590.6	294.3	652.6
## 1988.0554	473.4	356.2	590.7	294.1	652.8
## 1988.0582	473.4	356.0	590.9	293.9	653.0
## 1988.0609	473.4	355.9	591.0	293.6	653.3
## 1988.0637	473.4	355.7	591.2	293.4	653.5
## 1988.0664	473.4	355.6	591.3	293.2	653.7
## 1988.0691	473.4	355.4	591.5	292.9	654.0
## 1988.0719	473.4	355.3	591.6	292.7	654.2
## 1988.0746	473.4	355.1	591.8	292.5	654.4
## 1988.0773	473.4	355.0	591.9	292.2	654.7
## 1988.0801	473.4	354.8	592.1	292.0	654.9
## 1988.0828	473.4	354.6	592.3	291.8	655.1
## 1988.0856	473.4	354.5	592.4	291.5	655.4
## 1988.0883	473.4	354.3	592.6	291.3	655.6
## 1988.0910	473.4	354.2	592.7	291.1	655.8
## 1988.0938	473.4	354.0	592.9	290.8	656.1
## 1988.0965	473.4	353.9	593.0	290.6	656.3
## 1988.0992	473.4	353.7	593.2	290.4	656.5
## 1988.1020	473.4	353.6	593.3	290.1	656.8
## 1988.1047	473.4	353.4	593.5	289.9	657.0
## 1988.1075	473.4	353.3	593.6	289.7	657.2
## 1988.1102	473.4	353.1	593.8	289.5	657.4
## 1988.1129	473.4	353.0	593.9	289.2	657.7
## 1988.1157	473.4	352.8	594.1	289.0	657.9
## 1988.1184	473.4	352.7	594.2	288.8	658.1
## 1988.1211	473.4	352.5	594.4	288.5	658.4
## 1988.1239	473.4	352.4	594.5	288.3	658.6
## 1988.1266	473.4	352.2	594.7	288.1	658.8
## 1988.1294	473.4	352.1	594.8	287.9	659.0
## 1988.1321	473.4	352.0	594.9	287.6	659.3
## 1988.1348	473.4	351.8	595.1	287.4	659.5
## 1988.1376	473.4	351.7	595.2	287.2	659.7
## 1988.1403	473.4	351.5	595.4	287.0	659.9
## 1988.1431	473.4	351.4	595.5	286.7	660.2
## 1988.1458	473.4	351.2	595.7	286.5	660.4

## 1988.1485	473.4	351.1	595.8	286.3	660.6
## 1988.1513	473.4	350.9	596.0	286.1	660.8
## 1988.1540	473.4	350.8	596.1	285.8	661.1
## 1988.1567	473.4	350.6	596.3	285.6	661.3
## 1988.1595	473.4	350.5	596.4	285.4	661.5
## 1988.1622	473.4	350.3	596.6	285.2	661.7
## 1988.1650	473.4	350.2	596.7	284.9	662.0
## 1988.1677	473.4	350.0	596.9	284.7	662.2
## 1988.1704	473.4	349.9	597.0	284.5	662.4
## 1988.1732	473.4	349.7	597.2	284.3	662.6
## 1988.1759	473.4	349.6	597.3	284.0	662.9
## 1988.1786	473.4	349.5	597.4	283.8	663.1
## 1988.1814	473.4	349.3	597.6	283.6	663.3
## 1988.1841	473.4	349.2	597.7	283.4	663.5
## 1988.1869	473.4	349.0	597.9	283.2	663.7
## 1988.1896	473.4	348.9	598.0	282.9	664.0
## 1988.1923	473.4	348.7	598.2	282.7	664.2
## 1988.1951	473.4	348.6	598.3	282.5	664.4
## 1988.1978	473.4	348.4	598.5	282.3	664.6
## 1988.2005	473.4	348.3	598.6	282.1	664.8
## 1988.2033	473.4	348.2	598.7	281.8	665.1
## 1988.2060	473.4	348.0	598.9	281.6	665.3
## 1988.2088	473.4	347.9	599.0	281.4	665.5
## 1988.2115	473.4	347.7	599.2	281.2	665.7
## 1988.2142	473.4	347.6	599.3	281.0	665.9
## 1988.2170	473.4	347.4	599.5	280.7	666.2
## 1988.2197	473.4	347.3	599.6	280.5	666.4
## 1988.2225	473.4	347.2	599.7	280.3	666.6
## 1988.2252	473.4	347.0	599.9	280.1	666.8
## 1988.2279	473.4	346.9	600.0	279.9	667.0
## 1988.2307	473.4	346.7	600.2	279.6	667.3
## 1988.2334	473.4	346.6	600.3	279.4	667.5
## 1988.2361	473.4	346.4	600.5	279.2	667.7
## 1988.2389	473.4	346.3	600.6	279.0	667.9
## 1988.2416	473.4	346.2	600.7	278.8	668.1
## 1988.2444	473.4	346.0	600.9	278.6	668.3
## 1988.2471	473.4	345.9	601.0	278.3	668.6
## 1988.2498	473.4	345.7	601.2	278.1	668.8
## 1988.2526	473.4	345.6	601.3	277.9	669.0
## 1988.2553	473.4	345.5	601.4	277.7	669.2
## 1988.2580	473.4	345.3	601.6	277.5	669.4
## 1988.2608	473.4	345.2	601.7	277.3	669.6
## 1988.2635	473.4	345.0	601.9	277.1	669.8
## 1988.2663	473.4	344.9	602.0	276.8	670.1
## 1988.2690	473.4	344.8	602.1	276.6	670.3
## 1988.2717	473.4	344.6	602.3	276.4	670.5
## 1988.2745	473.4	344.5	602.4	276.2	670.7
## 1988.2772	473.4	344.3	602.6	276.0	670.9
## 1988.2799	473.4	344.2	602.7	275.8	671.1
## 1988.2827	473.4	344.1	602.8	275.6	671.3
## 1988.2854	473.4	343.9	603.0	275.4	671.5
## 1988.2882	473.4	343.8	603.1	275.1	671.8

## 1988.2909	473.4	343.6	603.3	274.9	672.0
## 1988.2936	473.4	343.5	603.4	274.7	672.2
## 1988.2964	473.4	343.4	603.5	274.5	672.4
## 1988.2991	473.4	343.2	603.7	274.3	672.6
## 1988.3018	473.4	343.1	603.8	274.1	672.8
## 1988.3046	473.4	343.0	603.9	273.9	673.0
## 1988.3073	473.4	342.8	604.1	273.7	673.2
## 1988.3101	473.4	342.7	604.2	273.4	673.5
## 1988.3128	473.4	342.5	604.4	273.2	673.7
## 1988.3155	473.4	342.4	604.5	273.0	673.9
## 1988.3183	473.4	342.3	604.6	272.8	674.1
## 1988.3210	473.4	342.1	604.8	272.6	674.3
## 1988.3238	473.4	342.0	604.9	272.4	674.5
## 1988.3265	473.4	341.9	605.0	272.2	674.7
## 1988.3292	473.4	341.7	605.2	272.0	674.9
## 1988.3320	473.4	341.6	605.3	271.8	675.1
## 1988.3347	473.4	341.4	605.5	271.6	675.3
## 1988.3374	473.4	341.3	605.6	271.4	675.5
## 1988.3402	473.4	341.2	605.7	271.1	675.8
## 1988.3429	473.4	341.0	605.9	270.9	676.0
## 1988.3457	473.4	340.9	606.0	270.7	676.2
## 1988.3484	473.4	340.8	606.1	270.5	676.4
## 1988.3511	473.4	340.6	606.3	270.3	676.6
## 1988.3539	473.4	340.5	606.4	270.1	676.8
## 1988.3566	473.4	340.4	606.5	269.9	677.0
## 1988.3593	473.4	340.2	606.7	269.7	677.2
## 1988.3621	473.4	340.1	606.8	269.5	677.4
## 1988.3648	473.4	340.0	606.9	269.3	677.6
## 1988.3676	473.4	339.8	607.1	269.1	677.8
## 1988.3703	473.4	339.7	607.2	268.9	678.0
## 1988.3730	473.4	339.5	607.4	268.7	678.2
## 1988.3758	473.4	339.4	607.5	268.5	678.4
## 1988.3785	473.4	339.3	607.6	268.3	678.6
## 1988.3812	473.4	339.1	607.8	268.0	678.9
## 1988.3840	473.4	339.0	607.9	267.8	679.1
## 1988.3867	473.4	338.9	608.0	267.6	679.3
## 1988.3895	473.4	338.7	608.2	267.4	679.5
## 1988.3922	473.4	338.6	608.3	267.2	679.7
## 1988.3949	473.4	338.5	608.4	267.0	679.9
## 1988.3977	473.4	338.3	608.6	266.8	680.1
## 1988.4004	473.4	338.2	608.7	266.6	680.3
## 1988.4031	473.4	338.1	608.8	266.4	680.5
## 1988.4059	473.4	337.9	609.0	266.2	680.7
## 1988.4086	473.4	337.8	609.1	266.0	680.9
## 1988.4114	473.4	337.7	609.2	265.8	681.1
## 1988.4141	473.4	337.5	609.4	265.6	681.3
## 1988.4168	473.4	337.4	609.5	265.4	681.5
## 1988.4196	473.4	337.3	609.6	265.2	681.7
## 1988.4223	473.4	337.1	609.8	265.0	681.9
## 1988.4251	473.4	337.0	609.9	264.8	682.1
## 1988.4278	473.4	336.9	610.0	264.6	682.3
## 1988.4305	473.4	336.8	610.1	264.4	682.5

## 1988.4333	473.4	336.6	610.3	264.2	682.7
## 1988.4360	473.4	336.5	610.4	264.0	682.9
## 1988.4387	473.4	336.4	610.5	263.8	683.1
## 1988.4415	473.4	336.2	610.7	263.6	683.3
## 1988.4442	473.4	336.1	610.8	263.4	683.5
## 1988.4470	473.4	336.0	610.9	263.2	683.7
## 1988.4497	473.4	335.8	611.1	263.0	683.9
## 1988.4524	473.4	335.7	611.2	262.8	684.1
## 1988.4552	473.4	335.6	611.3	262.6	684.3
## 1988.4579	473.4	335.4	611.5	262.4	684.5
## 1988.4606	473.4	335.3	611.6	262.2	684.7
## 1988.4634	473.4	335.2	611.7	262.0	684.9
## 1988.4661	473.4	335.1	611.8	261.8	685.1
## 1988.4689	473.4	334.9	612.0	261.6	685.3
## 1988.4716	473.4	334.8	612.1	261.4	685.5
## 1988.4743	473.4	334.7	612.2	261.2	685.7
## 1988.4771	473.4	334.5	612.4	261.0	685.9
## 1988.4798	473.4	334.4	612.5	260.8	686.1
## 1988.4825	473.4	334.3	612.6	260.6	686.3
## 1988.4853	473.4	334.1	612.8	260.4	686.5
## 1988.4880	473.4	334.0	612.9	260.2	686.7
## 1988.4908	473.4	333.9	613.0	260.0	686.9
## 1988.4935	473.4	333.8	613.1	259.8	687.1
## 1988.4962	473.4	333.6	613.3	259.6	687.3
## 1988.4990	473.4	333.5	613.4	259.4	687.5
## 1988.5017	473.4	333.4	613.5	259.2	687.7
## 1988.5044	473.4	333.2	613.7	259.0	687.9
## 1988.5072	473.4	333.1	613.8	258.8	688.1
## 1988.5099	473.4	333.0	613.9	258.6	688.3
## 1988.5127	473.4	332.9	614.0	258.4	688.5
## 1988.5154	473.4	332.7	614.2	258.2	688.7
## 1988.5181	473.4	332.6	614.3	258.0	688.9
## 1988.5209	473.4	332.5	614.4	257.8	689.1
## 1988.5236	473.4	332.3	614.6	257.7	689.2
## 1988.5264	473.4	332.2	614.7	257.5	689.4
## 1988.5291	473.4	332.1	614.8	257.3	689.6
## 1988.5318	473.4	332.0	614.9	257.1	689.8
## 1988.5346	473.4	331.8	615.1	256.9	690.0
## 1988.5373	473.4	331.7	615.2	256.7	690.2
## 1988.5400	473.4	331.6	615.3	256.5	690.4
## 1988.5428	473.4	331.5	615.4	256.3	690.6
## 1988.5455	473.4	331.3	615.6	256.1	690.8
## 1988.5483	473.4	331.2	615.7	255.9	691.0
## 1988.5510	473.4	331.1	615.8	255.7	691.2
## 1988.5537	473.4	330.9	616.0	255.5	691.4
## 1988.5565	473.4	330.8	616.1	255.3	691.6
## 1988.5592	473.4	330.7	616.2	255.1	691.8
## 1988.5619	473.4	330.6	616.3	254.9	692.0
## 1988.5647	473.4	330.4	616.5	254.7	692.2
## 1988.5674	473.4	330.3	616.6	254.6	692.3
## 1988.5702	473.4	330.2	616.7	254.4	692.5
## 1988.5729	473.4	330.1	616.8	254.2	692.7

## 1988.5756	473.4	329.9	617.0	254.0	692.9
## 1988.5784	473.4	329.8	617.1	253.8	693.1
## 1988.5811	473.4	329.7	617.2	253.6	693.3
## 1988.5838	473.4	329.6	617.3	253.4	693.5
## 1988.5866	473.4	329.4	617.5	253.2	693.7
## 1988.5893	473.4	329.3	617.6	253.0	693.9
## 1988.5921	473.4	329.2	617.7	252.8	694.1
## 1988.5948	473.4	329.1	617.8	252.6	694.3
## 1988.5975	473.4	328.9	618.0	252.4	694.5
## 1988.6003	473.4	328.8	618.1	252.3	694.6
## 1988.6030	473.4	328.7	618.2	252.1	694.8
## 1988.6057	473.4	328.6	618.3	251.9	695.0
## 1988.6085	473.4	328.4	618.5	251.7	695.2
## 1988.6112	473.4	328.3	618.6	251.5	695.4
## 1988.6140	473.4	328.2	618.7	251.3	695.6
## 1988.6167	473.4	328.1	618.8	251.1	695.8
## 1988.6194	473.4	327.9	619.0	250.9	696.0
## 1988.6222	473.4	327.8	619.1	250.7	696.2
## 1988.6249	473.4	327.7	619.2	250.5	696.4
## 1988.6277	473.4	327.6	619.3	250.4	696.5
## 1988.6304	473.4	327.5	619.4	250.2	696.7
## 1988.6331	473.4	327.3	619.6	250.0	696.9
## 1988.6359	473.4	327.2	619.7	249.8	697.1
## 1988.6386	473.4	327.1	619.8	249.6	697.3
## 1988.6413	473.4	327.0	619.9	249.4	697.5
## 1988.6441	473.4	326.8	620.1	249.2	697.7
## 1988.6468	473.4	326.7	620.2	249.0	697.9
## 1988.6496	473.4	326.6	620.3	248.9	698.0
## 1988.6523	473.4	326.5	620.4	248.7	698.2
## 1988.6550	473.4	326.3	620.6	248.5	698.4
## 1988.6578	473.4	326.2	620.7	248.3	698.6
## 1988.6605	473.4	326.1	620.8	248.1	698.8
## 1988.6632	473.4	326.0	620.9	247.9	699.0
## 1988.6660	473.4	325.9	621.0	247.7	699.2
## 1988.6687	473.4	325.7	621.2	247.5	699.4
## 1988.6715	473.4	325.6	621.3	247.4	699.5
## 1988.6742	473.4	325.5	621.4	247.2	699.7
## 1988.6769	473.4	325.4	621.5	247.0	699.9
## 1988.6797	473.4	325.3	621.6	246.8	700.1
## 1988.6824	473.4	325.1	621.8	246.6	700.3
## 1988.6851	473.4	325.0	621.9	246.4	700.5
## 1988.6879	473.4	324.9	622.0	246.2	700.7
## 1988.6906	473.4	324.8	622.1	246.1	700.8
## 1988.6934	473.4	324.6	622.3	245.9	701.0
## 1988.6961	473.4	324.5	622.4	245.7	701.2
## 1988.6988	473.4	324.4	622.5	245.5	701.4
## 1988.7016	473.4	324.3	622.6	245.3	701.6
## 1988.7043	473.4	324.2	622.7	245.1	701.8
## 1988.7070	473.4	324.0	622.9	245.0	701.9
## 1988.7098	473.4	323.9	623.0	244.8	702.1
## 1988.7125	473.4	323.8	623.1	244.6	702.3
## 1988.7153	473.4	323.7	623.2	244.4	702.5

## 1988.7180	473.4	323.6	623.3	244.2	702.7
## 1988.7207	473.4	323.4	623.5	244.0	702.9
## 1988.7235	473.4	323.3	623.6	243.8	703.1
## 1988.7262	473.4	323.2	623.7	243.7	703.2
## 1988.7290	473.4	323.1	623.8	243.5	703.4
## 1988.7317	473.4	323.0	623.9	243.3	703.6
## 1988.7344	473.4	322.8	624.1	243.1	703.8
## 1988.7372	473.4	322.7	624.2	242.9	704.0
## 1988.7399	473.4	322.6	624.3	242.8	704.1
## 1988.7426	473.4	322.5	624.4	242.6	704.3
## 1988.7454	473.4	322.4	624.5	242.4	704.5
## 1988.7481	473.4	322.2	624.7	242.2	704.7
## 1988.7509	473.4	322.1	624.8	242.0	704.9
## 1988.7536	473.4	322.0	624.9	241.8	705.1
## 1988.7563	473.4	321.9	625.0	241.7	705.2
## 1988.7591	473.4	321.8	625.1	241.5	705.4
## 1988.7618	473.4	321.7	625.2	241.3	705.6
## 1988.7645	473.4	321.5	625.4	241.1	705.8
## 1988.7673	473.4	321.4	625.5	240.9	706.0
## 1988.7700	473.4	321.3	625.6	240.8	706.1
## 1988.7728	473.4	321.2	625.7	240.6	706.3
## 1988.7755	473.4	321.1	625.8	240.4	706.5
## 1988.7782	473.4	320.9	626.0	240.2	706.7
## 1988.7810	473.4	320.8	626.1	240.0	706.9
## 1988.7837	473.4	320.7	626.2	239.8	707.1
## 1988.7864	473.4	320.6	626.3	239.7	707.2
## 1988.7892	473.4	320.5	626.4	239.5	707.4
## 1988.7919	473.4	320.4	626.5	239.3	707.6
## 1988.7947	473.4	320.2	626.7	239.1	707.8
## 1988.7974	473.4	320.1	626.8	238.9	708.0
## 1988.8001	473.4	320.0	626.9	238.8	708.1
## 1988.8029	473.4	319.9	627.0	238.6	708.3
## 1988.8056	473.4	319.8	627.1	238.4	708.5
## 1988.8084	473.4	319.6	627.3	238.2	708.7
## 1988.8111	473.4	319.5	627.4	238.1	708.8
## 1988.8138	473.4	319.4	627.5	237.9	709.0
## 1988.8166	473.4	319.3	627.6	237.7	709.2
## 1988.8193	473.4	319.2	627.7	237.5	709.4
## 1988.8220	473.4	319.1	627.8	237.3	709.6
## 1988.8248	473.4	318.9	628.0	237.2	709.7
## 1988.8275	473.4	318.8	628.1	237.0	709.9
## 1988.8303	473.4	318.7	628.2	236.8	710.1
## 1988.8330	473.4	318.6	628.3	236.6	710.3
## 1988.8357	473.4	318.5	628.4	236.4	710.5
## 1988.8385	473.4	318.4	628.5	236.3	710.6
## 1988.8412	473.4	318.3	628.6	236.1	710.8
## 1988.8439	473.4	318.1	628.8	235.9	711.0
## 1988.8467	473.4	318.0	628.9	235.7	711.2
## 1988.8494	473.4	317.9	629.0	235.6	711.3
## 1988.8522	473.4	317.8	629.1	235.4	711.5
## 1988.8549	473.4	317.7	629.2	235.2	711.7
## 1988.8576	473.4	317.6	629.3	235.0	711.9

## 1988.8604	473.4	317.4	629.5	234.9	712.0
## 1988.8631	473.4	317.3	629.6	234.7	712.2
## 1988.8658	473.4	317.2	629.7	234.5	712.4
## 1988.8686	473.4	317.1	629.8	234.3	712.6
## 1988.8713	473.4	317.0	629.9	234.1	712.8
## 1988.8741	473.4	316.9	630.0	234.0	712.9
## 1988.8768	473.4	316.8	630.1	233.8	713.1
## 1988.8795	473.4	316.6	630.3	233.6	713.3
## 1988.8823	473.4	316.5	630.4	233.4	713.5
## 1988.8850	473.4	316.4	630.5	233.3	713.6
## 1988.8877	473.4	316.3	630.6	233.1	713.8
## 1988.8905	473.4	316.2	630.7	232.9	714.0
## 1988.8932	473.4	316.1	630.8	232.7	714.2
## 1988.8960	473.4	315.9	631.0	232.6	714.3
## 1988.8987	473.4	315.8	631.1	232.4	714.5
## 1988.9014	473.4	315.7	631.2	232.2	714.7
## 1988.9042	473.4	315.6	631.3	232.0	714.9
## 1988.9069	473.4	315.5	631.4	231.9	715.0
## 1988.9097	473.4	315.4	631.5	231.7	715.2
## 1988.9124	473.4	315.3	631.6	231.5	715.4
## 1988.9151	473.4	315.1	631.8	231.4	715.5
## 1988.9179	473.4	315.0	631.9	231.2	715.7
## 1988.9206	473.4	314.9	632.0	231.0	715.9
## 1988.9233	473.4	314.8	632.1	230.8	716.1
## 1988.9261	473.4	314.7	632.2	230.7	716.2
## 1988.9288	473.4	314.6	632.3	230.5	716.4
## 1988.9316	473.4	314.5	632.4	230.3	716.6
## 1988.9343	473.4	314.4	632.5	230.1	716.8
## 1988.9370	473.4	314.2	632.7	230.0	716.9
## 1988.9398	473.4	314.1	632.8	229.8	717.1
## 1988.9425	473.4	314.0	632.9	229.6	717.3
## 1988.9452	473.4	313.9	633.0	229.4	717.5
## 1988.9480	473.4	313.8	633.1	229.3	717.6
## 1988.9507	473.4	313.7	633.2	229.1	717.8
## 1988.9535	473.4	313.6	633.3	228.9	718.0
## 1988.9562	473.4	313.5	633.4	228.8	718.1
## 1988.9589	473.4	313.3	633.6	228.6	718.3
## 1988.9617	473.4	313.2	633.7	228.4	718.5
## 1988.9644	473.4	313.1	633.8	228.2	718.7
## 1988.9671	473.4	313.0	633.9	228.1	718.8
## 1988.9699	473.4	312.9	634.0	227.9	719.0
## 1988.9726	473.4	312.8	634.1	227.7	719.2
## 1988.9754	473.4	312.7	634.2	227.6	719.3
## 1988.9781	473.4	312.6	634.3	227.4	719.5
## 1988.9808	473.4	312.4	634.5	227.2	719.7
## 1988.9836	473.4	312.3	634.6	227.0	719.9
## 1988.9863	473.4	312.2	634.7	226.9	720.0
## 1988.9890	473.4	312.1	634.8	226.7	720.2
## 1988.9918	473.4	312.0	634.9	226.5	720.4
## 1988.9945	473.4	311.9	635.0	226.4	720.5
## 1988.9973	473.4	311.8	635.1	226.2	720.7
## 1989.0000	473.4	311.7	635.2	226.0	720.9

## 1989.0027	473.4	311.6	635.3	225.8	721.1
## 1989.0055	473.4	311.4	635.5	225.7	721.2
## 1989.0082	473.4	311.3	635.6	225.5	721.4
## 1989.0110	473.4	311.2	635.7	225.3	721.6
## 1989.0137	473.4	311.1	635.8	225.2	721.7
## 1989.0164	473.4	311.0	635.9	225.0	721.9
## 1989.0192	473.4	310.9	636.0	224.8	722.1
## 1989.0219	473.4	310.8	636.1	224.7	722.2
## 1989.0246	473.4	310.7	636.2	224.5	722.4
## 1989.0274	473.4	310.6	636.3	224.3	722.6
## 1989.0301	473.4	310.4	636.5	224.2	722.7
## 1989.0329	473.4	310.3	636.6	224.0	722.9
## 1989.0356	473.4	310.2	636.7	223.8	723.1
## 1989.0383	473.4	310.1	636.8	223.6	723.3
## 1989.0411	473.4	310.0	636.9	223.5	723.4
## 1989.0438	473.4	309.9	637.0	223.3	723.6
## 1989.0465	473.4	309.8	637.1	223.1	723.8
## 1989.0493	473.4	309.7	637.2	223.0	723.9
## 1989.0520	473.4	309.6	637.3	222.8	724.1
## 1989.0548	473.4	309.5	637.4	222.6	724.3
## 1989.0575	473.4	309.3	637.6	222.5	724.4
## 1989.0602	473.4	309.2	637.7	222.3	724.6
## 1989.0630	473.4	309.1	637.8	222.1	724.8
## 1989.0657	473.4	309.0	637.9	222.0	724.9
## 1989.0684	473.4	308.9	638.0	221.8	725.1
## 1989.0712	473.4	308.8	638.1	221.6	725.3
## 1989.0739	473.4	308.7	638.2	221.5	725.4
## 1989.0767	473.4	308.6	638.3	221.3	725.6
## 1989.0794	473.4	308.5	638.4	221.1	725.8
## 1989.0821	473.4	308.4	638.5	221.0	725.9
## 1989.0849	473.4	308.2	638.7	220.8	726.1
## 1989.0876	473.4	308.1	638.8	220.6	726.3
## 1989.0903	473.4	308.0	638.9	220.5	726.4
## 1989.0931	473.4	307.9	639.0	220.3	726.6
## 1989.0958	473.4	307.8	639.1	220.1	726.8
## 1989.0986	473.4	307.7	639.2	220.0	726.9
## 1989.1013	473.4	307.6	639.3	219.8	727.1
## 1989.1040	473.4	307.5	639.4	219.6	727.3
## 1989.1068	473.4	307.4	639.5	219.5	727.4
## 1989.1095	473.4	307.3	639.6	219.3	727.6
## 1989.1123	473.4	307.2	639.7	219.1	727.8
## 1989.1150	473.4	307.1	639.8	219.0	727.9
## 1989.1177	473.4	306.9	640.0	218.8	728.1
## 1989.1205	473.4	306.8	640.1	218.6	728.3
## 1989.1232	473.4	306.7	640.2	218.5	728.4
## 1989.1259	473.4	306.6	640.3	218.3	728.6
## 1989.1287	473.4	306.5	640.4	218.1	728.8
## 1989.1314	473.4	306.4	640.5	218.0	728.9
## 1989.1342	473.4	306.3	640.6	217.8	729.1
## 1989.1369	473.4	306.2	640.7	217.7	729.2
## 1989.1396	473.4	306.1	640.8	217.5	729.4
## 1989.1424	473.4	306.0	640.9	217.3	729.6

## 1989.1451	473.4	305.9	641.0	217.2	729.7
## 1989.1478	473.4	305.8	641.1	217.0	729.9
## 1989.1506	473.4	305.7	641.2	216.8	730.1
## 1989.1533	473.4	305.5	641.4	216.7	730.2
## 1989.1561	473.4	305.4	641.5	216.5	730.4
## 1989.1588	473.4	305.3	641.6	216.3	730.6
## 1989.1615	473.4	305.2	641.7	216.2	730.7
## 1989.1643	473.4	305.1	641.8	216.0	730.9
## 1989.1670	473.4	305.0	641.9	215.8	731.1
## 1989.1697	473.4	304.9	642.0	215.7	731.2
## 1989.1725	473.4	304.8	642.1	215.5	731.4
## 1989.1752	473.4	304.7	642.2	215.4	731.5
## 1989.1780	473.4	304.6	642.3	215.2	731.7
## 1989.1807	473.4	304.5	642.4	215.0	731.9
## 1989.1834	473.4	304.4	642.5	214.9	732.0
## 1989.1862	473.4	304.3	642.6	214.7	732.2
## 1989.1889	473.4	304.2	642.7	214.5	732.4
## 1989.1916	473.4	304.1	642.8	214.4	732.5
## 1989.1944	473.4	303.9	643.0	214.2	732.7
## 1989.1971	473.4	303.8	643.1	214.1	732.8
## 1989.1999	473.4	303.7	643.2	213.9	733.0
## 1989.2026	473.4	303.6	643.3	213.7	733.2
## 1989.2053	473.4	303.5	643.4	213.6	733.3
## 1989.2081	473.4	303.4	643.5	213.4	733.5
## 1989.2108	473.4	303.3	643.6	213.2	733.7
## 1989.2136	473.4	303.2	643.7	213.1	733.8
## 1989.2163	473.4	303.1	643.8	212.9	734.0
## 1989.2190	473.4	303.0	643.9	212.8	734.1
## 1989.2218	473.4	302.9	644.0	212.6	734.3
## 1989.2245	473.4	302.8	644.1	212.4	734.5
## 1989.2272	473.4	302.7	644.2	212.3	734.6
## 1989.2300	473.4	302.6	644.3	212.1	734.8
## 1989.2327	473.4	302.5	644.4	212.0	734.9
## 1989.2355	473.4	302.4	644.5	211.8	735.1
## 1989.2382	473.4	302.3	644.6	211.6	735.3
## 1989.2409	473.4	302.2	644.7	211.5	735.4
## 1989.2437	473.4	302.0	644.9	211.3	735.6
## 1989.2464	473.4	301.9	645.0	211.1	735.8
## 1989.2491	473.4	301.8	645.1	211.0	735.9
## 1989.2519	473.4	301.7	645.2	210.8	736.1
## 1989.2546	473.4	301.6	645.3	210.7	736.2
## 1989.2574	473.4	301.5	645.4	210.5	736.4
## 1989.2601	473.4	301.4	645.5	210.3	736.6
## 1989.2628	473.4	301.3	645.6	210.2	736.7
## 1989.2656	473.4	301.2	645.7	210.0	736.9
## 1989.2683	473.4	301.1	645.8	209.9	737.0
## 1989.2710	473.4	301.0	645.9	209.7	737.2
## 1989.2738	473.4	300.9	646.0	209.5	737.4
## 1989.2765	473.4	300.8	646.1	209.4	737.5
## 1989.2793	473.4	300.7	646.2	209.2	737.7
## 1989.2820	473.4	300.6	646.3	209.1	737.8
## 1989.2847	473.4	300.5	646.4	208.9	738.0

## 1989.2875	473.4	300.4	646.5	208.8	738.1
## 1989.2902	473.4	300.3	646.6	208.6	738.3
## 1989.2930	473.4	300.2	646.7	208.4	738.5
## 1989.2957	473.4	300.1	646.8	208.3	738.6
## 1989.2984	473.4	300.0	646.9	208.1	738.8
## 1989.3012	473.4	299.9	647.0	208.0	738.9
## 1989.3039	473.4	299.8	647.1	207.8	739.1
## 1989.3066	473.4	299.6	647.3	207.6	739.3
## 1989.3094	473.4	299.5	647.4	207.5	739.4
## 1989.3121	473.4	299.4	647.5	207.3	739.6
## 1989.3149	473.4	299.3	647.6	207.2	739.7
## 1989.3176	473.4	299.2	647.7	207.0	739.9
## 1989.3203	473.4	299.1	647.8	206.9	740.0
## 1989.3231	473.4	299.0	647.9	206.7	740.2
## 1989.3258	473.4	298.9	648.0	206.5	740.4
## 1989.3285	473.4	298.8	648.1	206.4	740.5
## 1989.3313	473.4	298.7	648.2	206.2	740.7
## 1989.3340	473.4	298.6	648.3	206.1	740.8
## 1989.3368	473.4	298.5	648.4	205.9	741.0
## 1989.3395	473.4	298.4	648.5	205.7	741.2
## 1989.3422	473.4	298.3	648.6	205.6	741.3
## 1989.3450	473.4	298.2	648.7	205.4	741.5
## 1989.3477	473.4	298.1	648.8	205.3	741.6
## 1989.3504	473.4	298.0	648.9	205.1	741.8
## 1989.3532	473.4	297.9	649.0	205.0	741.9
## 1989.3559	473.4	297.8	649.1	204.8	742.1
## 1989.3587	473.4	297.7	649.2	204.6	742.3
## 1989.3614	473.4	297.6	649.3	204.5	742.4
## 1989.3641	473.4	297.5	649.4	204.3	742.6
## 1989.3669	473.4	297.4	649.5	204.2	742.7
## 1989.3696	473.4	297.3	649.6	204.0	742.9
## 1989.3723	473.4	297.2	649.7	203.9	743.0
## 1989.3751	473.4	297.1	649.8	203.7	743.2
## 1989.3778	473.4	297.0	649.9	203.6	743.3
## 1989.3806	473.4	296.9	650.0	203.4	743.5
## 1989.3833	473.4	296.8	650.1	203.2	743.7
## 1989.3860	473.4	296.7	650.2	203.1	743.8
## 1989.3888	473.4	296.6	650.3	202.9	744.0
## 1989.3915	473.4	296.5	650.4	202.8	744.1
## 1989.3943	473.4	296.4	650.5	202.6	744.3
## 1989.3970	473.4	296.3	650.6	202.5	744.4
## 1989.3997	473.4	296.2	650.7	202.3	744.6
## 1989.4025	473.4	296.1	650.8	202.2	744.7
## 1989.4052	473.4	296.0	650.9	202.0	744.9
## 1989.4079	473.4	295.9	651.0	201.8	745.1
## 1989.4107	473.4	295.8	651.1	201.7	745.2
## 1989.4134	473.4	295.7	651.2	201.5	745.4
## 1989.4162	473.4	295.6	651.3	201.4	745.5
## 1989.4189	473.4	295.5	651.4	201.2	745.7
## 1989.4216	473.4	295.3	651.6	201.1	745.8
## 1989.4244	473.4	295.2	651.7	200.9	746.0
## 1989.4271	473.4	295.1	651.8	200.8	746.1

## 1989.4298	473.4	295.0	651.9	200.6	746.3
## 1989.4326	473.4	294.9	652.0	200.5	746.4
## 1989.4353	473.4	294.8	652.1	200.3	746.6
## 1989.4381	473.4	294.7	652.2	200.1	746.8
## 1989.4408	473.4	294.6	652.3	200.0	746.9
## 1989.4435	473.4	294.5	652.4	199.8	747.1
## 1989.4463	473.4	294.4	652.5	199.7	747.2
## 1989.4490	473.4	294.3	652.6	199.5	747.4
## 1989.4517	473.4	294.2	652.7	199.4	747.5
## 1989.4545	473.4	294.1	652.8	199.2	747.7
## 1989.4572	473.4	294.0	652.9	199.1	747.8
## 1989.4600	473.4	293.9	653.0	198.9	748.0
## 1989.4627	473.4	293.8	653.1	198.8	748.1
## 1989.4654	473.4	293.7	653.2	198.6	748.3
## 1989.4682	473.4	293.6	653.3	198.5	748.4
## 1989.4709	473.4	293.5	653.4	198.3	748.6
## 1989.4736	473.4	293.4	653.5	198.1	748.8
## 1989.4764	473.4	293.3	653.6	198.0	748.9
## 1989.4791	473.4	293.2	653.7	197.8	749.1
## 1989.4819	473.4	293.1	653.8	197.7	749.2
## 1989.4846	473.4	293.0	653.9	197.5	749.4
## 1989.4873	473.4	292.9	654.0	197.4	749.5
## 1989.4901	473.4	292.8	654.1	197.2	749.7
## 1989.4928	473.4	292.7	654.2	197.1	749.8
## 1989.4956	473.4	292.6	654.3	196.9	750.0
## 1989.4983	473.4	292.5	654.4	196.8	750.1
## 1989.5010	473.4	292.4	654.5	196.6	750.3
## 1989.5038	473.4	292.3	654.6	196.5	750.4
## 1989.5065	473.4	292.2	654.7	196.3	750.6
## 1989.5092	473.4	292.1	654.8	196.2	750.7
## 1989.5120	473.4	292.0	654.9	196.0	750.9
## 1989.5147	473.4	291.9	655.0	195.9	751.0
## 1989.5175	473.4	291.8	655.1	195.7	751.2
## 1989.5202	473.4	291.7	655.2	195.6	751.3
## 1989.5229	473.4	291.6	655.3	195.4	751.5
## 1989.5257	473.4	291.5	655.4	195.3	751.6
## 1989.5284	473.4	291.5	655.4	195.1	751.8
## 1989.5311	473.4	291.4	655.5	195.0	751.9
## 1989.5339	473.4	291.3	655.6	194.8	752.1
## 1989.5366	473.4	291.2	655.7	194.7	752.2
## 1989.5394	473.4	291.1	655.8	194.5	752.4
## 1989.5421	473.4	291.0	655.9	194.4	752.5
## 1989.5448	473.4	290.9	656.0	194.2	752.7
## 1989.5476	473.4	290.8	656.1	194.0	752.9
## 1989.5503	473.4	290.7	656.2	193.9	753.0
## 1989.5530	473.4	290.6	656.3	193.7	753.2
## 1989.5558	473.4	290.5	656.4	193.6	753.3
## 1989.5585	473.4	290.4	656.5	193.4	753.5
## 1989.5613	473.4	290.3	656.6	193.3	753.6
## 1989.5640	473.4	290.2	656.7	193.1	753.8
## 1989.5667	473.4	290.1	656.8	193.0	753.9
## 1989.5695	473.4	290.0	656.9	192.8	754.1

## 1989.5722	473.4	289.9	657.0	192.7	754.2
## 1989.5749	473.4	289.8	657.1	192.5	754.4
## 1989.5777	473.4	289.7	657.2	192.4	754.5
## 1989.5804	473.4	289.6	657.3	192.2	754.7
## 1989.5832	473.4	289.5	657.4	192.1	754.8
## 1989.5859	473.4	289.4	657.5	191.9	755.0
## 1989.5886	473.4	289.3	657.6	191.8	755.1
## 1989.5914	473.4	289.2	657.7	191.6	755.3
## 1989.5941	473.4	289.1	657.8	191.5	755.4
## 1989.5969	473.4	289.0	657.9	191.3	755.6
## 1989.5996	473.4	288.9	658.0	191.2	755.7
## 1989.6023	473.4	288.8	658.1	191.1	755.8
## 1989.6051	473.4	288.7	658.2	190.9	756.0
## 1989.6078	473.4	288.6	658.3	190.8	756.1
## 1989.6105	473.4	288.5	658.4	190.6	756.3
## 1989.6133	473.4	288.4	658.5	190.5	756.4
## 1989.6160	473.4	288.3	658.6	190.3	756.6
## 1989.6188	473.4	288.2	658.7	190.2	756.7
## 1989.6215	473.4	288.1	658.8	190.0	756.9
## 1989.6242	473.4	288.0	658.9	189.9	757.0
## 1989.6270	473.4	287.9	659.0	189.7	757.2
## 1989.6297	473.4	287.8	659.1	189.6	757.3
## 1989.6324	473.4	287.7	659.2	189.4	757.5
## 1989.6352	473.4	287.6	659.3	189.3	757.6
## 1989.6379	473.4	287.5	659.4	189.1	757.8
## 1989.6407	473.4	287.4	659.5	189.0	757.9
## 1989.6434	473.4	287.3	659.6	188.8	758.1
## 1989.6461	473.4	287.2	659.7	188.7	758.2
## 1989.6489	473.4	287.1	659.8	188.5	758.4
## 1989.6516	473.4	287.1	659.8	188.4	758.5
## 1989.6543	473.4	287.0	659.9	188.2	758.7
## 1989.6571	473.4	286.9	660.0	188.1	758.8
## 1989.6598	473.4	286.8	660.1	187.9	759.0
## 1989.6626	473.4	286.7	660.2	187.8	759.1
## 1989.6653	473.4	286.6	660.3	187.6	759.3
## 1989.6680	473.4	286.5	660.4	187.5	759.4
## 1989.6708	473.4	286.4	660.5	187.3	759.6
## 1989.6735	473.4	286.3	660.6	187.2	759.7
## 1989.6762	473.4	286.2	660.7	187.1	759.8
## 1989.6790	473.4	286.1	660.8	186.9	760.0
## 1989.6817	473.4	286.0	660.9	186.8	760.1
## 1989.6845	473.4	285.9	661.0	186.6	760.3
## 1989.6872	473.4	285.8	661.1	186.5	760.4
## 1989.6899	473.4	285.7	661.2	186.3	760.6
## 1989.6927	473.4	285.6	661.3	186.2	760.7
## 1989.6954	473.4	285.5	661.4	186.0	760.9
## 1989.6982	473.4	285.4	661.5	185.9	761.0
## 1989.7009	473.4	285.3	661.6	185.7	761.2
## 1989.7036	473.4	285.2	661.7	185.6	761.3
## 1989.7064	473.4	285.1	661.8	185.4	761.5
## 1989.7091	473.4	285.0	661.9	185.3	761.6
## 1989.7118	473.4	284.9	662.0	185.1	761.8

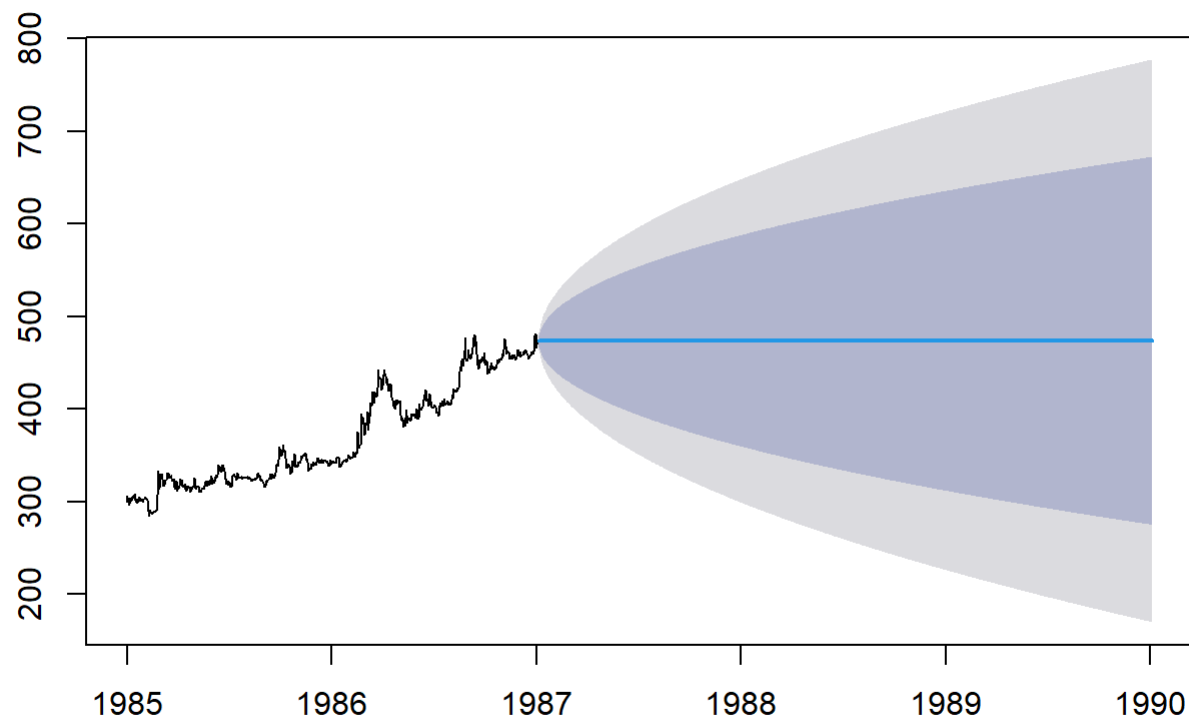
## 1989.7146	473.4	284.8	662.1	185.0	761.9
## 1989.7173	473.4	284.7	662.2	184.9	762.0
## 1989.7201	473.4	284.7	662.2	184.7	762.2
## 1989.7228	473.4	284.6	662.3	184.6	762.3
## 1989.7255	473.4	284.5	662.4	184.4	762.5
## 1989.7283	473.4	284.4	662.5	184.3	762.6
## 1989.7310	473.4	284.3	662.6	184.1	762.8
## 1989.7337	473.4	284.2	662.7	184.0	762.9
## 1989.7365	473.4	284.1	662.8	183.8	763.1
## 1989.7392	473.4	284.0	662.9	183.7	763.2
## 1989.7420	473.4	283.9	663.0	183.5	763.4
## 1989.7447	473.4	283.8	663.1	183.4	763.5
## 1989.7474	473.4	283.7	663.2	183.3	763.6
## 1989.7502	473.4	283.6	663.3	183.1	763.8
## 1989.7529	473.4	283.5	663.4	183.0	763.9
## 1989.7556	473.4	283.4	663.5	182.8	764.1
## 1989.7584	473.4	283.3	663.6	182.7	764.2
## 1989.7611	473.4	283.2	663.7	182.5	764.4
## 1989.7639	473.4	283.1	663.8	182.4	764.5
## 1989.7666	473.4	283.0	663.9	182.2	764.7
## 1989.7693	473.4	282.9	664.0	182.1	764.8
## 1989.7721	473.4	282.9	664.0	182.0	764.9
## 1989.7748	473.4	282.8	664.1	181.8	765.1
## 1989.7775	473.4	282.7	664.2	181.7	765.2
## 1989.7803	473.4	282.6	664.3	181.5	765.4
## 1989.7830	473.4	282.5	664.4	181.4	765.5
## 1989.7858	473.4	282.4	664.5	181.2	765.7
## 1989.7885	473.4	282.3	664.6	181.1	765.8
## 1989.7912	473.4	282.2	664.7	180.9	766.0
## 1989.7940	473.4	282.1	664.8	180.8	766.1
## 1989.7967	473.4	282.0	664.9	180.7	766.2
## 1989.7995	473.4	281.9	665.0	180.5	766.4
## 1989.8022	473.4	281.8	665.1	180.4	766.5
## 1989.8049	473.4	281.7	665.2	180.2	766.7
## 1989.8077	473.4	281.6	665.3	180.1	766.8
## 1989.8104	473.4	281.5	665.4	179.9	767.0
## 1989.8131	473.4	281.4	665.5	179.8	767.1
## 1989.8159	473.4	281.3	665.6	179.7	767.2
## 1989.8186	473.4	281.3	665.6	179.5	767.4
## 1989.8214	473.4	281.2	665.7	179.4	767.5
## 1989.8241	473.4	281.1	665.8	179.2	767.7
## 1989.8268	473.4	281.0	665.9	179.1	767.8
## 1989.8296	473.4	280.9	666.0	178.9	768.0
## 1989.8323	473.4	280.8	666.1	178.8	768.1
## 1989.8350	473.4	280.7	666.2	178.6	768.3
## 1989.8378	473.4	280.6	666.3	178.5	768.4
## 1989.8405	473.4	280.5	666.4	178.4	768.5
## 1989.8433	473.4	280.4	666.5	178.2	768.7
## 1989.8460	473.4	280.3	666.6	178.1	768.8
## 1989.8487	473.4	280.2	666.7	177.9	769.0
## 1989.8515	473.4	280.1	666.8	177.8	769.1
## 1989.8542	473.4	280.0	666.9	177.7	769.2

## 1989.8569	473.4	279.9	667.0	177.5	769.4
## 1989.8597	473.4	279.9	667.0	177.4	769.5
## 1989.8624	473.4	279.8	667.1	177.2	769.7
## 1989.8652	473.4	279.7	667.2	177.1	769.8
## 1989.8679	473.4	279.6	667.3	176.9	770.0
## 1989.8706	473.4	279.5	667.4	176.8	770.1
## 1989.8734	473.4	279.4	667.5	176.7	770.2
## 1989.8761	473.4	279.3	667.6	176.5	770.4
## 1989.8789	473.4	279.2	667.7	176.4	770.5
## 1989.8816	473.4	279.1	667.8	176.2	770.7
## 1989.8843	473.4	279.0	667.9	176.1	770.8
## 1989.8871	473.4	278.9	668.0	175.9	771.0
## 1989.8898	473.4	278.8	668.1	175.8	771.1
## 1989.8925	473.4	278.7	668.2	175.7	771.2
## 1989.8953	473.4	278.6	668.3	175.5	771.4
## 1989.8980	473.4	278.6	668.3	175.4	771.5
## 1989.9008	473.4	278.5	668.4	175.2	771.7
## 1989.9035	473.4	278.4	668.5	175.1	771.8
## 1989.9062	473.4	278.3	668.6	175.0	771.9
## 1989.9090	473.4	278.2	668.7	174.8	772.1
## 1989.9117	473.4	278.1	668.8	174.7	772.2
## 1989.9144	473.4	278.0	668.9	174.5	772.4
## 1989.9172	473.4	277.9	669.0	174.4	772.5
## 1989.9199	473.4	277.8	669.1	174.3	772.6
## 1989.9227	473.4	277.7	669.2	174.1	772.8
## 1989.9254	473.4	277.6	669.3	174.0	772.9
## 1989.9281	473.4	277.5	669.4	173.8	773.1
## 1989.9309	473.4	277.4	669.5	173.7	773.2
## 1989.9336	473.4	277.4	669.5	173.6	773.3
## 1989.9363	473.4	277.3	669.6	173.4	773.5
## 1989.9391	473.4	277.2	669.7	173.3	773.6
## 1989.9418	473.4	277.1	669.8	173.1	773.8
## 1989.9446	473.4	277.0	669.9	173.0	773.9
## 1989.9473	473.4	276.9	670.0	172.9	774.0
## 1989.9500	473.4	276.8	670.1	172.7	774.2
## 1989.9528	473.4	276.7	670.2	172.6	774.3
## 1989.9555	473.4	276.6	670.3	172.4	774.5
## 1989.9582	473.4	276.5	670.4	172.3	774.6
## 1989.9610	473.4	276.4	670.5	172.2	774.7
## 1989.9637	473.4	276.3	670.6	172.0	774.9
## 1989.9665	473.4	276.3	670.6	171.9	775.0
## 1989.9692	473.4	276.2	670.7	171.7	775.2
## 1989.9719	473.4	276.1	670.8	171.6	775.3
## 1989.9747	473.4	276.0	670.9	171.5	775.4
## 1989.9774	473.4	275.9	671.0	171.3	775.6
## 1989.9802	473.4	275.8	671.1	171.2	775.7
## 1989.9829	473.4	275.7	671.2	171.0	775.9
## 1989.9856	473.4	275.6	671.3	170.9	776.0
## 1989.9884	473.4	275.5	671.4	170.8	776.1
## 1989.9911	473.4	275.4	671.5	170.6	776.3
## 1989.9938	473.4	275.3	671.6	170.5	776.4
## 1989.9966	473.4	275.3	671.6	170.3	776.6

```
## 1989.9993      473.4 275.2 671.7 170.2 776.7
## 1990.0021      473.4 275.1 671.8 170.1 776.8
## 1990.0048      473.4 275.0 671.9 169.9 777.0
## 1990.0075      473.4 274.9 672.0 169.8 777.1
```

```
plot(naiveF)
```

Forecasts from Naive method



```
meanFo <- meanf(data_train, h=365*3);meanFo  # Average method
```

##	Point Forecast	Lo 80	Hi 80	Lo 95	Hi 95
## 1987.0123	371.3	300.9	441.7	263.5	479.1
## 1987.0151	371.3	300.9	441.7	263.5	479.1
## 1987.0178	371.3	300.9	441.7	263.5	479.1
## 1987.0205	371.3	300.9	441.7	263.5	479.1
## 1987.0233	371.3	300.9	441.7	263.5	479.1
## 1987.0260	371.3	300.9	441.7	263.5	479.1
## 1987.0287	371.3	300.9	441.7	263.5	479.1
## 1987.0315	371.3	300.9	441.7	263.5	479.1
## 1987.0342	371.3	300.9	441.7	263.5	479.1
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## 1987.8611	371.3	300.9	441.7	263.5	479.1

## 1987.8638	371.3	300.9	441.7	263.5	479.1
## 1987.8665	371.3	300.9	441.7	263.5	479.1
## 1987.8693	371.3	300.9	441.7	263.5	479.1
## 1987.8720	371.3	300.9	441.7	263.5	479.1
## 1987.8747	371.3	300.9	441.7	263.5	479.1
## 1987.8775	371.3	300.9	441.7	263.5	479.1
## 1987.8802	371.3	300.9	441.7	263.5	479.1
## 1987.8830	371.3	300.9	441.7	263.5	479.1
## 1987.8857	371.3	300.9	441.7	263.5	479.1
## 1987.8884	371.3	300.9	441.7	263.5	479.1
## 1987.8912	371.3	300.9	441.7	263.5	479.1
## 1987.8939	371.3	300.9	441.7	263.5	479.1
## 1987.8966	371.3	300.9	441.7	263.5	479.1
## 1987.8994	371.3	300.9	441.7	263.5	479.1
## 1987.9021	371.3	300.9	441.7	263.5	479.1
## 1987.9049	371.3	300.9	441.7	263.5	479.1
## 1987.9076	371.3	300.9	441.7	263.5	479.1
## 1987.9103	371.3	300.9	441.7	263.5	479.1
## 1987.9131	371.3	300.9	441.7	263.5	479.1
## 1987.9158	371.3	300.9	441.7	263.5	479.1
## 1987.9185	371.3	300.9	441.7	263.5	479.1
## 1987.9213	371.3	300.9	441.7	263.5	479.1
## 1987.9240	371.3	300.9	441.7	263.5	479.1
## 1987.9268	371.3	300.9	441.7	263.5	479.1
## 1987.9295	371.3	300.9	441.7	263.5	479.1
## 1987.9322	371.3	300.9	441.7	263.5	479.1
## 1987.9350	371.3	300.9	441.7	263.5	479.1
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## 1987.9432	371.3	300.9	441.7	263.5	479.1
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## 1987.9815	371.3	300.9	441.7	263.5	479.1
## 1987.9843	371.3	300.9	441.7	263.5	479.1
## 1987.9870	371.3	300.9	441.7	263.5	479.1
## 1987.9897	371.3	300.9	441.7	263.5	479.1
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## 1987.9979	371.3	300.9	441.7	263.5	479.1
## 1988.0007	371.3	300.9	441.7	263.5	479.1
## 1988.0034	371.3	300.9	441.7	263.5	479.1

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## 1988.0089	371.3	300.9	441.7	263.5	479.1
## 1988.0116	371.3	300.9	441.7	263.5	479.1
## 1988.0144	371.3	300.9	441.7	263.5	479.1
## 1988.0171	371.3	300.9	441.7	263.5	479.1
## 1988.0198	371.3	300.9	441.7	263.5	479.1
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## 1988.0746	371.3	300.9	441.7	263.5	479.1
## 1988.0773	371.3	300.9	441.7	263.5	479.1
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## 1988.0828	371.3	300.9	441.7	263.5	479.1
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## 1988.0910	371.3	300.9	441.7	263.5	479.1
## 1988.0938	371.3	300.9	441.7	263.5	479.1
## 1988.0965	371.3	300.9	441.7	263.5	479.1
## 1988.0992	371.3	300.9	441.7	263.5	479.1
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## 1988.1677	371.3	300.9	441.7	263.5	479.1
## 1988.1704	371.3	300.9	441.7	263.5	479.1
## 1988.1732	371.3	300.9	441.7	263.5	479.1
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## 1988.2142	371.3	300.9	441.7	263.5	479.1
## 1988.2170	371.3	300.9	441.7	263.5	479.1
## 1988.2197	371.3	300.9	441.7	263.5	479.1
## 1988.2225	371.3	300.9	441.7	263.5	479.1
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## 1988.2772	371.3	300.9	441.7	263.5	479.1
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## 1988.2882	371.3	300.9	441.7	263.5	479.1

## 1988.2909	371.3	300.9	441.7	263.5	479.1
## 1988.2936	371.3	300.9	441.7	263.5	479.1
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## 1988.2991	371.3	300.9	441.7	263.5	479.1
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## 1988.3265	371.3	300.9	441.7	263.5	479.1
## 1988.3292	371.3	300.9	441.7	263.5	479.1
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## 1988.3457	371.3	300.9	441.7	263.5	479.1
## 1988.3484	371.3	300.9	441.7	263.5	479.1
## 1988.3511	371.3	300.9	441.7	263.5	479.1
## 1988.3539	371.3	300.9	441.7	263.5	479.1
## 1988.3566	371.3	300.9	441.7	263.5	479.1
## 1988.3593	371.3	300.9	441.7	263.5	479.1
## 1988.3621	371.3	300.9	441.7	263.5	479.1
## 1988.3648	371.3	300.9	441.7	263.5	479.1
## 1988.3676	371.3	300.9	441.7	263.5	479.1
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## 1988.4086	371.3	300.9	441.7	263.5	479.1
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## 1988.4196	371.3	300.9	441.7	263.5	479.1
## 1988.4223	371.3	300.9	441.7	263.5	479.1
## 1988.4251	371.3	300.9	441.7	263.5	479.1
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## 1988.4771	371.3	300.9	441.7	263.5	479.1
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## 1988.4880	371.3	300.9	441.7	263.5	479.1
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## 1988.4935	371.3	300.9	441.7	263.5	479.1
## 1988.4962	371.3	300.9	441.7	263.5	479.1
## 1988.4990	371.3	300.9	441.7	263.5	479.1
## 1988.5017	371.3	300.9	441.7	263.5	479.1
## 1988.5044	371.3	300.9	441.7	263.5	479.1
## 1988.5072	371.3	300.9	441.7	263.5	479.1
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## 1988.6879	371.3	300.9	441.7	263.5	479.1
## 1988.6906	371.3	300.9	441.7	263.5	479.1
## 1988.6934	371.3	300.9	441.7	263.5	479.1
## 1988.6961	371.3	300.9	441.7	263.5	479.1
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## 1988.7016	371.3	300.9	441.7	263.5	479.1
## 1988.7043	371.3	300.9	441.7	263.5	479.1
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## 1988.7098	371.3	300.9	441.7	263.5	479.1
## 1988.7125	371.3	300.9	441.7	263.5	479.1
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## 1988.7180	371.3	300.9	441.7	263.5	479.1
## 1988.7207	371.3	300.9	441.7	263.5	479.1
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## 1988.7262	371.3	300.9	441.7	263.5	479.1
## 1988.7290	371.3	300.9	441.7	263.5	479.1
## 1988.7317	371.3	300.9	441.7	263.5	479.1
## 1988.7344	371.3	300.9	441.7	263.5	479.1
## 1988.7372	371.3	300.9	441.7	263.5	479.1
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## 1988.7673	371.3	300.9	441.7	263.5	479.1
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## 1988.7755	371.3	300.9	441.7	263.5	479.1
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## 1989.5038	371.3	300.9	441.7	263.5	479.1
## 1989.5065	371.3	300.9	441.7	263.5	479.1
## 1989.5092	371.3	300.9	441.7	263.5	479.1
## 1989.5120	371.3	300.9	441.7	263.5	479.1
## 1989.5147	371.3	300.9	441.7	263.5	479.1
## 1989.5175	371.3	300.9	441.7	263.5	479.1
## 1989.5202	371.3	300.9	441.7	263.5	479.1
## 1989.5229	371.3	300.9	441.7	263.5	479.1
## 1989.5257	371.3	300.9	441.7	263.5	479.1
## 1989.5284	371.3	300.9	441.7	263.5	479.1
## 1989.5311	371.3	300.9	441.7	263.5	479.1
## 1989.5339	371.3	300.9	441.7	263.5	479.1
## 1989.5366	371.3	300.9	441.7	263.5	479.1
## 1989.5394	371.3	300.9	441.7	263.5	479.1
## 1989.5421	371.3	300.9	441.7	263.5	479.1
## 1989.5448	371.3	300.9	441.7	263.5	479.1
## 1989.5476	371.3	300.9	441.7	263.5	479.1
## 1989.5503	371.3	300.9	441.7	263.5	479.1
## 1989.5530	371.3	300.9	441.7	263.5	479.1
## 1989.5558	371.3	300.9	441.7	263.5	479.1
## 1989.5585	371.3	300.9	441.7	263.5	479.1
## 1989.5613	371.3	300.9	441.7	263.5	479.1
## 1989.5640	371.3	300.9	441.7	263.5	479.1
## 1989.5667	371.3	300.9	441.7	263.5	479.1
## 1989.5695	371.3	300.9	441.7	263.5	479.1

## 1989.5722	371.3	300.9	441.7	263.5	479.1
## 1989.5749	371.3	300.9	441.7	263.5	479.1
## 1989.5777	371.3	300.9	441.7	263.5	479.1
## 1989.5804	371.3	300.9	441.7	263.5	479.1
## 1989.5832	371.3	300.9	441.7	263.5	479.1
## 1989.5859	371.3	300.9	441.7	263.5	479.1
## 1989.5886	371.3	300.9	441.7	263.5	479.1
## 1989.5914	371.3	300.9	441.7	263.5	479.1
## 1989.5941	371.3	300.9	441.7	263.5	479.1
## 1989.5969	371.3	300.9	441.7	263.5	479.1
## 1989.5996	371.3	300.9	441.7	263.5	479.1
## 1989.6023	371.3	300.9	441.7	263.5	479.1
## 1989.6051	371.3	300.9	441.7	263.5	479.1
## 1989.6078	371.3	300.9	441.7	263.5	479.1
## 1989.6105	371.3	300.9	441.7	263.5	479.1
## 1989.6133	371.3	300.9	441.7	263.5	479.1
## 1989.6160	371.3	300.9	441.7	263.5	479.1
## 1989.6188	371.3	300.9	441.7	263.5	479.1
## 1989.6215	371.3	300.9	441.7	263.5	479.1
## 1989.6242	371.3	300.9	441.7	263.5	479.1
## 1989.6270	371.3	300.9	441.7	263.5	479.1
## 1989.6297	371.3	300.9	441.7	263.5	479.1
## 1989.6324	371.3	300.9	441.7	263.5	479.1
## 1989.6352	371.3	300.9	441.7	263.5	479.1
## 1989.6379	371.3	300.9	441.7	263.5	479.1
## 1989.6407	371.3	300.9	441.7	263.5	479.1
## 1989.6434	371.3	300.9	441.7	263.5	479.1
## 1989.6461	371.3	300.9	441.7	263.5	479.1
## 1989.6489	371.3	300.9	441.7	263.5	479.1
## 1989.6516	371.3	300.9	441.7	263.5	479.1
## 1989.6543	371.3	300.9	441.7	263.5	479.1
## 1989.6571	371.3	300.9	441.7	263.5	479.1
## 1989.6598	371.3	300.9	441.7	263.5	479.1
## 1989.6626	371.3	300.9	441.7	263.5	479.1
## 1989.6653	371.3	300.9	441.7	263.5	479.1
## 1989.6680	371.3	300.9	441.7	263.5	479.1
## 1989.6708	371.3	300.9	441.7	263.5	479.1
## 1989.6735	371.3	300.9	441.7	263.5	479.1
## 1989.6762	371.3	300.9	441.7	263.5	479.1
## 1989.6790	371.3	300.9	441.7	263.5	479.1
## 1989.6817	371.3	300.9	441.7	263.5	479.1
## 1989.6845	371.3	300.9	441.7	263.5	479.1
## 1989.6872	371.3	300.9	441.7	263.5	479.1
## 1989.6899	371.3	300.9	441.7	263.5	479.1
## 1989.6927	371.3	300.9	441.7	263.5	479.1
## 1989.6954	371.3	300.9	441.7	263.5	479.1
## 1989.6982	371.3	300.9	441.7	263.5	479.1
## 1989.7009	371.3	300.9	441.7	263.5	479.1
## 1989.7036	371.3	300.9	441.7	263.5	479.1
## 1989.7064	371.3	300.9	441.7	263.5	479.1
## 1989.7091	371.3	300.9	441.7	263.5	479.1
## 1989.7118	371.3	300.9	441.7	263.5	479.1

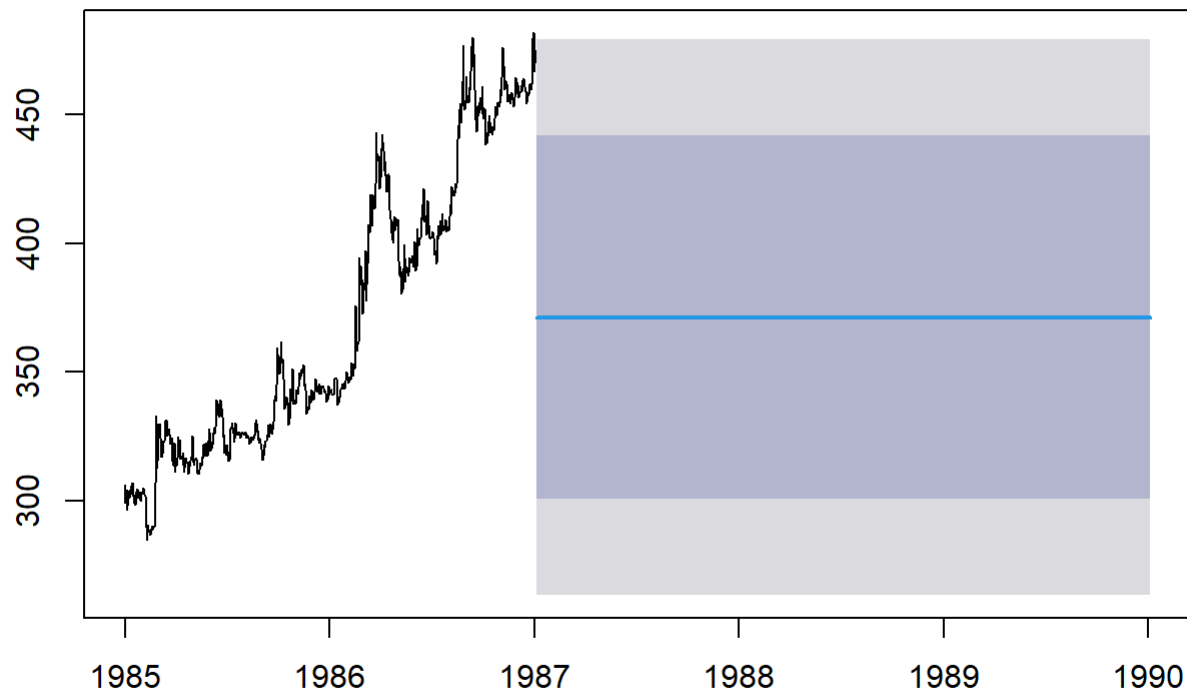
## 1989.7146	371.3	300.9	441.7	263.5	479.1
## 1989.7173	371.3	300.9	441.7	263.5	479.1
## 1989.7201	371.3	300.9	441.7	263.5	479.1
## 1989.7228	371.3	300.9	441.7	263.5	479.1
## 1989.7255	371.3	300.9	441.7	263.5	479.1
## 1989.7283	371.3	300.9	441.7	263.5	479.1
## 1989.7310	371.3	300.9	441.7	263.5	479.1
## 1989.7337	371.3	300.9	441.7	263.5	479.1
## 1989.7365	371.3	300.9	441.7	263.5	479.1
## 1989.7392	371.3	300.9	441.7	263.5	479.1
## 1989.7420	371.3	300.9	441.7	263.5	479.1
## 1989.7447	371.3	300.9	441.7	263.5	479.1
## 1989.7474	371.3	300.9	441.7	263.5	479.1
## 1989.7502	371.3	300.9	441.7	263.5	479.1
## 1989.7529	371.3	300.9	441.7	263.5	479.1
## 1989.7556	371.3	300.9	441.7	263.5	479.1
## 1989.7584	371.3	300.9	441.7	263.5	479.1
## 1989.7611	371.3	300.9	441.7	263.5	479.1
## 1989.7639	371.3	300.9	441.7	263.5	479.1
## 1989.7666	371.3	300.9	441.7	263.5	479.1
## 1989.7693	371.3	300.9	441.7	263.5	479.1
## 1989.7721	371.3	300.9	441.7	263.5	479.1
## 1989.7748	371.3	300.9	441.7	263.5	479.1
## 1989.7775	371.3	300.9	441.7	263.5	479.1
## 1989.7803	371.3	300.9	441.7	263.5	479.1
## 1989.7830	371.3	300.9	441.7	263.5	479.1
## 1989.7858	371.3	300.9	441.7	263.5	479.1
## 1989.7885	371.3	300.9	441.7	263.5	479.1
## 1989.7912	371.3	300.9	441.7	263.5	479.1
## 1989.7940	371.3	300.9	441.7	263.5	479.1
## 1989.7967	371.3	300.9	441.7	263.5	479.1
## 1989.7995	371.3	300.9	441.7	263.5	479.1
## 1989.8022	371.3	300.9	441.7	263.5	479.1
## 1989.8049	371.3	300.9	441.7	263.5	479.1
## 1989.8077	371.3	300.9	441.7	263.5	479.1
## 1989.8104	371.3	300.9	441.7	263.5	479.1
## 1989.8131	371.3	300.9	441.7	263.5	479.1
## 1989.8159	371.3	300.9	441.7	263.5	479.1
## 1989.8186	371.3	300.9	441.7	263.5	479.1
## 1989.8214	371.3	300.9	441.7	263.5	479.1
## 1989.8241	371.3	300.9	441.7	263.5	479.1
## 1989.8268	371.3	300.9	441.7	263.5	479.1
## 1989.8296	371.3	300.9	441.7	263.5	479.1
## 1989.8323	371.3	300.9	441.7	263.5	479.1
## 1989.8350	371.3	300.9	441.7	263.5	479.1
## 1989.8378	371.3	300.9	441.7	263.5	479.1
## 1989.8405	371.3	300.9	441.7	263.5	479.1
## 1989.8433	371.3	300.9	441.7	263.5	479.1
## 1989.8460	371.3	300.9	441.7	263.5	479.1
## 1989.8487	371.3	300.9	441.7	263.5	479.1
## 1989.8515	371.3	300.9	441.7	263.5	479.1
## 1989.8542	371.3	300.9	441.7	263.5	479.1

## 1989.8569	371.3	300.9	441.7	263.5	479.1
## 1989.8597	371.3	300.9	441.7	263.5	479.1
## 1989.8624	371.3	300.9	441.7	263.5	479.1
## 1989.8652	371.3	300.9	441.7	263.5	479.1
## 1989.8679	371.3	300.9	441.7	263.5	479.1
## 1989.8706	371.3	300.9	441.7	263.5	479.1
## 1989.8734	371.3	300.9	441.7	263.5	479.1
## 1989.8761	371.3	300.9	441.7	263.5	479.1
## 1989.8789	371.3	300.9	441.7	263.5	479.1
## 1989.8816	371.3	300.9	441.7	263.5	479.1
## 1989.8843	371.3	300.9	441.7	263.5	479.1
## 1989.8871	371.3	300.9	441.7	263.5	479.1
## 1989.8898	371.3	300.9	441.7	263.5	479.1
## 1989.8925	371.3	300.9	441.7	263.5	479.1
## 1989.8953	371.3	300.9	441.7	263.5	479.1
## 1989.8980	371.3	300.9	441.7	263.5	479.1
## 1989.9008	371.3	300.9	441.7	263.5	479.1
## 1989.9035	371.3	300.9	441.7	263.5	479.1
## 1989.9062	371.3	300.9	441.7	263.5	479.1
## 1989.9090	371.3	300.9	441.7	263.5	479.1
## 1989.9117	371.3	300.9	441.7	263.5	479.1
## 1989.9144	371.3	300.9	441.7	263.5	479.1
## 1989.9172	371.3	300.9	441.7	263.5	479.1
## 1989.9199	371.3	300.9	441.7	263.5	479.1
## 1989.9227	371.3	300.9	441.7	263.5	479.1
## 1989.9254	371.3	300.9	441.7	263.5	479.1
## 1989.9281	371.3	300.9	441.7	263.5	479.1
## 1989.9309	371.3	300.9	441.7	263.5	479.1
## 1989.9336	371.3	300.9	441.7	263.5	479.1
## 1989.9363	371.3	300.9	441.7	263.5	479.1
## 1989.9391	371.3	300.9	441.7	263.5	479.1
## 1989.9418	371.3	300.9	441.7	263.5	479.1
## 1989.9446	371.3	300.9	441.7	263.5	479.1
## 1989.9473	371.3	300.9	441.7	263.5	479.1
## 1989.9500	371.3	300.9	441.7	263.5	479.1
## 1989.9528	371.3	300.9	441.7	263.5	479.1
## 1989.9555	371.3	300.9	441.7	263.5	479.1
## 1989.9582	371.3	300.9	441.7	263.5	479.1
## 1989.9610	371.3	300.9	441.7	263.5	479.1
## 1989.9637	371.3	300.9	441.7	263.5	479.1
## 1989.9665	371.3	300.9	441.7	263.5	479.1
## 1989.9692	371.3	300.9	441.7	263.5	479.1
## 1989.9719	371.3	300.9	441.7	263.5	479.1
## 1989.9747	371.3	300.9	441.7	263.5	479.1
## 1989.9774	371.3	300.9	441.7	263.5	479.1
## 1989.9802	371.3	300.9	441.7	263.5	479.1
## 1989.9829	371.3	300.9	441.7	263.5	479.1
## 1989.9856	371.3	300.9	441.7	263.5	479.1
## 1989.9884	371.3	300.9	441.7	263.5	479.1
## 1989.9911	371.3	300.9	441.7	263.5	479.1
## 1989.9938	371.3	300.9	441.7	263.5	479.1
## 1989.9966	371.3	300.9	441.7	263.5	479.1

```
## 1989.9993      371.3 300.9 441.7 263.5 479.1
## 1990.0021      371.3 300.9 441.7 263.5 479.1
## 1990.0048      371.3 300.9 441.7 263.5 479.1
## 1990.0075      371.3 300.9 441.7 263.5 479.1
```

```
plot(meanFo)
```

Forecasts from Mean



```
rwff <- rwf(data_train, h=365*3, drift = T) ;rwff # Random walk with drift
```

##	Point Forecast	Lo 80	Hi 80	Lo 95	Hi 95
## 1987.0123	473.7	467.7	479.7	464.5	482.8
## 1987.0151	473.9	465.4	482.4	460.9	486.9
## 1987.0178	474.1	463.7	484.5	458.2	490.0
## 1987.0205	474.4	462.3	486.4	456.0	492.7
## 1987.0233	474.6	461.1	488.0	454.0	495.2
## 1987.0260	474.8	460.1	489.6	452.3	497.4
## 1987.0287	475.0	459.1	491.0	450.7	499.4
## 1987.0315	475.3	458.2	492.3	449.2	501.3
## 1987.0342	475.5	457.4	493.6	447.8	503.2
## 1987.0370	475.7	456.6	494.8	446.5	504.9
## 1987.0397	476.0	455.9	496.0	445.3	506.6
## 1987.0424	476.2	455.3	497.1	444.2	508.2
## 1987.0452	476.4	454.6	498.2	443.1	509.8
## 1987.0479	476.6	454.0	499.3	442.0	511.3
## 1987.0507	476.9	453.4	500.3	441.0	512.7
## 1987.0534	477.1	452.9	501.3	440.0	514.2
## 1987.0561	477.3	452.3	502.3	439.1	515.6
## 1987.0589	477.6	451.8	503.3	438.2	516.9
## 1987.0616	477.8	451.3	504.2	437.3	518.2
## 1987.0643	478.0	450.8	505.2	436.5	519.6
## 1987.0671	478.2	450.4	506.1	435.6	520.8
## 1987.0698	478.5	449.9	507.0	434.8	522.1
## 1987.0726	478.7	449.5	507.9	434.0	523.3
## 1987.0753	478.9	449.1	508.8	433.3	524.5
## 1987.0780	479.1	448.7	509.6	432.5	525.7
## 1987.0808	479.4	448.3	510.5	431.8	526.9
## 1987.0835	479.6	447.9	511.3	431.1	528.1
## 1987.0862	479.8	447.5	512.1	430.4	529.2
## 1987.0890	480.1	447.1	513.0	429.7	530.4
## 1987.0917	480.3	446.8	513.8	429.1	531.5
## 1987.0945	480.5	446.4	514.6	428.4	532.6
## 1987.0972	480.7	446.1	515.4	427.8	533.7
## 1987.0999	481.0	445.8	516.2	427.1	534.8
## 1987.1027	481.2	445.4	516.9	426.5	535.9
## 1987.1054	481.4	445.1	517.7	425.9	536.9
## 1987.1081	481.7	444.8	518.5	425.3	538.0
## 1987.1109	481.9	444.5	519.2	424.7	539.0
## 1987.1136	482.1	444.2	520.0	424.2	540.1
## 1987.1164	482.3	443.9	520.7	423.6	541.1
## 1987.1191	482.6	443.6	521.5	423.0	542.1
## 1987.1218	482.8	443.4	522.2	422.5	543.1
## 1987.1246	483.0	443.1	523.0	421.9	544.1
## 1987.1273	483.2	442.8	523.7	421.4	545.1
## 1987.1300	483.5	442.5	524.4	420.9	546.1
## 1987.1328	483.7	442.3	525.1	420.4	547.0
## 1987.1355	483.9	442.0	525.8	419.8	548.0
## 1987.1383	484.2	441.8	526.5	419.3	549.0
## 1987.1410	484.4	441.5	527.2	418.8	549.9
## 1987.1437	484.6	441.3	527.9	418.3	550.9
## 1987.1465	484.8	441.0	528.6	417.9	551.8
## 1987.1492	485.1	440.8	529.3	417.4	552.8

## 1987.1520	485.3	440.6	530.0	416.9	553.7
## 1987.1547	485.5	440.3	530.7	416.4	554.6
## 1987.1574	485.8	440.1	531.4	416.0	555.5
## 1987.1602	486.0	439.9	532.1	415.5	556.5
## 1987.1629	486.2	439.7	532.7	415.0	557.4
## 1987.1656	486.4	439.5	533.4	414.6	558.3
## 1987.1684	486.7	439.2	534.1	414.1	559.2
## 1987.1711	486.9	439.0	534.7	413.7	560.1
## 1987.1739	487.1	438.8	535.4	413.3	561.0
## 1987.1766	487.3	438.6	536.1	412.8	561.9
## 1987.1793	487.6	438.4	536.7	412.4	562.7
## 1987.1821	487.8	438.2	537.4	412.0	563.6
## 1987.1848	488.0	438.0	538.0	411.6	564.5
## 1987.1875	488.3	437.8	538.7	411.2	565.4
## 1987.1903	488.5	437.7	539.3	410.7	566.2
## 1987.1930	488.7	437.5	540.0	410.3	567.1
## 1987.1958	488.9	437.3	540.6	409.9	568.0
## 1987.1985	489.2	437.1	541.2	409.5	568.8
## 1987.2012	489.4	436.9	541.9	409.1	569.7
## 1987.2040	489.6	436.7	542.5	408.7	570.5
## 1987.2067	489.9	436.6	543.1	408.3	571.4
## 1987.2094	490.1	436.4	543.8	408.0	572.2
## 1987.2122	490.3	436.2	544.4	407.6	573.0
## 1987.2149	490.5	436.0	545.0	407.2	573.9
## 1987.2177	490.8	435.9	545.7	406.8	574.7
## 1987.2204	491.0	435.7	546.3	406.4	575.5
## 1987.2231	491.2	435.5	546.9	406.1	576.4
## 1987.2259	491.4	435.4	547.5	405.7	577.2
## 1987.2286	491.7	435.2	548.1	405.3	578.0
## 1987.2313	491.9	435.1	548.7	405.0	578.8
## 1987.2341	492.1	434.9	549.4	404.6	579.6
## 1987.2368	492.4	434.7	550.0	404.3	580.5
## 1987.2396	492.6	434.6	550.6	403.9	581.3
## 1987.2423	492.8	434.4	551.2	403.5	582.1
## 1987.2450	493.0	434.3	551.8	403.2	582.9
## 1987.2478	493.3	434.1	552.4	402.8	583.7
## 1987.2505	493.5	434.0	553.0	402.5	584.5
## 1987.2533	493.7	433.8	553.6	402.2	585.3
## 1987.2560	494.0	433.7	554.2	401.8	586.1
## 1987.2587	494.2	433.6	554.8	401.5	586.9
## 1987.2615	494.4	433.4	555.4	401.1	587.7
## 1987.2642	494.6	433.3	556.0	400.8	588.5
## 1987.2669	494.9	433.1	556.6	400.5	589.3
## 1987.2697	495.1	433.0	557.2	400.1	590.0
## 1987.2724	495.3	432.9	557.8	399.8	590.8
## 1987.2752	495.5	432.7	558.4	399.5	591.6
## 1987.2779	495.8	432.6	558.9	399.2	592.4
## 1987.2806	496.0	432.5	559.5	398.8	593.2
## 1987.2834	496.2	432.3	560.1	398.5	593.9
## 1987.2861	496.5	432.2	560.7	398.2	594.7
## 1987.2888	496.7	432.1	561.3	397.9	595.5
## 1987.2916	496.9	432.0	561.9	397.6	596.3

## 1987.2943	497.1	431.8	562.5	397.3	597.0
## 1987.2971	497.4	431.7	563.0	396.9	597.8
## 1987.2998	497.6	431.6	563.6	396.6	598.6
## 1987.3025	497.8	431.5	564.2	396.3	599.3
## 1987.3053	498.1	431.3	564.8	396.0	600.1
## 1987.3080	498.3	431.2	565.3	395.7	600.8
## 1987.3107	498.5	431.1	565.9	395.4	601.6
## 1987.3135	498.7	431.0	566.5	395.1	602.4
## 1987.3162	499.0	430.9	567.1	394.8	603.1
## 1987.3190	499.2	430.7	567.6	394.5	603.9
## 1987.3217	499.4	430.6	568.2	394.2	604.6
## 1987.3244	499.6	430.5	568.8	393.9	605.4
## 1987.3272	499.9	430.4	569.3	393.6	606.1
## 1987.3299	500.1	430.3	569.9	393.3	606.9
## 1987.3326	500.3	430.2	570.5	393.0	607.6
## 1987.3354	500.6	430.1	571.0	392.8	608.4
## 1987.3381	500.8	430.0	571.6	392.5	609.1
## 1987.3409	501.0	429.9	572.2	392.2	609.8
## 1987.3436	501.2	429.7	572.7	391.9	610.6
## 1987.3463	501.5	429.6	573.3	391.6	611.3
## 1987.3491	501.7	429.5	573.9	391.3	612.1
## 1987.3518	501.9	429.4	574.4	391.1	612.8
## 1987.3546	502.2	429.3	575.0	390.8	613.5
## 1987.3573	502.4	429.2	575.5	390.5	614.3
## 1987.3600	502.6	429.1	576.1	390.2	615.0
## 1987.3628	502.8	429.0	576.7	389.9	615.7
## 1987.3655	503.1	428.9	577.2	389.7	616.5
## 1987.3682	503.3	428.8	577.8	389.4	617.2
## 1987.3710	503.5	428.7	578.3	389.1	617.9
## 1987.3737	503.7	428.6	578.9	388.8	618.6
## 1987.3765	504.0	428.5	579.4	388.6	619.4
## 1987.3792	504.2	428.4	580.0	388.3	620.1
## 1987.3819	504.4	428.3	580.5	388.0	620.8
## 1987.3847	504.7	428.2	581.1	387.8	621.5
## 1987.3874	504.9	428.1	581.6	387.5	622.3
## 1987.3901	505.1	428.0	582.2	387.2	623.0
## 1987.3929	505.3	428.0	582.7	387.0	623.7
## 1987.3956	505.6	427.9	583.3	386.7	624.4
## 1987.3984	505.8	427.8	583.8	386.5	625.1
## 1987.4011	506.0	427.7	584.4	386.2	625.8
## 1987.4038	506.3	427.6	584.9	385.9	626.6
## 1987.4066	506.5	427.5	585.5	385.7	627.3
## 1987.4093	506.7	427.4	586.0	385.4	628.0
## 1987.4120	506.9	427.3	586.6	385.2	628.7
## 1987.4148	507.2	427.2	587.1	384.9	629.4
## 1987.4175	507.4	427.1	587.6	384.7	630.1
## 1987.4203	507.6	427.1	588.2	384.4	630.8
## 1987.4230	507.8	427.0	588.7	384.2	631.5
## 1987.4257	508.1	426.9	589.3	383.9	632.2
## 1987.4285	508.3	426.8	589.8	383.7	633.0
## 1987.4312	508.5	426.7	590.3	383.4	633.7
## 1987.4339	508.8	426.6	590.9	383.2	634.4

## 1987.4367	509.0	426.5	591.4	382.9	635.1
## 1987.4394	509.2	426.5	592.0	382.7	635.8
## 1987.4422	509.4	426.4	592.5	382.4	636.5
## 1987.4449	509.7	426.3	593.0	382.2	637.2
## 1987.4476	509.9	426.2	593.6	381.9	637.9
## 1987.4504	510.1	426.1	594.1	381.7	638.6
## 1987.4531	510.4	426.1	594.6	381.4	639.3
## 1987.4559	510.6	426.0	595.2	381.2	640.0
## 1987.4586	510.8	425.9	595.7	381.0	640.7
## 1987.4613	511.0	425.8	596.2	380.7	641.4
## 1987.4641	511.3	425.7	596.8	380.5	642.0
## 1987.4668	511.5	425.7	597.3	380.2	642.7
## 1987.4695	511.7	425.6	597.8	380.0	643.4
## 1987.4723	511.9	425.5	598.4	379.8	644.1
## 1987.4750	512.2	425.4	598.9	379.5	644.8
## 1987.4778	512.4	425.4	599.4	379.3	645.5
## 1987.4805	512.6	425.3	600.0	379.1	646.2
## 1987.4832	512.9	425.2	600.5	378.8	646.9
## 1987.4860	513.1	425.1	601.0	378.6	647.6
## 1987.4887	513.3	425.1	601.6	378.4	648.3
## 1987.4914	513.5	425.0	602.1	378.1	649.0
## 1987.4942	513.8	424.9	602.6	377.9	649.6
## 1987.4969	514.0	424.9	603.1	377.7	650.3
## 1987.4997	514.2	424.8	603.7	377.4	651.0
## 1987.5024	514.5	424.7	604.2	377.2	651.7
## 1987.5051	514.7	424.6	604.7	377.0	652.4
## 1987.5079	514.9	424.6	605.2	376.8	653.1
## 1987.5106	515.1	424.5	605.8	376.5	653.7
## 1987.5133	515.4	424.4	606.3	376.3	654.4
## 1987.5161	515.6	424.4	606.8	376.1	655.1
## 1987.5188	515.8	424.3	607.3	375.8	655.8
## 1987.5216	516.0	424.2	607.9	375.6	656.5
## 1987.5243	516.3	424.2	608.4	375.4	657.1
## 1987.5270	516.5	424.1	608.9	375.2	657.8
## 1987.5298	516.7	424.0	609.4	375.0	658.5
## 1987.5325	517.0	424.0	610.0	374.7	659.2
## 1987.5352	517.2	423.9	610.5	374.5	659.9
## 1987.5380	517.4	423.8	611.0	374.3	660.5
## 1987.5407	517.6	423.8	611.5	374.1	661.2
## 1987.5435	517.9	423.7	612.0	373.9	661.9
## 1987.5462	518.1	423.6	612.6	373.6	662.6
## 1987.5489	518.3	423.6	613.1	373.4	663.2
## 1987.5517	518.6	423.5	613.6	373.2	663.9
## 1987.5544	518.8	423.4	614.1	373.0	664.6
## 1987.5572	519.0	423.4	614.6	372.8	665.3
## 1987.5599	519.2	423.3	615.2	372.5	665.9
## 1987.5626	519.5	423.3	615.7	372.3	666.6
## 1987.5654	519.7	423.2	616.2	372.1	667.3
## 1987.5681	519.9	423.1	616.7	371.9	667.9
## 1987.5708	520.1	423.1	617.2	371.7	668.6
## 1987.5736	520.4	423.0	617.7	371.5	669.3
## 1987.5763	520.6	423.0	618.3	371.3	669.9

## 1987.5791	520.8	422.9	618.8	371.1	670.6
## 1987.5818	521.1	422.8	619.3	370.8	671.3
## 1987.5845	521.3	422.8	619.8	370.6	671.9
## 1987.5873	521.5	422.7	620.3	370.4	672.6
## 1987.5900	521.7	422.7	620.8	370.2	673.3
## 1987.5927	522.0	422.6	621.3	370.0	673.9
## 1987.5955	522.2	422.5	621.9	369.8	674.6
## 1987.5982	522.4	422.5	622.4	369.6	675.3
## 1987.6010	522.7	422.4	622.9	369.4	675.9
## 1987.6037	522.9	422.4	623.4	369.2	676.6
## 1987.6064	523.1	422.3	623.9	369.0	677.3
## 1987.6092	523.3	422.3	624.4	368.8	677.9
## 1987.6119	523.6	422.2	624.9	368.5	678.6
## 1987.6146	523.8	422.1	625.4	368.3	679.2
## 1987.6174	524.0	422.1	625.9	368.1	679.9
## 1987.6201	524.2	422.0	626.5	367.9	680.6
## 1987.6229	524.5	422.0	627.0	367.7	681.2
## 1987.6256	524.7	421.9	627.5	367.5	681.9
## 1987.6283	524.9	421.9	628.0	367.3	682.5
## 1987.6311	525.2	421.8	628.5	367.1	683.2
## 1987.6338	525.4	421.8	629.0	366.9	683.9
## 1987.6366	525.6	421.7	629.5	366.7	684.5
## 1987.6393	525.8	421.7	630.0	366.5	685.2
## 1987.6420	526.1	421.6	630.5	366.3	685.8
## 1987.6448	526.3	421.6	631.0	366.1	686.5
## 1987.6475	526.5	421.5	631.5	365.9	687.1
## 1987.6502	526.8	421.5	632.1	365.7	687.8
## 1987.6530	527.0	421.4	632.6	365.5	688.5
## 1987.6557	527.2	421.4	633.1	365.3	689.1
## 1987.6585	527.4	421.3	633.6	365.1	689.8
## 1987.6612	527.7	421.2	634.1	364.9	690.4
## 1987.6639	527.9	421.2	634.6	364.7	691.1
## 1987.6667	528.1	421.1	635.1	364.5	691.7
## 1987.6694	528.3	421.1	635.6	364.3	692.4
## 1987.6721	528.6	421.0	636.1	364.1	693.0
## 1987.6749	528.8	421.0	636.6	363.9	693.7
## 1987.6776	529.0	420.9	637.1	363.7	694.3
## 1987.6804	529.3	420.9	637.6	363.5	695.0
## 1987.6831	529.5	420.9	638.1	363.3	695.6
## 1987.6858	529.7	420.8	638.6	363.1	696.3
## 1987.6886	529.9	420.8	639.1	363.0	696.9
## 1987.6913	530.2	420.7	639.6	362.8	697.6
## 1987.6940	530.4	420.7	640.1	362.6	698.2
## 1987.6968	530.6	420.6	640.6	362.4	698.9
## 1987.6995	530.9	420.6	641.1	362.2	699.5
## 1987.7023	531.1	420.5	641.6	362.0	700.2
## 1987.7050	531.3	420.5	642.1	361.8	700.8
## 1987.7077	531.5	420.4	642.6	361.6	701.5
## 1987.7105	531.8	420.4	643.2	361.4	702.1
## 1987.7132	532.0	420.3	643.7	361.2	702.8
## 1987.7159	532.2	420.3	644.2	361.0	703.4
## 1987.7187	532.4	420.2	644.7	360.8	704.1

## 1987.7214	532.7	420.2	645.2	360.7	704.7
## 1987.7242	532.9	420.2	645.7	360.5	705.3
## 1987.7269	533.1	420.1	646.2	360.3	706.0
## 1987.7296	533.4	420.1	646.7	360.1	706.6
## 1987.7324	533.6	420.0	647.2	359.9	707.3
## 1987.7351	533.8	420.0	647.7	359.7	707.9
## 1987.7379	534.0	419.9	648.2	359.5	708.6
## 1987.7406	534.3	419.9	648.7	359.3	709.2
## 1987.7433	534.5	419.8	649.2	359.1	709.8
## 1987.7461	534.7	419.8	649.7	359.0	710.5
## 1987.7488	535.0	419.8	650.2	358.8	711.1
## 1987.7515	535.2	419.7	650.6	358.6	711.8
## 1987.7543	535.4	419.7	651.1	358.4	712.4
## 1987.7570	535.6	419.6	651.6	358.2	713.1
## 1987.7598	535.9	419.6	652.1	358.0	713.7
## 1987.7625	536.1	419.5	652.6	357.8	714.3
## 1987.7652	536.3	419.5	653.1	357.7	715.0
## 1987.7680	536.5	419.5	653.6	357.5	715.6
## 1987.7707	536.8	419.4	654.1	357.3	716.3
## 1987.7734	537.0	419.4	654.6	357.1	716.9
## 1987.7762	537.2	419.3	655.1	356.9	717.5
## 1987.7789	537.5	419.3	655.6	356.7	718.2
## 1987.7817	537.7	419.3	656.1	356.6	718.8
## 1987.7844	537.9	419.2	656.6	356.4	719.5
## 1987.7871	538.1	419.2	657.1	356.2	720.1
## 1987.7899	538.4	419.1	657.6	356.0	720.7
## 1987.7926	538.6	419.1	658.1	355.8	721.4
## 1987.7953	538.8	419.1	658.6	355.7	722.0
## 1987.7981	539.1	419.0	659.1	355.5	722.6
## 1987.8008	539.3	419.0	659.6	355.3	723.3
## 1987.8036	539.5	418.9	660.1	355.1	723.9
## 1987.8063	539.7	418.9	660.6	354.9	724.5
## 1987.8090	540.0	418.9	661.1	354.8	725.2
## 1987.8118	540.2	418.8	661.6	354.6	725.8
## 1987.8145	540.4	418.8	662.1	354.4	726.5
## 1987.8172	540.6	418.7	662.6	354.2	727.1
## 1987.8200	540.9	418.7	663.0	354.0	727.7
## 1987.8227	541.1	418.7	663.5	353.9	728.4
## 1987.8255	541.3	418.6	664.0	353.7	729.0
## 1987.8282	541.6	418.6	664.5	353.5	729.6
## 1987.8309	541.8	418.6	665.0	353.3	730.3
## 1987.8337	542.0	418.5	665.5	353.1	730.9
## 1987.8364	542.2	418.5	666.0	353.0	731.5
## 1987.8392	542.5	418.4	666.5	352.8	732.2
## 1987.8419	542.7	418.4	667.0	352.6	732.8
## 1987.8446	542.9	418.4	667.5	352.4	733.4
## 1987.8474	543.2	418.3	668.0	352.3	734.0
## 1987.8501	543.4	418.3	668.5	352.1	734.7
## 1987.8528	543.6	418.3	669.0	351.9	735.3
## 1987.8556	543.8	418.2	669.4	351.7	735.9
## 1987.8583	544.1	418.2	669.9	351.6	736.6
## 1987.8611	544.3	418.2	670.4	351.4	737.2

## 1987.8638	544.5	418.1	670.9	351.2	737.8
## 1987.8665	544.7	418.1	671.4	351.0	738.5
## 1987.8693	545.0	418.1	671.9	350.9	739.1
## 1987.8720	545.2	418.0	672.4	350.7	739.7
## 1987.8747	545.4	418.0	672.9	350.5	740.4
## 1987.8775	545.7	417.9	673.4	350.3	741.0
## 1987.8802	545.9	417.9	673.9	350.2	741.6
## 1987.8830	546.1	417.9	674.4	350.0	742.2
## 1987.8857	546.3	417.8	674.8	349.8	742.9
## 1987.8884	546.6	417.8	675.3	349.6	743.5
## 1987.8912	546.8	417.8	675.8	349.5	744.1
## 1987.8939	547.0	417.7	676.3	349.3	744.7
## 1987.8966	547.3	417.7	676.8	349.1	745.4
## 1987.8994	547.5	417.7	677.3	349.0	746.0
## 1987.9021	547.7	417.6	677.8	348.8	746.6
## 1987.9049	547.9	417.6	678.3	348.6	747.3
## 1987.9076	548.2	417.6	678.8	348.4	747.9
## 1987.9103	548.4	417.5	679.2	348.3	748.5
## 1987.9131	548.6	417.5	679.7	348.1	749.1
## 1987.9158	548.8	417.5	680.2	347.9	749.8
## 1987.9185	549.1	417.4	680.7	347.8	750.4
## 1987.9213	549.3	417.4	681.2	347.6	751.0
## 1987.9240	549.5	417.4	681.7	347.4	751.6
## 1987.9268	549.8	417.4	682.2	347.3	752.3
## 1987.9295	550.0	417.3	682.7	347.1	752.9
## 1987.9322	550.2	417.3	683.1	346.9	753.5
## 1987.9350	550.4	417.3	683.6	346.8	754.1
## 1987.9377	550.7	417.2	684.1	346.6	754.8
## 1987.9405	550.9	417.2	684.6	346.4	755.4
## 1987.9432	551.1	417.2	685.1	346.2	756.0
## 1987.9459	551.4	417.1	685.6	346.1	756.6
## 1987.9487	551.6	417.1	686.1	345.9	757.3
## 1987.9514	551.8	417.1	686.6	345.7	757.9
## 1987.9541	552.0	417.0	687.0	345.6	758.5
## 1987.9569	552.3	417.0	687.5	345.4	759.1
## 1987.9596	552.5	417.0	688.0	345.2	759.7
## 1987.9624	552.7	416.9	688.5	345.1	760.4
## 1987.9651	552.9	416.9	689.0	344.9	761.0
## 1987.9678	553.2	416.9	689.5	344.7	761.6
## 1987.9706	553.4	416.9	690.0	344.6	762.2
## 1987.9733	553.6	416.8	690.4	344.4	762.9
## 1987.9760	553.9	416.8	690.9	344.2	763.5
## 1987.9788	554.1	416.8	691.4	344.1	764.1
## 1987.9815	554.3	416.7	691.9	343.9	764.7
## 1987.9843	554.5	416.7	692.4	343.7	765.3
## 1987.9870	554.8	416.7	692.9	343.6	766.0
## 1987.9897	555.0	416.7	693.3	343.4	766.6
## 1987.9925	555.2	416.6	693.8	343.3	767.2
## 1987.9952	555.5	416.6	694.3	343.1	767.8
## 1987.9979	555.7	416.6	694.8	342.9	768.4
## 1988.0007	555.9	416.5	695.3	342.8	769.1
## 1988.0034	556.1	416.5	695.8	342.6	769.7

## 1988.0062	556.4	416.5	696.2	342.4	770.3
## 1988.0089	556.6	416.5	696.7	342.3	770.9
## 1988.0116	556.8	416.4	697.2	342.1	771.5
## 1988.0144	557.1	416.4	697.7	341.9	772.2
## 1988.0171	557.3	416.4	698.2	341.8	772.8
## 1988.0198	557.5	416.3	698.7	341.6	773.4
## 1988.0226	557.7	416.3	699.1	341.5	774.0
## 1988.0253	558.0	416.3	699.6	341.3	774.6
## 1988.0281	558.2	416.3	700.1	341.1	775.2
## 1988.0308	558.4	416.2	700.6	341.0	775.9
## 1988.0335	558.6	416.2	701.1	340.8	776.5
## 1988.0363	558.9	416.2	701.6	340.6	777.1
## 1988.0390	559.1	416.2	702.0	340.5	777.7
## 1988.0418	559.3	416.1	702.5	340.3	778.3
## 1988.0445	559.6	416.1	703.0	340.2	778.9
## 1988.0472	559.8	416.1	703.5	340.0	779.6
## 1988.0500	560.0	416.0	704.0	339.8	780.2
## 1988.0527	560.2	416.0	704.5	339.7	780.8
## 1988.0554	560.5	416.0	704.9	339.5	781.4
## 1988.0582	560.7	416.0	705.4	339.4	782.0
## 1988.0609	560.9	415.9	705.9	339.2	782.6
## 1988.0637	561.2	415.9	706.4	339.0	783.3
## 1988.0664	561.4	415.9	706.9	338.9	783.9
## 1988.0691	561.6	415.9	707.3	338.7	784.5
## 1988.0719	561.8	415.8	707.8	338.6	785.1
## 1988.0746	562.1	415.8	708.3	338.4	785.7
## 1988.0773	562.3	415.8	708.8	338.2	786.3
## 1988.0801	562.5	415.8	709.3	338.1	787.0
## 1988.0828	562.7	415.7	709.7	337.9	787.6
## 1988.0856	563.0	415.7	710.2	337.8	788.2
## 1988.0883	563.2	415.7	710.7	337.6	788.8
## 1988.0910	563.4	415.7	711.2	337.4	789.4
## 1988.0938	563.7	415.6	711.7	337.3	790.0
## 1988.0965	563.9	415.6	712.2	337.1	790.6
## 1988.0992	564.1	415.6	712.6	337.0	791.3
## 1988.1020	564.3	415.6	713.1	336.8	791.9
## 1988.1047	564.6	415.5	713.6	336.7	792.5
## 1988.1075	564.8	415.5	714.1	336.5	793.1
## 1988.1102	565.0	415.5	714.6	336.3	793.7
## 1988.1129	565.3	415.5	715.0	336.2	794.3
## 1988.1157	565.5	415.4	715.5	336.0	794.9
## 1988.1184	565.7	415.4	716.0	335.9	795.5
## 1988.1211	565.9	415.4	716.5	335.7	796.2
## 1988.1239	566.2	415.4	716.9	335.6	796.8
## 1988.1266	566.4	415.4	717.4	335.4	797.4
## 1988.1294	566.6	415.3	717.9	335.2	798.0
## 1988.1321	566.8	415.3	718.4	335.1	798.6
## 1988.1348	567.1	415.3	718.9	334.9	799.2
## 1988.1376	567.3	415.3	719.3	334.8	799.8
## 1988.1403	567.5	415.2	719.8	334.6	800.4
## 1988.1431	567.8	415.2	720.3	334.5	801.1
## 1988.1458	568.0	415.2	720.8	334.3	801.7

## 1988.1485	568.2	415.2	721.3	334.2	802.3
## 1988.1513	568.4	415.1	721.7	334.0	802.9
## 1988.1540	568.7	415.1	722.2	333.8	803.5
## 1988.1567	568.9	415.1	722.7	333.7	804.1
## 1988.1595	569.1	415.1	723.2	333.5	804.7
## 1988.1622	569.4	415.1	723.6	333.4	805.3
## 1988.1650	569.6	415.0	724.1	333.2	805.9
## 1988.1677	569.8	415.0	724.6	333.1	806.5
## 1988.1704	570.0	415.0	725.1	332.9	807.2
## 1988.1732	570.3	415.0	725.6	332.8	807.8
## 1988.1759	570.5	414.9	726.0	332.6	808.4
## 1988.1786	570.7	414.9	726.5	332.4	809.0
## 1988.1814	570.9	414.9	727.0	332.3	809.6
## 1988.1841	571.2	414.9	727.5	332.1	810.2
## 1988.1869	571.4	414.9	727.9	332.0	810.8
## 1988.1896	571.6	414.8	728.4	331.8	811.4
## 1988.1923	571.9	414.8	728.9	331.7	812.0
## 1988.1951	572.1	414.8	729.4	331.5	812.6
## 1988.1978	572.3	414.8	729.9	331.4	813.2
## 1988.2005	572.5	414.8	730.3	331.2	813.9
## 1988.2033	572.8	414.7	730.8	331.1	814.5
## 1988.2060	573.0	414.7	731.3	330.9	815.1
## 1988.2088	573.2	414.7	731.8	330.8	815.7
## 1988.2115	573.5	414.7	732.2	330.6	816.3
## 1988.2142	573.7	414.6	732.7	330.5	816.9
## 1988.2170	573.9	414.6	733.2	330.3	817.5
## 1988.2197	574.1	414.6	733.7	330.2	818.1
## 1988.2225	574.4	414.6	734.1	330.0	818.7
## 1988.2252	574.6	414.6	734.6	329.9	819.3
## 1988.2279	574.8	414.5	735.1	329.7	819.9
## 1988.2307	575.0	414.5	735.6	329.5	820.5
## 1988.2334	575.3	414.5	736.0	329.4	821.1
## 1988.2361	575.5	414.5	736.5	329.2	821.8
## 1988.2389	575.7	414.5	737.0	329.1	822.4
## 1988.2416	576.0	414.4	737.5	328.9	823.0
## 1988.2444	576.2	414.4	737.9	328.8	823.6
## 1988.2471	576.4	414.4	738.4	328.6	824.2
## 1988.2498	576.6	414.4	738.9	328.5	824.8
## 1988.2526	576.9	414.4	739.4	328.3	825.4
## 1988.2553	577.1	414.3	739.8	328.2	826.0
## 1988.2580	577.3	414.3	740.3	328.0	826.6
## 1988.2608	577.6	414.3	740.8	327.9	827.2
## 1988.2635	577.8	414.3	741.3	327.7	827.8
## 1988.2663	578.0	414.3	741.7	327.6	828.4
## 1988.2690	578.2	414.2	742.2	327.4	829.0
## 1988.2717	578.5	414.2	742.7	327.3	829.6
## 1988.2745	578.7	414.2	743.2	327.1	830.2
## 1988.2772	578.9	414.2	743.6	327.0	830.8
## 1988.2799	579.1	414.2	744.1	326.8	831.5
## 1988.2827	579.4	414.2	744.6	326.7	832.1
## 1988.2854	579.6	414.1	745.1	326.5	832.7
## 1988.2882	579.8	414.1	745.5	326.4	833.3

## 1988.2909	580.1	414.1	746.0	326.2	833.9
## 1988.2936	580.3	414.1	746.5	326.1	834.5
## 1988.2964	580.5	414.1	747.0	325.9	835.1
## 1988.2991	580.7	414.0	747.4	325.8	835.7
## 1988.3018	581.0	414.0	747.9	325.6	836.3
## 1988.3046	581.2	414.0	748.4	325.5	836.9
## 1988.3073	581.4	414.0	748.9	325.4	837.5
## 1988.3101	581.7	414.0	749.3	325.2	838.1
## 1988.3128	581.9	413.9	749.8	325.1	838.7
## 1988.3155	582.1	413.9	750.3	324.9	839.3
## 1988.3183	582.3	413.9	750.8	324.8	839.9
## 1988.3210	582.6	413.9	751.2	324.6	840.5
## 1988.3238	582.8	413.9	751.7	324.5	841.1
## 1988.3265	583.0	413.9	752.2	324.3	841.7
## 1988.3292	583.2	413.8	752.6	324.2	842.3
## 1988.3320	583.5	413.8	753.1	324.0	842.9
## 1988.3347	583.7	413.8	753.6	323.9	843.5
## 1988.3374	583.9	413.8	754.1	323.7	844.1
## 1988.3402	584.2	413.8	754.5	323.6	844.7
## 1988.3429	584.4	413.8	755.0	323.4	845.3
## 1988.3457	584.6	413.7	755.5	323.3	845.9
## 1988.3484	584.8	413.7	756.0	323.1	846.5
## 1988.3511	585.1	413.7	756.4	323.0	847.1
## 1988.3539	585.3	413.7	756.9	322.8	847.8
## 1988.3566	585.5	413.7	757.4	322.7	848.4
## 1988.3593	585.8	413.7	757.9	322.5	849.0
## 1988.3621	586.0	413.6	758.3	322.4	849.6
## 1988.3648	586.2	413.6	758.8	322.3	850.2
## 1988.3676	586.4	413.6	759.3	322.1	850.8
## 1988.3703	586.7	413.6	759.7	322.0	851.4
## 1988.3730	586.9	413.6	760.2	321.8	852.0
## 1988.3758	587.1	413.6	760.7	321.7	852.6
## 1988.3785	587.3	413.5	761.2	321.5	853.2
## 1988.3812	587.6	413.5	761.6	321.4	853.8
## 1988.3840	587.8	413.5	762.1	321.2	854.4
## 1988.3867	588.0	413.5	762.6	321.1	855.0
## 1988.3895	588.3	413.5	763.0	320.9	855.6
## 1988.3922	588.5	413.5	763.5	320.8	856.2
## 1988.3949	588.7	413.4	764.0	320.7	856.8
## 1988.3977	588.9	413.4	764.5	320.5	857.4
## 1988.4004	589.2	413.4	764.9	320.4	858.0
## 1988.4031	589.4	413.4	765.4	320.2	858.6
## 1988.4059	589.6	413.4	765.9	320.1	859.2
## 1988.4086	589.9	413.4	766.3	319.9	859.8
## 1988.4114	590.1	413.3	766.8	319.8	860.4
## 1988.4141	590.3	413.3	767.3	319.6	861.0
## 1988.4168	590.5	413.3	767.8	319.5	861.6
## 1988.4196	590.8	413.3	768.2	319.3	862.2
## 1988.4223	591.0	413.3	768.7	319.2	862.8
## 1988.4251	591.2	413.3	769.2	319.1	863.4
## 1988.4278	591.4	413.2	769.6	318.9	864.0
## 1988.4305	591.7	413.2	770.1	318.8	864.6

## 1988.4333	591.9	413.2	770.6	318.6	865.2
## 1988.4360	592.1	413.2	771.1	318.5	865.8
## 1988.4387	592.4	413.2	771.5	318.3	866.4
## 1988.4415	592.6	413.2	772.0	318.2	867.0
## 1988.4442	592.8	413.2	772.5	318.1	867.6
## 1988.4470	593.0	413.1	772.9	317.9	868.2
## 1988.4497	593.3	413.1	773.4	317.8	868.8
## 1988.4524	593.5	413.1	773.9	317.6	869.4
## 1988.4552	593.7	413.1	774.4	317.5	870.0
## 1988.4579	594.0	413.1	774.8	317.3	870.6
## 1988.4606	594.2	413.1	775.3	317.2	871.2
## 1988.4634	594.4	413.1	775.8	317.0	871.8
## 1988.4661	594.6	413.0	776.2	316.9	872.4
## 1988.4689	594.9	413.0	776.7	316.8	873.0
## 1988.4716	595.1	413.0	777.2	316.6	873.6
## 1988.4743	595.3	413.0	777.6	316.5	874.2
## 1988.4771	595.5	413.0	778.1	316.3	874.8
## 1988.4798	595.8	413.0	778.6	316.2	875.4
## 1988.4825	596.0	413.0	779.1	316.0	876.0
## 1988.4853	596.2	412.9	779.5	315.9	876.6
## 1988.4880	596.5	412.9	780.0	315.8	877.2
## 1988.4908	596.7	412.9	780.5	315.6	877.8
## 1988.4935	596.9	412.9	780.9	315.5	878.3
## 1988.4962	597.1	412.9	781.4	315.3	878.9
## 1988.4990	597.4	412.9	781.9	315.2	879.5
## 1988.5017	597.6	412.9	782.3	315.1	880.1
## 1988.5044	597.8	412.8	782.8	314.9	880.7
## 1988.5072	598.1	412.8	783.3	314.8	881.3
## 1988.5099	598.3	412.8	783.8	314.6	881.9
## 1988.5127	598.5	412.8	784.2	314.5	882.5
## 1988.5154	598.7	412.8	784.7	314.3	883.1
## 1988.5181	599.0	412.8	785.2	314.2	883.7
## 1988.5209	599.2	412.8	785.6	314.1	884.3
## 1988.5236	599.4	412.7	786.1	313.9	884.9
## 1988.5264	599.6	412.7	786.6	313.8	885.5
## 1988.5291	599.9	412.7	787.0	313.6	886.1
## 1988.5318	600.1	412.7	787.5	313.5	886.7
## 1988.5346	600.3	412.7	788.0	313.4	887.3
## 1988.5373	600.6	412.7	788.4	313.2	887.9
## 1988.5400	600.8	412.7	788.9	313.1	888.5
## 1988.5428	601.0	412.6	789.4	312.9	889.1
## 1988.5455	601.2	412.6	789.8	312.8	889.7
## 1988.5483	601.5	412.6	790.3	312.7	890.3
## 1988.5510	601.7	412.6	790.8	312.5	890.9
## 1988.5537	601.9	412.6	791.3	312.4	891.5
## 1988.5565	602.2	412.6	791.7	312.2	892.1
## 1988.5592	602.4	412.6	792.2	312.1	892.7
## 1988.5619	602.6	412.6	792.7	311.9	893.3
## 1988.5647	602.8	412.5	793.1	311.8	893.9
## 1988.5674	603.1	412.5	793.6	311.7	894.5
## 1988.5702	603.3	412.5	794.1	311.5	895.1
## 1988.5729	603.5	412.5	794.5	311.4	895.7

## 1988.5756	603.7	412.5	795.0	311.2	896.2
## 1988.5784	604.0	412.5	795.5	311.1	896.8
## 1988.5811	604.2	412.5	795.9	311.0	897.4
## 1988.5838	604.4	412.5	796.4	310.8	898.0
## 1988.5866	604.7	412.4	796.9	310.7	898.6
## 1988.5893	604.9	412.4	797.3	310.5	899.2
## 1988.5921	605.1	412.4	797.8	310.4	899.8
## 1988.5948	605.3	412.4	798.3	310.3	900.4
## 1988.5975	605.6	412.4	798.7	310.1	901.0
## 1988.6003	605.8	412.4	799.2	310.0	901.6
## 1988.6030	606.0	412.4	799.7	309.9	902.2
## 1988.6057	606.3	412.4	800.2	309.7	902.8
## 1988.6085	606.5	412.3	800.6	309.6	903.4
## 1988.6112	606.7	412.3	801.1	309.4	904.0
## 1988.6140	606.9	412.3	801.6	309.3	904.6
## 1988.6167	607.2	412.3	802.0	309.2	905.2
## 1988.6194	607.4	412.3	802.5	309.0	905.8
## 1988.6222	607.6	412.3	803.0	308.9	906.4
## 1988.6249	607.8	412.3	803.4	308.7	907.0
## 1988.6277	608.1	412.3	803.9	308.6	907.6
## 1988.6304	608.3	412.2	804.4	308.5	908.1
## 1988.6331	608.5	412.2	804.8	308.3	908.7
## 1988.6359	608.8	412.2	805.3	308.2	909.3
## 1988.6386	609.0	412.2	805.8	308.0	909.9
## 1988.6413	609.2	412.2	806.2	307.9	910.5
## 1988.6441	609.4	412.2	806.7	307.8	911.1
## 1988.6468	609.7	412.2	807.2	307.6	911.7
## 1988.6496	609.9	412.2	807.6	307.5	912.3
## 1988.6523	610.1	412.2	808.1	307.4	912.9
## 1988.6550	610.4	412.1	808.6	307.2	913.5
## 1988.6578	610.6	412.1	809.0	307.1	914.1
## 1988.6605	610.8	412.1	809.5	306.9	914.7
## 1988.6632	611.0	412.1	810.0	306.8	915.3
## 1988.6660	611.3	412.1	810.4	306.7	915.9
## 1988.6687	611.5	412.1	810.9	306.5	916.5
## 1988.6715	611.7	412.1	811.4	306.4	917.0
## 1988.6742	611.9	412.1	811.8	306.3	917.6
## 1988.6769	612.2	412.1	812.3	306.1	918.2
## 1988.6797	612.4	412.0	812.8	306.0	918.8
## 1988.6824	612.6	412.0	813.2	305.8	919.4
## 1988.6851	612.9	412.0	813.7	305.7	920.0
## 1988.6879	613.1	412.0	814.2	305.6	920.6
## 1988.6906	613.3	412.0	814.6	305.4	921.2
## 1988.6934	613.5	412.0	815.1	305.3	921.8
## 1988.6961	613.8	412.0	815.6	305.2	922.4
## 1988.6988	614.0	412.0	816.0	305.0	923.0
## 1988.7016	614.2	412.0	816.5	304.9	923.6
## 1988.7043	614.5	411.9	817.0	304.7	924.2
## 1988.7070	614.7	411.9	817.4	304.6	924.8
## 1988.7098	614.9	411.9	817.9	304.5	925.3
## 1988.7125	615.1	411.9	818.4	304.3	925.9
## 1988.7153	615.4	411.9	818.8	304.2	926.5

## 1988.7180	615.6	411.9	819.3	304.1	927.1
## 1988.7207	615.8	411.9	819.8	303.9	927.7
## 1988.7235	616.0	411.9	820.2	303.8	928.3
## 1988.7262	616.3	411.9	820.7	303.6	928.9
## 1988.7290	616.5	411.9	821.2	303.5	929.5
## 1988.7317	616.7	411.8	821.6	303.4	930.1
## 1988.7344	617.0	411.8	822.1	303.2	930.7
## 1988.7372	617.2	411.8	822.6	303.1	931.3
## 1988.7399	617.4	411.8	823.0	303.0	931.9
## 1988.7426	617.6	411.8	823.5	302.8	932.5
## 1988.7454	617.9	411.8	824.0	302.7	933.0
## 1988.7481	618.1	411.8	824.4	302.6	933.6
## 1988.7509	618.3	411.8	824.9	302.4	934.2
## 1988.7536	618.6	411.8	825.3	302.3	934.8
## 1988.7563	618.8	411.7	825.8	302.2	935.4
## 1988.7591	619.0	411.7	826.3	302.0	936.0
## 1988.7618	619.2	411.7	826.7	301.9	936.6
## 1988.7645	619.5	411.7	827.2	301.7	937.2
## 1988.7673	619.7	411.7	827.7	301.6	937.8
## 1988.7700	619.9	411.7	828.1	301.5	938.4
## 1988.7728	620.1	411.7	828.6	301.3	939.0
## 1988.7755	620.4	411.7	829.1	301.2	939.5
## 1988.7782	620.6	411.7	829.5	301.1	940.1
## 1988.7810	620.8	411.7	830.0	300.9	940.7
## 1988.7837	621.1	411.7	830.5	300.8	941.3
## 1988.7864	621.3	411.6	830.9	300.7	941.9
## 1988.7892	621.5	411.6	831.4	300.5	942.5
## 1988.7919	621.7	411.6	831.9	300.4	943.1
## 1988.7947	622.0	411.6	832.3	300.3	943.7
## 1988.7974	622.2	411.6	832.8	300.1	944.3
## 1988.8001	622.4	411.6	833.3	300.0	944.9
## 1988.8029	622.7	411.6	833.7	299.9	945.5
## 1988.8056	622.9	411.6	834.2	299.7	946.0
## 1988.8084	623.1	411.6	834.7	299.6	946.6
## 1988.8111	623.3	411.6	835.1	299.4	947.2
## 1988.8138	623.6	411.5	835.6	299.3	947.8
## 1988.8166	623.8	411.5	836.0	299.2	948.4
## 1988.8193	624.0	411.5	836.5	299.0	949.0
## 1988.8220	624.2	411.5	837.0	298.9	949.6
## 1988.8248	624.5	411.5	837.4	298.8	950.2
## 1988.8275	624.7	411.5	837.9	298.6	950.8
## 1988.8303	624.9	411.5	838.4	298.5	951.4
## 1988.8330	625.2	411.5	838.8	298.4	951.9
## 1988.8357	625.4	411.5	839.3	298.2	952.5
## 1988.8385	625.6	411.5	839.8	298.1	953.1
## 1988.8412	625.8	411.5	840.2	298.0	953.7
## 1988.8439	626.1	411.4	840.7	297.8	954.3
## 1988.8467	626.3	411.4	841.2	297.7	954.9
## 1988.8494	626.5	411.4	841.6	297.6	955.5
## 1988.8522	626.8	411.4	842.1	297.4	956.1
## 1988.8549	627.0	411.4	842.6	297.3	956.7
## 1988.8576	627.2	411.4	843.0	297.2	957.3

## 1988.8604	627.4	411.4	843.5	297.0	957.8
## 1988.8631	627.7	411.4	843.9	296.9	958.4
## 1988.8658	627.9	411.4	844.4	296.8	959.0
## 1988.8686	628.1	411.4	844.9	296.6	959.6
## 1988.8713	628.3	411.4	845.3	296.5	960.2
## 1988.8741	628.6	411.4	845.8	296.4	960.8
## 1988.8768	628.8	411.3	846.3	296.2	961.4
## 1988.8795	629.0	411.3	846.7	296.1	962.0
## 1988.8823	629.3	411.3	847.2	296.0	962.6
## 1988.8850	629.5	411.3	847.7	295.8	963.1
## 1988.8877	629.7	411.3	848.1	295.7	963.7
## 1988.8905	629.9	411.3	848.6	295.6	964.3
## 1988.8932	630.2	411.3	849.0	295.4	964.9
## 1988.8960	630.4	411.3	849.5	295.3	965.5
## 1988.8987	630.6	411.3	850.0	295.2	966.1
## 1988.9014	630.9	411.3	850.4	295.0	966.7
## 1988.9042	631.1	411.3	850.9	294.9	967.3
## 1988.9069	631.3	411.3	851.4	294.8	967.9
## 1988.9097	631.5	411.2	851.8	294.6	968.4
## 1988.9124	631.8	411.2	852.3	294.5	969.0
## 1988.9151	632.0	411.2	852.8	294.4	969.6
## 1988.9179	632.2	411.2	853.2	294.2	970.2
## 1988.9206	632.4	411.2	853.7	294.1	970.8
## 1988.9233	632.7	411.2	854.2	294.0	971.4
## 1988.9261	632.9	411.2	854.6	293.8	972.0
## 1988.9288	633.1	411.2	855.1	293.7	972.6
## 1988.9316	633.4	411.2	855.5	293.6	973.2
## 1988.9343	633.6	411.2	856.0	293.4	973.7
## 1988.9370	633.8	411.2	856.5	293.3	974.3
## 1988.9398	634.0	411.2	856.9	293.2	974.9
## 1988.9425	634.3	411.1	857.4	293.0	975.5
## 1988.9452	634.5	411.1	857.9	292.9	976.1
## 1988.9480	634.7	411.1	858.3	292.8	976.7
## 1988.9507	635.0	411.1	858.8	292.6	977.3
## 1988.9535	635.2	411.1	859.2	292.5	977.9
## 1988.9562	635.4	411.1	859.7	292.4	978.4
## 1988.9589	635.6	411.1	860.2	292.2	979.0
## 1988.9617	635.9	411.1	860.6	292.1	979.6
## 1988.9644	636.1	411.1	861.1	292.0	980.2
## 1988.9671	636.3	411.1	861.6	291.8	980.8
## 1988.9699	636.5	411.1	862.0	291.7	981.4
## 1988.9726	636.8	411.1	862.5	291.6	982.0
## 1988.9754	637.0	411.1	863.0	291.4	982.6
## 1988.9781	637.2	411.1	863.4	291.3	983.1
## 1988.9808	637.5	411.0	863.9	291.2	983.7
## 1988.9836	637.7	411.0	864.3	291.1	984.3
## 1988.9863	637.9	411.0	864.8	290.9	984.9
## 1988.9890	638.1	411.0	865.3	290.8	985.5
## 1988.9918	638.4	411.0	865.7	290.7	986.1
## 1988.9945	638.6	411.0	866.2	290.5	986.7
## 1988.9973	638.8	411.0	866.7	290.4	987.3
## 1989.0000	639.1	411.0	867.1	290.3	987.8

## 1989.0027	639.3	411.0	867.6	290.1	988.4
## 1989.0055	639.5	411.0	868.0	290.0	989.0
## 1989.0082	639.7	411.0	868.5	289.9	989.6
## 1989.0110	640.0	411.0	869.0	289.7	990.2
## 1989.0137	640.2	411.0	869.4	289.6	990.8
## 1989.0164	640.4	411.0	869.9	289.5	991.4
## 1989.0192	640.7	410.9	870.4	289.3	992.0
## 1989.0219	640.9	410.9	870.8	289.2	992.5
## 1989.0246	641.1	410.9	871.3	289.1	993.1
## 1989.0274	641.3	410.9	871.7	289.0	993.7
## 1989.0301	641.6	410.9	872.2	288.8	994.3
## 1989.0329	641.8	410.9	872.7	288.7	994.9
## 1989.0356	642.0	410.9	873.1	288.6	995.5
## 1989.0383	642.2	410.9	873.6	288.4	996.1
## 1989.0411	642.5	410.9	874.1	288.3	996.6
## 1989.0438	642.7	410.9	874.5	288.2	997.2
## 1989.0465	642.9	410.9	875.0	288.0	997.8
## 1989.0493	643.2	410.9	875.4	287.9	998.4
## 1989.0520	643.4	410.9	875.9	287.8	999.0
## 1989.0548	643.6	410.9	876.4	287.6	999.6
## 1989.0575	643.8	410.8	876.8	287.5	1000.2
## 1989.0602	644.1	410.8	877.3	287.4	1000.8
## 1989.0630	644.3	410.8	877.8	287.2	1001.3
## 1989.0657	644.5	410.8	878.2	287.1	1001.9
## 1989.0684	644.8	410.8	878.7	287.0	1002.5
## 1989.0712	645.0	410.8	879.1	286.9	1003.1
## 1989.0739	645.2	410.8	879.6	286.7	1003.7
## 1989.0767	645.4	410.8	880.1	286.6	1004.3
## 1989.0794	645.7	410.8	880.5	286.5	1004.9
## 1989.0821	645.9	410.8	881.0	286.3	1005.4
## 1989.0849	646.1	410.8	881.5	286.2	1006.0
## 1989.0876	646.3	410.8	881.9	286.1	1006.6
## 1989.0903	646.6	410.8	882.4	285.9	1007.2
## 1989.0931	646.8	410.8	882.8	285.8	1007.8
## 1989.0958	647.0	410.8	883.3	285.7	1008.4
## 1989.0986	647.3	410.8	883.8	285.6	1009.0
## 1989.1013	647.5	410.7	884.2	285.4	1009.5
## 1989.1040	647.7	410.7	884.7	285.3	1010.1
## 1989.1068	647.9	410.7	885.1	285.2	1010.7
## 1989.1095	648.2	410.7	885.6	285.0	1011.3
## 1989.1123	648.4	410.7	886.1	284.9	1011.9
## 1989.1150	648.6	410.7	886.5	284.8	1012.5
## 1989.1177	648.9	410.7	887.0	284.6	1013.1
## 1989.1205	649.1	410.7	887.5	284.5	1013.6
## 1989.1232	649.3	410.7	887.9	284.4	1014.2
## 1989.1259	649.5	410.7	888.4	284.3	1014.8
## 1989.1287	649.8	410.7	888.8	284.1	1015.4
## 1989.1314	650.0	410.7	889.3	284.0	1016.0
## 1989.1342	650.2	410.7	889.8	283.9	1016.6
## 1989.1369	650.4	410.7	890.2	283.7	1017.2
## 1989.1396	650.7	410.7	890.7	283.6	1017.7
## 1989.1424	650.9	410.7	891.1	283.5	1018.3

## 1989.1451	651.1	410.6	891.6	283.3	1018.9
## 1989.1478	651.4	410.6	892.1	283.2	1019.5
## 1989.1506	651.6	410.6	892.5	283.1	1020.1
## 1989.1533	651.8	410.6	893.0	283.0	1020.7
## 1989.1561	652.0	410.6	893.5	282.8	1021.2
## 1989.1588	652.3	410.6	893.9	282.7	1021.8
## 1989.1615	652.5	410.6	894.4	282.6	1022.4
## 1989.1643	652.7	410.6	894.8	282.4	1023.0
## 1989.1670	653.0	410.6	895.3	282.3	1023.6
## 1989.1697	653.2	410.6	895.8	282.2	1024.2
## 1989.1725	653.4	410.6	896.2	282.1	1024.8
## 1989.1752	653.6	410.6	896.7	281.9	1025.3
## 1989.1780	653.9	410.6	897.1	281.8	1025.9
## 1989.1807	654.1	410.6	897.6	281.7	1026.5
## 1989.1834	654.3	410.6	898.1	281.5	1027.1
## 1989.1862	654.5	410.6	898.5	281.4	1027.7
## 1989.1889	654.8	410.6	899.0	281.3	1028.3
## 1989.1916	655.0	410.6	899.4	281.2	1028.9
## 1989.1944	655.2	410.5	899.9	281.0	1029.4
## 1989.1971	655.5	410.5	900.4	280.9	1030.0
## 1989.1999	655.7	410.5	900.8	280.8	1030.6
## 1989.2026	655.9	410.5	901.3	280.6	1031.2
## 1989.2053	656.1	410.5	901.8	280.5	1031.8
## 1989.2081	656.4	410.5	902.2	280.4	1032.4
## 1989.2108	656.6	410.5	902.7	280.2	1032.9
## 1989.2136	656.8	410.5	903.1	280.1	1033.5
## 1989.2163	657.1	410.5	903.6	280.0	1034.1
## 1989.2190	657.3	410.5	904.1	279.9	1034.7
## 1989.2218	657.5	410.5	904.5	279.7	1035.3
## 1989.2245	657.7	410.5	905.0	279.6	1035.9
## 1989.2272	658.0	410.5	905.4	279.5	1036.4
## 1989.2300	658.2	410.5	905.9	279.3	1037.0
## 1989.2327	658.4	410.5	906.4	279.2	1037.6
## 1989.2355	658.6	410.5	906.8	279.1	1038.2
## 1989.2382	658.9	410.5	907.3	279.0	1038.8
## 1989.2409	659.1	410.5	907.7	278.8	1039.4
## 1989.2437	659.3	410.5	908.2	278.7	1040.0
## 1989.2464	659.6	410.4	908.7	278.6	1040.5
## 1989.2491	659.8	410.4	909.1	278.5	1041.1
## 1989.2519	660.0	410.4	909.6	278.3	1041.7
## 1989.2546	660.2	410.4	910.0	278.2	1042.3
## 1989.2574	660.5	410.4	910.5	278.1	1042.9
## 1989.2601	660.7	410.4	911.0	277.9	1043.5
## 1989.2628	660.9	410.4	911.4	277.8	1044.0
## 1989.2656	661.2	410.4	911.9	277.7	1044.6
## 1989.2683	661.4	410.4	912.3	277.6	1045.2
## 1989.2710	661.6	410.4	912.8	277.4	1045.8
## 1989.2738	661.8	410.4	913.3	277.3	1046.4
## 1989.2765	662.1	410.4	913.7	277.2	1047.0
## 1989.2793	662.3	410.4	914.2	277.0	1047.5
## 1989.2820	662.5	410.4	914.7	276.9	1048.1
## 1989.2847	662.7	410.4	915.1	276.8	1048.7

## 1989.2875	663.0	410.4	915.6	276.7	1049.3
## 1989.2902	663.2	410.4	916.0	276.5	1049.9
## 1989.2930	663.4	410.4	916.5	276.4	1050.5
## 1989.2957	663.7	410.4	917.0	276.3	1051.0
## 1989.2984	663.9	410.4	917.4	276.1	1051.6
## 1989.3012	664.1	410.4	917.9	276.0	1052.2
## 1989.3039	664.3	410.3	918.3	275.9	1052.8
## 1989.3066	664.6	410.3	918.8	275.8	1053.4
## 1989.3094	664.8	410.3	919.3	275.6	1054.0
## 1989.3121	665.0	410.3	919.7	275.5	1054.5
## 1989.3149	665.3	410.3	920.2	275.4	1055.1
## 1989.3176	665.5	410.3	920.6	275.3	1055.7
## 1989.3203	665.7	410.3	921.1	275.1	1056.3
## 1989.3231	665.9	410.3	921.6	275.0	1056.9
## 1989.3258	666.2	410.3	922.0	274.9	1057.5
## 1989.3285	666.4	410.3	922.5	274.7	1058.0
## 1989.3313	666.6	410.3	922.9	274.6	1058.6
## 1989.3340	666.8	410.3	923.4	274.5	1059.2
## 1989.3368	667.1	410.3	923.9	274.4	1059.8
## 1989.3395	667.3	410.3	924.3	274.2	1060.4
## 1989.3422	667.5	410.3	924.8	274.1	1060.9
## 1989.3450	667.8	410.3	925.2	274.0	1061.5
## 1989.3477	668.0	410.3	925.7	273.9	1062.1
## 1989.3504	668.2	410.3	926.2	273.7	1062.7
## 1989.3532	668.4	410.3	926.6	273.6	1063.3
## 1989.3559	668.7	410.3	927.1	273.5	1063.9
## 1989.3587	668.9	410.3	927.5	273.3	1064.4
## 1989.3614	669.1	410.3	928.0	273.2	1065.0
## 1989.3641	669.4	410.3	928.5	273.1	1065.6
## 1989.3669	669.6	410.2	928.9	273.0	1066.2
## 1989.3696	669.8	410.2	929.4	272.8	1066.8
## 1989.3723	670.0	410.2	929.8	272.7	1067.4
## 1989.3751	670.3	410.2	930.3	272.6	1067.9
## 1989.3778	670.5	410.2	930.8	272.5	1068.5
## 1989.3806	670.7	410.2	931.2	272.3	1069.1
## 1989.3833	670.9	410.2	931.7	272.2	1069.7
## 1989.3860	671.2	410.2	932.1	272.1	1070.3
## 1989.3888	671.4	410.2	932.6	272.0	1070.9
## 1989.3915	671.6	410.2	933.0	271.8	1071.4
## 1989.3943	671.9	410.2	933.5	271.7	1072.0
## 1989.3970	672.1	410.2	934.0	271.6	1072.6
## 1989.3997	672.3	410.2	934.4	271.4	1073.2
## 1989.4025	672.5	410.2	934.9	271.3	1073.8
## 1989.4052	672.8	410.2	935.3	271.2	1074.3
## 1989.4079	673.0	410.2	935.8	271.1	1074.9
## 1989.4107	673.2	410.2	936.3	270.9	1075.5
## 1989.4134	673.5	410.2	936.7	270.8	1076.1
## 1989.4162	673.7	410.2	937.2	270.7	1076.7
## 1989.4189	673.9	410.2	937.6	270.6	1077.3
## 1989.4216	674.1	410.2	938.1	270.4	1077.8
## 1989.4244	674.4	410.2	938.6	270.3	1078.4
## 1989.4271	674.6	410.2	939.0	270.2	1079.0

## 1989.4298	674.8	410.2	939.5	270.1	1079.6
## 1989.4326	675.0	410.2	939.9	269.9	1080.2
## 1989.4353	675.3	410.1	940.4	269.8	1080.7
## 1989.4381	675.5	410.1	940.9	269.7	1081.3
## 1989.4408	675.7	410.1	941.3	269.5	1081.9
## 1989.4435	676.0	410.1	941.8	269.4	1082.5
## 1989.4463	676.2	410.1	942.2	269.3	1083.1
## 1989.4490	676.4	410.1	942.7	269.2	1083.7
## 1989.4517	676.6	410.1	943.2	269.0	1084.2
## 1989.4545	676.9	410.1	943.6	268.9	1084.8
## 1989.4572	677.1	410.1	944.1	268.8	1085.4
## 1989.4600	677.3	410.1	944.5	268.7	1086.0
## 1989.4627	677.6	410.1	945.0	268.5	1086.6
## 1989.4654	677.8	410.1	945.5	268.4	1087.1
## 1989.4682	678.0	410.1	945.9	268.3	1087.7
## 1989.4709	678.2	410.1	946.4	268.2	1088.3
## 1989.4736	678.5	410.1	946.8	268.0	1088.9
## 1989.4764	678.7	410.1	947.3	267.9	1089.5
## 1989.4791	678.9	410.1	947.7	267.8	1090.1
## 1989.4819	679.1	410.1	948.2	267.7	1090.6
## 1989.4846	679.4	410.1	948.7	267.5	1091.2
## 1989.4873	679.6	410.1	949.1	267.4	1091.8
## 1989.4901	679.8	410.1	949.6	267.3	1092.4
## 1989.4928	680.1	410.1	950.0	267.2	1093.0
## 1989.4956	680.3	410.1	950.5	267.0	1093.5
## 1989.4983	680.5	410.1	951.0	266.9	1094.1
## 1989.5010	680.7	410.1	951.4	266.8	1094.7
## 1989.5038	681.0	410.1	951.9	266.7	1095.3
## 1989.5065	681.2	410.1	952.3	266.5	1095.9
## 1989.5092	681.4	410.1	952.8	266.4	1096.4
## 1989.5120	681.7	410.1	953.3	266.3	1097.0
## 1989.5147	681.9	410.0	953.7	266.2	1097.6
## 1989.5175	682.1	410.0	954.2	266.0	1098.2
## 1989.5202	682.3	410.0	954.6	265.9	1098.8
## 1989.5229	682.6	410.0	955.1	265.8	1099.4
## 1989.5257	682.8	410.0	955.5	265.6	1099.9
## 1989.5284	683.0	410.0	956.0	265.5	1100.5
## 1989.5311	683.2	410.0	956.5	265.4	1101.1
## 1989.5339	683.5	410.0	956.9	265.3	1101.7
## 1989.5366	683.7	410.0	957.4	265.1	1102.3
## 1989.5394	683.9	410.0	957.8	265.0	1102.8
## 1989.5421	684.2	410.0	958.3	264.9	1103.4
## 1989.5448	684.4	410.0	958.8	264.8	1104.0
## 1989.5476	684.6	410.0	959.2	264.6	1104.6
## 1989.5503	684.8	410.0	959.7	264.5	1105.2
## 1989.5530	685.1	410.0	960.1	264.4	1105.7
## 1989.5558	685.3	410.0	960.6	264.3	1106.3
## 1989.5585	685.5	410.0	961.1	264.1	1106.9
## 1989.5613	685.8	410.0	961.5	264.0	1107.5
## 1989.5640	686.0	410.0	962.0	263.9	1108.1
## 1989.5667	686.2	410.0	962.4	263.8	1108.6
## 1989.5695	686.4	410.0	962.9	263.6	1109.2

## 1989.5722	686.7	410.0	963.3	263.5	1109.8
## 1989.5749	686.9	410.0	963.8	263.4	1110.4
## 1989.5777	687.1	410.0	964.3	263.3	1111.0
## 1989.5804	687.3	410.0	964.7	263.1	1111.5
## 1989.5832	687.6	410.0	965.2	263.0	1112.1
## 1989.5859	687.8	410.0	965.6	262.9	1112.7
## 1989.5886	688.0	410.0	966.1	262.8	1113.3
## 1989.5914	688.3	410.0	966.6	262.6	1113.9
## 1989.5941	688.5	410.0	967.0	262.5	1114.5
## 1989.5969	688.7	410.0	967.5	262.4	1115.0
## 1989.5996	688.9	410.0	967.9	262.3	1115.6
## 1989.6023	689.2	410.0	968.4	262.1	1116.2
## 1989.6051	689.4	410.0	968.8	262.0	1116.8
## 1989.6078	689.6	409.9	969.3	261.9	1117.4
## 1989.6105	689.9	409.9	969.8	261.8	1117.9
## 1989.6133	690.1	409.9	970.2	261.6	1118.5
## 1989.6160	690.3	409.9	970.7	261.5	1119.1
## 1989.6188	690.5	409.9	971.1	261.4	1119.7
## 1989.6215	690.8	409.9	971.6	261.3	1120.3
## 1989.6242	691.0	409.9	972.1	261.1	1120.8
## 1989.6270	691.2	409.9	972.5	261.0	1121.4
## 1989.6297	691.4	409.9	973.0	260.9	1122.0
## 1989.6324	691.7	409.9	973.4	260.8	1122.6
## 1989.6352	691.9	409.9	973.9	260.7	1123.2
## 1989.6379	692.1	409.9	974.3	260.5	1123.7
## 1989.6407	692.4	409.9	974.8	260.4	1124.3
## 1989.6434	692.6	409.9	975.3	260.3	1124.9
## 1989.6461	692.8	409.9	975.7	260.2	1125.5
## 1989.6489	693.0	409.9	976.2	260.0	1126.1
## 1989.6516	693.3	409.9	976.6	259.9	1126.6
## 1989.6543	693.5	409.9	977.1	259.8	1127.2
## 1989.6571	693.7	409.9	977.5	259.7	1127.8
## 1989.6598	694.0	409.9	978.0	259.5	1128.4
## 1989.6626	694.2	409.9	978.5	259.4	1129.0
## 1989.6653	694.4	409.9	978.9	259.3	1129.5
## 1989.6680	694.6	409.9	979.4	259.2	1130.1
## 1989.6708	694.9	409.9	979.8	259.0	1130.7
## 1989.6735	695.1	409.9	980.3	258.9	1131.3
## 1989.6762	695.3	409.9	980.8	258.8	1131.9
## 1989.6790	695.5	409.9	981.2	258.7	1132.4
## 1989.6817	695.8	409.9	981.7	258.5	1133.0
## 1989.6845	696.0	409.9	982.1	258.4	1133.6
## 1989.6872	696.2	409.9	982.6	258.3	1134.2
## 1989.6899	696.5	409.9	983.0	258.2	1134.8
## 1989.6927	696.7	409.9	983.5	258.0	1135.3
## 1989.6954	696.9	409.9	984.0	257.9	1135.9
## 1989.6982	697.1	409.9	984.4	257.8	1136.5
## 1989.7009	697.4	409.9	984.9	257.7	1137.1
## 1989.7036	697.6	409.9	985.3	257.5	1137.7
## 1989.7064	697.8	409.9	985.8	257.4	1138.2
## 1989.7091	698.1	409.9	986.2	257.3	1138.8
## 1989.7118	698.3	409.9	986.7	257.2	1139.4

## 1989.7146	698.5	409.9	987.2	257.0	1140.0
## 1989.7173	698.7	409.9	987.6	256.9	1140.5
## 1989.7201	699.0	409.9	988.1	256.8	1141.1
## 1989.7228	699.2	409.8	988.5	256.7	1141.7
## 1989.7255	699.4	409.8	989.0	256.6	1142.3
## 1989.7283	699.6	409.8	989.5	256.4	1142.9
## 1989.7310	699.9	409.8	989.9	256.3	1143.4
## 1989.7337	700.1	409.8	990.4	256.2	1144.0
## 1989.7365	700.3	409.8	990.8	256.1	1144.6
## 1989.7392	700.6	409.8	991.3	255.9	1145.2
## 1989.7420	700.8	409.8	991.7	255.8	1145.8
## 1989.7447	701.0	409.8	992.2	255.7	1146.3
## 1989.7474	701.2	409.8	992.7	255.6	1146.9
## 1989.7502	701.5	409.8	993.1	255.4	1147.5
## 1989.7529	701.7	409.8	993.6	255.3	1148.1
## 1989.7556	701.9	409.8	994.0	255.2	1148.7
## 1989.7584	702.2	409.8	994.5	255.1	1149.2
## 1989.7611	702.4	409.8	994.9	254.9	1149.8
## 1989.7639	702.6	409.8	995.4	254.8	1150.4
## 1989.7666	702.8	409.8	995.9	254.7	1151.0
## 1989.7693	703.1	409.8	996.3	254.6	1151.6
## 1989.7721	703.3	409.8	996.8	254.5	1152.1
## 1989.7748	703.5	409.8	997.2	254.3	1152.7
## 1989.7775	703.7	409.8	997.7	254.2	1153.3
## 1989.7803	704.0	409.8	998.1	254.1	1153.9
## 1989.7830	704.2	409.8	998.6	254.0	1154.4
## 1989.7858	704.4	409.8	999.1	253.8	1155.0
## 1989.7885	704.7	409.8	999.5	253.7	1155.6
## 1989.7912	704.9	409.8	1000.0	253.6	1156.2
## 1989.7940	705.1	409.8	1000.4	253.5	1156.8
## 1989.7967	705.3	409.8	1000.9	253.3	1157.3
## 1989.7995	705.6	409.8	1001.3	253.2	1157.9
## 1989.8022	705.8	409.8	1001.8	253.1	1158.5
## 1989.8049	706.0	409.8	1002.3	253.0	1159.1
## 1989.8077	706.3	409.8	1002.7	252.8	1159.7
## 1989.8104	706.5	409.8	1003.2	252.7	1160.2
## 1989.8131	706.7	409.8	1003.6	252.6	1160.8
## 1989.8159	706.9	409.8	1004.1	252.5	1161.4
## 1989.8186	707.2	409.8	1004.5	252.4	1162.0
## 1989.8214	707.4	409.8	1005.0	252.2	1162.6
## 1989.8241	707.6	409.8	1005.5	252.1	1163.1
## 1989.8268	707.8	409.8	1005.9	252.0	1163.7
## 1989.8296	708.1	409.8	1006.4	251.9	1164.3
## 1989.8323	708.3	409.8	1006.8	251.7	1164.9
## 1989.8350	708.5	409.8	1007.3	251.6	1165.4
## 1989.8378	708.8	409.8	1007.7	251.5	1166.0
## 1989.8405	709.0	409.8	1008.2	251.4	1166.6
## 1989.8433	709.2	409.8	1008.7	251.2	1167.2
## 1989.8460	709.4	409.8	1009.1	251.1	1167.8
## 1989.8487	709.7	409.8	1009.6	251.0	1168.3
## 1989.8515	709.9	409.8	1010.0	250.9	1168.9
## 1989.8542	710.1	409.8	1010.5	250.8	1169.5

## 1989.8569	710.4	409.8	1010.9	250.6	1170.1
## 1989.8597	710.6	409.8	1011.4	250.5	1170.7
## 1989.8624	710.8	409.8	1011.9	250.4	1171.2
## 1989.8652	711.0	409.8	1012.3	250.3	1171.8
## 1989.8679	711.3	409.8	1012.8	250.1	1172.4
## 1989.8706	711.5	409.8	1013.2	250.0	1173.0
## 1989.8734	711.7	409.8	1013.7	249.9	1173.5
## 1989.8761	711.9	409.7	1014.1	249.8	1174.1
## 1989.8789	712.2	409.7	1014.6	249.7	1174.7
## 1989.8816	712.4	409.7	1015.1	249.5	1175.3
## 1989.8843	712.6	409.7	1015.5	249.4	1175.9
## 1989.8871	712.9	409.7	1016.0	249.3	1176.4
## 1989.8898	713.1	409.7	1016.4	249.2	1177.0
## 1989.8925	713.3	409.7	1016.9	249.0	1177.6
## 1989.8953	713.5	409.7	1017.3	248.9	1178.2
## 1989.8980	713.8	409.7	1017.8	248.8	1178.7
## 1989.9008	714.0	409.7	1018.3	248.7	1179.3
## 1989.9035	714.2	409.7	1018.7	248.5	1179.9
## 1989.9062	714.5	409.7	1019.2	248.4	1180.5
## 1989.9090	714.7	409.7	1019.6	248.3	1181.1
## 1989.9117	714.9	409.7	1020.1	248.2	1181.6
## 1989.9144	715.1	409.7	1020.5	248.1	1182.2
## 1989.9172	715.4	409.7	1021.0	247.9	1182.8
## 1989.9199	715.6	409.7	1021.5	247.8	1183.4
## 1989.9227	715.8	409.7	1021.9	247.7	1184.0
## 1989.9254	716.0	409.7	1022.4	247.6	1184.5
## 1989.9281	716.3	409.7	1022.8	247.4	1185.1
## 1989.9309	716.5	409.7	1023.3	247.3	1185.7
## 1989.9336	716.7	409.7	1023.7	247.2	1186.3
## 1989.9363	717.0	409.7	1024.2	247.1	1186.8
## 1989.9391	717.2	409.7	1024.7	247.0	1187.4
## 1989.9418	717.4	409.7	1025.1	246.8	1188.0
## 1989.9446	717.6	409.7	1025.6	246.7	1188.6
## 1989.9473	717.9	409.7	1026.0	246.6	1189.2
## 1989.9500	718.1	409.7	1026.5	246.5	1189.7
## 1989.9528	718.3	409.7	1026.9	246.3	1190.3
## 1989.9555	718.6	409.7	1027.4	246.2	1190.9
## 1989.9582	718.8	409.7	1027.9	246.1	1191.5
## 1989.9610	719.0	409.7	1028.3	246.0	1192.0
## 1989.9637	719.2	409.7	1028.8	245.9	1192.6
## 1989.9665	719.5	409.7	1029.2	245.7	1193.2
## 1989.9692	719.7	409.7	1029.7	245.6	1193.8
## 1989.9719	719.9	409.7	1030.1	245.5	1194.4
## 1989.9747	720.1	409.7	1030.6	245.4	1194.9
## 1989.9774	720.4	409.7	1031.0	245.2	1195.5
## 1989.9802	720.6	409.7	1031.5	245.1	1196.1
## 1989.9829	720.8	409.7	1032.0	245.0	1196.7
## 1989.9856	721.1	409.7	1032.4	244.9	1197.2
## 1989.9884	721.3	409.7	1032.9	244.8	1197.8
## 1989.9911	721.5	409.7	1033.3	244.6	1198.4
## 1989.9938	721.7	409.7	1033.8	244.5	1199.0
## 1989.9966	722.0	409.7	1034.2	244.4	1199.6

```
## 1989.9993      722.2 409.7 1034.7 244.3 1200.1
## 1990.0021      722.4 409.7 1035.2 244.1 1200.7
## 1990.0048      722.7 409.7 1035.6 244.0 1201.3
## 1990.0075      722.9 409.7 1036.1 243.9 1201.9
```

Accuracy Measures of the forecasting Methods and checking residuals

```
# Accuracy measures
```

```
accuracy(naiveF, data_test)
```

```
##           ME    RMSE    MAE      MPE    MAPE    MASE    ACF1 Theil's U
## Training set  0.2278  4.682  3.092  0.05162 0.8246 0.03356 -0.1476      NA
## Test set     -38.9034 48.446 41.321 -9.43552 9.9324 0.44846  0.9850     14.26
```

```
accuracy(meanFo, data_test)
```

```
##           ME    RMSE    MAE      MPE    MAPE    MASE    ACF1
## Training set -0.0000000000000152 54.82 49.62 -2.114 13.36 0.5385 0.993
## Test set     63.2594162414028318 69.54 63.26 14.179 14.18 0.6865 0.985
##           Theil's U
## Training set      NA
## Test set         18.26
```

```
accuracy(rwff, data_test)
```

```
##           ME    RMSE    MAE      MPE    MAPE    MASE
## Training set  0.00000000000001061 4.677 3.089 -0.01102 0.8238 0.03352
## Test set     -81.61458640864894676 96.880 82.349 -19.65294 19.8023 0.89372
##           ACF1 Theil's U
## Training set -0.1476      NA
## Test set     0.9898     28.43
```

```
# the Random walk with drift method has the best model because it has the lowest RMSE, MAE, MASE, MAPE
```

```
# Checking residuals
```

```
print(summary(meanFo))
```



```
##
## Forecast method: Mean
##
## Model Information:
## $mu
## [1] 371.3
##
## $mu.se
## [1] 2.023
##
## $sd
## [1] 54.86
##
## $bootstrap
## [1] FALSE
##
## $call
## meanf(y = data_train, h = 365 * 3)
##
## attr("class")
## [1] "meanf"
##
## Error measures:
##
##              ME  RMSE  MAE   MPE  MAPE  MASE  ACF1
## Training set -0.000000000000152 54.82 49.62 -2.114 13.36 0.5385 0.993
##
## Forecasts:
##      Point Forecast Lo 80 Hi 80 Lo 95 Hi 95
## 1987.0123      371.3 300.9 441.7 263.5 479.1
## 1987.0151      371.3 300.9 441.7 263.5 479.1
## 1987.0178      371.3 300.9 441.7 263.5 479.1
## 1987.0205      371.3 300.9 441.7 263.5 479.1
## 1987.0233      371.3 300.9 441.7 263.5 479.1
## 1987.0260      371.3 300.9 441.7 263.5 479.1
## 1987.0287      371.3 300.9 441.7 263.5 479.1
## 1987.0315      371.3 300.9 441.7 263.5 479.1
## 1987.0342      371.3 300.9 441.7 263.5 479.1
## 1987.0370      371.3 300.9 441.7 263.5 479.1
## 1987.0397      371.3 300.9 441.7 263.5 479.1
## 1987.0424      371.3 300.9 441.7 263.5 479.1
## 1987.0452      371.3 300.9 441.7 263.5 479.1
## 1987.0479      371.3 300.9 441.7 263.5 479.1
## 1987.0507      371.3 300.9 441.7 263.5 479.1
## 1987.0534      371.3 300.9 441.7 263.5 479.1
## 1987.0561      371.3 300.9 441.7 263.5 479.1
## 1987.0589      371.3 300.9 441.7 263.5 479.1
## 1987.0616      371.3 300.9 441.7 263.5 479.1
## 1987.0643      371.3 300.9 441.7 263.5 479.1
## 1987.0671      371.3 300.9 441.7 263.5 479.1
## 1987.0698      371.3 300.9 441.7 263.5 479.1
## 1987.0726      371.3 300.9 441.7 263.5 479.1
## 1987.0753      371.3 300.9 441.7 263.5 479.1
```

## 1987.0780	371.3	300.9	441.7	263.5	479.1
## 1987.0808	371.3	300.9	441.7	263.5	479.1
## 1987.0835	371.3	300.9	441.7	263.5	479.1
## 1987.0862	371.3	300.9	441.7	263.5	479.1
## 1987.0890	371.3	300.9	441.7	263.5	479.1
## 1987.0917	371.3	300.9	441.7	263.5	479.1
## 1987.0945	371.3	300.9	441.7	263.5	479.1
## 1987.0972	371.3	300.9	441.7	263.5	479.1
## 1987.0999	371.3	300.9	441.7	263.5	479.1
## 1987.1027	371.3	300.9	441.7	263.5	479.1
## 1987.1054	371.3	300.9	441.7	263.5	479.1
## 1987.1081	371.3	300.9	441.7	263.5	479.1
## 1987.1109	371.3	300.9	441.7	263.5	479.1
## 1987.1136	371.3	300.9	441.7	263.5	479.1
## 1987.1164	371.3	300.9	441.7	263.5	479.1
## 1987.1191	371.3	300.9	441.7	263.5	479.1
## 1987.1218	371.3	300.9	441.7	263.5	479.1
## 1987.1246	371.3	300.9	441.7	263.5	479.1
## 1987.1273	371.3	300.9	441.7	263.5	479.1
## 1987.1300	371.3	300.9	441.7	263.5	479.1
## 1987.1328	371.3	300.9	441.7	263.5	479.1
## 1987.1355	371.3	300.9	441.7	263.5	479.1
## 1987.1383	371.3	300.9	441.7	263.5	479.1
## 1987.1410	371.3	300.9	441.7	263.5	479.1
## 1987.1437	371.3	300.9	441.7	263.5	479.1
## 1987.1465	371.3	300.9	441.7	263.5	479.1
## 1987.1492	371.3	300.9	441.7	263.5	479.1
## 1987.1520	371.3	300.9	441.7	263.5	479.1
## 1987.1547	371.3	300.9	441.7	263.5	479.1
## 1987.1574	371.3	300.9	441.7	263.5	479.1
## 1987.1602	371.3	300.9	441.7	263.5	479.1
## 1987.1629	371.3	300.9	441.7	263.5	479.1
## 1987.1656	371.3	300.9	441.7	263.5	479.1
## 1987.1684	371.3	300.9	441.7	263.5	479.1
## 1987.1711	371.3	300.9	441.7	263.5	479.1
## 1987.1739	371.3	300.9	441.7	263.5	479.1
## 1987.1766	371.3	300.9	441.7	263.5	479.1
## 1987.1793	371.3	300.9	441.7	263.5	479.1
## 1987.1821	371.3	300.9	441.7	263.5	479.1
## 1987.1848	371.3	300.9	441.7	263.5	479.1
## 1987.1875	371.3	300.9	441.7	263.5	479.1
## 1987.1903	371.3	300.9	441.7	263.5	479.1
## 1987.1930	371.3	300.9	441.7	263.5	479.1
## 1987.1958	371.3	300.9	441.7	263.5	479.1
## 1987.1985	371.3	300.9	441.7	263.5	479.1
## 1987.2012	371.3	300.9	441.7	263.5	479.1
## 1987.2040	371.3	300.9	441.7	263.5	479.1
## 1987.2067	371.3	300.9	441.7	263.5	479.1
## 1987.2094	371.3	300.9	441.7	263.5	479.1
## 1987.2122	371.3	300.9	441.7	263.5	479.1
## 1987.2149	371.3	300.9	441.7	263.5	479.1
## 1987.2177	371.3	300.9	441.7	263.5	479.1

## 1987.2204	371.3	300.9	441.7	263.5	479.1
## 1987.2231	371.3	300.9	441.7	263.5	479.1
## 1987.2259	371.3	300.9	441.7	263.5	479.1
## 1987.2286	371.3	300.9	441.7	263.5	479.1
## 1987.2313	371.3	300.9	441.7	263.5	479.1
## 1987.2341	371.3	300.9	441.7	263.5	479.1
## 1987.2368	371.3	300.9	441.7	263.5	479.1
## 1987.2396	371.3	300.9	441.7	263.5	479.1
## 1987.2423	371.3	300.9	441.7	263.5	479.1
## 1987.2450	371.3	300.9	441.7	263.5	479.1
## 1987.2478	371.3	300.9	441.7	263.5	479.1
## 1987.2505	371.3	300.9	441.7	263.5	479.1
## 1987.2533	371.3	300.9	441.7	263.5	479.1
## 1987.2560	371.3	300.9	441.7	263.5	479.1
## 1987.2587	371.3	300.9	441.7	263.5	479.1
## 1987.2615	371.3	300.9	441.7	263.5	479.1
## 1987.2642	371.3	300.9	441.7	263.5	479.1
## 1987.2669	371.3	300.9	441.7	263.5	479.1
## 1987.2697	371.3	300.9	441.7	263.5	479.1
## 1987.2724	371.3	300.9	441.7	263.5	479.1
## 1987.2752	371.3	300.9	441.7	263.5	479.1
## 1987.2779	371.3	300.9	441.7	263.5	479.1
## 1987.2806	371.3	300.9	441.7	263.5	479.1
## 1987.2834	371.3	300.9	441.7	263.5	479.1
## 1987.2861	371.3	300.9	441.7	263.5	479.1
## 1987.2888	371.3	300.9	441.7	263.5	479.1
## 1987.2916	371.3	300.9	441.7	263.5	479.1
## 1987.2943	371.3	300.9	441.7	263.5	479.1
## 1987.2971	371.3	300.9	441.7	263.5	479.1
## 1987.2998	371.3	300.9	441.7	263.5	479.1
## 1987.3025	371.3	300.9	441.7	263.5	479.1
## 1987.3053	371.3	300.9	441.7	263.5	479.1
## 1987.3080	371.3	300.9	441.7	263.5	479.1
## 1987.3107	371.3	300.9	441.7	263.5	479.1
## 1987.3135	371.3	300.9	441.7	263.5	479.1
## 1987.3162	371.3	300.9	441.7	263.5	479.1
## 1987.3190	371.3	300.9	441.7	263.5	479.1
## 1987.3217	371.3	300.9	441.7	263.5	479.1
## 1987.3244	371.3	300.9	441.7	263.5	479.1
## 1987.3272	371.3	300.9	441.7	263.5	479.1
## 1987.3299	371.3	300.9	441.7	263.5	479.1
## 1987.3326	371.3	300.9	441.7	263.5	479.1
## 1987.3354	371.3	300.9	441.7	263.5	479.1
## 1987.3381	371.3	300.9	441.7	263.5	479.1
## 1987.3409	371.3	300.9	441.7	263.5	479.1
## 1987.3436	371.3	300.9	441.7	263.5	479.1
## 1987.3463	371.3	300.9	441.7	263.5	479.1
## 1987.3491	371.3	300.9	441.7	263.5	479.1
## 1987.3518	371.3	300.9	441.7	263.5	479.1
## 1987.3546	371.3	300.9	441.7	263.5	479.1
## 1987.3573	371.3	300.9	441.7	263.5	479.1
## 1987.3600	371.3	300.9	441.7	263.5	479.1

## 1987.3628	371.3	300.9	441.7	263.5	479.1
## 1987.3655	371.3	300.9	441.7	263.5	479.1
## 1987.3682	371.3	300.9	441.7	263.5	479.1
## 1987.3710	371.3	300.9	441.7	263.5	479.1
## 1987.3737	371.3	300.9	441.7	263.5	479.1
## 1987.3765	371.3	300.9	441.7	263.5	479.1
## 1987.3792	371.3	300.9	441.7	263.5	479.1
## 1987.3819	371.3	300.9	441.7	263.5	479.1
## 1987.3847	371.3	300.9	441.7	263.5	479.1
## 1987.3874	371.3	300.9	441.7	263.5	479.1
## 1987.3901	371.3	300.9	441.7	263.5	479.1
## 1987.3929	371.3	300.9	441.7	263.5	479.1
## 1987.3956	371.3	300.9	441.7	263.5	479.1
## 1987.3984	371.3	300.9	441.7	263.5	479.1
## 1987.4011	371.3	300.9	441.7	263.5	479.1
## 1987.4038	371.3	300.9	441.7	263.5	479.1
## 1987.4066	371.3	300.9	441.7	263.5	479.1
## 1987.4093	371.3	300.9	441.7	263.5	479.1
## 1987.4120	371.3	300.9	441.7	263.5	479.1
## 1987.4148	371.3	300.9	441.7	263.5	479.1
## 1987.4175	371.3	300.9	441.7	263.5	479.1
## 1987.4203	371.3	300.9	441.7	263.5	479.1
## 1987.4230	371.3	300.9	441.7	263.5	479.1
## 1987.4257	371.3	300.9	441.7	263.5	479.1
## 1987.4285	371.3	300.9	441.7	263.5	479.1
## 1987.4312	371.3	300.9	441.7	263.5	479.1
## 1987.4339	371.3	300.9	441.7	263.5	479.1
## 1987.4367	371.3	300.9	441.7	263.5	479.1
## 1987.4394	371.3	300.9	441.7	263.5	479.1
## 1987.4422	371.3	300.9	441.7	263.5	479.1
## 1987.4449	371.3	300.9	441.7	263.5	479.1
## 1987.4476	371.3	300.9	441.7	263.5	479.1
## 1987.4504	371.3	300.9	441.7	263.5	479.1
## 1987.4531	371.3	300.9	441.7	263.5	479.1
## 1987.4559	371.3	300.9	441.7	263.5	479.1
## 1987.4586	371.3	300.9	441.7	263.5	479.1
## 1987.4613	371.3	300.9	441.7	263.5	479.1
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## 1988.2882	371.3	300.9	441.7	263.5	479.1
## 1988.2909	371.3	300.9	441.7	263.5	479.1
## 1988.2936	371.3	300.9	441.7	263.5	479.1
## 1988.2964	371.3	300.9	441.7	263.5	479.1
## 1988.2991	371.3	300.9	441.7	263.5	479.1
## 1988.3018	371.3	300.9	441.7	263.5	479.1
## 1988.3046	371.3	300.9	441.7	263.5	479.1
## 1988.3073	371.3	300.9	441.7	263.5	479.1
## 1988.3101	371.3	300.9	441.7	263.5	479.1
## 1988.3128	371.3	300.9	441.7	263.5	479.1
## 1988.3155	371.3	300.9	441.7	263.5	479.1
## 1988.3183	371.3	300.9	441.7	263.5	479.1
## 1988.3210	371.3	300.9	441.7	263.5	479.1
## 1988.3238	371.3	300.9	441.7	263.5	479.1
## 1988.3265	371.3	300.9	441.7	263.5	479.1
## 1988.3292	371.3	300.9	441.7	263.5	479.1
## 1988.3320	371.3	300.9	441.7	263.5	479.1
## 1988.3347	371.3	300.9	441.7	263.5	479.1
## 1988.3374	371.3	300.9	441.7	263.5	479.1
## 1988.3402	371.3	300.9	441.7	263.5	479.1
## 1988.3429	371.3	300.9	441.7	263.5	479.1
## 1988.3457	371.3	300.9	441.7	263.5	479.1
## 1988.3484	371.3	300.9	441.7	263.5	479.1
## 1988.3511	371.3	300.9	441.7	263.5	479.1
## 1988.3539	371.3	300.9	441.7	263.5	479.1
## 1988.3566	371.3	300.9	441.7	263.5	479.1

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## 1988.3676	371.3	300.9	441.7	263.5	479.1
## 1988.3703	371.3	300.9	441.7	263.5	479.1
## 1988.3730	371.3	300.9	441.7	263.5	479.1
## 1988.3758	371.3	300.9	441.7	263.5	479.1
## 1988.3785	371.3	300.9	441.7	263.5	479.1
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## 1988.3840	371.3	300.9	441.7	263.5	479.1
## 1988.3867	371.3	300.9	441.7	263.5	479.1
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## 1988.5181	371.3	300.9	441.7	263.5	479.1
## 1988.5209	371.3	300.9	441.7	263.5	479.1
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## 1988.5729	371.3	300.9	441.7	263.5	479.1
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## 1988.6222	371.3	300.9	441.7	263.5	479.1
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## 1988.6906	371.3	300.9	441.7	263.5	479.1
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## 1988.6961	371.3	300.9	441.7	263.5	479.1
## 1988.6988	371.3	300.9	441.7	263.5	479.1
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## 1988.7235	371.3	300.9	441.7	263.5	479.1
## 1988.7262	371.3	300.9	441.7	263.5	479.1
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## 1988.8467	371.3	300.9	441.7	263.5	479.1
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## 1988.8576	371.3	300.9	441.7	263.5	479.1
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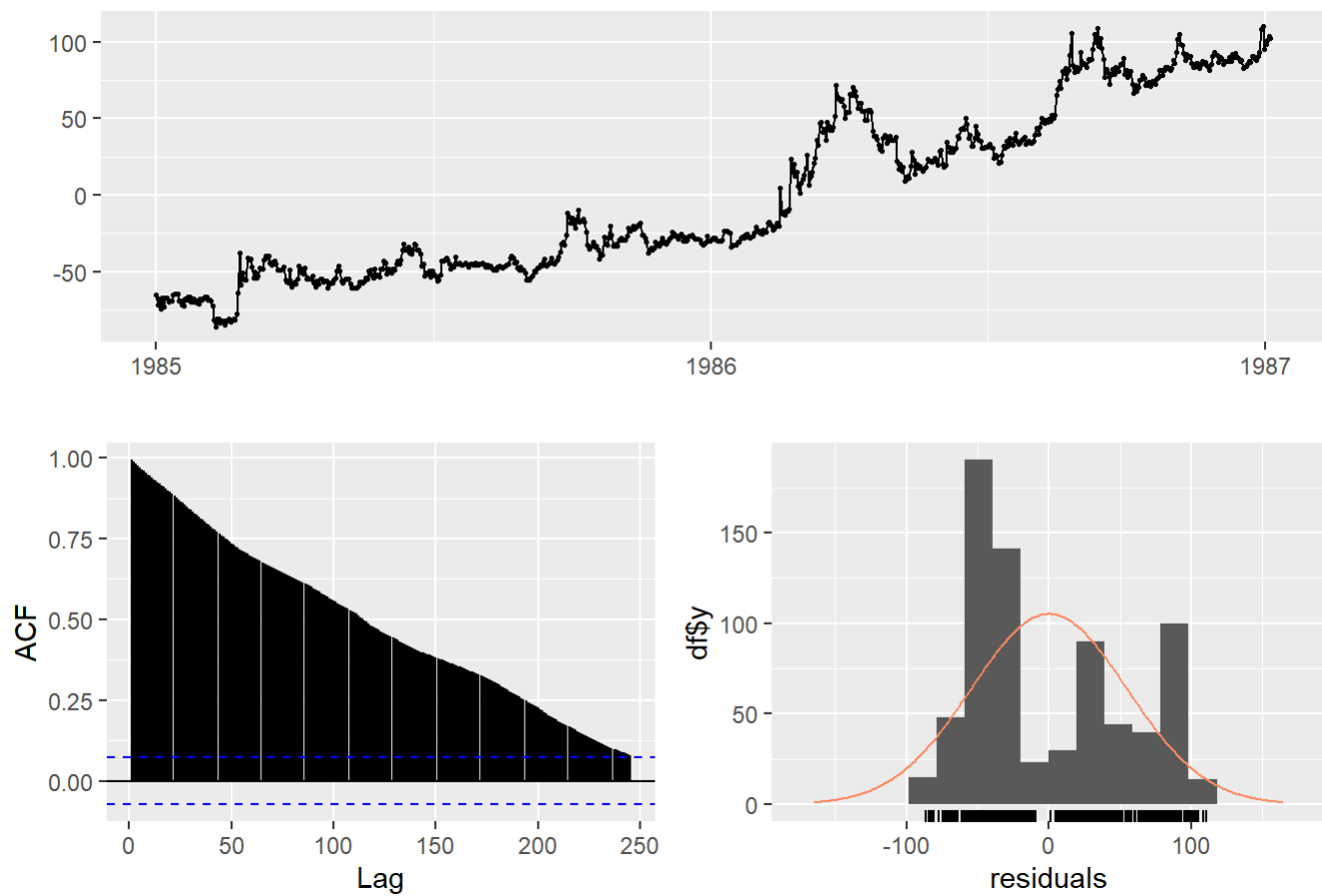
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```
## 1989.9254      371.3 300.9 441.7 263.5 479.1
## 1989.9281      371.3 300.9 441.7 263.5 479.1
## 1989.9309      371.3 300.9 441.7 263.5 479.1
## 1989.9336      371.3 300.9 441.7 263.5 479.1
## 1989.9363      371.3 300.9 441.7 263.5 479.1
## 1989.9391      371.3 300.9 441.7 263.5 479.1
## 1989.9418      371.3 300.9 441.7 263.5 479.1
## 1989.9446      371.3 300.9 441.7 263.5 479.1
## 1989.9473      371.3 300.9 441.7 263.5 479.1
## 1989.9500      371.3 300.9 441.7 263.5 479.1
## 1989.9528      371.3 300.9 441.7 263.5 479.1
## 1989.9555      371.3 300.9 441.7 263.5 479.1
## 1989.9582      371.3 300.9 441.7 263.5 479.1
## 1989.9610      371.3 300.9 441.7 263.5 479.1
## 1989.9637      371.3 300.9 441.7 263.5 479.1
## 1989.9665      371.3 300.9 441.7 263.5 479.1
## 1989.9692      371.3 300.9 441.7 263.5 479.1
## 1989.9719      371.3 300.9 441.7 263.5 479.1
## 1989.9747      371.3 300.9 441.7 263.5 479.1
## 1989.9774      371.3 300.9 441.7 263.5 479.1
## 1989.9802      371.3 300.9 441.7 263.5 479.1
## 1989.9829      371.3 300.9 441.7 263.5 479.1
## 1989.9856      371.3 300.9 441.7 263.5 479.1
## 1989.9884      371.3 300.9 441.7 263.5 479.1
## 1989.9911      371.3 300.9 441.7 263.5 479.1
## 1989.9938      371.3 300.9 441.7 263.5 479.1
## 1989.9966      371.3 300.9 441.7 263.5 479.1
## 1989.9993      371.3 300.9 441.7 263.5 479.1
## 1990.0021      371.3 300.9 441.7 263.5 479.1
## 1990.0048      371.3 300.9 441.7 263.5 479.1
## 1990.0075      371.3 300.9 441.7 263.5 479.1
```

```
checkresiduals(meanFo)
```

Residuals from Mean



```
##
##  Ljung-Box test
##
## data:  Residuals from Mean
## Q* = 54756, df = 146, p-value <0.0000000000000002
##
## Model df: 1.   Total lags used: 147
```

```
print(summary(naiveF))
```

```
##
## Forecast method: Naive method
##
## Model Information:
## Call: naive(y = data_train, h = 365 * 3)
##
## Residual sd: 4.6821
##
## Error measures:
##           ME  RMSE  MAE      MPE  MAPE  MASE  ACF1
## Training set 0.2278 4.682 3.092 0.05162 0.8246 0.03356 -0.1476
##
## Forecasts:
##           Point Forecast Lo 80 Hi 80 Lo 95 Hi 95
## 1987.0123           473.4 467.4 479.5 464.3 482.6
## 1987.0151           473.4 465.0 481.9 460.5 486.4
## 1987.0178           473.4 463.1 483.8 457.6 489.3
## 1987.0205           473.4 461.4 485.5 455.1 491.8
## 1987.0233           473.4 460.0 486.9 452.9 494.0
## 1987.0260           473.4 458.8 488.1 451.0 495.9
## 1987.0287           473.4 457.6 489.3 449.2 497.7
## 1987.0315           473.4 456.5 490.4 447.5 499.4
## 1987.0342           473.4 455.4 491.5 445.9 501.0
## 1987.0370           473.4 454.5 492.4 444.4 502.5
## 1987.0397           473.4 453.5 493.4 443.0 503.9
## 1987.0424           473.4 452.7 494.2 441.7 505.2
## 1987.0452           473.4 451.8 495.1 440.4 506.5
## 1987.0479           473.4 451.0 495.9 439.1 507.8
## 1987.0507           473.4 450.2 496.7 437.9 509.0
## 1987.0534           473.4 449.4 497.5 436.7 510.2
## 1987.0561           473.4 448.7 498.2 435.6 511.3
## 1987.0589           473.4 448.0 498.9 434.5 512.4
## 1987.0616           473.4 447.3 499.6 433.4 513.5
## 1987.0643           473.4 446.6 500.3 432.4 514.5
## 1987.0671           473.4 446.0 500.9 431.4 515.5
## 1987.0698           473.4 445.3 501.6 430.4 516.5
## 1987.0726           473.4 444.7 502.2 429.4 517.5
## 1987.0753           473.4 444.1 502.8 428.5 518.4
## 1987.0780           473.4 443.4 503.5 427.6 519.3
## 1987.0808           473.4 442.9 504.0 426.7 520.2
## 1987.0835           473.4 442.3 504.6 425.8 521.1
## 1987.0862           473.4 441.7 505.2 424.9 522.0
## 1987.0890           473.4 441.1 505.8 424.0 522.9
## 1987.0917           473.4 440.6 506.3 423.2 523.7
## 1987.0945           473.4 440.0 506.9 422.4 524.5
## 1987.0972           473.4 439.5 507.4 421.5 525.4
## 1987.0999           473.4 439.0 507.9 420.7 526.2
## 1987.1027           473.4 438.5 508.4 419.9 527.0
## 1987.1054           473.4 438.0 508.9 419.2 527.7
## 1987.1081           473.4 437.4 509.5 418.4 528.5
## 1987.1109           473.4 437.0 509.9 417.6 529.3
## 1987.1136           473.4 436.5 510.4 416.9 530.0
```


## 1987.1164	473.4	436.0	510.9	416.1	530.8
## 1987.1191	473.4	435.5	511.4	415.4	531.5
## 1987.1218	473.4	435.0	511.9	414.7	532.2
## 1987.1246	473.4	434.6	512.3	414.0	532.9
## 1987.1273	473.4	434.1	512.8	413.3	533.6
## 1987.1300	473.4	433.6	513.3	412.6	534.3
## 1987.1328	473.4	433.2	513.7	411.9	535.0
## 1987.1355	473.4	432.8	514.1	411.2	535.7
## 1987.1383	473.4	432.3	514.6	410.5	536.4
## 1987.1410	473.4	431.9	515.0	409.9	537.0
## 1987.1437	473.4	431.4	515.5	409.2	537.7
## 1987.1465	473.4	431.0	515.9	408.6	538.3
## 1987.1492	473.4	430.6	516.3	407.9	539.0
## 1987.1520	473.4	430.2	516.7	407.3	539.6
## 1987.1547	473.4	429.8	517.1	406.6	540.3
## 1987.1574	473.4	429.4	517.5	406.0	540.9
## 1987.1602	473.4	429.0	517.9	405.4	541.5
## 1987.1629	473.4	428.5	518.4	404.8	542.1
## 1987.1656	473.4	428.1	518.8	404.2	542.7
## 1987.1684	473.4	427.8	519.1	403.6	543.3
## 1987.1711	473.4	427.4	519.5	403.0	543.9
## 1987.1739	473.4	427.0	519.9	402.4	544.5
## 1987.1766	473.4	426.6	520.3	401.8	545.1
## 1987.1793	473.4	426.2	520.7	401.2	545.7
## 1987.1821	473.4	425.8	521.1	400.6	546.3
## 1987.1848	473.4	425.4	521.5	400.0	546.9
## 1987.1875	473.4	425.1	521.8	399.5	547.4
## 1987.1903	473.4	424.7	522.2	398.9	548.0
## 1987.1930	473.4	424.3	522.6	398.3	548.6
## 1987.1958	473.4	424.0	522.9	397.8	549.1
## 1987.1985	473.4	423.6	523.3	397.2	549.7
## 1987.2012	473.4	423.2	523.7	396.7	550.2
## 1987.2040	473.4	422.9	524.0	396.1	550.8
## 1987.2067	473.4	422.5	524.4	395.6	551.3
## 1987.2094	473.4	422.2	524.7	395.0	551.9
## 1987.2122	473.4	421.8	525.1	394.5	552.4
## 1987.2149	473.4	421.5	525.4	394.0	552.9
## 1987.2177	473.4	421.1	525.8	393.4	553.5
## 1987.2204	473.4	420.8	526.1	392.9	554.0
## 1987.2231	473.4	420.5	526.4	392.4	554.5
## 1987.2259	473.4	420.1	526.8	391.9	555.0
## 1987.2286	473.4	419.8	527.1	391.4	555.5
## 1987.2313	473.4	419.4	527.5	390.9	556.0
## 1987.2341	473.4	419.1	527.8	390.4	556.5
## 1987.2368	473.4	418.8	528.1	389.8	557.1
## 1987.2396	473.4	418.5	528.4	389.3	557.6
## 1987.2423	473.4	418.1	528.8	388.8	558.1
## 1987.2450	473.4	417.8	529.1	388.3	558.6
## 1987.2478	473.4	417.5	529.4	387.9	559.0
## 1987.2505	473.4	417.2	529.7	387.4	559.5
## 1987.2533	473.4	416.8	530.1	386.9	560.0
## 1987.2560	473.4	416.5	530.4	386.4	560.5

## 1987.2587	473.4	416.2	530.7	385.9	561.0
## 1987.2615	473.4	415.9	531.0	385.4	561.5
## 1987.2642	473.4	415.6	531.3	385.0	561.9
## 1987.2669	473.4	415.3	531.6	384.5	562.4
## 1987.2697	473.4	415.0	531.9	384.0	562.9
## 1987.2724	473.4	414.7	532.2	383.5	563.4
## 1987.2752	473.4	414.4	532.5	383.1	563.8
## 1987.2779	473.4	414.0	532.9	382.6	564.3
## 1987.2806	473.4	413.7	533.2	382.1	564.8
## 1987.2834	473.4	413.4	533.5	381.7	565.2
## 1987.2861	473.4	413.1	533.8	381.2	565.7
## 1987.2888	473.4	412.8	534.1	380.8	566.1
## 1987.2916	473.4	412.6	534.3	380.3	566.6
## 1987.2943	473.4	412.3	534.6	379.9	567.0
## 1987.2971	473.4	412.0	534.9	379.4	567.5
## 1987.2998	473.4	411.7	535.2	379.0	567.9
## 1987.3025	473.4	411.4	535.5	378.5	568.4
## 1987.3053	473.4	411.1	535.8	378.1	568.8
## 1987.3080	473.4	410.8	536.1	377.6	569.3
## 1987.3107	473.4	410.5	536.4	377.2	569.7
## 1987.3135	473.4	410.2	536.7	376.8	570.1
## 1987.3162	473.4	409.9	537.0	376.3	570.6
## 1987.3190	473.4	409.7	537.2	375.9	571.0
## 1987.3217	473.4	409.4	537.5	375.5	571.4
## 1987.3244	473.4	409.1	537.8	375.0	571.9
## 1987.3272	473.4	408.8	538.1	374.6	572.3
## 1987.3299	473.4	408.5	538.4	374.2	572.7
## 1987.3326	473.4	408.3	538.6	373.8	573.1
## 1987.3354	473.4	408.0	538.9	373.3	573.6
## 1987.3381	473.4	407.7	539.2	372.9	574.0
## 1987.3409	473.4	407.4	539.5	372.5	574.4
## 1987.3436	473.4	407.2	539.7	372.1	574.8
## 1987.3463	473.4	406.9	540.0	371.7	575.2
## 1987.3491	473.4	406.6	540.3	371.3	575.6
## 1987.3518	473.4	406.4	540.5	370.9	576.0
## 1987.3546	473.4	406.1	540.8	370.4	576.5
## 1987.3573	473.4	405.8	541.1	370.0	576.9
## 1987.3600	473.4	405.6	541.3	369.6	577.3
## 1987.3628	473.4	405.3	541.6	369.2	577.7
## 1987.3655	473.4	405.0	541.9	368.8	578.1
## 1987.3682	473.4	404.8	542.1	368.4	578.5
## 1987.3710	473.4	404.5	542.4	368.0	578.9
## 1987.3737	473.4	404.3	542.6	367.6	579.3
## 1987.3765	473.4	404.0	542.9	367.2	579.7
## 1987.3792	473.4	403.7	543.2	366.8	580.1
## 1987.3819	473.4	403.5	543.4	366.4	580.5
## 1987.3847	473.4	403.2	543.7	366.0	580.9
## 1987.3874	473.4	403.0	543.9	365.6	581.3
## 1987.3901	473.4	402.7	544.2	365.3	581.6
## 1987.3929	473.4	402.5	544.4	364.9	582.0
## 1987.3956	473.4	402.2	544.7	364.5	582.4
## 1987.3984	473.4	401.9	545.0	364.1	582.8

## 1987.4011	473.4	401.7	545.2	363.7	583.2
## 1987.4038	473.4	401.4	545.5	363.3	583.6
## 1987.4066	473.4	401.2	545.7	362.9	584.0
## 1987.4093	473.4	400.9	546.0	362.6	584.3
## 1987.4120	473.4	400.7	546.2	362.2	584.7
## 1987.4148	473.4	400.5	546.4	361.8	585.1
## 1987.4175	473.4	400.2	546.7	361.4	585.5
## 1987.4203	473.4	400.0	546.9	361.1	585.8
## 1987.4230	473.4	399.7	547.2	360.7	586.2
## 1987.4257	473.4	399.5	547.4	360.3	586.6
## 1987.4285	473.4	399.2	547.7	359.9	587.0
## 1987.4312	473.4	399.0	547.9	359.6	587.3
## 1987.4339	473.4	398.7	548.2	359.2	587.7
## 1987.4367	473.4	398.5	548.4	358.8	588.1
## 1987.4394	473.4	398.3	548.6	358.5	588.4
## 1987.4422	473.4	398.0	548.9	358.1	588.8
## 1987.4449	473.4	397.8	549.1	357.7	589.2
## 1987.4476	473.4	397.6	549.3	357.4	589.5
## 1987.4504	473.4	397.3	549.6	357.0	589.9
## 1987.4531	473.4	397.1	549.8	356.6	590.3
## 1987.4559	473.4	396.8	550.1	356.3	590.6
## 1987.4586	473.4	396.6	550.3	355.9	591.0
## 1987.4613	473.4	396.4	550.5	355.6	591.3
## 1987.4641	473.4	396.1	550.8	355.2	591.7
## 1987.4668	473.4	395.9	551.0	354.9	592.0
## 1987.4695	473.4	395.7	551.2	354.5	592.4
## 1987.4723	473.4	395.4	551.5	354.2	592.7
## 1987.4750	473.4	395.2	551.7	353.8	593.1
## 1987.4778	473.4	395.0	551.9	353.4	593.5
## 1987.4805	473.4	394.8	552.1	353.1	593.8
## 1987.4832	473.4	394.5	552.4	352.7	594.2
## 1987.4860	473.4	394.3	552.6	352.4	594.5
## 1987.4887	473.4	394.1	552.8	352.1	594.8
## 1987.4914	473.4	393.8	553.1	351.7	595.2
## 1987.4942	473.4	393.6	553.3	351.4	595.5
## 1987.4969	473.4	393.4	553.5	351.0	595.9
## 1987.4997	473.4	393.2	553.7	350.7	596.2
## 1987.5024	473.4	392.9	554.0	350.3	596.6
## 1987.5051	473.4	392.7	554.2	350.0	596.9
## 1987.5079	473.4	392.5	554.4	349.6	597.3
## 1987.5106	473.4	392.3	554.6	349.3	597.6
## 1987.5133	473.4	392.1	554.8	349.0	597.9
## 1987.5161	473.4	391.8	555.1	348.6	598.3
## 1987.5188	473.4	391.6	555.3	348.3	598.6
## 1987.5216	473.4	391.4	555.5	348.0	598.9
## 1987.5243	473.4	391.2	555.7	347.6	599.3
## 1987.5270	473.4	391.0	555.9	347.3	599.6
## 1987.5298	473.4	390.7	556.2	347.0	599.9
## 1987.5325	473.4	390.5	556.4	346.6	600.3
## 1987.5352	473.4	390.3	556.6	346.3	600.6
## 1987.5380	473.4	390.1	556.8	346.0	600.9
## 1987.5407	473.4	389.9	557.0	345.6	601.3

## 1987.5435	473.4	389.7	557.2	345.3	601.6
## 1987.5462	473.4	389.4	557.5	345.0	601.9
## 1987.5489	473.4	389.2	557.7	344.6	602.3
## 1987.5517	473.4	389.0	557.9	344.3	602.6
## 1987.5544	473.4	388.8	558.1	344.0	602.9
## 1987.5572	473.4	388.6	558.3	343.7	603.2
## 1987.5599	473.4	388.4	558.5	343.3	603.6
## 1987.5626	473.4	388.2	558.7	343.0	603.9
## 1987.5654	473.4	388.0	558.9	342.7	604.2
## 1987.5681	473.4	387.7	559.2	342.4	604.5
## 1987.5708	473.4	387.5	559.4	342.1	604.8
## 1987.5736	473.4	387.3	559.6	341.7	605.2
## 1987.5763	473.4	387.1	559.8	341.4	605.5
## 1987.5791	473.4	386.9	560.0	341.1	605.8
## 1987.5818	473.4	386.7	560.2	340.8	606.1
## 1987.5845	473.4	386.5	560.4	340.5	606.4
## 1987.5873	473.4	386.3	560.6	340.2	606.7
## 1987.5900	473.4	386.1	560.8	339.8	607.1
## 1987.5927	473.4	385.9	561.0	339.5	607.4
## 1987.5955	473.4	385.7	561.2	339.2	607.7
## 1987.5982	473.4	385.5	561.4	338.9	608.0
## 1987.6010	473.4	385.3	561.6	338.6	608.3
## 1987.6037	473.4	385.1	561.8	338.3	608.6
## 1987.6064	473.4	384.9	562.0	338.0	608.9
## 1987.6092	473.4	384.7	562.2	337.6	609.3
## 1987.6119	473.4	384.5	562.4	337.3	609.6
## 1987.6146	473.4	384.2	562.7	337.0	609.9
## 1987.6174	473.4	384.0	562.9	336.7	610.2
## 1987.6201	473.4	383.8	563.1	336.4	610.5
## 1987.6229	473.4	383.6	563.3	336.1	610.8
## 1987.6256	473.4	383.4	563.5	335.8	611.1
## 1987.6283	473.4	383.2	563.7	335.5	611.4
## 1987.6311	473.4	383.0	563.9	335.2	611.7
## 1987.6338	473.4	382.8	564.1	334.9	612.0
## 1987.6366	473.4	382.6	564.3	334.6	612.3
## 1987.6393	473.4	382.5	564.4	334.3	612.6
## 1987.6420	473.4	382.3	564.6	334.0	612.9
## 1987.6448	473.4	382.1	564.8	333.7	613.2
## 1987.6475	473.4	381.9	565.0	333.4	613.5
## 1987.6502	473.4	381.7	565.2	333.1	613.8
## 1987.6530	473.4	381.5	565.4	332.8	614.1
## 1987.6557	473.4	381.3	565.6	332.5	614.4
## 1987.6585	473.4	381.1	565.8	332.2	614.7
## 1987.6612	473.4	380.9	566.0	331.9	615.0
## 1987.6639	473.4	380.7	566.2	331.6	615.3
## 1987.6667	473.4	380.5	566.4	331.3	615.6
## 1987.6694	473.4	380.3	566.6	331.0	615.9
## 1987.6721	473.4	380.1	566.8	330.7	616.2
## 1987.6749	473.4	379.9	567.0	330.4	616.5
## 1987.6776	473.4	379.7	567.2	330.1	616.8
## 1987.6804	473.4	379.5	567.4	329.8	617.1
## 1987.6831	473.4	379.3	567.6	329.5	617.4

## 1987.6858	473.4	379.1	567.8	329.2	617.7
## 1987.6886	473.4	379.0	567.9	328.9	618.0
## 1987.6913	473.4	378.8	568.1	328.6	618.3
## 1987.6940	473.4	378.6	568.3	328.4	618.5
## 1987.6968	473.4	378.4	568.5	328.1	618.8
## 1987.6995	473.4	378.2	568.7	327.8	619.1
## 1987.7023	473.4	378.0	568.9	327.5	619.4
## 1987.7050	473.4	377.8	569.1	327.2	619.7
## 1987.7077	473.4	377.6	569.3	326.9	620.0
## 1987.7105	473.4	377.4	569.5	326.6	620.3
## 1987.7132	473.4	377.3	569.6	326.3	620.6
## 1987.7159	473.4	377.1	569.8	326.0	620.9
## 1987.7187	473.4	376.9	570.0	325.8	621.1
## 1987.7214	473.4	376.7	570.2	325.5	621.4
## 1987.7242	473.4	376.5	570.4	325.2	621.7
## 1987.7269	473.4	376.3	570.6	324.9	622.0
## 1987.7296	473.4	376.1	570.8	324.6	622.3
## 1987.7324	473.4	376.0	570.9	324.3	622.6
## 1987.7351	473.4	375.8	571.1	324.1	622.8
## 1987.7379	473.4	375.6	571.3	323.8	623.1
## 1987.7406	473.4	375.4	571.5	323.5	623.4
## 1987.7433	473.4	375.2	571.7	323.2	623.7
## 1987.7461	473.4	375.0	571.9	322.9	624.0
## 1987.7488	473.4	374.9	572.0	322.7	624.2
## 1987.7515	473.4	374.7	572.2	322.4	624.5
## 1987.7543	473.4	374.5	572.4	322.1	624.8
## 1987.7570	473.4	374.3	572.6	321.8	625.1
## 1987.7598	473.4	374.1	572.8	321.5	625.4
## 1987.7625	473.4	373.9	573.0	321.3	625.6
## 1987.7652	473.4	373.8	573.1	321.0	625.9
## 1987.7680	473.4	373.6	573.3	320.7	626.2
## 1987.7707	473.4	373.4	573.5	320.4	626.5
## 1987.7734	473.4	373.2	573.7	320.2	626.7
## 1987.7762	473.4	373.0	573.9	319.9	627.0
## 1987.7789	473.4	372.9	574.0	319.6	627.3
## 1987.7817	473.4	372.7	574.2	319.3	627.6
## 1987.7844	473.4	372.5	574.4	319.1	627.8
## 1987.7871	473.4	372.3	574.6	318.8	628.1
## 1987.7899	473.4	372.2	574.7	318.5	628.4
## 1987.7926	473.4	372.0	574.9	318.3	628.6
## 1987.7953	473.4	371.8	575.1	318.0	628.9
## 1987.7981	473.4	371.6	575.3	317.7	629.2
## 1987.8008	473.4	371.4	575.5	317.4	629.5
## 1987.8036	473.4	371.3	575.6	317.2	629.7
## 1987.8063	473.4	371.1	575.8	316.9	630.0
## 1987.8090	473.4	370.9	576.0	316.6	630.3
## 1987.8118	473.4	370.7	576.2	316.4	630.5
## 1987.8145	473.4	370.6	576.3	316.1	630.8
## 1987.8172	473.4	370.4	576.5	315.8	631.1
## 1987.8200	473.4	370.2	576.7	315.6	631.3
## 1987.8227	473.4	370.0	576.9	315.3	631.6
## 1987.8255	473.4	369.9	577.0	315.0	631.9

## 1987.8282	473.4	369.7	577.2	314.8	632.1
## 1987.8309	473.4	369.5	577.4	314.5	632.4
## 1987.8337	473.4	369.3	577.6	314.2	632.7
## 1987.8364	473.4	369.2	577.7	314.0	632.9
## 1987.8392	473.4	369.0	577.9	313.7	633.2
## 1987.8419	473.4	368.8	578.1	313.4	633.5
## 1987.8446	473.4	368.7	578.2	313.2	633.7
## 1987.8474	473.4	368.5	578.4	312.9	634.0
## 1987.8501	473.4	368.3	578.6	312.7	634.2
## 1987.8528	473.4	368.1	578.8	312.4	634.5
## 1987.8556	473.4	368.0	578.9	312.1	634.8
## 1987.8583	473.4	367.8	579.1	311.9	635.0
## 1987.8611	473.4	367.6	579.3	311.6	635.3
## 1987.8638	473.4	367.5	579.4	311.4	635.5
## 1987.8665	473.4	367.3	579.6	311.1	635.8
## 1987.8693	473.4	367.1	579.8	310.8	636.1
## 1987.8720	473.4	367.0	579.9	310.6	636.3
## 1987.8747	473.4	366.8	580.1	310.3	636.6
## 1987.8775	473.4	366.6	580.3	310.1	636.8
## 1987.8802	473.4	366.4	580.5	309.8	637.1
## 1987.8830	473.4	366.3	580.6	309.5	637.4
## 1987.8857	473.4	366.1	580.8	309.3	637.6
## 1987.8884	473.4	365.9	581.0	309.0	637.9
## 1987.8912	473.4	365.8	581.1	308.8	638.1
## 1987.8939	473.4	365.6	581.3	308.5	638.4
## 1987.8966	473.4	365.4	581.5	308.3	638.6
## 1987.8994	473.4	365.3	581.6	308.0	638.9
## 1987.9021	473.4	365.1	581.8	307.8	639.1
## 1987.9049	473.4	364.9	582.0	307.5	639.4
## 1987.9076	473.4	364.8	582.1	307.3	639.6
## 1987.9103	473.4	364.6	582.3	307.0	639.9
## 1987.9131	473.4	364.4	582.5	306.7	640.2
## 1987.9158	473.4	364.3	582.6	306.5	640.4
## 1987.9185	473.4	364.1	582.8	306.2	640.7
## 1987.9213	473.4	364.0	582.9	306.0	640.9
## 1987.9240	473.4	363.8	583.1	305.7	641.2
## 1987.9268	473.4	363.6	583.3	305.5	641.4
## 1987.9295	473.4	363.5	583.4	305.2	641.7
## 1987.9322	473.4	363.3	583.6	305.0	641.9
## 1987.9350	473.4	363.1	583.8	304.7	642.2
## 1987.9377	473.4	363.0	583.9	304.5	642.4
## 1987.9405	473.4	362.8	584.1	304.2	642.7
## 1987.9432	473.4	362.6	584.3	304.0	642.9
## 1987.9459	473.4	362.5	584.4	303.7	643.2
## 1987.9487	473.4	362.3	584.6	303.5	643.4
## 1987.9514	473.4	362.2	584.7	303.2	643.7
## 1987.9541	473.4	362.0	584.9	303.0	643.9
## 1987.9569	473.4	361.8	585.1	302.8	644.1
## 1987.9596	473.4	361.7	585.2	302.5	644.4
## 1987.9624	473.4	361.5	585.4	302.3	644.6
## 1987.9651	473.4	361.4	585.5	302.0	644.9
## 1987.9678	473.4	361.2	585.7	301.8	645.1

## 1987.9706	473.4	361.0	585.9	301.5	645.4
## 1987.9733	473.4	360.9	586.0	301.3	645.6
## 1987.9760	473.4	360.7	586.2	301.0	645.9
## 1987.9788	473.4	360.6	586.3	300.8	646.1
## 1987.9815	473.4	360.4	586.5	300.5	646.4
## 1987.9843	473.4	360.2	586.7	300.3	646.6
## 1987.9870	473.4	360.1	586.8	300.1	646.8
## 1987.9897	473.4	359.9	587.0	299.8	647.1
## 1987.9925	473.4	359.8	587.1	299.6	647.3
## 1987.9952	473.4	359.6	587.3	299.3	647.6
## 1987.9979	473.4	359.4	587.5	299.1	647.8
## 1988.0007	473.4	359.3	587.6	298.9	648.0
## 1988.0034	473.4	359.1	587.8	298.6	648.3
## 1988.0062	473.4	359.0	587.9	298.4	648.5
## 1988.0089	473.4	358.8	588.1	298.1	648.8
## 1988.0116	473.4	358.7	588.2	297.9	649.0
## 1988.0144	473.4	358.5	588.4	297.6	649.3
## 1988.0171	473.4	358.3	588.6	297.4	649.5
## 1988.0198	473.4	358.2	588.7	297.2	649.7
## 1988.0226	473.4	358.0	588.9	296.9	650.0
## 1988.0253	473.4	357.9	589.0	296.7	650.2
## 1988.0281	473.4	357.7	589.2	296.5	650.4
## 1988.0308	473.4	357.6	589.3	296.2	650.7
## 1988.0335	473.4	357.4	589.5	296.0	650.9
## 1988.0363	473.4	357.3	589.6	295.7	651.2
## 1988.0390	473.4	357.1	589.8	295.5	651.4
## 1988.0418	473.4	356.9	590.0	295.3	651.6
## 1988.0445	473.4	356.8	590.1	295.0	651.9
## 1988.0472	473.4	356.6	590.3	294.8	652.1
## 1988.0500	473.4	356.5	590.4	294.6	652.3
## 1988.0527	473.4	356.3	590.6	294.3	652.6
## 1988.0554	473.4	356.2	590.7	294.1	652.8
## 1988.0582	473.4	356.0	590.9	293.9	653.0
## 1988.0609	473.4	355.9	591.0	293.6	653.3
## 1988.0637	473.4	355.7	591.2	293.4	653.5
## 1988.0664	473.4	355.6	591.3	293.2	653.7
## 1988.0691	473.4	355.4	591.5	292.9	654.0
## 1988.0719	473.4	355.3	591.6	292.7	654.2
## 1988.0746	473.4	355.1	591.8	292.5	654.4
## 1988.0773	473.4	355.0	591.9	292.2	654.7
## 1988.0801	473.4	354.8	592.1	292.0	654.9
## 1988.0828	473.4	354.6	592.3	291.8	655.1
## 1988.0856	473.4	354.5	592.4	291.5	655.4
## 1988.0883	473.4	354.3	592.6	291.3	655.6
## 1988.0910	473.4	354.2	592.7	291.1	655.8
## 1988.0938	473.4	354.0	592.9	290.8	656.1
## 1988.0965	473.4	353.9	593.0	290.6	656.3
## 1988.0992	473.4	353.7	593.2	290.4	656.5
## 1988.1020	473.4	353.6	593.3	290.1	656.8
## 1988.1047	473.4	353.4	593.5	289.9	657.0
## 1988.1075	473.4	353.3	593.6	289.7	657.2
## 1988.1102	473.4	353.1	593.8	289.5	657.4

## 1988.1129	473.4	353.0	593.9	289.2	657.7
## 1988.1157	473.4	352.8	594.1	289.0	657.9
## 1988.1184	473.4	352.7	594.2	288.8	658.1
## 1988.1211	473.4	352.5	594.4	288.5	658.4
## 1988.1239	473.4	352.4	594.5	288.3	658.6
## 1988.1266	473.4	352.2	594.7	288.1	658.8
## 1988.1294	473.4	352.1	594.8	287.9	659.0
## 1988.1321	473.4	352.0	594.9	287.6	659.3
## 1988.1348	473.4	351.8	595.1	287.4	659.5
## 1988.1376	473.4	351.7	595.2	287.2	659.7
## 1988.1403	473.4	351.5	595.4	287.0	659.9
## 1988.1431	473.4	351.4	595.5	286.7	660.2
## 1988.1458	473.4	351.2	595.7	286.5	660.4
## 1988.1485	473.4	351.1	595.8	286.3	660.6
## 1988.1513	473.4	350.9	596.0	286.1	660.8
## 1988.1540	473.4	350.8	596.1	285.8	661.1
## 1988.1567	473.4	350.6	596.3	285.6	661.3
## 1988.1595	473.4	350.5	596.4	285.4	661.5
## 1988.1622	473.4	350.3	596.6	285.2	661.7
## 1988.1650	473.4	350.2	596.7	284.9	662.0
## 1988.1677	473.4	350.0	596.9	284.7	662.2
## 1988.1704	473.4	349.9	597.0	284.5	662.4
## 1988.1732	473.4	349.7	597.2	284.3	662.6
## 1988.1759	473.4	349.6	597.3	284.0	662.9
## 1988.1786	473.4	349.5	597.4	283.8	663.1
## 1988.1814	473.4	349.3	597.6	283.6	663.3
## 1988.1841	473.4	349.2	597.7	283.4	663.5
## 1988.1869	473.4	349.0	597.9	283.2	663.7
## 1988.1896	473.4	348.9	598.0	282.9	664.0
## 1988.1923	473.4	348.7	598.2	282.7	664.2
## 1988.1951	473.4	348.6	598.3	282.5	664.4
## 1988.1978	473.4	348.4	598.5	282.3	664.6
## 1988.2005	473.4	348.3	598.6	282.1	664.8
## 1988.2033	473.4	348.2	598.7	281.8	665.1
## 1988.2060	473.4	348.0	598.9	281.6	665.3
## 1988.2088	473.4	347.9	599.0	281.4	665.5
## 1988.2115	473.4	347.7	599.2	281.2	665.7
## 1988.2142	473.4	347.6	599.3	281.0	665.9
## 1988.2170	473.4	347.4	599.5	280.7	666.2
## 1988.2197	473.4	347.3	599.6	280.5	666.4
## 1988.2225	473.4	347.2	599.7	280.3	666.6
## 1988.2252	473.4	347.0	599.9	280.1	666.8
## 1988.2279	473.4	346.9	600.0	279.9	667.0
## 1988.2307	473.4	346.7	600.2	279.6	667.3
## 1988.2334	473.4	346.6	600.3	279.4	667.5
## 1988.2361	473.4	346.4	600.5	279.2	667.7
## 1988.2389	473.4	346.3	600.6	279.0	667.9
## 1988.2416	473.4	346.2	600.7	278.8	668.1
## 1988.2444	473.4	346.0	600.9	278.6	668.3
## 1988.2471	473.4	345.9	601.0	278.3	668.6
## 1988.2498	473.4	345.7	601.2	278.1	668.8
## 1988.2526	473.4	345.6	601.3	277.9	669.0

## 1988.2553	473.4	345.5	601.4	277.7	669.2
## 1988.2580	473.4	345.3	601.6	277.5	669.4
## 1988.2608	473.4	345.2	601.7	277.3	669.6
## 1988.2635	473.4	345.0	601.9	277.1	669.8
## 1988.2663	473.4	344.9	602.0	276.8	670.1
## 1988.2690	473.4	344.8	602.1	276.6	670.3
## 1988.2717	473.4	344.6	602.3	276.4	670.5
## 1988.2745	473.4	344.5	602.4	276.2	670.7
## 1988.2772	473.4	344.3	602.6	276.0	670.9
## 1988.2799	473.4	344.2	602.7	275.8	671.1
## 1988.2827	473.4	344.1	602.8	275.6	671.3
## 1988.2854	473.4	343.9	603.0	275.4	671.5
## 1988.2882	473.4	343.8	603.1	275.1	671.8
## 1988.2909	473.4	343.6	603.3	274.9	672.0
## 1988.2936	473.4	343.5	603.4	274.7	672.2
## 1988.2964	473.4	343.4	603.5	274.5	672.4
## 1988.2991	473.4	343.2	603.7	274.3	672.6
## 1988.3018	473.4	343.1	603.8	274.1	672.8
## 1988.3046	473.4	343.0	603.9	273.9	673.0
## 1988.3073	473.4	342.8	604.1	273.7	673.2
## 1988.3101	473.4	342.7	604.2	273.4	673.5
## 1988.3128	473.4	342.5	604.4	273.2	673.7
## 1988.3155	473.4	342.4	604.5	273.0	673.9
## 1988.3183	473.4	342.3	604.6	272.8	674.1
## 1988.3210	473.4	342.1	604.8	272.6	674.3
## 1988.3238	473.4	342.0	604.9	272.4	674.5
## 1988.3265	473.4	341.9	605.0	272.2	674.7
## 1988.3292	473.4	341.7	605.2	272.0	674.9
## 1988.3320	473.4	341.6	605.3	271.8	675.1
## 1988.3347	473.4	341.4	605.5	271.6	675.3
## 1988.3374	473.4	341.3	605.6	271.4	675.5
## 1988.3402	473.4	341.2	605.7	271.1	675.8
## 1988.3429	473.4	341.0	605.9	270.9	676.0
## 1988.3457	473.4	340.9	606.0	270.7	676.2
## 1988.3484	473.4	340.8	606.1	270.5	676.4
## 1988.3511	473.4	340.6	606.3	270.3	676.6
## 1988.3539	473.4	340.5	606.4	270.1	676.8
## 1988.3566	473.4	340.4	606.5	269.9	677.0
## 1988.3593	473.4	340.2	606.7	269.7	677.2
## 1988.3621	473.4	340.1	606.8	269.5	677.4
## 1988.3648	473.4	340.0	606.9	269.3	677.6
## 1988.3676	473.4	339.8	607.1	269.1	677.8
## 1988.3703	473.4	339.7	607.2	268.9	678.0
## 1988.3730	473.4	339.5	607.4	268.7	678.2
## 1988.3758	473.4	339.4	607.5	268.5	678.4
## 1988.3785	473.4	339.3	607.6	268.3	678.6
## 1988.3812	473.4	339.1	607.8	268.0	678.9
## 1988.3840	473.4	339.0	607.9	267.8	679.1
## 1988.3867	473.4	338.9	608.0	267.6	679.3
## 1988.3895	473.4	338.7	608.2	267.4	679.5
## 1988.3922	473.4	338.6	608.3	267.2	679.7
## 1988.3949	473.4	338.5	608.4	267.0	679.9

## 1988.3977	473.4	338.3	608.6	266.8	680.1
## 1988.4004	473.4	338.2	608.7	266.6	680.3
## 1988.4031	473.4	338.1	608.8	266.4	680.5
## 1988.4059	473.4	337.9	609.0	266.2	680.7
## 1988.4086	473.4	337.8	609.1	266.0	680.9
## 1988.4114	473.4	337.7	609.2	265.8	681.1
## 1988.4141	473.4	337.5	609.4	265.6	681.3
## 1988.4168	473.4	337.4	609.5	265.4	681.5
## 1988.4196	473.4	337.3	609.6	265.2	681.7
## 1988.4223	473.4	337.1	609.8	265.0	681.9
## 1988.4251	473.4	337.0	609.9	264.8	682.1
## 1988.4278	473.4	336.9	610.0	264.6	682.3
## 1988.4305	473.4	336.8	610.1	264.4	682.5
## 1988.4333	473.4	336.6	610.3	264.2	682.7
## 1988.4360	473.4	336.5	610.4	264.0	682.9
## 1988.4387	473.4	336.4	610.5	263.8	683.1
## 1988.4415	473.4	336.2	610.7	263.6	683.3
## 1988.4442	473.4	336.1	610.8	263.4	683.5
## 1988.4470	473.4	336.0	610.9	263.2	683.7
## 1988.4497	473.4	335.8	611.1	263.0	683.9
## 1988.4524	473.4	335.7	611.2	262.8	684.1
## 1988.4552	473.4	335.6	611.3	262.6	684.3
## 1988.4579	473.4	335.4	611.5	262.4	684.5
## 1988.4606	473.4	335.3	611.6	262.2	684.7
## 1988.4634	473.4	335.2	611.7	262.0	684.9
## 1988.4661	473.4	335.1	611.8	261.8	685.1
## 1988.4689	473.4	334.9	612.0	261.6	685.3
## 1988.4716	473.4	334.8	612.1	261.4	685.5
## 1988.4743	473.4	334.7	612.2	261.2	685.7
## 1988.4771	473.4	334.5	612.4	261.0	685.9
## 1988.4798	473.4	334.4	612.5	260.8	686.1
## 1988.4825	473.4	334.3	612.6	260.6	686.3
## 1988.4853	473.4	334.1	612.8	260.4	686.5
## 1988.4880	473.4	334.0	612.9	260.2	686.7
## 1988.4908	473.4	333.9	613.0	260.0	686.9
## 1988.4935	473.4	333.8	613.1	259.8	687.1
## 1988.4962	473.4	333.6	613.3	259.6	687.3
## 1988.4990	473.4	333.5	613.4	259.4	687.5
## 1988.5017	473.4	333.4	613.5	259.2	687.7
## 1988.5044	473.4	333.2	613.7	259.0	687.9
## 1988.5072	473.4	333.1	613.8	258.8	688.1
## 1988.5099	473.4	333.0	613.9	258.6	688.3
## 1988.5127	473.4	332.9	614.0	258.4	688.5
## 1988.5154	473.4	332.7	614.2	258.2	688.7
## 1988.5181	473.4	332.6	614.3	258.0	688.9
## 1988.5209	473.4	332.5	614.4	257.8	689.1
## 1988.5236	473.4	332.3	614.6	257.7	689.2
## 1988.5264	473.4	332.2	614.7	257.5	689.4
## 1988.5291	473.4	332.1	614.8	257.3	689.6
## 1988.5318	473.4	332.0	614.9	257.1	689.8
## 1988.5346	473.4	331.8	615.1	256.9	690.0
## 1988.5373	473.4	331.7	615.2	256.7	690.2

## 1988.5400	473.4	331.6	615.3	256.5	690.4
## 1988.5428	473.4	331.5	615.4	256.3	690.6
## 1988.5455	473.4	331.3	615.6	256.1	690.8
## 1988.5483	473.4	331.2	615.7	255.9	691.0
## 1988.5510	473.4	331.1	615.8	255.7	691.2
## 1988.5537	473.4	330.9	616.0	255.5	691.4
## 1988.5565	473.4	330.8	616.1	255.3	691.6
## 1988.5592	473.4	330.7	616.2	255.1	691.8
## 1988.5619	473.4	330.6	616.3	254.9	692.0
## 1988.5647	473.4	330.4	616.5	254.7	692.2
## 1988.5674	473.4	330.3	616.6	254.6	692.3
## 1988.5702	473.4	330.2	616.7	254.4	692.5
## 1988.5729	473.4	330.1	616.8	254.2	692.7
## 1988.5756	473.4	329.9	617.0	254.0	692.9
## 1988.5784	473.4	329.8	617.1	253.8	693.1
## 1988.5811	473.4	329.7	617.2	253.6	693.3
## 1988.5838	473.4	329.6	617.3	253.4	693.5
## 1988.5866	473.4	329.4	617.5	253.2	693.7
## 1988.5893	473.4	329.3	617.6	253.0	693.9
## 1988.5921	473.4	329.2	617.7	252.8	694.1
## 1988.5948	473.4	329.1	617.8	252.6	694.3
## 1988.5975	473.4	328.9	618.0	252.4	694.5
## 1988.6003	473.4	328.8	618.1	252.3	694.6
## 1988.6030	473.4	328.7	618.2	252.1	694.8
## 1988.6057	473.4	328.6	618.3	251.9	695.0
## 1988.6085	473.4	328.4	618.5	251.7	695.2
## 1988.6112	473.4	328.3	618.6	251.5	695.4
## 1988.6140	473.4	328.2	618.7	251.3	695.6
## 1988.6167	473.4	328.1	618.8	251.1	695.8
## 1988.6194	473.4	327.9	619.0	250.9	696.0
## 1988.6222	473.4	327.8	619.1	250.7	696.2
## 1988.6249	473.4	327.7	619.2	250.5	696.4
## 1988.6277	473.4	327.6	619.3	250.4	696.5
## 1988.6304	473.4	327.5	619.4	250.2	696.7
## 1988.6331	473.4	327.3	619.6	250.0	696.9
## 1988.6359	473.4	327.2	619.7	249.8	697.1
## 1988.6386	473.4	327.1	619.8	249.6	697.3
## 1988.6413	473.4	327.0	619.9	249.4	697.5
## 1988.6441	473.4	326.8	620.1	249.2	697.7
## 1988.6468	473.4	326.7	620.2	249.0	697.9
## 1988.6496	473.4	326.6	620.3	248.9	698.0
## 1988.6523	473.4	326.5	620.4	248.7	698.2
## 1988.6550	473.4	326.3	620.6	248.5	698.4
## 1988.6578	473.4	326.2	620.7	248.3	698.6
## 1988.6605	473.4	326.1	620.8	248.1	698.8
## 1988.6632	473.4	326.0	620.9	247.9	699.0
## 1988.6660	473.4	325.9	621.0	247.7	699.2
## 1988.6687	473.4	325.7	621.2	247.5	699.4
## 1988.6715	473.4	325.6	621.3	247.4	699.5
## 1988.6742	473.4	325.5	621.4	247.2	699.7
## 1988.6769	473.4	325.4	621.5	247.0	699.9
## 1988.6797	473.4	325.3	621.6	246.8	700.1

## 1988.6824	473.4	325.1	621.8	246.6	700.3
## 1988.6851	473.4	325.0	621.9	246.4	700.5
## 1988.6879	473.4	324.9	622.0	246.2	700.7
## 1988.6906	473.4	324.8	622.1	246.1	700.8
## 1988.6934	473.4	324.6	622.3	245.9	701.0
## 1988.6961	473.4	324.5	622.4	245.7	701.2
## 1988.6988	473.4	324.4	622.5	245.5	701.4
## 1988.7016	473.4	324.3	622.6	245.3	701.6
## 1988.7043	473.4	324.2	622.7	245.1	701.8
## 1988.7070	473.4	324.0	622.9	245.0	701.9
## 1988.7098	473.4	323.9	623.0	244.8	702.1
## 1988.7125	473.4	323.8	623.1	244.6	702.3
## 1988.7153	473.4	323.7	623.2	244.4	702.5
## 1988.7180	473.4	323.6	623.3	244.2	702.7
## 1988.7207	473.4	323.4	623.5	244.0	702.9
## 1988.7235	473.4	323.3	623.6	243.8	703.1
## 1988.7262	473.4	323.2	623.7	243.7	703.2
## 1988.7290	473.4	323.1	623.8	243.5	703.4
## 1988.7317	473.4	323.0	623.9	243.3	703.6
## 1988.7344	473.4	322.8	624.1	243.1	703.8
## 1988.7372	473.4	322.7	624.2	242.9	704.0
## 1988.7399	473.4	322.6	624.3	242.8	704.1
## 1988.7426	473.4	322.5	624.4	242.6	704.3
## 1988.7454	473.4	322.4	624.5	242.4	704.5
## 1988.7481	473.4	322.2	624.7	242.2	704.7
## 1988.7509	473.4	322.1	624.8	242.0	704.9
## 1988.7536	473.4	322.0	624.9	241.8	705.1
## 1988.7563	473.4	321.9	625.0	241.7	705.2
## 1988.7591	473.4	321.8	625.1	241.5	705.4
## 1988.7618	473.4	321.7	625.2	241.3	705.6
## 1988.7645	473.4	321.5	625.4	241.1	705.8
## 1988.7673	473.4	321.4	625.5	240.9	706.0
## 1988.7700	473.4	321.3	625.6	240.8	706.1
## 1988.7728	473.4	321.2	625.7	240.6	706.3
## 1988.7755	473.4	321.1	625.8	240.4	706.5
## 1988.7782	473.4	320.9	626.0	240.2	706.7
## 1988.7810	473.4	320.8	626.1	240.0	706.9
## 1988.7837	473.4	320.7	626.2	239.8	707.1
## 1988.7864	473.4	320.6	626.3	239.7	707.2
## 1988.7892	473.4	320.5	626.4	239.5	707.4
## 1988.7919	473.4	320.4	626.5	239.3	707.6
## 1988.7947	473.4	320.2	626.7	239.1	707.8
## 1988.7974	473.4	320.1	626.8	238.9	708.0
## 1988.8001	473.4	320.0	626.9	238.8	708.1
## 1988.8029	473.4	319.9	627.0	238.6	708.3
## 1988.8056	473.4	319.8	627.1	238.4	708.5
## 1988.8084	473.4	319.6	627.3	238.2	708.7
## 1988.8111	473.4	319.5	627.4	238.1	708.8
## 1988.8138	473.4	319.4	627.5	237.9	709.0
## 1988.8166	473.4	319.3	627.6	237.7	709.2
## 1988.8193	473.4	319.2	627.7	237.5	709.4
## 1988.8220	473.4	319.1	627.8	237.3	709.6

## 1988.8248	473.4	318.9	628.0	237.2	709.7
## 1988.8275	473.4	318.8	628.1	237.0	709.9
## 1988.8303	473.4	318.7	628.2	236.8	710.1
## 1988.8330	473.4	318.6	628.3	236.6	710.3
## 1988.8357	473.4	318.5	628.4	236.4	710.5
## 1988.8385	473.4	318.4	628.5	236.3	710.6
## 1988.8412	473.4	318.3	628.6	236.1	710.8
## 1988.8439	473.4	318.1	628.8	235.9	711.0
## 1988.8467	473.4	318.0	628.9	235.7	711.2
## 1988.8494	473.4	317.9	629.0	235.6	711.3
## 1988.8522	473.4	317.8	629.1	235.4	711.5
## 1988.8549	473.4	317.7	629.2	235.2	711.7
## 1988.8576	473.4	317.6	629.3	235.0	711.9
## 1988.8604	473.4	317.4	629.5	234.9	712.0
## 1988.8631	473.4	317.3	629.6	234.7	712.2
## 1988.8658	473.4	317.2	629.7	234.5	712.4
## 1988.8686	473.4	317.1	629.8	234.3	712.6
## 1988.8713	473.4	317.0	629.9	234.1	712.8
## 1988.8741	473.4	316.9	630.0	234.0	712.9
## 1988.8768	473.4	316.8	630.1	233.8	713.1
## 1988.8795	473.4	316.6	630.3	233.6	713.3
## 1988.8823	473.4	316.5	630.4	233.4	713.5
## 1988.8850	473.4	316.4	630.5	233.3	713.6
## 1988.8877	473.4	316.3	630.6	233.1	713.8
## 1988.8905	473.4	316.2	630.7	232.9	714.0
## 1988.8932	473.4	316.1	630.8	232.7	714.2
## 1988.8960	473.4	315.9	631.0	232.6	714.3
## 1988.8987	473.4	315.8	631.1	232.4	714.5
## 1988.9014	473.4	315.7	631.2	232.2	714.7
## 1988.9042	473.4	315.6	631.3	232.0	714.9
## 1988.9069	473.4	315.5	631.4	231.9	715.0
## 1988.9097	473.4	315.4	631.5	231.7	715.2
## 1988.9124	473.4	315.3	631.6	231.5	715.4
## 1988.9151	473.4	315.1	631.8	231.4	715.5
## 1988.9179	473.4	315.0	631.9	231.2	715.7
## 1988.9206	473.4	314.9	632.0	231.0	715.9
## 1988.9233	473.4	314.8	632.1	230.8	716.1
## 1988.9261	473.4	314.7	632.2	230.7	716.2
## 1988.9288	473.4	314.6	632.3	230.5	716.4
## 1988.9316	473.4	314.5	632.4	230.3	716.6
## 1988.9343	473.4	314.4	632.5	230.1	716.8
## 1988.9370	473.4	314.2	632.7	230.0	716.9
## 1988.9398	473.4	314.1	632.8	229.8	717.1
## 1988.9425	473.4	314.0	632.9	229.6	717.3
## 1988.9452	473.4	313.9	633.0	229.4	717.5
## 1988.9480	473.4	313.8	633.1	229.3	717.6
## 1988.9507	473.4	313.7	633.2	229.1	717.8
## 1988.9535	473.4	313.6	633.3	228.9	718.0
## 1988.9562	473.4	313.5	633.4	228.8	718.1
## 1988.9589	473.4	313.3	633.6	228.6	718.3
## 1988.9617	473.4	313.2	633.7	228.4	718.5
## 1988.9644	473.4	313.1	633.8	228.2	718.7

## 1988.9671	473.4	313.0	633.9	228.1	718.8
## 1988.9699	473.4	312.9	634.0	227.9	719.0
## 1988.9726	473.4	312.8	634.1	227.7	719.2
## 1988.9754	473.4	312.7	634.2	227.6	719.3
## 1988.9781	473.4	312.6	634.3	227.4	719.5
## 1988.9808	473.4	312.4	634.5	227.2	719.7
## 1988.9836	473.4	312.3	634.6	227.0	719.9
## 1988.9863	473.4	312.2	634.7	226.9	720.0
## 1988.9890	473.4	312.1	634.8	226.7	720.2
## 1988.9918	473.4	312.0	634.9	226.5	720.4
## 1988.9945	473.4	311.9	635.0	226.4	720.5
## 1988.9973	473.4	311.8	635.1	226.2	720.7
## 1989.0000	473.4	311.7	635.2	226.0	720.9
## 1989.0027	473.4	311.6	635.3	225.8	721.1
## 1989.0055	473.4	311.4	635.5	225.7	721.2
## 1989.0082	473.4	311.3	635.6	225.5	721.4
## 1989.0110	473.4	311.2	635.7	225.3	721.6
## 1989.0137	473.4	311.1	635.8	225.2	721.7
## 1989.0164	473.4	311.0	635.9	225.0	721.9
## 1989.0192	473.4	310.9	636.0	224.8	722.1
## 1989.0219	473.4	310.8	636.1	224.7	722.2
## 1989.0246	473.4	310.7	636.2	224.5	722.4
## 1989.0274	473.4	310.6	636.3	224.3	722.6
## 1989.0301	473.4	310.4	636.5	224.2	722.7
## 1989.0329	473.4	310.3	636.6	224.0	722.9
## 1989.0356	473.4	310.2	636.7	223.8	723.1
## 1989.0383	473.4	310.1	636.8	223.6	723.3
## 1989.0411	473.4	310.0	636.9	223.5	723.4
## 1989.0438	473.4	309.9	637.0	223.3	723.6
## 1989.0465	473.4	309.8	637.1	223.1	723.8
## 1989.0493	473.4	309.7	637.2	223.0	723.9
## 1989.0520	473.4	309.6	637.3	222.8	724.1
## 1989.0548	473.4	309.5	637.4	222.6	724.3
## 1989.0575	473.4	309.3	637.6	222.5	724.4
## 1989.0602	473.4	309.2	637.7	222.3	724.6
## 1989.0630	473.4	309.1	637.8	222.1	724.8
## 1989.0657	473.4	309.0	637.9	222.0	724.9
## 1989.0684	473.4	308.9	638.0	221.8	725.1
## 1989.0712	473.4	308.8	638.1	221.6	725.3
## 1989.0739	473.4	308.7	638.2	221.5	725.4
## 1989.0767	473.4	308.6	638.3	221.3	725.6
## 1989.0794	473.4	308.5	638.4	221.1	725.8
## 1989.0821	473.4	308.4	638.5	221.0	725.9
## 1989.0849	473.4	308.2	638.7	220.8	726.1
## 1989.0876	473.4	308.1	638.8	220.6	726.3
## 1989.0903	473.4	308.0	638.9	220.5	726.4
## 1989.0931	473.4	307.9	639.0	220.3	726.6
## 1989.0958	473.4	307.8	639.1	220.1	726.8
## 1989.0986	473.4	307.7	639.2	220.0	726.9
## 1989.1013	473.4	307.6	639.3	219.8	727.1
## 1989.1040	473.4	307.5	639.4	219.6	727.3
## 1989.1068	473.4	307.4	639.5	219.5	727.4

## 1989.1095	473.4	307.3	639.6	219.3	727.6
## 1989.1123	473.4	307.2	639.7	219.1	727.8
## 1989.1150	473.4	307.1	639.8	219.0	727.9
## 1989.1177	473.4	306.9	640.0	218.8	728.1
## 1989.1205	473.4	306.8	640.1	218.6	728.3
## 1989.1232	473.4	306.7	640.2	218.5	728.4
## 1989.1259	473.4	306.6	640.3	218.3	728.6
## 1989.1287	473.4	306.5	640.4	218.1	728.8
## 1989.1314	473.4	306.4	640.5	218.0	728.9
## 1989.1342	473.4	306.3	640.6	217.8	729.1
## 1989.1369	473.4	306.2	640.7	217.7	729.2
## 1989.1396	473.4	306.1	640.8	217.5	729.4
## 1989.1424	473.4	306.0	640.9	217.3	729.6
## 1989.1451	473.4	305.9	641.0	217.2	729.7
## 1989.1478	473.4	305.8	641.1	217.0	729.9
## 1989.1506	473.4	305.7	641.2	216.8	730.1
## 1989.1533	473.4	305.5	641.4	216.7	730.2
## 1989.1561	473.4	305.4	641.5	216.5	730.4
## 1989.1588	473.4	305.3	641.6	216.3	730.6
## 1989.1615	473.4	305.2	641.7	216.2	730.7
## 1989.1643	473.4	305.1	641.8	216.0	730.9
## 1989.1670	473.4	305.0	641.9	215.8	731.1
## 1989.1697	473.4	304.9	642.0	215.7	731.2
## 1989.1725	473.4	304.8	642.1	215.5	731.4
## 1989.1752	473.4	304.7	642.2	215.4	731.5
## 1989.1780	473.4	304.6	642.3	215.2	731.7
## 1989.1807	473.4	304.5	642.4	215.0	731.9
## 1989.1834	473.4	304.4	642.5	214.9	732.0
## 1989.1862	473.4	304.3	642.6	214.7	732.2
## 1989.1889	473.4	304.2	642.7	214.5	732.4
## 1989.1916	473.4	304.1	642.8	214.4	732.5
## 1989.1944	473.4	303.9	643.0	214.2	732.7
## 1989.1971	473.4	303.8	643.1	214.1	732.8
## 1989.1999	473.4	303.7	643.2	213.9	733.0
## 1989.2026	473.4	303.6	643.3	213.7	733.2
## 1989.2053	473.4	303.5	643.4	213.6	733.3
## 1989.2081	473.4	303.4	643.5	213.4	733.5
## 1989.2108	473.4	303.3	643.6	213.2	733.7
## 1989.2136	473.4	303.2	643.7	213.1	733.8
## 1989.2163	473.4	303.1	643.8	212.9	734.0
## 1989.2190	473.4	303.0	643.9	212.8	734.1
## 1989.2218	473.4	302.9	644.0	212.6	734.3
## 1989.2245	473.4	302.8	644.1	212.4	734.5
## 1989.2272	473.4	302.7	644.2	212.3	734.6
## 1989.2300	473.4	302.6	644.3	212.1	734.8
## 1989.2327	473.4	302.5	644.4	212.0	734.9
## 1989.2355	473.4	302.4	644.5	211.8	735.1
## 1989.2382	473.4	302.3	644.6	211.6	735.3
## 1989.2409	473.4	302.2	644.7	211.5	735.4
## 1989.2437	473.4	302.0	644.9	211.3	735.6
## 1989.2464	473.4	301.9	645.0	211.1	735.8
## 1989.2491	473.4	301.8	645.1	211.0	735.9

## 1989.2519	473.4	301.7	645.2	210.8	736.1
## 1989.2546	473.4	301.6	645.3	210.7	736.2
## 1989.2574	473.4	301.5	645.4	210.5	736.4
## 1989.2601	473.4	301.4	645.5	210.3	736.6
## 1989.2628	473.4	301.3	645.6	210.2	736.7
## 1989.2656	473.4	301.2	645.7	210.0	736.9
## 1989.2683	473.4	301.1	645.8	209.9	737.0
## 1989.2710	473.4	301.0	645.9	209.7	737.2
## 1989.2738	473.4	300.9	646.0	209.5	737.4
## 1989.2765	473.4	300.8	646.1	209.4	737.5
## 1989.2793	473.4	300.7	646.2	209.2	737.7
## 1989.2820	473.4	300.6	646.3	209.1	737.8
## 1989.2847	473.4	300.5	646.4	208.9	738.0
## 1989.2875	473.4	300.4	646.5	208.8	738.1
## 1989.2902	473.4	300.3	646.6	208.6	738.3
## 1989.2930	473.4	300.2	646.7	208.4	738.5
## 1989.2957	473.4	300.1	646.8	208.3	738.6
## 1989.2984	473.4	300.0	646.9	208.1	738.8
## 1989.3012	473.4	299.9	647.0	208.0	738.9
## 1989.3039	473.4	299.8	647.1	207.8	739.1
## 1989.3066	473.4	299.6	647.3	207.6	739.3
## 1989.3094	473.4	299.5	647.4	207.5	739.4
## 1989.3121	473.4	299.4	647.5	207.3	739.6
## 1989.3149	473.4	299.3	647.6	207.2	739.7
## 1989.3176	473.4	299.2	647.7	207.0	739.9
## 1989.3203	473.4	299.1	647.8	206.9	740.0
## 1989.3231	473.4	299.0	647.9	206.7	740.2
## 1989.3258	473.4	298.9	648.0	206.5	740.4
## 1989.3285	473.4	298.8	648.1	206.4	740.5
## 1989.3313	473.4	298.7	648.2	206.2	740.7
## 1989.3340	473.4	298.6	648.3	206.1	740.8
## 1989.3368	473.4	298.5	648.4	205.9	741.0
## 1989.3395	473.4	298.4	648.5	205.7	741.2
## 1989.3422	473.4	298.3	648.6	205.6	741.3
## 1989.3450	473.4	298.2	648.7	205.4	741.5
## 1989.3477	473.4	298.1	648.8	205.3	741.6
## 1989.3504	473.4	298.0	648.9	205.1	741.8
## 1989.3532	473.4	297.9	649.0	205.0	741.9
## 1989.3559	473.4	297.8	649.1	204.8	742.1
## 1989.3587	473.4	297.7	649.2	204.6	742.3
## 1989.3614	473.4	297.6	649.3	204.5	742.4
## 1989.3641	473.4	297.5	649.4	204.3	742.6
## 1989.3669	473.4	297.4	649.5	204.2	742.7
## 1989.3696	473.4	297.3	649.6	204.0	742.9
## 1989.3723	473.4	297.2	649.7	203.9	743.0
## 1989.3751	473.4	297.1	649.8	203.7	743.2
## 1989.3778	473.4	297.0	649.9	203.6	743.3
## 1989.3806	473.4	296.9	650.0	203.4	743.5
## 1989.3833	473.4	296.8	650.1	203.2	743.7
## 1989.3860	473.4	296.7	650.2	203.1	743.8
## 1989.3888	473.4	296.6	650.3	202.9	744.0
## 1989.3915	473.4	296.5	650.4	202.8	744.1

## 1989.3943	473.4	296.4	650.5	202.6	744.3
## 1989.3970	473.4	296.3	650.6	202.5	744.4
## 1989.3997	473.4	296.2	650.7	202.3	744.6
## 1989.4025	473.4	296.1	650.8	202.2	744.7
## 1989.4052	473.4	296.0	650.9	202.0	744.9
## 1989.4079	473.4	295.9	651.0	201.8	745.1
## 1989.4107	473.4	295.8	651.1	201.7	745.2
## 1989.4134	473.4	295.7	651.2	201.5	745.4
## 1989.4162	473.4	295.6	651.3	201.4	745.5
## 1989.4189	473.4	295.5	651.4	201.2	745.7
## 1989.4216	473.4	295.3	651.6	201.1	745.8
## 1989.4244	473.4	295.2	651.7	200.9	746.0
## 1989.4271	473.4	295.1	651.8	200.8	746.1
## 1989.4298	473.4	295.0	651.9	200.6	746.3
## 1989.4326	473.4	294.9	652.0	200.5	746.4
## 1989.4353	473.4	294.8	652.1	200.3	746.6
## 1989.4381	473.4	294.7	652.2	200.1	746.8
## 1989.4408	473.4	294.6	652.3	200.0	746.9
## 1989.4435	473.4	294.5	652.4	199.8	747.1
## 1989.4463	473.4	294.4	652.5	199.7	747.2
## 1989.4490	473.4	294.3	652.6	199.5	747.4
## 1989.4517	473.4	294.2	652.7	199.4	747.5
## 1989.4545	473.4	294.1	652.8	199.2	747.7
## 1989.4572	473.4	294.0	652.9	199.1	747.8
## 1989.4600	473.4	293.9	653.0	198.9	748.0
## 1989.4627	473.4	293.8	653.1	198.8	748.1
## 1989.4654	473.4	293.7	653.2	198.6	748.3
## 1989.4682	473.4	293.6	653.3	198.5	748.4
## 1989.4709	473.4	293.5	653.4	198.3	748.6
## 1989.4736	473.4	293.4	653.5	198.1	748.8
## 1989.4764	473.4	293.3	653.6	198.0	748.9
## 1989.4791	473.4	293.2	653.7	197.8	749.1
## 1989.4819	473.4	293.1	653.8	197.7	749.2
## 1989.4846	473.4	293.0	653.9	197.5	749.4
## 1989.4873	473.4	292.9	654.0	197.4	749.5
## 1989.4901	473.4	292.8	654.1	197.2	749.7
## 1989.4928	473.4	292.7	654.2	197.1	749.8
## 1989.4956	473.4	292.6	654.3	196.9	750.0
## 1989.4983	473.4	292.5	654.4	196.8	750.1
## 1989.5010	473.4	292.4	654.5	196.6	750.3
## 1989.5038	473.4	292.3	654.6	196.5	750.4
## 1989.5065	473.4	292.2	654.7	196.3	750.6
## 1989.5092	473.4	292.1	654.8	196.2	750.7
## 1989.5120	473.4	292.0	654.9	196.0	750.9
## 1989.5147	473.4	291.9	655.0	195.9	751.0
## 1989.5175	473.4	291.8	655.1	195.7	751.2
## 1989.5202	473.4	291.7	655.2	195.6	751.3
## 1989.5229	473.4	291.6	655.3	195.4	751.5
## 1989.5257	473.4	291.5	655.4	195.3	751.6
## 1989.5284	473.4	291.5	655.4	195.1	751.8
## 1989.5311	473.4	291.4	655.5	195.0	751.9
## 1989.5339	473.4	291.3	655.6	194.8	752.1

## 1989.5366	473.4	291.2	655.7	194.7	752.2
## 1989.5394	473.4	291.1	655.8	194.5	752.4
## 1989.5421	473.4	291.0	655.9	194.4	752.5
## 1989.5448	473.4	290.9	656.0	194.2	752.7
## 1989.5476	473.4	290.8	656.1	194.0	752.9
## 1989.5503	473.4	290.7	656.2	193.9	753.0
## 1989.5530	473.4	290.6	656.3	193.7	753.2
## 1989.5558	473.4	290.5	656.4	193.6	753.3
## 1989.5585	473.4	290.4	656.5	193.4	753.5
## 1989.5613	473.4	290.3	656.6	193.3	753.6
## 1989.5640	473.4	290.2	656.7	193.1	753.8
## 1989.5667	473.4	290.1	656.8	193.0	753.9
## 1989.5695	473.4	290.0	656.9	192.8	754.1
## 1989.5722	473.4	289.9	657.0	192.7	754.2
## 1989.5749	473.4	289.8	657.1	192.5	754.4
## 1989.5777	473.4	289.7	657.2	192.4	754.5
## 1989.5804	473.4	289.6	657.3	192.2	754.7
## 1989.5832	473.4	289.5	657.4	192.1	754.8
## 1989.5859	473.4	289.4	657.5	191.9	755.0
## 1989.5886	473.4	289.3	657.6	191.8	755.1
## 1989.5914	473.4	289.2	657.7	191.6	755.3
## 1989.5941	473.4	289.1	657.8	191.5	755.4
## 1989.5969	473.4	289.0	657.9	191.3	755.6
## 1989.5996	473.4	288.9	658.0	191.2	755.7
## 1989.6023	473.4	288.8	658.1	191.1	755.8
## 1989.6051	473.4	288.7	658.2	190.9	756.0
## 1989.6078	473.4	288.6	658.3	190.8	756.1
## 1989.6105	473.4	288.5	658.4	190.6	756.3
## 1989.6133	473.4	288.4	658.5	190.5	756.4
## 1989.6160	473.4	288.3	658.6	190.3	756.6
## 1989.6188	473.4	288.2	658.7	190.2	756.7
## 1989.6215	473.4	288.1	658.8	190.0	756.9
## 1989.6242	473.4	288.0	658.9	189.9	757.0
## 1989.6270	473.4	287.9	659.0	189.7	757.2
## 1989.6297	473.4	287.8	659.1	189.6	757.3
## 1989.6324	473.4	287.7	659.2	189.4	757.5
## 1989.6352	473.4	287.6	659.3	189.3	757.6
## 1989.6379	473.4	287.5	659.4	189.1	757.8
## 1989.6407	473.4	287.4	659.5	189.0	757.9
## 1989.6434	473.4	287.3	659.6	188.8	758.1
## 1989.6461	473.4	287.2	659.7	188.7	758.2
## 1989.6489	473.4	287.1	659.8	188.5	758.4
## 1989.6516	473.4	287.1	659.8	188.4	758.5
## 1989.6543	473.4	287.0	659.9	188.2	758.7
## 1989.6571	473.4	286.9	660.0	188.1	758.8
## 1989.6598	473.4	286.8	660.1	187.9	759.0
## 1989.6626	473.4	286.7	660.2	187.8	759.1
## 1989.6653	473.4	286.6	660.3	187.6	759.3
## 1989.6680	473.4	286.5	660.4	187.5	759.4
## 1989.6708	473.4	286.4	660.5	187.3	759.6
## 1989.6735	473.4	286.3	660.6	187.2	759.7
## 1989.6762	473.4	286.2	660.7	187.1	759.8

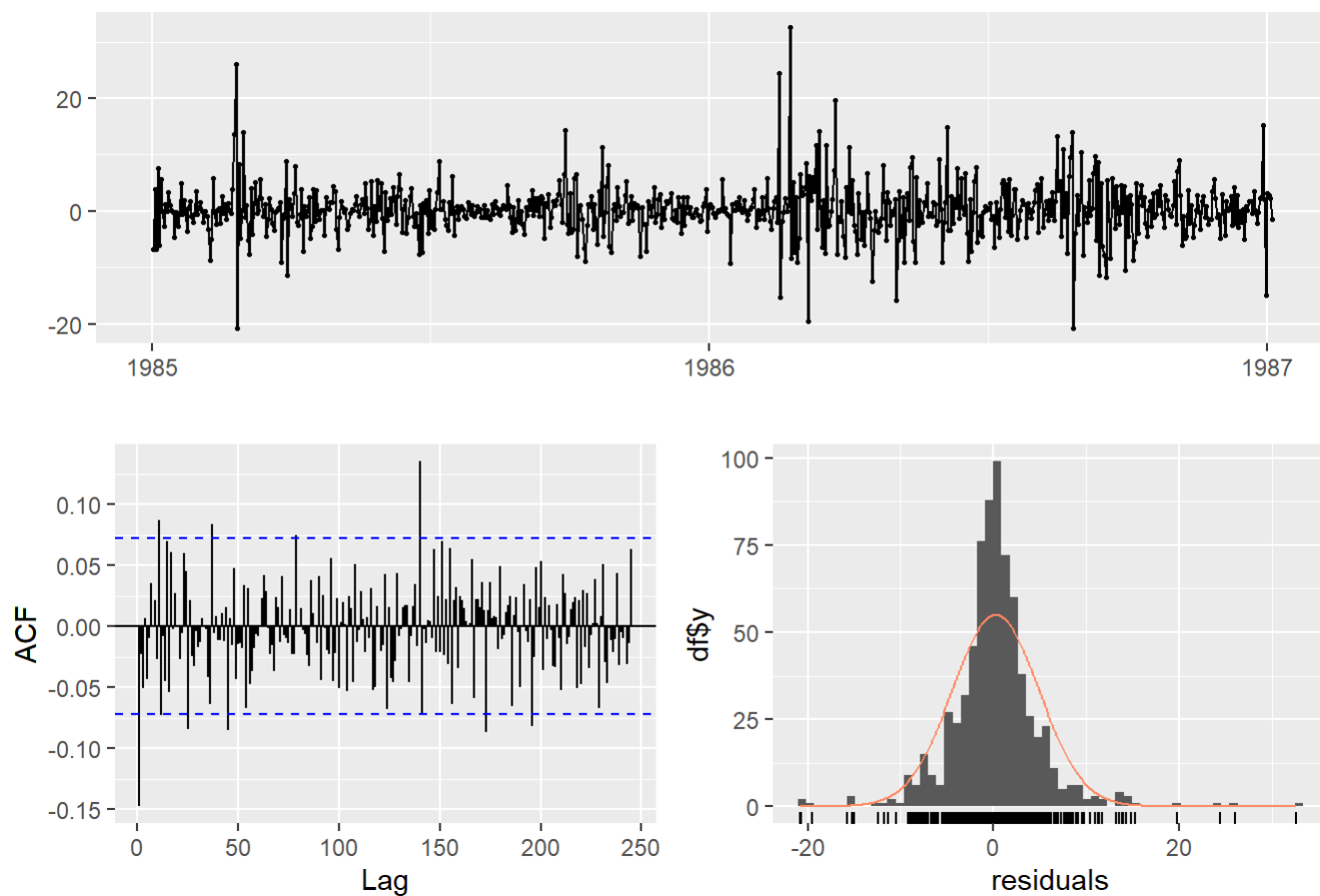
## 1989.6790	473.4	286.1	660.8	186.9	760.0
## 1989.6817	473.4	286.0	660.9	186.8	760.1
## 1989.6845	473.4	285.9	661.0	186.6	760.3
## 1989.6872	473.4	285.8	661.1	186.5	760.4
## 1989.6899	473.4	285.7	661.2	186.3	760.6
## 1989.6927	473.4	285.6	661.3	186.2	760.7
## 1989.6954	473.4	285.5	661.4	186.0	760.9
## 1989.6982	473.4	285.4	661.5	185.9	761.0
## 1989.7009	473.4	285.3	661.6	185.7	761.2
## 1989.7036	473.4	285.2	661.7	185.6	761.3
## 1989.7064	473.4	285.1	661.8	185.4	761.5
## 1989.7091	473.4	285.0	661.9	185.3	761.6
## 1989.7118	473.4	284.9	662.0	185.1	761.8
## 1989.7146	473.4	284.8	662.1	185.0	761.9
## 1989.7173	473.4	284.7	662.2	184.9	762.0
## 1989.7201	473.4	284.7	662.2	184.7	762.2
## 1989.7228	473.4	284.6	662.3	184.6	762.3
## 1989.7255	473.4	284.5	662.4	184.4	762.5
## 1989.7283	473.4	284.4	662.5	184.3	762.6
## 1989.7310	473.4	284.3	662.6	184.1	762.8
## 1989.7337	473.4	284.2	662.7	184.0	762.9
## 1989.7365	473.4	284.1	662.8	183.8	763.1
## 1989.7392	473.4	284.0	662.9	183.7	763.2
## 1989.7420	473.4	283.9	663.0	183.5	763.4
## 1989.7447	473.4	283.8	663.1	183.4	763.5
## 1989.7474	473.4	283.7	663.2	183.3	763.6
## 1989.7502	473.4	283.6	663.3	183.1	763.8
## 1989.7529	473.4	283.5	663.4	183.0	763.9
## 1989.7556	473.4	283.4	663.5	182.8	764.1
## 1989.7584	473.4	283.3	663.6	182.7	764.2
## 1989.7611	473.4	283.2	663.7	182.5	764.4
## 1989.7639	473.4	283.1	663.8	182.4	764.5
## 1989.7666	473.4	283.0	663.9	182.2	764.7
## 1989.7693	473.4	282.9	664.0	182.1	764.8
## 1989.7721	473.4	282.9	664.0	182.0	764.9
## 1989.7748	473.4	282.8	664.1	181.8	765.1
## 1989.7775	473.4	282.7	664.2	181.7	765.2
## 1989.7803	473.4	282.6	664.3	181.5	765.4
## 1989.7830	473.4	282.5	664.4	181.4	765.5
## 1989.7858	473.4	282.4	664.5	181.2	765.7
## 1989.7885	473.4	282.3	664.6	181.1	765.8
## 1989.7912	473.4	282.2	664.7	180.9	766.0
## 1989.7940	473.4	282.1	664.8	180.8	766.1
## 1989.7967	473.4	282.0	664.9	180.7	766.2
## 1989.7995	473.4	281.9	665.0	180.5	766.4
## 1989.8022	473.4	281.8	665.1	180.4	766.5
## 1989.8049	473.4	281.7	665.2	180.2	766.7
## 1989.8077	473.4	281.6	665.3	180.1	766.8
## 1989.8104	473.4	281.5	665.4	179.9	767.0
## 1989.8131	473.4	281.4	665.5	179.8	767.1
## 1989.8159	473.4	281.3	665.6	179.7	767.2
## 1989.8186	473.4	281.3	665.6	179.5	767.4

## 1989.8214	473.4	281.2	665.7	179.4	767.5
## 1989.8241	473.4	281.1	665.8	179.2	767.7
## 1989.8268	473.4	281.0	665.9	179.1	767.8
## 1989.8296	473.4	280.9	666.0	178.9	768.0
## 1989.8323	473.4	280.8	666.1	178.8	768.1
## 1989.8350	473.4	280.7	666.2	178.6	768.3
## 1989.8378	473.4	280.6	666.3	178.5	768.4
## 1989.8405	473.4	280.5	666.4	178.4	768.5
## 1989.8433	473.4	280.4	666.5	178.2	768.7
## 1989.8460	473.4	280.3	666.6	178.1	768.8
## 1989.8487	473.4	280.2	666.7	177.9	769.0
## 1989.8515	473.4	280.1	666.8	177.8	769.1
## 1989.8542	473.4	280.0	666.9	177.7	769.2
## 1989.8569	473.4	279.9	667.0	177.5	769.4
## 1989.8597	473.4	279.9	667.0	177.4	769.5
## 1989.8624	473.4	279.8	667.1	177.2	769.7
## 1989.8652	473.4	279.7	667.2	177.1	769.8
## 1989.8679	473.4	279.6	667.3	176.9	770.0
## 1989.8706	473.4	279.5	667.4	176.8	770.1
## 1989.8734	473.4	279.4	667.5	176.7	770.2
## 1989.8761	473.4	279.3	667.6	176.5	770.4
## 1989.8789	473.4	279.2	667.7	176.4	770.5
## 1989.8816	473.4	279.1	667.8	176.2	770.7
## 1989.8843	473.4	279.0	667.9	176.1	770.8
## 1989.8871	473.4	278.9	668.0	175.9	771.0
## 1989.8898	473.4	278.8	668.1	175.8	771.1
## 1989.8925	473.4	278.7	668.2	175.7	771.2
## 1989.8953	473.4	278.6	668.3	175.5	771.4
## 1989.8980	473.4	278.6	668.3	175.4	771.5
## 1989.9008	473.4	278.5	668.4	175.2	771.7
## 1989.9035	473.4	278.4	668.5	175.1	771.8
## 1989.9062	473.4	278.3	668.6	175.0	771.9
## 1989.9090	473.4	278.2	668.7	174.8	772.1
## 1989.9117	473.4	278.1	668.8	174.7	772.2
## 1989.9144	473.4	278.0	668.9	174.5	772.4
## 1989.9172	473.4	277.9	669.0	174.4	772.5
## 1989.9199	473.4	277.8	669.1	174.3	772.6
## 1989.9227	473.4	277.7	669.2	174.1	772.8
## 1989.9254	473.4	277.6	669.3	174.0	772.9
## 1989.9281	473.4	277.5	669.4	173.8	773.1
## 1989.9309	473.4	277.4	669.5	173.7	773.2
## 1989.9336	473.4	277.4	669.5	173.6	773.3
## 1989.9363	473.4	277.3	669.6	173.4	773.5
## 1989.9391	473.4	277.2	669.7	173.3	773.6
## 1989.9418	473.4	277.1	669.8	173.1	773.8
## 1989.9446	473.4	277.0	669.9	173.0	773.9
## 1989.9473	473.4	276.9	670.0	172.9	774.0
## 1989.9500	473.4	276.8	670.1	172.7	774.2
## 1989.9528	473.4	276.7	670.2	172.6	774.3
## 1989.9555	473.4	276.6	670.3	172.4	774.5
## 1989.9582	473.4	276.5	670.4	172.3	774.6
## 1989.9610	473.4	276.4	670.5	172.2	774.7

```
## 1989.9637      473.4 276.3 670.6 172.0 774.9
## 1989.9665      473.4 276.3 670.6 171.9 775.0
## 1989.9692      473.4 276.2 670.7 171.7 775.2
## 1989.9719      473.4 276.1 670.8 171.6 775.3
## 1989.9747      473.4 276.0 670.9 171.5 775.4
## 1989.9774      473.4 275.9 671.0 171.3 775.6
## 1989.9802      473.4 275.8 671.1 171.2 775.7
## 1989.9829      473.4 275.7 671.2 171.0 775.9
## 1989.9856      473.4 275.6 671.3 170.9 776.0
## 1989.9884      473.4 275.5 671.4 170.8 776.1
## 1989.9911      473.4 275.4 671.5 170.6 776.3
## 1989.9938      473.4 275.3 671.6 170.5 776.4
## 1989.9966      473.4 275.3 671.6 170.3 776.6
## 1989.9993      473.4 275.2 671.7 170.2 776.7
## 1990.0021      473.4 275.1 671.8 170.1 776.8
## 1990.0048      473.4 275.0 671.9 169.9 777.0
## 1990.0075      473.4 274.9 672.0 169.8 777.1
```

```
checkresiduals(naiveF)
```

Residuals from Naive method



```
##  
##  Ljung-Box test  
##  
## data:  Residuals from Naive method  
## Q* = 167, df = 147, p-value = 0.1  
##  
## Model df: 0.    Total lags used: 147
```

```
print(summary(rwff))
```

```
##
## Forecast method: Random walk with drift
##
## Model Information:
## Call: rwf(y = data_train, h = 365 * 3, drift = T)
##
## Drift: 0.2278 (se 0.1727)
## Residual sd: 4.6797
##
## Error measures:
##
## Training set 0.0000000000001061 4.677 3.089 -0.01102 0.8238 0.03352 -0.1476
##
## Forecasts:
##      Point Forecast Lo 80 Hi 80 Lo 95 Hi 95
## 1987.0123      473.7 467.7 479.7 464.5 482.8
## 1987.0151      473.9 465.4 482.4 460.9 486.9
## 1987.0178      474.1 463.7 484.5 458.2 490.0
## 1987.0205      474.4 462.3 486.4 456.0 492.7
## 1987.0233      474.6 461.1 488.0 454.0 495.2
## 1987.0260      474.8 460.1 489.6 452.3 497.4
## 1987.0287      475.0 459.1 491.0 450.7 499.4
## 1987.0315      475.3 458.2 492.3 449.2 501.3
## 1987.0342      475.5 457.4 493.6 447.8 503.2
## 1987.0370      475.7 456.6 494.8 446.5 504.9
## 1987.0397      476.0 455.9 496.0 445.3 506.6
## 1987.0424      476.2 455.3 497.1 444.2 508.2
## 1987.0452      476.4 454.6 498.2 443.1 509.8
## 1987.0479      476.6 454.0 499.3 442.0 511.3
## 1987.0507      476.9 453.4 500.3 441.0 512.7
## 1987.0534      477.1 452.9 501.3 440.0 514.2
## 1987.0561      477.3 452.3 502.3 439.1 515.6
## 1987.0589      477.6 451.8 503.3 438.2 516.9
## 1987.0616      477.8 451.3 504.2 437.3 518.2
## 1987.0643      478.0 450.8 505.2 436.5 519.6
## 1987.0671      478.2 450.4 506.1 435.6 520.8
## 1987.0698      478.5 449.9 507.0 434.8 522.1
## 1987.0726      478.7 449.5 507.9 434.0 523.3
## 1987.0753      478.9 449.1 508.8 433.3 524.5
## 1987.0780      479.1 448.7 509.6 432.5 525.7
## 1987.0808      479.4 448.3 510.5 431.8 526.9
## 1987.0835      479.6 447.9 511.3 431.1 528.1
## 1987.0862      479.8 447.5 512.1 430.4 529.2
## 1987.0890      480.1 447.1 513.0 429.7 530.4
## 1987.0917      480.3 446.8 513.8 429.1 531.5
## 1987.0945      480.5 446.4 514.6 428.4 532.6
## 1987.0972      480.7 446.1 515.4 427.8 533.7
## 1987.0999      481.0 445.8 516.2 427.1 534.8
## 1987.1027      481.2 445.4 516.9 426.5 535.9
## 1987.1054      481.4 445.1 517.7 425.9 536.9
## 1987.1081      481.7 444.8 518.5 425.3 538.0
## 1987.1109      481.9 444.5 519.2 424.7 539.0
```

## 1987.1136	482.1	444.2	520.0	424.2	540.1
## 1987.1164	482.3	443.9	520.7	423.6	541.1
## 1987.1191	482.6	443.6	521.5	423.0	542.1
## 1987.1218	482.8	443.4	522.2	422.5	543.1
## 1987.1246	483.0	443.1	523.0	421.9	544.1
## 1987.1273	483.2	442.8	523.7	421.4	545.1
## 1987.1300	483.5	442.5	524.4	420.9	546.1
## 1987.1328	483.7	442.3	525.1	420.4	547.0
## 1987.1355	483.9	442.0	525.8	419.8	548.0
## 1987.1383	484.2	441.8	526.5	419.3	549.0
## 1987.1410	484.4	441.5	527.2	418.8	549.9
## 1987.1437	484.6	441.3	527.9	418.3	550.9
## 1987.1465	484.8	441.0	528.6	417.9	551.8
## 1987.1492	485.1	440.8	529.3	417.4	552.8
## 1987.1520	485.3	440.6	530.0	416.9	553.7
## 1987.1547	485.5	440.3	530.7	416.4	554.6
## 1987.1574	485.8	440.1	531.4	416.0	555.5
## 1987.1602	486.0	439.9	532.1	415.5	556.5
## 1987.1629	486.2	439.7	532.7	415.0	557.4
## 1987.1656	486.4	439.5	533.4	414.6	558.3
## 1987.1684	486.7	439.2	534.1	414.1	559.2
## 1987.1711	486.9	439.0	534.7	413.7	560.1
## 1987.1739	487.1	438.8	535.4	413.3	561.0
## 1987.1766	487.3	438.6	536.1	412.8	561.9
## 1987.1793	487.6	438.4	536.7	412.4	562.7
## 1987.1821	487.8	438.2	537.4	412.0	563.6
## 1987.1848	488.0	438.0	538.0	411.6	564.5
## 1987.1875	488.3	437.8	538.7	411.2	565.4
## 1987.1903	488.5	437.7	539.3	410.7	566.2
## 1987.1930	488.7	437.5	540.0	410.3	567.1
## 1987.1958	488.9	437.3	540.6	409.9	568.0
## 1987.1985	489.2	437.1	541.2	409.5	568.8
## 1987.2012	489.4	436.9	541.9	409.1	569.7
## 1987.2040	489.6	436.7	542.5	408.7	570.5
## 1987.2067	489.9	436.6	543.1	408.3	571.4
## 1987.2094	490.1	436.4	543.8	408.0	572.2
## 1987.2122	490.3	436.2	544.4	407.6	573.0
## 1987.2149	490.5	436.0	545.0	407.2	573.9
## 1987.2177	490.8	435.9	545.7	406.8	574.7
## 1987.2204	491.0	435.7	546.3	406.4	575.5
## 1987.2231	491.2	435.5	546.9	406.1	576.4
## 1987.2259	491.4	435.4	547.5	405.7	577.2
## 1987.2286	491.7	435.2	548.1	405.3	578.0
## 1987.2313	491.9	435.1	548.7	405.0	578.8
## 1987.2341	492.1	434.9	549.4	404.6	579.6
## 1987.2368	492.4	434.7	550.0	404.3	580.5
## 1987.2396	492.6	434.6	550.6	403.9	581.3
## 1987.2423	492.8	434.4	551.2	403.5	582.1
## 1987.2450	493.0	434.3	551.8	403.2	582.9
## 1987.2478	493.3	434.1	552.4	402.8	583.7
## 1987.2505	493.5	434.0	553.0	402.5	584.5
## 1987.2533	493.7	433.8	553.6	402.2	585.3

## 1987.2560	494.0	433.7	554.2	401.8	586.1
## 1987.2587	494.2	433.6	554.8	401.5	586.9
## 1987.2615	494.4	433.4	555.4	401.1	587.7
## 1987.2642	494.6	433.3	556.0	400.8	588.5
## 1987.2669	494.9	433.1	556.6	400.5	589.3
## 1987.2697	495.1	433.0	557.2	400.1	590.0
## 1987.2724	495.3	432.9	557.8	399.8	590.8
## 1987.2752	495.5	432.7	558.4	399.5	591.6
## 1987.2779	495.8	432.6	558.9	399.2	592.4
## 1987.2806	496.0	432.5	559.5	398.8	593.2
## 1987.2834	496.2	432.3	560.1	398.5	593.9
## 1987.2861	496.5	432.2	560.7	398.2	594.7
## 1987.2888	496.7	432.1	561.3	397.9	595.5
## 1987.2916	496.9	432.0	561.9	397.6	596.3
## 1987.2943	497.1	431.8	562.5	397.3	597.0
## 1987.2971	497.4	431.7	563.0	396.9	597.8
## 1987.2998	497.6	431.6	563.6	396.6	598.6
## 1987.3025	497.8	431.5	564.2	396.3	599.3
## 1987.3053	498.1	431.3	564.8	396.0	600.1
## 1987.3080	498.3	431.2	565.3	395.7	600.8
## 1987.3107	498.5	431.1	565.9	395.4	601.6
## 1987.3135	498.7	431.0	566.5	395.1	602.4
## 1987.3162	499.0	430.9	567.1	394.8	603.1
## 1987.3190	499.2	430.7	567.6	394.5	603.9
## 1987.3217	499.4	430.6	568.2	394.2	604.6
## 1987.3244	499.6	430.5	568.8	393.9	605.4
## 1987.3272	499.9	430.4	569.3	393.6	606.1
## 1987.3299	500.1	430.3	569.9	393.3	606.9
## 1987.3326	500.3	430.2	570.5	393.0	607.6
## 1987.3354	500.6	430.1	571.0	392.8	608.4
## 1987.3381	500.8	430.0	571.6	392.5	609.1
## 1987.3409	501.0	429.9	572.2	392.2	609.8
## 1987.3436	501.2	429.7	572.7	391.9	610.6
## 1987.3463	501.5	429.6	573.3	391.6	611.3
## 1987.3491	501.7	429.5	573.9	391.3	612.1
## 1987.3518	501.9	429.4	574.4	391.1	612.8
## 1987.3546	502.2	429.3	575.0	390.8	613.5
## 1987.3573	502.4	429.2	575.5	390.5	614.3
## 1987.3600	502.6	429.1	576.1	390.2	615.0
## 1987.3628	502.8	429.0	576.7	389.9	615.7
## 1987.3655	503.1	428.9	577.2	389.7	616.5
## 1987.3682	503.3	428.8	577.8	389.4	617.2
## 1987.3710	503.5	428.7	578.3	389.1	617.9
## 1987.3737	503.7	428.6	578.9	388.8	618.6
## 1987.3765	504.0	428.5	579.4	388.6	619.4
## 1987.3792	504.2	428.4	580.0	388.3	620.1
## 1987.3819	504.4	428.3	580.5	388.0	620.8
## 1987.3847	504.7	428.2	581.1	387.8	621.5
## 1987.3874	504.9	428.1	581.6	387.5	622.3
## 1987.3901	505.1	428.0	582.2	387.2	623.0
## 1987.3929	505.3	428.0	582.7	387.0	623.7
## 1987.3956	505.6	427.9	583.3	386.7	624.4

## 1987.3984	505.8	427.8	583.8	386.5	625.1
## 1987.4011	506.0	427.7	584.4	386.2	625.8
## 1987.4038	506.3	427.6	584.9	385.9	626.6
## 1987.4066	506.5	427.5	585.5	385.7	627.3
## 1987.4093	506.7	427.4	586.0	385.4	628.0
## 1987.4120	506.9	427.3	586.6	385.2	628.7
## 1987.4148	507.2	427.2	587.1	384.9	629.4
## 1987.4175	507.4	427.1	587.6	384.7	630.1
## 1987.4203	507.6	427.1	588.2	384.4	630.8
## 1987.4230	507.8	427.0	588.7	384.2	631.5
## 1987.4257	508.1	426.9	589.3	383.9	632.2
## 1987.4285	508.3	426.8	589.8	383.7	633.0
## 1987.4312	508.5	426.7	590.3	383.4	633.7
## 1987.4339	508.8	426.6	590.9	383.2	634.4
## 1987.4367	509.0	426.5	591.4	382.9	635.1
## 1987.4394	509.2	426.5	592.0	382.7	635.8
## 1987.4422	509.4	426.4	592.5	382.4	636.5
## 1987.4449	509.7	426.3	593.0	382.2	637.2
## 1987.4476	509.9	426.2	593.6	381.9	637.9
## 1987.4504	510.1	426.1	594.1	381.7	638.6
## 1987.4531	510.4	426.1	594.6	381.4	639.3
## 1987.4559	510.6	426.0	595.2	381.2	640.0
## 1987.4586	510.8	425.9	595.7	381.0	640.7
## 1987.4613	511.0	425.8	596.2	380.7	641.4
## 1987.4641	511.3	425.7	596.8	380.5	642.0
## 1987.4668	511.5	425.7	597.3	380.2	642.7
## 1987.4695	511.7	425.6	597.8	380.0	643.4
## 1987.4723	511.9	425.5	598.4	379.8	644.1
## 1987.4750	512.2	425.4	598.9	379.5	644.8
## 1987.4778	512.4	425.4	599.4	379.3	645.5
## 1987.4805	512.6	425.3	600.0	379.1	646.2
## 1987.4832	512.9	425.2	600.5	378.8	646.9
## 1987.4860	513.1	425.1	601.0	378.6	647.6
## 1987.4887	513.3	425.1	601.6	378.4	648.3
## 1987.4914	513.5	425.0	602.1	378.1	649.0
## 1987.4942	513.8	424.9	602.6	377.9	649.6
## 1987.4969	514.0	424.9	603.1	377.7	650.3
## 1987.4997	514.2	424.8	603.7	377.4	651.0
## 1987.5024	514.5	424.7	604.2	377.2	651.7
## 1987.5051	514.7	424.6	604.7	377.0	652.4
## 1987.5079	514.9	424.6	605.2	376.8	653.1
## 1987.5106	515.1	424.5	605.8	376.5	653.7
## 1987.5133	515.4	424.4	606.3	376.3	654.4
## 1987.5161	515.6	424.4	606.8	376.1	655.1
## 1987.5188	515.8	424.3	607.3	375.8	655.8
## 1987.5216	516.0	424.2	607.9	375.6	656.5
## 1987.5243	516.3	424.2	608.4	375.4	657.1
## 1987.5270	516.5	424.1	608.9	375.2	657.8
## 1987.5298	516.7	424.0	609.4	375.0	658.5
## 1987.5325	517.0	424.0	610.0	374.7	659.2
## 1987.5352	517.2	423.9	610.5	374.5	659.9
## 1987.5380	517.4	423.8	611.0	374.3	660.5

## 1987.5407	517.6	423.8	611.5	374.1	661.2
## 1987.5435	517.9	423.7	612.0	373.9	661.9
## 1987.5462	518.1	423.6	612.6	373.6	662.6
## 1987.5489	518.3	423.6	613.1	373.4	663.2
## 1987.5517	518.6	423.5	613.6	373.2	663.9
## 1987.5544	518.8	423.4	614.1	373.0	664.6
## 1987.5572	519.0	423.4	614.6	372.8	665.3
## 1987.5599	519.2	423.3	615.2	372.5	665.9
## 1987.5626	519.5	423.3	615.7	372.3	666.6
## 1987.5654	519.7	423.2	616.2	372.1	667.3
## 1987.5681	519.9	423.1	616.7	371.9	667.9
## 1987.5708	520.1	423.1	617.2	371.7	668.6
## 1987.5736	520.4	423.0	617.7	371.5	669.3
## 1987.5763	520.6	423.0	618.3	371.3	669.9
## 1987.5791	520.8	422.9	618.8	371.1	670.6
## 1987.5818	521.1	422.8	619.3	370.8	671.3
## 1987.5845	521.3	422.8	619.8	370.6	671.9
## 1987.5873	521.5	422.7	620.3	370.4	672.6
## 1987.5900	521.7	422.7	620.8	370.2	673.3
## 1987.5927	522.0	422.6	621.3	370.0	673.9
## 1987.5955	522.2	422.5	621.9	369.8	674.6
## 1987.5982	522.4	422.5	622.4	369.6	675.3
## 1987.6010	522.7	422.4	622.9	369.4	675.9
## 1987.6037	522.9	422.4	623.4	369.2	676.6
## 1987.6064	523.1	422.3	623.9	369.0	677.3
## 1987.6092	523.3	422.3	624.4	368.8	677.9
## 1987.6119	523.6	422.2	624.9	368.5	678.6
## 1987.6146	523.8	422.1	625.4	368.3	679.2
## 1987.6174	524.0	422.1	625.9	368.1	679.9
## 1987.6201	524.2	422.0	626.5	367.9	680.6
## 1987.6229	524.5	422.0	627.0	367.7	681.2
## 1987.6256	524.7	421.9	627.5	367.5	681.9
## 1987.6283	524.9	421.9	628.0	367.3	682.5
## 1987.6311	525.2	421.8	628.5	367.1	683.2
## 1987.6338	525.4	421.8	629.0	366.9	683.9
## 1987.6366	525.6	421.7	629.5	366.7	684.5
## 1987.6393	525.8	421.7	630.0	366.5	685.2
## 1987.6420	526.1	421.6	630.5	366.3	685.8
## 1987.6448	526.3	421.6	631.0	366.1	686.5
## 1987.6475	526.5	421.5	631.5	365.9	687.1
## 1987.6502	526.8	421.5	632.1	365.7	687.8
## 1987.6530	527.0	421.4	632.6	365.5	688.5
## 1987.6557	527.2	421.4	633.1	365.3	689.1
## 1987.6585	527.4	421.3	633.6	365.1	689.8
## 1987.6612	527.7	421.2	634.1	364.9	690.4
## 1987.6639	527.9	421.2	634.6	364.7	691.1
## 1987.6667	528.1	421.1	635.1	364.5	691.7
## 1987.6694	528.3	421.1	635.6	364.3	692.4
## 1987.6721	528.6	421.0	636.1	364.1	693.0
## 1987.6749	528.8	421.0	636.6	363.9	693.7
## 1987.6776	529.0	420.9	637.1	363.7	694.3
## 1987.6804	529.3	420.9	637.6	363.5	695.0

## 1987.6831	529.5	420.9	638.1	363.3	695.6
## 1987.6858	529.7	420.8	638.6	363.1	696.3
## 1987.6886	529.9	420.8	639.1	363.0	696.9
## 1987.6913	530.2	420.7	639.6	362.8	697.6
## 1987.6940	530.4	420.7	640.1	362.6	698.2
## 1987.6968	530.6	420.6	640.6	362.4	698.9
## 1987.6995	530.9	420.6	641.1	362.2	699.5
## 1987.7023	531.1	420.5	641.6	362.0	700.2
## 1987.7050	531.3	420.5	642.1	361.8	700.8
## 1987.7077	531.5	420.4	642.6	361.6	701.5
## 1987.7105	531.8	420.4	643.2	361.4	702.1
## 1987.7132	532.0	420.3	643.7	361.2	702.8
## 1987.7159	532.2	420.3	644.2	361.0	703.4
## 1987.7187	532.4	420.2	644.7	360.8	704.1
## 1987.7214	532.7	420.2	645.2	360.7	704.7
## 1987.7242	532.9	420.2	645.7	360.5	705.3
## 1987.7269	533.1	420.1	646.2	360.3	706.0
## 1987.7296	533.4	420.1	646.7	360.1	706.6
## 1987.7324	533.6	420.0	647.2	359.9	707.3
## 1987.7351	533.8	420.0	647.7	359.7	707.9
## 1987.7379	534.0	419.9	648.2	359.5	708.6
## 1987.7406	534.3	419.9	648.7	359.3	709.2
## 1987.7433	534.5	419.8	649.2	359.1	709.8
## 1987.7461	534.7	419.8	649.7	359.0	710.5
## 1987.7488	535.0	419.8	650.2	358.8	711.1
## 1987.7515	535.2	419.7	650.6	358.6	711.8
## 1987.7543	535.4	419.7	651.1	358.4	712.4
## 1987.7570	535.6	419.6	651.6	358.2	713.1
## 1987.7598	535.9	419.6	652.1	358.0	713.7
## 1987.7625	536.1	419.5	652.6	357.8	714.3
## 1987.7652	536.3	419.5	653.1	357.7	715.0
## 1987.7680	536.5	419.5	653.6	357.5	715.6
## 1987.7707	536.8	419.4	654.1	357.3	716.3
## 1987.7734	537.0	419.4	654.6	357.1	716.9
## 1987.7762	537.2	419.3	655.1	356.9	717.5
## 1987.7789	537.5	419.3	655.6	356.7	718.2
## 1987.7817	537.7	419.3	656.1	356.6	718.8
## 1987.7844	537.9	419.2	656.6	356.4	719.5
## 1987.7871	538.1	419.2	657.1	356.2	720.1
## 1987.7899	538.4	419.1	657.6	356.0	720.7
## 1987.7926	538.6	419.1	658.1	355.8	721.4
## 1987.7953	538.8	419.1	658.6	355.7	722.0
## 1987.7981	539.1	419.0	659.1	355.5	722.6
## 1987.8008	539.3	419.0	659.6	355.3	723.3
## 1987.8036	539.5	418.9	660.1	355.1	723.9
## 1987.8063	539.7	418.9	660.6	354.9	724.5
## 1987.8090	540.0	418.9	661.1	354.8	725.2
## 1987.8118	540.2	418.8	661.6	354.6	725.8
## 1987.8145	540.4	418.8	662.1	354.4	726.5
## 1987.8172	540.6	418.7	662.6	354.2	727.1
## 1987.8200	540.9	418.7	663.0	354.0	727.7
## 1987.8227	541.1	418.7	663.5	353.9	728.4

## 1987.8255	541.3	418.6	664.0	353.7	729.0
## 1987.8282	541.6	418.6	664.5	353.5	729.6
## 1987.8309	541.8	418.6	665.0	353.3	730.3
## 1987.8337	542.0	418.5	665.5	353.1	730.9
## 1987.8364	542.2	418.5	666.0	353.0	731.5
## 1987.8392	542.5	418.4	666.5	352.8	732.2
## 1987.8419	542.7	418.4	667.0	352.6	732.8
## 1987.8446	542.9	418.4	667.5	352.4	733.4
## 1987.8474	543.2	418.3	668.0	352.3	734.0
## 1987.8501	543.4	418.3	668.5	352.1	734.7
## 1987.8528	543.6	418.3	669.0	351.9	735.3
## 1987.8556	543.8	418.2	669.4	351.7	735.9
## 1987.8583	544.1	418.2	669.9	351.6	736.6
## 1987.8611	544.3	418.2	670.4	351.4	737.2
## 1987.8638	544.5	418.1	670.9	351.2	737.8
## 1987.8665	544.7	418.1	671.4	351.0	738.5
## 1987.8693	545.0	418.1	671.9	350.9	739.1
## 1987.8720	545.2	418.0	672.4	350.7	739.7
## 1987.8747	545.4	418.0	672.9	350.5	740.4
## 1987.8775	545.7	417.9	673.4	350.3	741.0
## 1987.8802	545.9	417.9	673.9	350.2	741.6
## 1987.8830	546.1	417.9	674.4	350.0	742.2
## 1987.8857	546.3	417.8	674.8	349.8	742.9
## 1987.8884	546.6	417.8	675.3	349.6	743.5
## 1987.8912	546.8	417.8	675.8	349.5	744.1
## 1987.8939	547.0	417.7	676.3	349.3	744.7
## 1987.8966	547.3	417.7	676.8	349.1	745.4
## 1987.8994	547.5	417.7	677.3	349.0	746.0
## 1987.9021	547.7	417.6	677.8	348.8	746.6
## 1987.9049	547.9	417.6	678.3	348.6	747.3
## 1987.9076	548.2	417.6	678.8	348.4	747.9
## 1987.9103	548.4	417.5	679.2	348.3	748.5
## 1987.9131	548.6	417.5	679.7	348.1	749.1
## 1987.9158	548.8	417.5	680.2	347.9	749.8
## 1987.9185	549.1	417.4	680.7	347.8	750.4
## 1987.9213	549.3	417.4	681.2	347.6	751.0
## 1987.9240	549.5	417.4	681.7	347.4	751.6
## 1987.9268	549.8	417.4	682.2	347.3	752.3
## 1987.9295	550.0	417.3	682.7	347.1	752.9
## 1987.9322	550.2	417.3	683.1	346.9	753.5
## 1987.9350	550.4	417.3	683.6	346.8	754.1
## 1987.9377	550.7	417.2	684.1	346.6	754.8
## 1987.9405	550.9	417.2	684.6	346.4	755.4
## 1987.9432	551.1	417.2	685.1	346.2	756.0
## 1987.9459	551.4	417.1	685.6	346.1	756.6
## 1987.9487	551.6	417.1	686.1	345.9	757.3
## 1987.9514	551.8	417.1	686.6	345.7	757.9
## 1987.9541	552.0	417.0	687.0	345.6	758.5
## 1987.9569	552.3	417.0	687.5	345.4	759.1
## 1987.9596	552.5	417.0	688.0	345.2	759.7
## 1987.9624	552.7	416.9	688.5	345.1	760.4
## 1987.9651	552.9	416.9	689.0	344.9	761.0

## 1987.9678	553.2	416.9	689.5	344.7	761.6
## 1987.9706	553.4	416.9	690.0	344.6	762.2
## 1987.9733	553.6	416.8	690.4	344.4	762.9
## 1987.9760	553.9	416.8	690.9	344.2	763.5
## 1987.9788	554.1	416.8	691.4	344.1	764.1
## 1987.9815	554.3	416.7	691.9	343.9	764.7
## 1987.9843	554.5	416.7	692.4	343.7	765.3
## 1987.9870	554.8	416.7	692.9	343.6	766.0
## 1987.9897	555.0	416.7	693.3	343.4	766.6
## 1987.9925	555.2	416.6	693.8	343.3	767.2
## 1987.9952	555.5	416.6	694.3	343.1	767.8
## 1987.9979	555.7	416.6	694.8	342.9	768.4
## 1988.0007	555.9	416.5	695.3	342.8	769.1
## 1988.0034	556.1	416.5	695.8	342.6	769.7
## 1988.0062	556.4	416.5	696.2	342.4	770.3
## 1988.0089	556.6	416.5	696.7	342.3	770.9
## 1988.0116	556.8	416.4	697.2	342.1	771.5
## 1988.0144	557.1	416.4	697.7	341.9	772.2
## 1988.0171	557.3	416.4	698.2	341.8	772.8
## 1988.0198	557.5	416.3	698.7	341.6	773.4
## 1988.0226	557.7	416.3	699.1	341.5	774.0
## 1988.0253	558.0	416.3	699.6	341.3	774.6
## 1988.0281	558.2	416.3	700.1	341.1	775.2
## 1988.0308	558.4	416.2	700.6	341.0	775.9
## 1988.0335	558.6	416.2	701.1	340.8	776.5
## 1988.0363	558.9	416.2	701.6	340.6	777.1
## 1988.0390	559.1	416.2	702.0	340.5	777.7
## 1988.0418	559.3	416.1	702.5	340.3	778.3
## 1988.0445	559.6	416.1	703.0	340.2	778.9
## 1988.0472	559.8	416.1	703.5	340.0	779.6
## 1988.0500	560.0	416.0	704.0	339.8	780.2
## 1988.0527	560.2	416.0	704.5	339.7	780.8
## 1988.0554	560.5	416.0	704.9	339.5	781.4
## 1988.0582	560.7	416.0	705.4	339.4	782.0
## 1988.0609	560.9	415.9	705.9	339.2	782.6
## 1988.0637	561.2	415.9	706.4	339.0	783.3
## 1988.0664	561.4	415.9	706.9	338.9	783.9
## 1988.0691	561.6	415.9	707.3	338.7	784.5
## 1988.0719	561.8	415.8	707.8	338.6	785.1
## 1988.0746	562.1	415.8	708.3	338.4	785.7
## 1988.0773	562.3	415.8	708.8	338.2	786.3
## 1988.0801	562.5	415.8	709.3	338.1	787.0
## 1988.0828	562.7	415.7	709.7	337.9	787.6
## 1988.0856	563.0	415.7	710.2	337.8	788.2
## 1988.0883	563.2	415.7	710.7	337.6	788.8
## 1988.0910	563.4	415.7	711.2	337.4	789.4
## 1988.0938	563.7	415.6	711.7	337.3	790.0
## 1988.0965	563.9	415.6	712.2	337.1	790.6
## 1988.0992	564.1	415.6	712.6	337.0	791.3
## 1988.1020	564.3	415.6	713.1	336.8	791.9
## 1988.1047	564.6	415.5	713.6	336.7	792.5
## 1988.1075	564.8	415.5	714.1	336.5	793.1

## 1988.1102	565.0	415.5	714.6	336.3	793.7
## 1988.1129	565.3	415.5	715.0	336.2	794.3
## 1988.1157	565.5	415.4	715.5	336.0	794.9
## 1988.1184	565.7	415.4	716.0	335.9	795.5
## 1988.1211	565.9	415.4	716.5	335.7	796.2
## 1988.1239	566.2	415.4	716.9	335.6	796.8
## 1988.1266	566.4	415.4	717.4	335.4	797.4
## 1988.1294	566.6	415.3	717.9	335.2	798.0
## 1988.1321	566.8	415.3	718.4	335.1	798.6
## 1988.1348	567.1	415.3	718.9	334.9	799.2
## 1988.1376	567.3	415.3	719.3	334.8	799.8
## 1988.1403	567.5	415.2	719.8	334.6	800.4
## 1988.1431	567.8	415.2	720.3	334.5	801.1
## 1988.1458	568.0	415.2	720.8	334.3	801.7
## 1988.1485	568.2	415.2	721.3	334.2	802.3
## 1988.1513	568.4	415.1	721.7	334.0	802.9
## 1988.1540	568.7	415.1	722.2	333.8	803.5
## 1988.1567	568.9	415.1	722.7	333.7	804.1
## 1988.1595	569.1	415.1	723.2	333.5	804.7
## 1988.1622	569.4	415.1	723.6	333.4	805.3
## 1988.1650	569.6	415.0	724.1	333.2	805.9
## 1988.1677	569.8	415.0	724.6	333.1	806.5
## 1988.1704	570.0	415.0	725.1	332.9	807.2
## 1988.1732	570.3	415.0	725.6	332.8	807.8
## 1988.1759	570.5	414.9	726.0	332.6	808.4
## 1988.1786	570.7	414.9	726.5	332.4	809.0
## 1988.1814	570.9	414.9	727.0	332.3	809.6
## 1988.1841	571.2	414.9	727.5	332.1	810.2
## 1988.1869	571.4	414.9	727.9	332.0	810.8
## 1988.1896	571.6	414.8	728.4	331.8	811.4
## 1988.1923	571.9	414.8	728.9	331.7	812.0
## 1988.1951	572.1	414.8	729.4	331.5	812.6
## 1988.1978	572.3	414.8	729.9	331.4	813.2
## 1988.2005	572.5	414.8	730.3	331.2	813.9
## 1988.2033	572.8	414.7	730.8	331.1	814.5
## 1988.2060	573.0	414.7	731.3	330.9	815.1
## 1988.2088	573.2	414.7	731.8	330.8	815.7
## 1988.2115	573.5	414.7	732.2	330.6	816.3
## 1988.2142	573.7	414.6	732.7	330.5	816.9
## 1988.2170	573.9	414.6	733.2	330.3	817.5
## 1988.2197	574.1	414.6	733.7	330.2	818.1
## 1988.2225	574.4	414.6	734.1	330.0	818.7
## 1988.2252	574.6	414.6	734.6	329.9	819.3
## 1988.2279	574.8	414.5	735.1	329.7	819.9
## 1988.2307	575.0	414.5	735.6	329.5	820.5
## 1988.2334	575.3	414.5	736.0	329.4	821.1
## 1988.2361	575.5	414.5	736.5	329.2	821.8
## 1988.2389	575.7	414.5	737.0	329.1	822.4
## 1988.2416	576.0	414.4	737.5	328.9	823.0
## 1988.2444	576.2	414.4	737.9	328.8	823.6
## 1988.2471	576.4	414.4	738.4	328.6	824.2
## 1988.2498	576.6	414.4	738.9	328.5	824.8

## 1988.2526	576.9	414.4	739.4	328.3	825.4
## 1988.2553	577.1	414.3	739.8	328.2	826.0
## 1988.2580	577.3	414.3	740.3	328.0	826.6
## 1988.2608	577.6	414.3	740.8	327.9	827.2
## 1988.2635	577.8	414.3	741.3	327.7	827.8
## 1988.2663	578.0	414.3	741.7	327.6	828.4
## 1988.2690	578.2	414.2	742.2	327.4	829.0
## 1988.2717	578.5	414.2	742.7	327.3	829.6
## 1988.2745	578.7	414.2	743.2	327.1	830.2
## 1988.2772	578.9	414.2	743.6	327.0	830.8
## 1988.2799	579.1	414.2	744.1	326.8	831.5
## 1988.2827	579.4	414.2	744.6	326.7	832.1
## 1988.2854	579.6	414.1	745.1	326.5	832.7
## 1988.2882	579.8	414.1	745.5	326.4	833.3
## 1988.2909	580.1	414.1	746.0	326.2	833.9
## 1988.2936	580.3	414.1	746.5	326.1	834.5
## 1988.2964	580.5	414.1	747.0	325.9	835.1
## 1988.2991	580.7	414.0	747.4	325.8	835.7
## 1988.3018	581.0	414.0	747.9	325.6	836.3
## 1988.3046	581.2	414.0	748.4	325.5	836.9
## 1988.3073	581.4	414.0	748.9	325.4	837.5
## 1988.3101	581.7	414.0	749.3	325.2	838.1
## 1988.3128	581.9	413.9	749.8	325.1	838.7
## 1988.3155	582.1	413.9	750.3	324.9	839.3
## 1988.3183	582.3	413.9	750.8	324.8	839.9
## 1988.3210	582.6	413.9	751.2	324.6	840.5
## 1988.3238	582.8	413.9	751.7	324.5	841.1
## 1988.3265	583.0	413.9	752.2	324.3	841.7
## 1988.3292	583.2	413.8	752.6	324.2	842.3
## 1988.3320	583.5	413.8	753.1	324.0	842.9
## 1988.3347	583.7	413.8	753.6	323.9	843.5
## 1988.3374	583.9	413.8	754.1	323.7	844.1
## 1988.3402	584.2	413.8	754.5	323.6	844.7
## 1988.3429	584.4	413.8	755.0	323.4	845.3
## 1988.3457	584.6	413.7	755.5	323.3	845.9
## 1988.3484	584.8	413.7	756.0	323.1	846.5
## 1988.3511	585.1	413.7	756.4	323.0	847.1
## 1988.3539	585.3	413.7	756.9	322.8	847.8
## 1988.3566	585.5	413.7	757.4	322.7	848.4
## 1988.3593	585.8	413.7	757.9	322.5	849.0
## 1988.3621	586.0	413.6	758.3	322.4	849.6
## 1988.3648	586.2	413.6	758.8	322.3	850.2
## 1988.3676	586.4	413.6	759.3	322.1	850.8
## 1988.3703	586.7	413.6	759.7	322.0	851.4
## 1988.3730	586.9	413.6	760.2	321.8	852.0
## 1988.3758	587.1	413.6	760.7	321.7	852.6
## 1988.3785	587.3	413.5	761.2	321.5	853.2
## 1988.3812	587.6	413.5	761.6	321.4	853.8
## 1988.3840	587.8	413.5	762.1	321.2	854.4
## 1988.3867	588.0	413.5	762.6	321.1	855.0
## 1988.3895	588.3	413.5	763.0	320.9	855.6
## 1988.3922	588.5	413.5	763.5	320.8	856.2

## 1988.3949	588.7	413.4	764.0	320.7	856.8
## 1988.3977	588.9	413.4	764.5	320.5	857.4
## 1988.4004	589.2	413.4	764.9	320.4	858.0
## 1988.4031	589.4	413.4	765.4	320.2	858.6
## 1988.4059	589.6	413.4	765.9	320.1	859.2
## 1988.4086	589.9	413.4	766.3	319.9	859.8
## 1988.4114	590.1	413.3	766.8	319.8	860.4
## 1988.4141	590.3	413.3	767.3	319.6	861.0
## 1988.4168	590.5	413.3	767.8	319.5	861.6
## 1988.4196	590.8	413.3	768.2	319.3	862.2
## 1988.4223	591.0	413.3	768.7	319.2	862.8
## 1988.4251	591.2	413.3	769.2	319.1	863.4
## 1988.4278	591.4	413.2	769.6	318.9	864.0
## 1988.4305	591.7	413.2	770.1	318.8	864.6
## 1988.4333	591.9	413.2	770.6	318.6	865.2
## 1988.4360	592.1	413.2	771.1	318.5	865.8
## 1988.4387	592.4	413.2	771.5	318.3	866.4
## 1988.4415	592.6	413.2	772.0	318.2	867.0
## 1988.4442	592.8	413.2	772.5	318.1	867.6
## 1988.4470	593.0	413.1	772.9	317.9	868.2
## 1988.4497	593.3	413.1	773.4	317.8	868.8
## 1988.4524	593.5	413.1	773.9	317.6	869.4
## 1988.4552	593.7	413.1	774.4	317.5	870.0
## 1988.4579	594.0	413.1	774.8	317.3	870.6
## 1988.4606	594.2	413.1	775.3	317.2	871.2
## 1988.4634	594.4	413.1	775.8	317.0	871.8
## 1988.4661	594.6	413.0	776.2	316.9	872.4
## 1988.4689	594.9	413.0	776.7	316.8	873.0
## 1988.4716	595.1	413.0	777.2	316.6	873.6
## 1988.4743	595.3	413.0	777.6	316.5	874.2
## 1988.4771	595.5	413.0	778.1	316.3	874.8
## 1988.4798	595.8	413.0	778.6	316.2	875.4
## 1988.4825	596.0	413.0	779.1	316.0	876.0
## 1988.4853	596.2	412.9	779.5	315.9	876.6
## 1988.4880	596.5	412.9	780.0	315.8	877.2
## 1988.4908	596.7	412.9	780.5	315.6	877.8
## 1988.4935	596.9	412.9	780.9	315.5	878.3
## 1988.4962	597.1	412.9	781.4	315.3	878.9
## 1988.4990	597.4	412.9	781.9	315.2	879.5
## 1988.5017	597.6	412.9	782.3	315.1	880.1
## 1988.5044	597.8	412.8	782.8	314.9	880.7
## 1988.5072	598.1	412.8	783.3	314.8	881.3
## 1988.5099	598.3	412.8	783.8	314.6	881.9
## 1988.5127	598.5	412.8	784.2	314.5	882.5
## 1988.5154	598.7	412.8	784.7	314.3	883.1
## 1988.5181	599.0	412.8	785.2	314.2	883.7
## 1988.5209	599.2	412.8	785.6	314.1	884.3
## 1988.5236	599.4	412.7	786.1	313.9	884.9
## 1988.5264	599.6	412.7	786.6	313.8	885.5
## 1988.5291	599.9	412.7	787.0	313.6	886.1
## 1988.5318	600.1	412.7	787.5	313.5	886.7
## 1988.5346	600.3	412.7	788.0	313.4	887.3

## 1988.5373	600.6	412.7	788.4	313.2	887.9
## 1988.5400	600.8	412.7	788.9	313.1	888.5
## 1988.5428	601.0	412.6	789.4	312.9	889.1
## 1988.5455	601.2	412.6	789.8	312.8	889.7
## 1988.5483	601.5	412.6	790.3	312.7	890.3
## 1988.5510	601.7	412.6	790.8	312.5	890.9
## 1988.5537	601.9	412.6	791.3	312.4	891.5
## 1988.5565	602.2	412.6	791.7	312.2	892.1
## 1988.5592	602.4	412.6	792.2	312.1	892.7
## 1988.5619	602.6	412.6	792.7	311.9	893.3
## 1988.5647	602.8	412.5	793.1	311.8	893.9
## 1988.5674	603.1	412.5	793.6	311.7	894.5
## 1988.5702	603.3	412.5	794.1	311.5	895.1
## 1988.5729	603.5	412.5	794.5	311.4	895.7
## 1988.5756	603.7	412.5	795.0	311.2	896.2
## 1988.5784	604.0	412.5	795.5	311.1	896.8
## 1988.5811	604.2	412.5	795.9	311.0	897.4
## 1988.5838	604.4	412.5	796.4	310.8	898.0
## 1988.5866	604.7	412.4	796.9	310.7	898.6
## 1988.5893	604.9	412.4	797.3	310.5	899.2
## 1988.5921	605.1	412.4	797.8	310.4	899.8
## 1988.5948	605.3	412.4	798.3	310.3	900.4
## 1988.5975	605.6	412.4	798.7	310.1	901.0
## 1988.6003	605.8	412.4	799.2	310.0	901.6
## 1988.6030	606.0	412.4	799.7	309.9	902.2
## 1988.6057	606.3	412.4	800.2	309.7	902.8
## 1988.6085	606.5	412.3	800.6	309.6	903.4
## 1988.6112	606.7	412.3	801.1	309.4	904.0
## 1988.6140	606.9	412.3	801.6	309.3	904.6
## 1988.6167	607.2	412.3	802.0	309.2	905.2
## 1988.6194	607.4	412.3	802.5	309.0	905.8
## 1988.6222	607.6	412.3	803.0	308.9	906.4
## 1988.6249	607.8	412.3	803.4	308.7	907.0
## 1988.6277	608.1	412.3	803.9	308.6	907.6
## 1988.6304	608.3	412.2	804.4	308.5	908.1
## 1988.6331	608.5	412.2	804.8	308.3	908.7
## 1988.6359	608.8	412.2	805.3	308.2	909.3
## 1988.6386	609.0	412.2	805.8	308.0	909.9
## 1988.6413	609.2	412.2	806.2	307.9	910.5
## 1988.6441	609.4	412.2	806.7	307.8	911.1
## 1988.6468	609.7	412.2	807.2	307.6	911.7
## 1988.6496	609.9	412.2	807.6	307.5	912.3
## 1988.6523	610.1	412.2	808.1	307.4	912.9
## 1988.6550	610.4	412.1	808.6	307.2	913.5
## 1988.6578	610.6	412.1	809.0	307.1	914.1
## 1988.6605	610.8	412.1	809.5	306.9	914.7
## 1988.6632	611.0	412.1	810.0	306.8	915.3
## 1988.6660	611.3	412.1	810.4	306.7	915.9
## 1988.6687	611.5	412.1	810.9	306.5	916.5
## 1988.6715	611.7	412.1	811.4	306.4	917.0
## 1988.6742	611.9	412.1	811.8	306.3	917.6
## 1988.6769	612.2	412.1	812.3	306.1	918.2

## 1988.6797	612.4	412.0	812.8	306.0	918.8
## 1988.6824	612.6	412.0	813.2	305.8	919.4
## 1988.6851	612.9	412.0	813.7	305.7	920.0
## 1988.6879	613.1	412.0	814.2	305.6	920.6
## 1988.6906	613.3	412.0	814.6	305.4	921.2
## 1988.6934	613.5	412.0	815.1	305.3	921.8
## 1988.6961	613.8	412.0	815.6	305.2	922.4
## 1988.6988	614.0	412.0	816.0	305.0	923.0
## 1988.7016	614.2	412.0	816.5	304.9	923.6
## 1988.7043	614.5	411.9	817.0	304.7	924.2
## 1988.7070	614.7	411.9	817.4	304.6	924.8
## 1988.7098	614.9	411.9	817.9	304.5	925.3
## 1988.7125	615.1	411.9	818.4	304.3	925.9
## 1988.7153	615.4	411.9	818.8	304.2	926.5
## 1988.7180	615.6	411.9	819.3	304.1	927.1
## 1988.7207	615.8	411.9	819.8	303.9	927.7
## 1988.7235	616.0	411.9	820.2	303.8	928.3
## 1988.7262	616.3	411.9	820.7	303.6	928.9
## 1988.7290	616.5	411.9	821.2	303.5	929.5
## 1988.7317	616.7	411.8	821.6	303.4	930.1
## 1988.7344	617.0	411.8	822.1	303.2	930.7
## 1988.7372	617.2	411.8	822.6	303.1	931.3
## 1988.7399	617.4	411.8	823.0	303.0	931.9
## 1988.7426	617.6	411.8	823.5	302.8	932.5
## 1988.7454	617.9	411.8	824.0	302.7	933.0
## 1988.7481	618.1	411.8	824.4	302.6	933.6
## 1988.7509	618.3	411.8	824.9	302.4	934.2
## 1988.7536	618.6	411.8	825.3	302.3	934.8
## 1988.7563	618.8	411.7	825.8	302.2	935.4
## 1988.7591	619.0	411.7	826.3	302.0	936.0
## 1988.7618	619.2	411.7	826.7	301.9	936.6
## 1988.7645	619.5	411.7	827.2	301.7	937.2
## 1988.7673	619.7	411.7	827.7	301.6	937.8
## 1988.7700	619.9	411.7	828.1	301.5	938.4
## 1988.7728	620.1	411.7	828.6	301.3	939.0
## 1988.7755	620.4	411.7	829.1	301.2	939.5
## 1988.7782	620.6	411.7	829.5	301.1	940.1
## 1988.7810	620.8	411.7	830.0	300.9	940.7
## 1988.7837	621.1	411.7	830.5	300.8	941.3
## 1988.7864	621.3	411.6	830.9	300.7	941.9
## 1988.7892	621.5	411.6	831.4	300.5	942.5
## 1988.7919	621.7	411.6	831.9	300.4	943.1
## 1988.7947	622.0	411.6	832.3	300.3	943.7
## 1988.7974	622.2	411.6	832.8	300.1	944.3
## 1988.8001	622.4	411.6	833.3	300.0	944.9
## 1988.8029	622.7	411.6	833.7	299.9	945.5
## 1988.8056	622.9	411.6	834.2	299.7	946.0
## 1988.8084	623.1	411.6	834.7	299.6	946.6
## 1988.8111	623.3	411.6	835.1	299.4	947.2
## 1988.8138	623.6	411.5	835.6	299.3	947.8
## 1988.8166	623.8	411.5	836.0	299.2	948.4
## 1988.8193	624.0	411.5	836.5	299.0	949.0

## 1988.8220	624.2	411.5	837.0	298.9	949.6
## 1988.8248	624.5	411.5	837.4	298.8	950.2
## 1988.8275	624.7	411.5	837.9	298.6	950.8
## 1988.8303	624.9	411.5	838.4	298.5	951.4
## 1988.8330	625.2	411.5	838.8	298.4	951.9
## 1988.8357	625.4	411.5	839.3	298.2	952.5
## 1988.8385	625.6	411.5	839.8	298.1	953.1
## 1988.8412	625.8	411.5	840.2	298.0	953.7
## 1988.8439	626.1	411.4	840.7	297.8	954.3
## 1988.8467	626.3	411.4	841.2	297.7	954.9
## 1988.8494	626.5	411.4	841.6	297.6	955.5
## 1988.8522	626.8	411.4	842.1	297.4	956.1
## 1988.8549	627.0	411.4	842.6	297.3	956.7
## 1988.8576	627.2	411.4	843.0	297.2	957.3
## 1988.8604	627.4	411.4	843.5	297.0	957.8
## 1988.8631	627.7	411.4	843.9	296.9	958.4
## 1988.8658	627.9	411.4	844.4	296.8	959.0
## 1988.8686	628.1	411.4	844.9	296.6	959.6
## 1988.8713	628.3	411.4	845.3	296.5	960.2
## 1988.8741	628.6	411.4	845.8	296.4	960.8
## 1988.8768	628.8	411.3	846.3	296.2	961.4
## 1988.8795	629.0	411.3	846.7	296.1	962.0
## 1988.8823	629.3	411.3	847.2	296.0	962.6
## 1988.8850	629.5	411.3	847.7	295.8	963.1
## 1988.8877	629.7	411.3	848.1	295.7	963.7
## 1988.8905	629.9	411.3	848.6	295.6	964.3
## 1988.8932	630.2	411.3	849.0	295.4	964.9
## 1988.8960	630.4	411.3	849.5	295.3	965.5
## 1988.8987	630.6	411.3	850.0	295.2	966.1
## 1988.9014	630.9	411.3	850.4	295.0	966.7
## 1988.9042	631.1	411.3	850.9	294.9	967.3
## 1988.9069	631.3	411.3	851.4	294.8	967.9
## 1988.9097	631.5	411.2	851.8	294.6	968.4
## 1988.9124	631.8	411.2	852.3	294.5	969.0
## 1988.9151	632.0	411.2	852.8	294.4	969.6
## 1988.9179	632.2	411.2	853.2	294.2	970.2
## 1988.9206	632.4	411.2	853.7	294.1	970.8
## 1988.9233	632.7	411.2	854.2	294.0	971.4
## 1988.9261	632.9	411.2	854.6	293.8	972.0
## 1988.9288	633.1	411.2	855.1	293.7	972.6
## 1988.9316	633.4	411.2	855.5	293.6	973.2
## 1988.9343	633.6	411.2	856.0	293.4	973.7
## 1988.9370	633.8	411.2	856.5	293.3	974.3
## 1988.9398	634.0	411.2	856.9	293.2	974.9
## 1988.9425	634.3	411.1	857.4	293.0	975.5
## 1988.9452	634.5	411.1	857.9	292.9	976.1
## 1988.9480	634.7	411.1	858.3	292.8	976.7
## 1988.9507	635.0	411.1	858.8	292.6	977.3
## 1988.9535	635.2	411.1	859.2	292.5	977.9
## 1988.9562	635.4	411.1	859.7	292.4	978.4
## 1988.9589	635.6	411.1	860.2	292.2	979.0
## 1988.9617	635.9	411.1	860.6	292.1	979.6

## 1988.9644	636.1	411.1	861.1	292.0	980.2
## 1988.9671	636.3	411.1	861.6	291.8	980.8
## 1988.9699	636.5	411.1	862.0	291.7	981.4
## 1988.9726	636.8	411.1	862.5	291.6	982.0
## 1988.9754	637.0	411.1	863.0	291.4	982.6
## 1988.9781	637.2	411.1	863.4	291.3	983.1
## 1988.9808	637.5	411.0	863.9	291.2	983.7
## 1988.9836	637.7	411.0	864.3	291.1	984.3
## 1988.9863	637.9	411.0	864.8	290.9	984.9
## 1988.9890	638.1	411.0	865.3	290.8	985.5
## 1988.9918	638.4	411.0	865.7	290.7	986.1
## 1988.9945	638.6	411.0	866.2	290.5	986.7
## 1988.9973	638.8	411.0	866.7	290.4	987.3
## 1989.0000	639.1	411.0	867.1	290.3	987.8
## 1989.0027	639.3	411.0	867.6	290.1	988.4
## 1989.0055	639.5	411.0	868.0	290.0	989.0
## 1989.0082	639.7	411.0	868.5	289.9	989.6
## 1989.0110	640.0	411.0	869.0	289.7	990.2
## 1989.0137	640.2	411.0	869.4	289.6	990.8
## 1989.0164	640.4	411.0	869.9	289.5	991.4
## 1989.0192	640.7	410.9	870.4	289.3	992.0
## 1989.0219	640.9	410.9	870.8	289.2	992.5
## 1989.0246	641.1	410.9	871.3	289.1	993.1
## 1989.0274	641.3	410.9	871.7	289.0	993.7
## 1989.0301	641.6	410.9	872.2	288.8	994.3
## 1989.0329	641.8	410.9	872.7	288.7	994.9
## 1989.0356	642.0	410.9	873.1	288.6	995.5
## 1989.0383	642.2	410.9	873.6	288.4	996.1
## 1989.0411	642.5	410.9	874.1	288.3	996.6
## 1989.0438	642.7	410.9	874.5	288.2	997.2
## 1989.0465	642.9	410.9	875.0	288.0	997.8
## 1989.0493	643.2	410.9	875.4	287.9	998.4
## 1989.0520	643.4	410.9	875.9	287.8	999.0
## 1989.0548	643.6	410.9	876.4	287.6	999.6
## 1989.0575	643.8	410.8	876.8	287.5	1000.2
## 1989.0602	644.1	410.8	877.3	287.4	1000.8
## 1989.0630	644.3	410.8	877.8	287.2	1001.3
## 1989.0657	644.5	410.8	878.2	287.1	1001.9
## 1989.0684	644.8	410.8	878.7	287.0	1002.5
## 1989.0712	645.0	410.8	879.1	286.9	1003.1
## 1989.0739	645.2	410.8	879.6	286.7	1003.7
## 1989.0767	645.4	410.8	880.1	286.6	1004.3
## 1989.0794	645.7	410.8	880.5	286.5	1004.9
## 1989.0821	645.9	410.8	881.0	286.3	1005.4
## 1989.0849	646.1	410.8	881.5	286.2	1006.0
## 1989.0876	646.3	410.8	881.9	286.1	1006.6
## 1989.0903	646.6	410.8	882.4	285.9	1007.2
## 1989.0931	646.8	410.8	882.8	285.8	1007.8
## 1989.0958	647.0	410.8	883.3	285.7	1008.4
## 1989.0986	647.3	410.8	883.8	285.6	1009.0
## 1989.1013	647.5	410.7	884.2	285.4	1009.5
## 1989.1040	647.7	410.7	884.7	285.3	1010.1

## 1989.1068	647.9	410.7	885.1	285.2	1010.7
## 1989.1095	648.2	410.7	885.6	285.0	1011.3
## 1989.1123	648.4	410.7	886.1	284.9	1011.9
## 1989.1150	648.6	410.7	886.5	284.8	1012.5
## 1989.1177	648.9	410.7	887.0	284.6	1013.1
## 1989.1205	649.1	410.7	887.5	284.5	1013.6
## 1989.1232	649.3	410.7	887.9	284.4	1014.2
## 1989.1259	649.5	410.7	888.4	284.3	1014.8
## 1989.1287	649.8	410.7	888.8	284.1	1015.4
## 1989.1314	650.0	410.7	889.3	284.0	1016.0
## 1989.1342	650.2	410.7	889.8	283.9	1016.6
## 1989.1369	650.4	410.7	890.2	283.7	1017.2
## 1989.1396	650.7	410.7	890.7	283.6	1017.7
## 1989.1424	650.9	410.7	891.1	283.5	1018.3
## 1989.1451	651.1	410.6	891.6	283.3	1018.9
## 1989.1478	651.4	410.6	892.1	283.2	1019.5
## 1989.1506	651.6	410.6	892.5	283.1	1020.1
## 1989.1533	651.8	410.6	893.0	283.0	1020.7
## 1989.1561	652.0	410.6	893.5	282.8	1021.2
## 1989.1588	652.3	410.6	893.9	282.7	1021.8
## 1989.1615	652.5	410.6	894.4	282.6	1022.4
## 1989.1643	652.7	410.6	894.8	282.4	1023.0
## 1989.1670	653.0	410.6	895.3	282.3	1023.6
## 1989.1697	653.2	410.6	895.8	282.2	1024.2
## 1989.1725	653.4	410.6	896.2	282.1	1024.8
## 1989.1752	653.6	410.6	896.7	281.9	1025.3
## 1989.1780	653.9	410.6	897.1	281.8	1025.9
## 1989.1807	654.1	410.6	897.6	281.7	1026.5
## 1989.1834	654.3	410.6	898.1	281.5	1027.1
## 1989.1862	654.5	410.6	898.5	281.4	1027.7
## 1989.1889	654.8	410.6	899.0	281.3	1028.3
## 1989.1916	655.0	410.6	899.4	281.2	1028.9
## 1989.1944	655.2	410.5	899.9	281.0	1029.4
## 1989.1971	655.5	410.5	900.4	280.9	1030.0
## 1989.1999	655.7	410.5	900.8	280.8	1030.6
## 1989.2026	655.9	410.5	901.3	280.6	1031.2
## 1989.2053	656.1	410.5	901.8	280.5	1031.8
## 1989.2081	656.4	410.5	902.2	280.4	1032.4
## 1989.2108	656.6	410.5	902.7	280.2	1032.9
## 1989.2136	656.8	410.5	903.1	280.1	1033.5
## 1989.2163	657.1	410.5	903.6	280.0	1034.1
## 1989.2190	657.3	410.5	904.1	279.9	1034.7
## 1989.2218	657.5	410.5	904.5	279.7	1035.3
## 1989.2245	657.7	410.5	905.0	279.6	1035.9
## 1989.2272	658.0	410.5	905.4	279.5	1036.4
## 1989.2300	658.2	410.5	905.9	279.3	1037.0
## 1989.2327	658.4	410.5	906.4	279.2	1037.6
## 1989.2355	658.6	410.5	906.8	279.1	1038.2
## 1989.2382	658.9	410.5	907.3	279.0	1038.8
## 1989.2409	659.1	410.5	907.7	278.8	1039.4
## 1989.2437	659.3	410.5	908.2	278.7	1040.0
## 1989.2464	659.6	410.4	908.7	278.6	1040.5

## 1989.2491	659.8	410.4	909.1	278.5	1041.1
## 1989.2519	660.0	410.4	909.6	278.3	1041.7
## 1989.2546	660.2	410.4	910.0	278.2	1042.3
## 1989.2574	660.5	410.4	910.5	278.1	1042.9
## 1989.2601	660.7	410.4	911.0	277.9	1043.5
## 1989.2628	660.9	410.4	911.4	277.8	1044.0
## 1989.2656	661.2	410.4	911.9	277.7	1044.6
## 1989.2683	661.4	410.4	912.3	277.6	1045.2
## 1989.2710	661.6	410.4	912.8	277.4	1045.8
## 1989.2738	661.8	410.4	913.3	277.3	1046.4
## 1989.2765	662.1	410.4	913.7	277.2	1047.0
## 1989.2793	662.3	410.4	914.2	277.0	1047.5
## 1989.2820	662.5	410.4	914.7	276.9	1048.1
## 1989.2847	662.7	410.4	915.1	276.8	1048.7
## 1989.2875	663.0	410.4	915.6	276.7	1049.3
## 1989.2902	663.2	410.4	916.0	276.5	1049.9
## 1989.2930	663.4	410.4	916.5	276.4	1050.5
## 1989.2957	663.7	410.4	917.0	276.3	1051.0
## 1989.2984	663.9	410.4	917.4	276.1	1051.6
## 1989.3012	664.1	410.4	917.9	276.0	1052.2
## 1989.3039	664.3	410.3	918.3	275.9	1052.8
## 1989.3066	664.6	410.3	918.8	275.8	1053.4
## 1989.3094	664.8	410.3	919.3	275.6	1054.0
## 1989.3121	665.0	410.3	919.7	275.5	1054.5
## 1989.3149	665.3	410.3	920.2	275.4	1055.1
## 1989.3176	665.5	410.3	920.6	275.3	1055.7
## 1989.3203	665.7	410.3	921.1	275.1	1056.3
## 1989.3231	665.9	410.3	921.6	275.0	1056.9
## 1989.3258	666.2	410.3	922.0	274.9	1057.5
## 1989.3285	666.4	410.3	922.5	274.7	1058.0
## 1989.3313	666.6	410.3	922.9	274.6	1058.6
## 1989.3340	666.8	410.3	923.4	274.5	1059.2
## 1989.3368	667.1	410.3	923.9	274.4	1059.8
## 1989.3395	667.3	410.3	924.3	274.2	1060.4
## 1989.3422	667.5	410.3	924.8	274.1	1060.9
## 1989.3450	667.8	410.3	925.2	274.0	1061.5
## 1989.3477	668.0	410.3	925.7	273.9	1062.1
## 1989.3504	668.2	410.3	926.2	273.7	1062.7
## 1989.3532	668.4	410.3	926.6	273.6	1063.3
## 1989.3559	668.7	410.3	927.1	273.5	1063.9
## 1989.3587	668.9	410.3	927.5	273.3	1064.4
## 1989.3614	669.1	410.3	928.0	273.2	1065.0
## 1989.3641	669.4	410.3	928.5	273.1	1065.6
## 1989.3669	669.6	410.2	928.9	273.0	1066.2
## 1989.3696	669.8	410.2	929.4	272.8	1066.8
## 1989.3723	670.0	410.2	929.8	272.7	1067.4
## 1989.3751	670.3	410.2	930.3	272.6	1067.9
## 1989.3778	670.5	410.2	930.8	272.5	1068.5
## 1989.3806	670.7	410.2	931.2	272.3	1069.1
## 1989.3833	670.9	410.2	931.7	272.2	1069.7
## 1989.3860	671.2	410.2	932.1	272.1	1070.3
## 1989.3888	671.4	410.2	932.6	272.0	1070.9

## 1989.3915	671.6	410.2	933.0	271.8	1071.4
## 1989.3943	671.9	410.2	933.5	271.7	1072.0
## 1989.3970	672.1	410.2	934.0	271.6	1072.6
## 1989.3997	672.3	410.2	934.4	271.4	1073.2
## 1989.4025	672.5	410.2	934.9	271.3	1073.8
## 1989.4052	672.8	410.2	935.3	271.2	1074.3
## 1989.4079	673.0	410.2	935.8	271.1	1074.9
## 1989.4107	673.2	410.2	936.3	270.9	1075.5
## 1989.4134	673.5	410.2	936.7	270.8	1076.1
## 1989.4162	673.7	410.2	937.2	270.7	1076.7
## 1989.4189	673.9	410.2	937.6	270.6	1077.3
## 1989.4216	674.1	410.2	938.1	270.4	1077.8
## 1989.4244	674.4	410.2	938.6	270.3	1078.4
## 1989.4271	674.6	410.2	939.0	270.2	1079.0
## 1989.4298	674.8	410.2	939.5	270.1	1079.6
## 1989.4326	675.0	410.2	939.9	269.9	1080.2
## 1989.4353	675.3	410.1	940.4	269.8	1080.7
## 1989.4381	675.5	410.1	940.9	269.7	1081.3
## 1989.4408	675.7	410.1	941.3	269.5	1081.9
## 1989.4435	676.0	410.1	941.8	269.4	1082.5
## 1989.4463	676.2	410.1	942.2	269.3	1083.1
## 1989.4490	676.4	410.1	942.7	269.2	1083.7
## 1989.4517	676.6	410.1	943.2	269.0	1084.2
## 1989.4545	676.9	410.1	943.6	268.9	1084.8
## 1989.4572	677.1	410.1	944.1	268.8	1085.4
## 1989.4600	677.3	410.1	944.5	268.7	1086.0
## 1989.4627	677.6	410.1	945.0	268.5	1086.6
## 1989.4654	677.8	410.1	945.5	268.4	1087.1
## 1989.4682	678.0	410.1	945.9	268.3	1087.7
## 1989.4709	678.2	410.1	946.4	268.2	1088.3
## 1989.4736	678.5	410.1	946.8	268.0	1088.9
## 1989.4764	678.7	410.1	947.3	267.9	1089.5
## 1989.4791	678.9	410.1	947.7	267.8	1090.1
## 1989.4819	679.1	410.1	948.2	267.7	1090.6
## 1989.4846	679.4	410.1	948.7	267.5	1091.2
## 1989.4873	679.6	410.1	949.1	267.4	1091.8
## 1989.4901	679.8	410.1	949.6	267.3	1092.4
## 1989.4928	680.1	410.1	950.0	267.2	1093.0
## 1989.4956	680.3	410.1	950.5	267.0	1093.5
## 1989.4983	680.5	410.1	951.0	266.9	1094.1
## 1989.5010	680.7	410.1	951.4	266.8	1094.7
## 1989.5038	681.0	410.1	951.9	266.7	1095.3
## 1989.5065	681.2	410.1	952.3	266.5	1095.9
## 1989.5092	681.4	410.1	952.8	266.4	1096.4
## 1989.5120	681.7	410.1	953.3	266.3	1097.0
## 1989.5147	681.9	410.0	953.7	266.2	1097.6
## 1989.5175	682.1	410.0	954.2	266.0	1098.2
## 1989.5202	682.3	410.0	954.6	265.9	1098.8
## 1989.5229	682.6	410.0	955.1	265.8	1099.4
## 1989.5257	682.8	410.0	955.5	265.6	1099.9
## 1989.5284	683.0	410.0	956.0	265.5	1100.5
## 1989.5311	683.2	410.0	956.5	265.4	1101.1

## 1989.5339	683.5	410.0	956.9	265.3	1101.7
## 1989.5366	683.7	410.0	957.4	265.1	1102.3
## 1989.5394	683.9	410.0	957.8	265.0	1102.8
## 1989.5421	684.2	410.0	958.3	264.9	1103.4
## 1989.5448	684.4	410.0	958.8	264.8	1104.0
## 1989.5476	684.6	410.0	959.2	264.6	1104.6
## 1989.5503	684.8	410.0	959.7	264.5	1105.2
## 1989.5530	685.1	410.0	960.1	264.4	1105.7
## 1989.5558	685.3	410.0	960.6	264.3	1106.3
## 1989.5585	685.5	410.0	961.1	264.1	1106.9
## 1989.5613	685.8	410.0	961.5	264.0	1107.5
## 1989.5640	686.0	410.0	962.0	263.9	1108.1
## 1989.5667	686.2	410.0	962.4	263.8	1108.6
## 1989.5695	686.4	410.0	962.9	263.6	1109.2
## 1989.5722	686.7	410.0	963.3	263.5	1109.8
## 1989.5749	686.9	410.0	963.8	263.4	1110.4
## 1989.5777	687.1	410.0	964.3	263.3	1111.0
## 1989.5804	687.3	410.0	964.7	263.1	1111.5
## 1989.5832	687.6	410.0	965.2	263.0	1112.1
## 1989.5859	687.8	410.0	965.6	262.9	1112.7
## 1989.5886	688.0	410.0	966.1	262.8	1113.3
## 1989.5914	688.3	410.0	966.6	262.6	1113.9
## 1989.5941	688.5	410.0	967.0	262.5	1114.5
## 1989.5969	688.7	410.0	967.5	262.4	1115.0
## 1989.5996	688.9	410.0	967.9	262.3	1115.6
## 1989.6023	689.2	410.0	968.4	262.1	1116.2
## 1989.6051	689.4	410.0	968.8	262.0	1116.8
## 1989.6078	689.6	409.9	969.3	261.9	1117.4
## 1989.6105	689.9	409.9	969.8	261.8	1117.9
## 1989.6133	690.1	409.9	970.2	261.6	1118.5
## 1989.6160	690.3	409.9	970.7	261.5	1119.1
## 1989.6188	690.5	409.9	971.1	261.4	1119.7
## 1989.6215	690.8	409.9	971.6	261.3	1120.3
## 1989.6242	691.0	409.9	972.1	261.1	1120.8
## 1989.6270	691.2	409.9	972.5	261.0	1121.4
## 1989.6297	691.4	409.9	973.0	260.9	1122.0
## 1989.6324	691.7	409.9	973.4	260.8	1122.6
## 1989.6352	691.9	409.9	973.9	260.7	1123.2
## 1989.6379	692.1	409.9	974.3	260.5	1123.7
## 1989.6407	692.4	409.9	974.8	260.4	1124.3
## 1989.6434	692.6	409.9	975.3	260.3	1124.9
## 1989.6461	692.8	409.9	975.7	260.2	1125.5
## 1989.6489	693.0	409.9	976.2	260.0	1126.1
## 1989.6516	693.3	409.9	976.6	259.9	1126.6
## 1989.6543	693.5	409.9	977.1	259.8	1127.2
## 1989.6571	693.7	409.9	977.5	259.7	1127.8
## 1989.6598	694.0	409.9	978.0	259.5	1128.4
## 1989.6626	694.2	409.9	978.5	259.4	1129.0
## 1989.6653	694.4	409.9	978.9	259.3	1129.5
## 1989.6680	694.6	409.9	979.4	259.2	1130.1
## 1989.6708	694.9	409.9	979.8	259.0	1130.7
## 1989.6735	695.1	409.9	980.3	258.9	1131.3

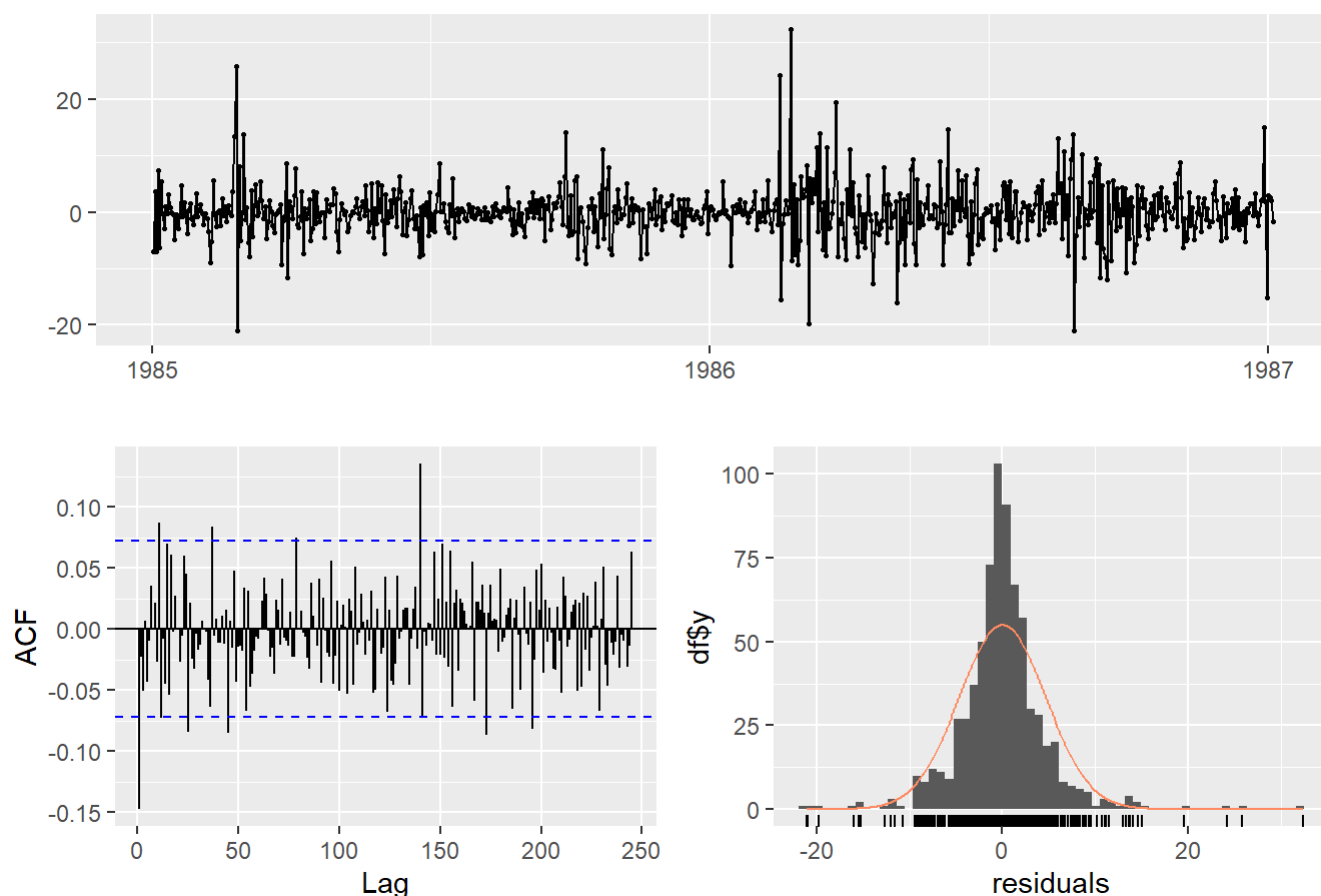
## 1989.6762	695.3	409.9	980.8	258.8	1131.9
## 1989.6790	695.5	409.9	981.2	258.7	1132.4
## 1989.6817	695.8	409.9	981.7	258.5	1133.0
## 1989.6845	696.0	409.9	982.1	258.4	1133.6
## 1989.6872	696.2	409.9	982.6	258.3	1134.2
## 1989.6899	696.5	409.9	983.0	258.2	1134.8
## 1989.6927	696.7	409.9	983.5	258.0	1135.3
## 1989.6954	696.9	409.9	984.0	257.9	1135.9
## 1989.6982	697.1	409.9	984.4	257.8	1136.5
## 1989.7009	697.4	409.9	984.9	257.7	1137.1
## 1989.7036	697.6	409.9	985.3	257.5	1137.7
## 1989.7064	697.8	409.9	985.8	257.4	1138.2
## 1989.7091	698.1	409.9	986.2	257.3	1138.8
## 1989.7118	698.3	409.9	986.7	257.2	1139.4
## 1989.7146	698.5	409.9	987.2	257.0	1140.0
## 1989.7173	698.7	409.9	987.6	256.9	1140.5
## 1989.7201	699.0	409.9	988.1	256.8	1141.1
## 1989.7228	699.2	409.8	988.5	256.7	1141.7
## 1989.7255	699.4	409.8	989.0	256.6	1142.3
## 1989.7283	699.6	409.8	989.5	256.4	1142.9
## 1989.7310	699.9	409.8	989.9	256.3	1143.4
## 1989.7337	700.1	409.8	990.4	256.2	1144.0
## 1989.7365	700.3	409.8	990.8	256.1	1144.6
## 1989.7392	700.6	409.8	991.3	255.9	1145.2
## 1989.7420	700.8	409.8	991.7	255.8	1145.8
## 1989.7447	701.0	409.8	992.2	255.7	1146.3
## 1989.7474	701.2	409.8	992.7	255.6	1146.9
## 1989.7502	701.5	409.8	993.1	255.4	1147.5
## 1989.7529	701.7	409.8	993.6	255.3	1148.1
## 1989.7556	701.9	409.8	994.0	255.2	1148.7
## 1989.7584	702.2	409.8	994.5	255.1	1149.2
## 1989.7611	702.4	409.8	994.9	254.9	1149.8
## 1989.7639	702.6	409.8	995.4	254.8	1150.4
## 1989.7666	702.8	409.8	995.9	254.7	1151.0
## 1989.7693	703.1	409.8	996.3	254.6	1151.6
## 1989.7721	703.3	409.8	996.8	254.5	1152.1
## 1989.7748	703.5	409.8	997.2	254.3	1152.7
## 1989.7775	703.7	409.8	997.7	254.2	1153.3
## 1989.7803	704.0	409.8	998.1	254.1	1153.9
## 1989.7830	704.2	409.8	998.6	254.0	1154.4
## 1989.7858	704.4	409.8	999.1	253.8	1155.0
## 1989.7885	704.7	409.8	999.5	253.7	1155.6
## 1989.7912	704.9	409.8	1000.0	253.6	1156.2
## 1989.7940	705.1	409.8	1000.4	253.5	1156.8
## 1989.7967	705.3	409.8	1000.9	253.3	1157.3
## 1989.7995	705.6	409.8	1001.3	253.2	1157.9
## 1989.8022	705.8	409.8	1001.8	253.1	1158.5
## 1989.8049	706.0	409.8	1002.3	253.0	1159.1
## 1989.8077	706.3	409.8	1002.7	252.8	1159.7
## 1989.8104	706.5	409.8	1003.2	252.7	1160.2
## 1989.8131	706.7	409.8	1003.6	252.6	1160.8
## 1989.8159	706.9	409.8	1004.1	252.5	1161.4

## 1989.8186	707.2	409.8	1004.5	252.4	1162.0
## 1989.8214	707.4	409.8	1005.0	252.2	1162.6
## 1989.8241	707.6	409.8	1005.5	252.1	1163.1
## 1989.8268	707.8	409.8	1005.9	252.0	1163.7
## 1989.8296	708.1	409.8	1006.4	251.9	1164.3
## 1989.8323	708.3	409.8	1006.8	251.7	1164.9
## 1989.8350	708.5	409.8	1007.3	251.6	1165.4
## 1989.8378	708.8	409.8	1007.7	251.5	1166.0
## 1989.8405	709.0	409.8	1008.2	251.4	1166.6
## 1989.8433	709.2	409.8	1008.7	251.2	1167.2
## 1989.8460	709.4	409.8	1009.1	251.1	1167.8
## 1989.8487	709.7	409.8	1009.6	251.0	1168.3
## 1989.8515	709.9	409.8	1010.0	250.9	1168.9
## 1989.8542	710.1	409.8	1010.5	250.8	1169.5
## 1989.8569	710.4	409.8	1010.9	250.6	1170.1
## 1989.8597	710.6	409.8	1011.4	250.5	1170.7
## 1989.8624	710.8	409.8	1011.9	250.4	1171.2
## 1989.8652	711.0	409.8	1012.3	250.3	1171.8
## 1989.8679	711.3	409.8	1012.8	250.1	1172.4
## 1989.8706	711.5	409.8	1013.2	250.0	1173.0
## 1989.8734	711.7	409.8	1013.7	249.9	1173.5
## 1989.8761	711.9	409.7	1014.1	249.8	1174.1
## 1989.8789	712.2	409.7	1014.6	249.7	1174.7
## 1989.8816	712.4	409.7	1015.1	249.5	1175.3
## 1989.8843	712.6	409.7	1015.5	249.4	1175.9
## 1989.8871	712.9	409.7	1016.0	249.3	1176.4
## 1989.8898	713.1	409.7	1016.4	249.2	1177.0
## 1989.8925	713.3	409.7	1016.9	249.0	1177.6
## 1989.8953	713.5	409.7	1017.3	248.9	1178.2
## 1989.8980	713.8	409.7	1017.8	248.8	1178.7
## 1989.9008	714.0	409.7	1018.3	248.7	1179.3
## 1989.9035	714.2	409.7	1018.7	248.5	1179.9
## 1989.9062	714.5	409.7	1019.2	248.4	1180.5
## 1989.9090	714.7	409.7	1019.6	248.3	1181.1
## 1989.9117	714.9	409.7	1020.1	248.2	1181.6
## 1989.9144	715.1	409.7	1020.5	248.1	1182.2
## 1989.9172	715.4	409.7	1021.0	247.9	1182.8
## 1989.9199	715.6	409.7	1021.5	247.8	1183.4
## 1989.9227	715.8	409.7	1021.9	247.7	1184.0
## 1989.9254	716.0	409.7	1022.4	247.6	1184.5
## 1989.9281	716.3	409.7	1022.8	247.4	1185.1
## 1989.9309	716.5	409.7	1023.3	247.3	1185.7
## 1989.9336	716.7	409.7	1023.7	247.2	1186.3
## 1989.9363	717.0	409.7	1024.2	247.1	1186.8
## 1989.9391	717.2	409.7	1024.7	247.0	1187.4
## 1989.9418	717.4	409.7	1025.1	246.8	1188.0
## 1989.9446	717.6	409.7	1025.6	246.7	1188.6
## 1989.9473	717.9	409.7	1026.0	246.6	1189.2
## 1989.9500	718.1	409.7	1026.5	246.5	1189.7
## 1989.9528	718.3	409.7	1026.9	246.3	1190.3
## 1989.9555	718.6	409.7	1027.4	246.2	1190.9
## 1989.9582	718.8	409.7	1027.9	246.1	1191.5

## 1989.9610	719.0	409.7	1028.3	246.0	1192.0
## 1989.9637	719.2	409.7	1028.8	245.9	1192.6
## 1989.9665	719.5	409.7	1029.2	245.7	1193.2
## 1989.9692	719.7	409.7	1029.7	245.6	1193.8
## 1989.9719	719.9	409.7	1030.1	245.5	1194.4
## 1989.9747	720.1	409.7	1030.6	245.4	1194.9
## 1989.9774	720.4	409.7	1031.0	245.2	1195.5
## 1989.9802	720.6	409.7	1031.5	245.1	1196.1
## 1989.9829	720.8	409.7	1032.0	245.0	1196.7
## 1989.9856	721.1	409.7	1032.4	244.9	1197.2
## 1989.9884	721.3	409.7	1032.9	244.8	1197.8
## 1989.9911	721.5	409.7	1033.3	244.6	1198.4
## 1989.9938	721.7	409.7	1033.8	244.5	1199.0
## 1989.9966	722.0	409.7	1034.2	244.4	1199.6
## 1989.9993	722.2	409.7	1034.7	244.3	1200.1
## 1990.0021	722.4	409.7	1035.2	244.1	1200.7
## 1990.0048	722.7	409.7	1035.6	244.0	1201.3
## 1990.0075	722.9	409.7	1036.1	243.9	1201.9

```
checkresiduals(rwff)
```

Residuals from Random walk with drift



```
##  
##  Ljung-Box test  
##  
## data:  Residuals from Random walk with drift  
## Q* = 167, df = 146, p-value = 0.1  
##  
## Model df: 1.    Total lags used: 147
```

```
# the Random walk with drit method has the lowest std.dev
```

Further plotting

```
naiveFF <- naive(data_clean, h=365*3) ; naiveFF  # Naive method
```

##	Point Forecast	Lo 80	Hi 80	Lo 95	Hi 95
## 1988.0335	382.3	376.7	387.9	373.73	390.9
## 1988.0363	382.3	374.4	390.2	370.18	394.4
## 1988.0390	382.3	372.6	392.0	367.46	397.1
## 1988.0418	382.3	371.1	393.5	365.16	399.4
## 1988.0445	382.3	369.8	394.8	363.14	401.5
## 1988.0472	382.3	368.6	396.0	361.31	403.3
## 1988.0500	382.3	367.5	397.1	359.62	405.0
## 1988.0527	382.3	366.4	398.2	358.06	406.5
## 1988.0554	382.3	365.5	399.1	356.59	408.0
## 1988.0582	382.3	364.6	400.0	355.20	409.4
## 1988.0609	382.3	363.7	400.9	353.87	410.7
## 1988.0637	382.3	362.9	401.7	352.61	412.0
## 1988.0664	382.3	362.1	402.5	351.40	413.2
## 1988.0691	382.3	361.3	403.3	350.23	414.4
## 1988.0719	382.3	360.6	404.0	349.11	415.5
## 1988.0746	382.3	359.9	404.7	348.02	416.6
## 1988.0773	382.3	359.2	405.4	346.96	417.6
## 1988.0801	382.3	358.5	406.1	345.94	418.7
## 1988.0828	382.3	357.9	406.7	344.94	419.7
## 1988.0856	382.3	357.2	407.4	343.97	420.6
## 1988.0883	382.3	356.6	408.0	343.02	421.6
## 1988.0910	382.3	356.0	408.6	342.10	422.5
## 1988.0938	382.3	355.4	409.2	341.20	423.4
## 1988.0965	382.3	354.8	409.8	340.31	424.3
## 1988.0992	382.3	354.3	410.3	339.45	425.2
## 1988.1020	382.3	353.7	410.9	338.60	426.0
## 1988.1047	382.3	353.2	411.4	337.77	426.8
## 1988.1075	382.3	352.6	412.0	336.95	427.7
## 1988.1102	382.3	352.1	412.5	336.15	428.5
## 1988.1129	382.3	351.6	413.0	335.36	429.2
## 1988.1157	382.3	351.1	413.5	334.58	430.0
## 1988.1184	382.3	350.6	414.0	333.82	430.8
## 1988.1211	382.3	350.1	414.5	333.07	431.5
## 1988.1239	382.3	349.6	415.0	332.33	432.3
## 1988.1266	382.3	349.1	415.5	331.60	433.0
## 1988.1294	382.3	348.7	415.9	330.88	433.7
## 1988.1321	382.3	348.2	416.4	330.17	434.4
## 1988.1348	382.3	347.8	416.8	329.47	435.1
## 1988.1376	382.3	347.3	417.3	328.78	435.8
## 1988.1403	382.3	346.9	417.7	328.10	436.5
## 1988.1431	382.3	346.4	418.2	327.42	437.2
## 1988.1458	382.3	346.0	418.6	326.76	437.8
## 1988.1485	382.3	345.6	419.0	326.10	438.5
## 1988.1513	382.3	345.1	419.5	325.45	439.2
## 1988.1540	382.3	344.7	419.9	324.81	439.8
## 1988.1567	382.3	344.3	420.3	324.17	440.4
## 1988.1595	382.3	343.9	420.7	323.54	441.1
## 1988.1622	382.3	343.5	421.1	322.92	441.7
## 1988.1650	382.3	343.1	421.5	322.31	442.3
## 1988.1677	382.3	342.7	421.9	321.70	442.9
## 1988.1704	382.3	342.3	422.3	321.09	443.5

## 1988.1732	382.3	341.9	422.7	320.50	444.1
## 1988.1759	382.3	341.5	423.1	319.91	444.7
## 1988.1786	382.3	341.1	423.5	319.32	445.3
## 1988.1814	382.3	340.7	423.9	318.74	445.9
## 1988.1841	382.3	340.4	424.2	318.16	446.4
## 1988.1869	382.3	340.0	424.6	317.59	447.0
## 1988.1896	382.3	339.6	425.0	317.03	447.6
## 1988.1923	382.3	339.3	425.3	316.47	448.1
## 1988.1951	382.3	338.9	425.7	315.91	448.7
## 1988.1978	382.3	338.5	426.1	315.36	449.2
## 1988.2005	382.3	338.2	426.4	314.82	449.8
## 1988.2033	382.3	337.8	426.8	314.27	450.3
## 1988.2060	382.3	337.5	427.1	313.74	450.9
## 1988.2088	382.3	337.1	427.5	313.20	451.4
## 1988.2115	382.3	336.8	427.8	312.67	451.9
## 1988.2142	382.3	336.4	428.2	312.15	452.5
## 1988.2170	382.3	336.1	428.5	311.63	453.0
## 1988.2197	382.3	335.7	428.9	311.11	453.5
## 1988.2225	382.3	335.4	429.2	310.59	454.0
## 1988.2252	382.3	335.1	429.5	310.08	454.5
## 1988.2279	382.3	334.7	429.9	309.58	455.0
## 1988.2307	382.3	334.4	430.2	309.07	455.5
## 1988.2334	382.3	334.1	430.5	308.57	456.0
## 1988.2361	382.3	333.8	430.8	308.08	456.5
## 1988.2389	382.3	333.4	431.2	307.58	457.0
## 1988.2416	382.3	333.1	431.5	307.09	457.5
## 1988.2444	382.3	332.8	431.8	306.61	458.0
## 1988.2471	382.3	332.5	432.1	306.12	458.5
## 1988.2498	382.3	332.2	432.4	305.64	459.0
## 1988.2526	382.3	331.9	432.7	305.17	459.4
## 1988.2553	382.3	331.6	433.0	304.69	459.9
## 1988.2580	382.3	331.2	433.4	304.22	460.4
## 1988.2608	382.3	330.9	433.7	303.75	460.9
## 1988.2635	382.3	330.6	434.0	303.28	461.3
## 1988.2663	382.3	330.3	434.3	302.82	461.8
## 1988.2690	382.3	330.0	434.6	302.36	462.2
## 1988.2717	382.3	329.7	434.9	301.90	462.7
## 1988.2745	382.3	329.4	435.2	301.45	463.2
## 1988.2772	382.3	329.1	435.5	300.99	463.6
## 1988.2799	382.3	328.8	435.8	300.54	464.1
## 1988.2827	382.3	328.5	436.1	300.09	464.5
## 1988.2854	382.3	328.3	436.3	299.65	465.0
## 1988.2882	382.3	328.0	436.6	299.21	465.4
## 1988.2909	382.3	327.7	436.9	298.76	465.8
## 1988.2936	382.3	327.4	437.2	298.33	466.3
## 1988.2964	382.3	327.1	437.5	297.89	466.7
## 1988.2991	382.3	326.8	437.8	297.46	467.1
## 1988.3018	382.3	326.5	438.1	297.02	467.6
## 1988.3046	382.3	326.3	438.3	296.59	468.0
## 1988.3073	382.3	326.0	438.6	296.17	468.4
## 1988.3101	382.3	325.7	438.9	295.74	468.9
## 1988.3128	382.3	325.4	439.2	295.32	469.3

## 1988.3155	382.3	325.2	439.4	294.90	469.7
## 1988.3183	382.3	324.9	439.7	294.48	470.1
## 1988.3210	382.3	324.6	440.0	294.06	470.5
## 1988.3238	382.3	324.3	440.3	293.65	471.0
## 1988.3265	382.3	324.1	440.5	293.23	471.4
## 1988.3292	382.3	323.8	440.8	292.82	471.8
## 1988.3320	382.3	323.5	441.1	292.41	472.2
## 1988.3347	382.3	323.3	441.3	292.00	472.6
## 1988.3374	382.3	323.0	441.6	291.60	473.0
## 1988.3402	382.3	322.7	441.9	291.19	473.4
## 1988.3429	382.3	322.5	442.1	290.79	473.8
## 1988.3457	382.3	322.2	442.4	290.39	474.2
## 1988.3484	382.3	321.9	442.7	289.99	474.6
## 1988.3511	382.3	321.7	442.9	289.60	475.0
## 1988.3539	382.3	321.4	443.2	289.20	475.4
## 1988.3566	382.3	321.2	443.4	288.81	475.8
## 1988.3593	382.3	320.9	443.7	288.41	476.2
## 1988.3621	382.3	320.7	443.9	288.02	476.6
## 1988.3648	382.3	320.4	444.2	287.64	477.0
## 1988.3676	382.3	320.1	444.5	287.25	477.4
## 1988.3703	382.3	319.9	444.7	286.86	477.7
## 1988.3730	382.3	319.6	445.0	286.48	478.1
## 1988.3758	382.3	319.4	445.2	286.10	478.5
## 1988.3785	382.3	319.1	445.5	285.72	478.9
## 1988.3812	382.3	318.9	445.7	285.34	479.3
## 1988.3840	382.3	318.7	445.9	284.96	479.6
## 1988.3867	382.3	318.4	446.2	284.58	480.0
## 1988.3895	382.3	318.2	446.4	284.21	480.4
## 1988.3922	382.3	317.9	446.7	283.83	480.8
## 1988.3949	382.3	317.7	446.9	283.46	481.1
## 1988.3977	382.3	317.4	447.2	283.09	481.5
## 1988.4004	382.3	317.2	447.4	282.72	481.9
## 1988.4031	382.3	316.9	447.7	282.35	482.2
## 1988.4059	382.3	316.7	447.9	281.98	482.6
## 1988.4086	382.3	316.5	448.1	281.62	483.0
## 1988.4114	382.3	316.2	448.4	281.26	483.3
## 1988.4141	382.3	316.0	448.6	280.89	483.7
## 1988.4168	382.3	315.8	448.8	280.53	484.1
## 1988.4196	382.3	315.5	449.1	280.17	484.4
## 1988.4223	382.3	315.3	449.3	279.81	484.8
## 1988.4251	382.3	315.1	449.5	279.45	485.1
## 1988.4278	382.3	314.8	449.8	279.10	485.5
## 1988.4305	382.3	314.6	450.0	278.74	485.9
## 1988.4333	382.3	314.4	450.2	278.39	486.2
## 1988.4360	382.3	314.1	450.5	278.04	486.6
## 1988.4387	382.3	313.9	450.7	277.68	486.9
## 1988.4415	382.3	313.7	450.9	277.33	487.3
## 1988.4442	382.3	313.4	451.2	276.98	487.6
## 1988.4470	382.3	313.2	451.4	276.64	488.0
## 1988.4497	382.3	313.0	451.6	276.29	488.3
## 1988.4524	382.3	312.8	451.8	275.94	488.7
## 1988.4552	382.3	312.5	452.1	275.60	489.0

## 1988.4579	382.3	312.3	452.3	275.25	489.3
## 1988.4606	382.3	312.1	452.5	274.91	489.7
## 1988.4634	382.3	311.9	452.7	274.57	490.0
## 1988.4661	382.3	311.6	453.0	274.23	490.4
## 1988.4689	382.3	311.4	453.2	273.89	490.7
## 1988.4716	382.3	311.2	453.4	273.55	491.0
## 1988.4743	382.3	311.0	453.6	273.22	491.4
## 1988.4771	382.3	310.8	453.8	272.88	491.7
## 1988.4798	382.3	310.5	454.1	272.54	492.1
## 1988.4825	382.3	310.3	454.3	272.21	492.4
## 1988.4853	382.3	310.1	454.5	271.88	492.7
## 1988.4880	382.3	309.9	454.7	271.54	493.1
## 1988.4908	382.3	309.7	454.9	271.21	493.4
## 1988.4935	382.3	309.4	455.2	270.88	493.7
## 1988.4962	382.3	309.2	455.4	270.55	494.0
## 1988.4990	382.3	309.0	455.6	270.23	494.4
## 1988.5017	382.3	308.8	455.8	269.90	494.7
## 1988.5044	382.3	308.6	456.0	269.57	495.0
## 1988.5072	382.3	308.4	456.2	269.25	495.4
## 1988.5099	382.3	308.2	456.4	268.92	495.7
## 1988.5127	382.3	308.0	456.6	268.60	496.0
## 1988.5154	382.3	307.7	456.9	268.28	496.3
## 1988.5181	382.3	307.5	457.1	267.95	496.6
## 1988.5209	382.3	307.3	457.3	267.63	497.0
## 1988.5236	382.3	307.1	457.5	267.31	497.3
## 1988.5264	382.3	306.9	457.7	267.00	497.6
## 1988.5291	382.3	306.7	457.9	266.68	497.9
## 1988.5318	382.3	306.5	458.1	266.36	498.2
## 1988.5346	382.3	306.3	458.3	266.04	498.6
## 1988.5373	382.3	306.1	458.5	265.73	498.9
## 1988.5400	382.3	305.9	458.7	265.41	499.2
## 1988.5428	382.3	305.7	458.9	265.10	499.5
## 1988.5455	382.3	305.5	459.1	264.79	499.8
## 1988.5483	382.3	305.3	459.3	264.47	500.1
## 1988.5510	382.3	305.1	459.5	264.16	500.4
## 1988.5537	382.3	304.9	459.7	263.85	500.7
## 1988.5565	382.3	304.6	460.0	263.54	501.1
## 1988.5592	382.3	304.4	460.2	263.23	501.4
## 1988.5619	382.3	304.2	460.4	262.93	501.7
## 1988.5647	382.3	304.0	460.6	262.62	502.0
## 1988.5674	382.3	303.8	460.8	262.31	502.3
## 1988.5702	382.3	303.6	461.0	262.01	502.6
## 1988.5729	382.3	303.4	461.2	261.70	502.9
## 1988.5756	382.3	303.2	461.4	261.40	503.2
## 1988.5784	382.3	303.0	461.6	261.09	503.5
## 1988.5811	382.3	302.9	461.7	260.79	503.8
## 1988.5838	382.3	302.7	461.9	260.49	504.1
## 1988.5866	382.3	302.5	462.1	260.19	504.4
## 1988.5893	382.3	302.3	462.3	259.89	504.7
## 1988.5921	382.3	302.1	462.5	259.59	505.0
## 1988.5948	382.3	301.9	462.7	259.29	505.3
## 1988.5975	382.3	301.7	462.9	258.99	505.6

## 1988.6003	382.3	301.5	463.1	258.69	505.9
## 1988.6030	382.3	301.3	463.3	258.40	506.2
## 1988.6057	382.3	301.1	463.5	258.10	506.5
## 1988.6085	382.3	300.9	463.7	257.81	506.8
## 1988.6112	382.3	300.7	463.9	257.51	507.1
## 1988.6140	382.3	300.5	464.1	257.22	507.4
## 1988.6167	382.3	300.3	464.3	256.92	507.7
## 1988.6194	382.3	300.1	464.5	256.63	508.0
## 1988.6222	382.3	299.9	464.7	256.34	508.3
## 1988.6249	382.3	299.7	464.9	256.05	508.6
## 1988.6277	382.3	299.6	465.0	255.76	508.8
## 1988.6304	382.3	299.4	465.2	255.47	509.1
## 1988.6331	382.3	299.2	465.4	255.18	509.4
## 1988.6359	382.3	299.0	465.6	254.89	509.7
## 1988.6386	382.3	298.8	465.8	254.60	510.0
## 1988.6413	382.3	298.6	466.0	254.31	510.3
## 1988.6441	382.3	298.4	466.2	254.03	510.6
## 1988.6468	382.3	298.2	466.4	253.74	510.9
## 1988.6496	382.3	298.1	466.5	253.46	511.1
## 1988.6523	382.3	297.9	466.7	253.17	511.4
## 1988.6550	382.3	297.7	466.9	252.89	511.7
## 1988.6578	382.3	297.5	467.1	252.60	512.0
## 1988.6605	382.3	297.3	467.3	252.32	512.3
## 1988.6632	382.3	297.1	467.5	252.04	512.6
## 1988.6660	382.3	296.9	467.7	251.76	512.8
## 1988.6687	382.3	296.8	467.8	251.48	513.1
## 1988.6715	382.3	296.6	468.0	251.20	513.4
## 1988.6742	382.3	296.4	468.2	250.92	513.7
## 1988.6769	382.3	296.2	468.4	250.64	514.0
## 1988.6797	382.3	296.0	468.6	250.36	514.2
## 1988.6824	382.3	295.8	468.8	250.08	514.5
## 1988.6851	382.3	295.7	468.9	249.80	514.8
## 1988.6879	382.3	295.5	469.1	249.53	515.1
## 1988.6906	382.3	295.3	469.3	249.25	515.4
## 1988.6934	382.3	295.1	469.5	248.97	515.6
## 1988.6961	382.3	294.9	469.7	248.70	515.9
## 1988.6988	382.3	294.8	469.8	248.42	516.2
## 1988.7016	382.3	294.6	470.0	248.15	516.4
## 1988.7043	382.3	294.4	470.2	247.88	516.7
## 1988.7070	382.3	294.2	470.4	247.60	517.0
## 1988.7098	382.3	294.0	470.6	247.33	517.3
## 1988.7125	382.3	293.9	470.7	247.06	517.5
## 1988.7153	382.3	293.7	470.9	246.79	517.8
## 1988.7180	382.3	293.5	471.1	246.52	518.1
## 1988.7207	382.3	293.3	471.3	246.25	518.4
## 1988.7235	382.3	293.2	471.4	245.98	518.6
## 1988.7262	382.3	293.0	471.6	245.71	518.9
## 1988.7290	382.3	292.8	471.8	245.44	519.2
## 1988.7317	382.3	292.6	472.0	245.17	519.4
## 1988.7344	382.3	292.5	472.1	244.90	519.7
## 1988.7372	382.3	292.3	472.3	244.64	520.0
## 1988.7399	382.3	292.1	472.5	244.37	520.2

## 1988.7426	382.3	291.9	472.7	244.10	520.5
## 1988.7454	382.3	291.8	472.8	243.84	520.8
## 1988.7481	382.3	291.6	473.0	243.57	521.0
## 1988.7509	382.3	291.4	473.2	243.31	521.3
## 1988.7536	382.3	291.2	473.4	243.05	521.6
## 1988.7563	382.3	291.1	473.5	242.78	521.8
## 1988.7591	382.3	290.9	473.7	242.52	522.1
## 1988.7618	382.3	290.7	473.9	242.26	522.3
## 1988.7645	382.3	290.6	474.0	241.99	522.6
## 1988.7673	382.3	290.4	474.2	241.73	522.9
## 1988.7700	382.3	290.2	474.4	241.47	523.1
## 1988.7728	382.3	290.0	474.6	241.21	523.4
## 1988.7755	382.3	289.9	474.7	240.95	523.6
## 1988.7782	382.3	289.7	474.9	240.69	523.9
## 1988.7810	382.3	289.5	475.1	240.43	524.2
## 1988.7837	382.3	289.4	475.2	240.17	524.4
## 1988.7864	382.3	289.2	475.4	239.92	524.7
## 1988.7892	382.3	289.0	475.6	239.66	524.9
## 1988.7919	382.3	288.9	475.7	239.40	525.2
## 1988.7947	382.3	288.7	475.9	239.14	525.5
## 1988.7974	382.3	288.5	476.1	238.89	525.7
## 1988.8001	382.3	288.4	476.2	238.63	526.0
## 1988.8029	382.3	288.2	476.4	238.38	526.2
## 1988.8056	382.3	288.0	476.6	238.12	526.5
## 1988.8084	382.3	287.9	476.7	237.87	526.7
## 1988.8111	382.3	287.7	476.9	237.61	527.0
## 1988.8138	382.3	287.5	477.1	237.36	527.2
## 1988.8166	382.3	287.4	477.2	237.11	527.5
## 1988.8193	382.3	287.2	477.4	236.85	527.7
## 1988.8220	382.3	287.0	477.6	236.60	528.0
## 1988.8248	382.3	286.9	477.7	236.35	528.3
## 1988.8275	382.3	286.7	477.9	236.10	528.5
## 1988.8303	382.3	286.5	478.1	235.85	528.8
## 1988.8330	382.3	286.4	478.2	235.60	529.0
## 1988.8357	382.3	286.2	478.4	235.35	529.3
## 1988.8385	382.3	286.0	478.6	235.10	529.5
## 1988.8412	382.3	285.9	478.7	234.85	529.8
## 1988.8439	382.3	285.7	478.9	234.60	530.0
## 1988.8467	382.3	285.6	479.0	234.35	530.3
## 1988.8494	382.3	285.4	479.2	234.10	530.5
## 1988.8522	382.3	285.2	479.4	233.85	530.7
## 1988.8549	382.3	285.1	479.5	233.61	531.0
## 1988.8576	382.3	284.9	479.7	233.36	531.2
## 1988.8604	382.3	284.8	479.8	233.11	531.5
## 1988.8631	382.3	284.6	480.0	232.87	531.7
## 1988.8658	382.3	284.4	480.2	232.62	532.0
## 1988.8686	382.3	284.3	480.3	232.38	532.2
## 1988.8713	382.3	284.1	480.5	232.13	532.5
## 1988.8741	382.3	284.0	480.6	231.89	532.7
## 1988.8768	382.3	283.8	480.8	231.64	533.0
## 1988.8795	382.3	283.6	481.0	231.40	533.2
## 1988.8823	382.3	283.5	481.1	231.16	533.4

## 1988.8850	382.3	283.3	481.3	230.91	533.7
## 1988.8877	382.3	283.2	481.4	230.67	533.9
## 1988.8905	382.3	283.0	481.6	230.43	534.2
## 1988.8932	382.3	282.8	481.8	230.19	534.4
## 1988.8960	382.3	282.7	481.9	229.95	534.7
## 1988.8987	382.3	282.5	482.1	229.71	534.9
## 1988.9014	382.3	282.4	482.2	229.47	535.1
## 1988.9042	382.3	282.2	482.4	229.23	535.4
## 1988.9069	382.3	282.1	482.5	228.99	535.6
## 1988.9097	382.3	281.9	482.7	228.75	535.9
## 1988.9124	382.3	281.7	482.9	228.51	536.1
## 1988.9151	382.3	281.6	483.0	228.27	536.3
## 1988.9179	382.3	281.4	483.2	228.03	536.6
## 1988.9206	382.3	281.3	483.3	227.79	536.8
## 1988.9233	382.3	281.1	483.5	227.56	537.0
## 1988.9261	382.3	281.0	483.6	227.32	537.3
## 1988.9288	382.3	280.8	483.8	227.08	537.5
## 1988.9316	382.3	280.7	483.9	226.84	537.8
## 1988.9343	382.3	280.5	484.1	226.61	538.0
## 1988.9370	382.3	280.3	484.3	226.37	538.2
## 1988.9398	382.3	280.2	484.4	226.14	538.5
## 1988.9425	382.3	280.0	484.6	225.90	538.7
## 1988.9452	382.3	279.9	484.7	225.67	538.9
## 1988.9480	382.3	279.7	484.9	225.43	539.2
## 1988.9507	382.3	279.6	485.0	225.20	539.4
## 1988.9535	382.3	279.4	485.2	224.97	539.6
## 1988.9562	382.3	279.3	485.3	224.73	539.9
## 1988.9589	382.3	279.1	485.5	224.50	540.1
## 1988.9617	382.3	279.0	485.6	224.27	540.3
## 1988.9644	382.3	278.8	485.8	224.04	540.6
## 1988.9671	382.3	278.7	485.9	223.80	540.8
## 1988.9699	382.3	278.5	486.1	223.57	541.0
## 1988.9726	382.3	278.4	486.2	223.34	541.3
## 1988.9754	382.3	278.2	486.4	223.11	541.5
## 1988.9781	382.3	278.1	486.5	222.88	541.7
## 1988.9808	382.3	277.9	486.7	222.65	542.0
## 1988.9836	382.3	277.8	486.8	222.42	542.2
## 1988.9863	382.3	277.6	487.0	222.19	542.4
## 1988.9890	382.3	277.5	487.1	221.96	542.6
## 1988.9918	382.3	277.3	487.3	221.73	542.9
## 1988.9945	382.3	277.2	487.4	221.50	543.1
## 1988.9973	382.3	277.0	487.6	221.27	543.3
## 1989.0000	382.3	276.9	487.7	221.05	543.6
## 1989.0027	382.3	276.7	487.9	220.82	543.8
## 1989.0055	382.3	276.6	488.0	220.59	544.0
## 1989.0082	382.3	276.4	488.2	220.36	544.2
## 1989.0110	382.3	276.3	488.3	220.14	544.5
## 1989.0137	382.3	276.1	488.5	219.91	544.7
## 1989.0164	382.3	276.0	488.6	219.69	544.9
## 1989.0192	382.3	275.8	488.8	219.46	545.1
## 1989.0219	382.3	275.7	488.9	219.23	545.4
## 1989.0246	382.3	275.5	489.1	219.01	545.6

## 1989.0274	382.3	275.4	489.2	218.78	545.8
## 1989.0301	382.3	275.2	489.4	218.56	546.0
## 1989.0329	382.3	275.1	489.5	218.34	546.3
## 1989.0356	382.3	274.9	489.7	218.11	546.5
## 1989.0383	382.3	274.8	489.8	217.89	546.7
## 1989.0411	382.3	274.7	489.9	217.67	546.9
## 1989.0438	382.3	274.5	490.1	217.44	547.2
## 1989.0465	382.3	274.4	490.2	217.22	547.4
## 1989.0493	382.3	274.2	490.4	217.00	547.6
## 1989.0520	382.3	274.1	490.5	216.78	547.8
## 1989.0548	382.3	273.9	490.7	216.55	548.0
## 1989.0575	382.3	273.8	490.8	216.33	548.3
## 1989.0602	382.3	273.6	491.0	216.11	548.5
## 1989.0630	382.3	273.5	491.1	215.89	548.7
## 1989.0657	382.3	273.3	491.3	215.67	548.9
## 1989.0684	382.3	273.2	491.4	215.45	549.2
## 1989.0712	382.3	273.1	491.5	215.23	549.4
## 1989.0739	382.3	272.9	491.7	215.01	549.6
## 1989.0767	382.3	272.8	491.8	214.79	549.8
## 1989.0794	382.3	272.6	492.0	214.57	550.0
## 1989.0821	382.3	272.5	492.1	214.35	550.2
## 1989.0849	382.3	272.3	492.3	214.13	550.5
## 1989.0876	382.3	272.2	492.4	213.92	550.7
## 1989.0903	382.3	272.1	492.5	213.70	550.9
## 1989.0931	382.3	271.9	492.7	213.48	551.1
## 1989.0958	382.3	271.8	492.8	213.26	551.3
## 1989.0986	382.3	271.6	493.0	213.05	551.6
## 1989.1013	382.3	271.5	493.1	212.83	551.8
## 1989.1040	382.3	271.3	493.3	212.61	552.0
## 1989.1068	382.3	271.2	493.4	212.40	552.2
## 1989.1095	382.3	271.1	493.5	212.18	552.4
## 1989.1123	382.3	270.9	493.7	211.96	552.6
## 1989.1150	382.3	270.8	493.8	211.75	552.9
## 1989.1177	382.3	270.6	494.0	211.53	553.1
## 1989.1205	382.3	270.5	494.1	211.32	553.3
## 1989.1232	382.3	270.4	494.2	211.10	553.5
## 1989.1259	382.3	270.2	494.4	210.89	553.7
## 1989.1287	382.3	270.1	494.5	210.68	553.9
## 1989.1314	382.3	269.9	494.7	210.46	554.1
## 1989.1342	382.3	269.8	494.8	210.25	554.4
## 1989.1369	382.3	269.7	494.9	210.03	554.6
## 1989.1396	382.3	269.5	495.1	209.82	554.8
## 1989.1424	382.3	269.4	495.2	209.61	555.0
## 1989.1451	382.3	269.2	495.4	209.40	555.2
## 1989.1478	382.3	269.1	495.5	209.18	555.4
## 1989.1506	382.3	269.0	495.6	208.97	555.6
## 1989.1533	382.3	268.8	495.8	208.76	555.8
## 1989.1561	382.3	268.7	495.9	208.55	556.1
## 1989.1588	382.3	268.6	496.0	208.34	556.3
## 1989.1615	382.3	268.4	496.2	208.13	556.5
## 1989.1643	382.3	268.3	496.3	207.92	556.7
## 1989.1670	382.3	268.1	496.5	207.71	556.9

## 1989.1697	382.3	268.0	496.6	207.49	557.1
## 1989.1725	382.3	267.9	496.7	207.29	557.3
## 1989.1752	382.3	267.7	496.9	207.08	557.5
## 1989.1780	382.3	267.6	497.0	206.87	557.7
## 1989.1807	382.3	267.5	497.1	206.66	557.9
## 1989.1834	382.3	267.3	497.3	206.45	558.2
## 1989.1862	382.3	267.2	497.4	206.24	558.4
## 1989.1889	382.3	267.0	497.6	206.03	558.6
## 1989.1916	382.3	266.9	497.7	205.82	558.8
## 1989.1944	382.3	266.8	497.8	205.61	559.0
## 1989.1971	382.3	266.6	498.0	205.41	559.2
## 1989.1999	382.3	266.5	498.1	205.20	559.4
## 1989.2026	382.3	266.4	498.2	204.99	559.6
## 1989.2053	382.3	266.2	498.4	204.78	559.8
## 1989.2081	382.3	266.1	498.5	204.58	560.0
## 1989.2108	382.3	266.0	498.6	204.37	560.2
## 1989.2136	382.3	265.8	498.8	204.17	560.4
## 1989.2163	382.3	265.7	498.9	203.96	560.6
## 1989.2190	382.3	265.6	499.0	203.75	560.8
## 1989.2218	382.3	265.4	499.2	203.55	561.1
## 1989.2245	382.3	265.3	499.3	203.34	561.3
## 1989.2272	382.3	265.2	499.4	203.14	561.5
## 1989.2300	382.3	265.0	499.6	202.93	561.7
## 1989.2327	382.3	264.9	499.7	202.73	561.9
## 1989.2355	382.3	264.8	499.8	202.52	562.1
## 1989.2382	382.3	264.6	500.0	202.32	562.3
## 1989.2409	382.3	264.5	500.1	202.12	562.5
## 1989.2437	382.3	264.4	500.2	201.91	562.7
## 1989.2464	382.3	264.2	500.4	201.71	562.9
## 1989.2491	382.3	264.1	500.5	201.50	563.1
## 1989.2519	382.3	264.0	500.6	201.30	563.3
## 1989.2546	382.3	263.8	500.8	201.10	563.5
## 1989.2574	382.3	263.7	500.9	200.90	563.7
## 1989.2601	382.3	263.6	501.0	200.69	563.9
## 1989.2628	382.3	263.4	501.2	200.49	564.1
## 1989.2656	382.3	263.3	501.3	200.29	564.3
## 1989.2683	382.3	263.2	501.4	200.09	564.5
## 1989.2710	382.3	263.0	501.6	199.89	564.7
## 1989.2738	382.3	262.9	501.7	199.69	564.9
## 1989.2765	382.3	262.8	501.8	199.48	565.1
## 1989.2793	382.3	262.6	502.0	199.28	565.3
## 1989.2820	382.3	262.5	502.1	199.08	565.5
## 1989.2847	382.3	262.4	502.2	198.88	565.7
## 1989.2875	382.3	262.2	502.4	198.68	565.9
## 1989.2902	382.3	262.1	502.5	198.48	566.1
## 1989.2930	382.3	262.0	502.6	198.28	566.3
## 1989.2957	382.3	261.8	502.8	198.08	566.5
## 1989.2984	382.3	261.7	502.9	197.88	566.7
## 1989.3012	382.3	261.6	503.0	197.69	566.9
## 1989.3039	382.3	261.5	503.1	197.49	567.1
## 1989.3066	382.3	261.3	503.3	197.29	567.3
## 1989.3094	382.3	261.2	503.4	197.09	567.5

## 1989.3121	382.3	261.1	503.5	196.89	567.7
## 1989.3149	382.3	260.9	503.7	196.69	567.9
## 1989.3176	382.3	260.8	503.8	196.50	568.1
## 1989.3203	382.3	260.7	503.9	196.30	568.3
## 1989.3231	382.3	260.6	504.0	196.10	568.5
## 1989.3258	382.3	260.4	504.2	195.90	568.7
## 1989.3285	382.3	260.3	504.3	195.71	568.9
## 1989.3313	382.3	260.2	504.4	195.51	569.1
## 1989.3340	382.3	260.0	504.6	195.31	569.3
## 1989.3368	382.3	259.9	504.7	195.12	569.5
## 1989.3395	382.3	259.8	504.8	194.92	569.7
## 1989.3422	382.3	259.7	504.9	194.72	569.9
## 1989.3450	382.3	259.5	505.1	194.53	570.1
## 1989.3477	382.3	259.4	505.2	194.33	570.3
## 1989.3504	382.3	259.3	505.3	194.14	570.5
## 1989.3532	382.3	259.1	505.5	193.94	570.7
## 1989.3559	382.3	259.0	505.6	193.75	570.9
## 1989.3587	382.3	258.9	505.7	193.55	571.0
## 1989.3614	382.3	258.8	505.8	193.36	571.2
## 1989.3641	382.3	258.6	506.0	193.17	571.4
## 1989.3669	382.3	258.5	506.1	192.97	571.6
## 1989.3696	382.3	258.4	506.2	192.78	571.8
## 1989.3723	382.3	258.3	506.3	192.58	572.0
## 1989.3751	382.3	258.1	506.5	192.39	572.2
## 1989.3778	382.3	258.0	506.6	192.20	572.4
## 1989.3806	382.3	257.9	506.7	192.00	572.6
## 1989.3833	382.3	257.7	506.9	191.81	572.8
## 1989.3860	382.3	257.6	507.0	191.62	573.0
## 1989.3888	382.3	257.5	507.1	191.43	573.2
## 1989.3915	382.3	257.4	507.2	191.23	573.4
## 1989.3943	382.3	257.2	507.4	191.04	573.6
## 1989.3970	382.3	257.1	507.5	190.85	573.8
## 1989.3997	382.3	257.0	507.6	190.66	573.9
## 1989.4025	382.3	256.9	507.7	190.47	574.1
## 1989.4052	382.3	256.7	507.9	190.27	574.3
## 1989.4079	382.3	256.6	508.0	190.08	574.5
## 1989.4107	382.3	256.5	508.1	189.89	574.7
## 1989.4134	382.3	256.4	508.2	189.70	574.9
## 1989.4162	382.3	256.2	508.4	189.51	575.1
## 1989.4189	382.3	256.1	508.5	189.32	575.3
## 1989.4216	382.3	256.0	508.6	189.13	575.5
## 1989.4244	382.3	255.9	508.7	188.94	575.7
## 1989.4271	382.3	255.7	508.9	188.75	575.8
## 1989.4298	382.3	255.6	509.0	188.56	576.0
## 1989.4326	382.3	255.5	509.1	188.37	576.2
## 1989.4353	382.3	255.4	509.2	188.18	576.4
## 1989.4381	382.3	255.2	509.4	187.99	576.6
## 1989.4408	382.3	255.1	509.5	187.80	576.8
## 1989.4435	382.3	255.0	509.6	187.62	577.0
## 1989.4463	382.3	254.9	509.7	187.43	577.2
## 1989.4490	382.3	254.8	509.8	187.24	577.4
## 1989.4517	382.3	254.6	510.0	187.05	577.5

## 1989.4545	382.3	254.5	510.1	186.86	577.7
## 1989.4572	382.3	254.4	510.2	186.67	577.9
## 1989.4600	382.3	254.3	510.3	186.49	578.1
## 1989.4627	382.3	254.1	510.5	186.30	578.3
## 1989.4654	382.3	254.0	510.6	186.11	578.5
## 1989.4682	382.3	253.9	510.7	185.92	578.7
## 1989.4709	382.3	253.8	510.8	185.74	578.9
## 1989.4736	382.3	253.7	510.9	185.55	579.0
## 1989.4764	382.3	253.5	511.1	185.36	579.2
## 1989.4791	382.3	253.4	511.2	185.18	579.4
## 1989.4819	382.3	253.3	511.3	184.99	579.6
## 1989.4846	382.3	253.2	511.4	184.81	579.8
## 1989.4873	382.3	253.0	511.6	184.62	580.0
## 1989.4901	382.3	252.9	511.7	184.43	580.2
## 1989.4928	382.3	252.8	511.8	184.25	580.4
## 1989.4956	382.3	252.7	511.9	184.06	580.5
## 1989.4983	382.3	252.6	512.0	183.88	580.7
## 1989.5010	382.3	252.4	512.2	183.69	580.9
## 1989.5038	382.3	252.3	512.3	183.51	581.1
## 1989.5065	382.3	252.2	512.4	183.32	581.3
## 1989.5092	382.3	252.1	512.5	183.14	581.5
## 1989.5120	382.3	252.0	512.6	182.95	581.6
## 1989.5147	382.3	251.8	512.8	182.77	581.8
## 1989.5175	382.3	251.7	512.9	182.59	582.0
## 1989.5202	382.3	251.6	513.0	182.40	582.2
## 1989.5229	382.3	251.5	513.1	182.22	582.4
## 1989.5257	382.3	251.4	513.2	182.04	582.6
## 1989.5284	382.3	251.2	513.4	181.85	582.7
## 1989.5311	382.3	251.1	513.5	181.67	582.9
## 1989.5339	382.3	251.0	513.6	181.49	583.1
## 1989.5366	382.3	250.9	513.7	181.30	583.3
## 1989.5394	382.3	250.8	513.8	181.12	583.5
## 1989.5421	382.3	250.6	514.0	180.94	583.7
## 1989.5448	382.3	250.5	514.1	180.76	583.8
## 1989.5476	382.3	250.4	514.2	180.57	584.0
## 1989.5503	382.3	250.3	514.3	180.39	584.2
## 1989.5530	382.3	250.2	514.4	180.21	584.4
## 1989.5558	382.3	250.0	514.6	180.03	584.6
## 1989.5585	382.3	249.9	514.7	179.85	584.8
## 1989.5613	382.3	249.8	514.8	179.67	584.9
## 1989.5640	382.3	249.7	514.9	179.48	585.1
## 1989.5667	382.3	249.6	515.0	179.30	585.3
## 1989.5695	382.3	249.4	515.2	179.12	585.5
## 1989.5722	382.3	249.3	515.3	178.94	585.7
## 1989.5749	382.3	249.2	515.4	178.76	585.8
## 1989.5777	382.3	249.1	515.5	178.58	586.0
## 1989.5804	382.3	249.0	515.6	178.40	586.2
## 1989.5832	382.3	248.9	515.7	178.22	586.4
## 1989.5859	382.3	248.7	515.9	178.04	586.6
## 1989.5886	382.3	248.6	516.0	177.86	586.7
## 1989.5914	382.3	248.5	516.1	177.68	586.9
## 1989.5941	382.3	248.4	516.2	177.50	587.1

## 1989.5969	382.3	248.3	516.3	177.32	587.3
## 1989.5996	382.3	248.2	516.4	177.14	587.5
## 1989.6023	382.3	248.0	516.6	176.96	587.6
## 1989.6051	382.3	247.9	516.7	176.79	587.8
## 1989.6078	382.3	247.8	516.8	176.61	588.0
## 1989.6105	382.3	247.7	516.9	176.43	588.2
## 1989.6133	382.3	247.6	517.0	176.25	588.3
## 1989.6160	382.3	247.5	517.1	176.07	588.5
## 1989.6188	382.3	247.3	517.3	175.89	588.7
## 1989.6215	382.3	247.2	517.4	175.72	588.9
## 1989.6242	382.3	247.1	517.5	175.54	589.1
## 1989.6270	382.3	247.0	517.6	175.36	589.2
## 1989.6297	382.3	246.9	517.7	175.18	589.4
## 1989.6324	382.3	246.8	517.8	175.01	589.6
## 1989.6352	382.3	246.6	518.0	174.83	589.8
## 1989.6379	382.3	246.5	518.1	174.65	589.9
## 1989.6407	382.3	246.4	518.2	174.48	590.1
## 1989.6434	382.3	246.3	518.3	174.30	590.3
## 1989.6461	382.3	246.2	518.4	174.12	590.5
## 1989.6489	382.3	246.1	518.5	173.95	590.7
## 1989.6516	382.3	245.9	518.7	173.77	590.8
## 1989.6543	382.3	245.8	518.8	173.59	591.0
## 1989.6571	382.3	245.7	518.9	173.42	591.2
## 1989.6598	382.3	245.6	519.0	173.24	591.4
## 1989.6626	382.3	245.5	519.1	173.07	591.5
## 1989.6653	382.3	245.4	519.2	172.89	591.7
## 1989.6680	382.3	245.3	519.3	172.72	591.9
## 1989.6708	382.3	245.1	519.5	172.54	592.1
## 1989.6735	382.3	245.0	519.6	172.37	592.2
## 1989.6762	382.3	244.9	519.7	172.19	592.4
## 1989.6790	382.3	244.8	519.8	172.02	592.6
## 1989.6817	382.3	244.7	519.9	171.84	592.8
## 1989.6845	382.3	244.6	520.0	171.67	592.9
## 1989.6872	382.3	244.5	520.1	171.49	593.1
## 1989.6899	382.3	244.3	520.3	171.32	593.3
## 1989.6927	382.3	244.2	520.4	171.14	593.5
## 1989.6954	382.3	244.1	520.5	170.97	593.6
## 1989.6982	382.3	244.0	520.6	170.80	593.8
## 1989.7009	382.3	243.9	520.7	170.62	594.0
## 1989.7036	382.3	243.8	520.8	170.45	594.1
## 1989.7064	382.3	243.7	520.9	170.28	594.3
## 1989.7091	382.3	243.6	521.0	170.10	594.5
## 1989.7118	382.3	243.4	521.2	169.93	594.7
## 1989.7146	382.3	243.3	521.3	169.76	594.8
## 1989.7173	382.3	243.2	521.4	169.59	595.0
## 1989.7201	382.3	243.1	521.5	169.41	595.2
## 1989.7228	382.3	243.0	521.6	169.24	595.4
## 1989.7255	382.3	242.9	521.7	169.07	595.5
## 1989.7283	382.3	242.8	521.8	168.90	595.7
## 1989.7310	382.3	242.6	522.0	168.72	595.9
## 1989.7337	382.3	242.5	522.1	168.55	596.0
## 1989.7365	382.3	242.4	522.2	168.38	596.2

## 1989.7392	382.3	242.3	522.3	168.21	596.4
## 1989.7420	382.3	242.2	522.4	168.04	596.6
## 1989.7447	382.3	242.1	522.5	167.87	596.7
## 1989.7474	382.3	242.0	522.6	167.69	596.9
## 1989.7502	382.3	241.9	522.7	167.52	597.1
## 1989.7529	382.3	241.8	522.8	167.35	597.2
## 1989.7556	382.3	241.6	523.0	167.18	597.4
## 1989.7584	382.3	241.5	523.1	167.01	597.6
## 1989.7611	382.3	241.4	523.2	166.84	597.8
## 1989.7639	382.3	241.3	523.3	166.67	597.9
## 1989.7666	382.3	241.2	523.4	166.50	598.1
## 1989.7693	382.3	241.1	523.5	166.33	598.3
## 1989.7721	382.3	241.0	523.6	166.16	598.4
## 1989.7748	382.3	240.9	523.7	165.99	598.6
## 1989.7775	382.3	240.8	523.8	165.82	598.8
## 1989.7803	382.3	240.6	524.0	165.65	598.9
## 1989.7830	382.3	240.5	524.1	165.48	599.1
## 1989.7858	382.3	240.4	524.2	165.31	599.3
## 1989.7885	382.3	240.3	524.3	165.14	599.5
## 1989.7912	382.3	240.2	524.4	164.97	599.6
## 1989.7940	382.3	240.1	524.5	164.80	599.8
## 1989.7967	382.3	240.0	524.6	164.64	600.0
## 1989.7995	382.3	239.9	524.7	164.47	600.1
## 1989.8022	382.3	239.8	524.8	164.30	600.3
## 1989.8049	382.3	239.6	525.0	164.13	600.5
## 1989.8077	382.3	239.5	525.1	163.96	600.6
## 1989.8104	382.3	239.4	525.2	163.79	600.8
## 1989.8131	382.3	239.3	525.3	163.63	601.0
## 1989.8159	382.3	239.2	525.4	163.46	601.1
## 1989.8186	382.3	239.1	525.5	163.29	601.3
## 1989.8214	382.3	239.0	525.6	163.12	601.5
## 1989.8241	382.3	238.9	525.7	162.95	601.6
## 1989.8268	382.3	238.8	525.8	162.79	601.8
## 1989.8296	382.3	238.7	525.9	162.62	602.0
## 1989.8323	382.3	238.5	526.1	162.45	602.1
## 1989.8350	382.3	238.4	526.2	162.29	602.3
## 1989.8378	382.3	238.3	526.3	162.12	602.5
## 1989.8405	382.3	238.2	526.4	161.95	602.6
## 1989.8433	382.3	238.1	526.5	161.79	602.8
## 1989.8460	382.3	238.0	526.6	161.62	603.0
## 1989.8487	382.3	237.9	526.7	161.45	603.1
## 1989.8515	382.3	237.8	526.8	161.29	603.3
## 1989.8542	382.3	237.7	526.9	161.12	603.5
## 1989.8569	382.3	237.6	527.0	160.95	603.6
## 1989.8597	382.3	237.5	527.1	160.79	603.8
## 1989.8624	382.3	237.4	527.2	160.62	604.0
## 1989.8652	382.3	237.2	527.4	160.46	604.1
## 1989.8679	382.3	237.1	527.5	160.29	604.3
## 1989.8706	382.3	237.0	527.6	160.13	604.5
## 1989.8734	382.3	236.9	527.7	159.96	604.6
## 1989.8761	382.3	236.8	527.8	159.80	604.8
## 1989.8789	382.3	236.7	527.9	159.63	605.0

## 1989.8816	382.3	236.6	528.0	159.47	605.1
## 1989.8843	382.3	236.5	528.1	159.30	605.3
## 1989.8871	382.3	236.4	528.2	159.14	605.5
## 1989.8898	382.3	236.3	528.3	158.97	605.6
## 1989.8925	382.3	236.2	528.4	158.81	605.8
## 1989.8953	382.3	236.1	528.5	158.64	606.0
## 1989.8980	382.3	236.0	528.6	158.48	606.1
## 1989.9008	382.3	235.8	528.8	158.32	606.3
## 1989.9035	382.3	235.7	528.9	158.15	606.4
## 1989.9062	382.3	235.6	529.0	157.99	606.6
## 1989.9090	382.3	235.5	529.1	157.82	606.8
## 1989.9117	382.3	235.4	529.2	157.66	606.9
## 1989.9144	382.3	235.3	529.3	157.50	607.1
## 1989.9172	382.3	235.2	529.4	157.33	607.3
## 1989.9199	382.3	235.1	529.5	157.17	607.4
## 1989.9227	382.3	235.0	529.6	157.01	607.6
## 1989.9254	382.3	234.9	529.7	156.84	607.8
## 1989.9281	382.3	234.8	529.8	156.68	607.9
## 1989.9309	382.3	234.7	529.9	156.52	608.1
## 1989.9336	382.3	234.6	530.0	156.36	608.2
## 1989.9363	382.3	234.5	530.1	156.19	608.4
## 1989.9391	382.3	234.4	530.2	156.03	608.6
## 1989.9418	382.3	234.2	530.4	155.87	608.7
## 1989.9446	382.3	234.1	530.5	155.71	608.9
## 1989.9473	382.3	234.0	530.6	155.55	609.1
## 1989.9500	382.3	233.9	530.7	155.38	609.2
## 1989.9528	382.3	233.8	530.8	155.22	609.4
## 1989.9555	382.3	233.7	530.9	155.06	609.5
## 1989.9582	382.3	233.6	531.0	154.90	609.7
## 1989.9610	382.3	233.5	531.1	154.74	609.9
## 1989.9637	382.3	233.4	531.2	154.58	610.0
## 1989.9665	382.3	233.3	531.3	154.41	610.2
## 1989.9692	382.3	233.2	531.4	154.25	610.3
## 1989.9719	382.3	233.1	531.5	154.09	610.5
## 1989.9747	382.3	233.0	531.6	153.93	610.7
## 1989.9774	382.3	232.9	531.7	153.77	610.8
## 1989.9802	382.3	232.8	531.8	153.61	611.0
## 1989.9829	382.3	232.7	531.9	153.45	611.2
## 1989.9856	382.3	232.6	532.0	153.29	611.3
## 1989.9884	382.3	232.5	532.1	153.13	611.5
## 1989.9911	382.3	232.3	532.3	152.97	611.6
## 1989.9938	382.3	232.2	532.4	152.81	611.8
## 1989.9966	382.3	232.1	532.5	152.65	612.0
## 1989.9993	382.3	232.0	532.6	152.49	612.1
## 1990.0021	382.3	231.9	532.7	152.33	612.3
## 1990.0048	382.3	231.8	532.8	152.17	612.4
## 1990.0075	382.3	231.7	532.9	152.01	612.6
## 1990.0103	382.3	231.6	533.0	151.85	612.7
## 1990.0130	382.3	231.5	533.1	151.69	612.9
## 1990.0157	382.3	231.4	533.2	151.53	613.1
## 1990.0185	382.3	231.3	533.3	151.37	613.2
## 1990.0212	382.3	231.2	533.4	151.21	613.4

## 1990.0240	382.3	231.1	533.5	151.05	613.5
## 1990.0267	382.3	231.0	533.6	150.90	613.7
## 1990.0294	382.3	230.9	533.7	150.74	613.9
## 1990.0322	382.3	230.8	533.8	150.58	614.0
## 1990.0349	382.3	230.7	533.9	150.42	614.2
## 1990.0376	382.3	230.6	534.0	150.26	614.3
## 1990.0404	382.3	230.5	534.1	150.10	614.5
## 1990.0431	382.3	230.4	534.2	149.95	614.7
## 1990.0459	382.3	230.3	534.3	149.79	614.8
## 1990.0486	382.3	230.2	534.4	149.63	615.0
## 1990.0513	382.3	230.1	534.5	149.47	615.1
## 1990.0541	382.3	230.0	534.6	149.31	615.3
## 1990.0568	382.3	229.9	534.7	149.16	615.4
## 1990.0595	382.3	229.8	534.8	149.00	615.6
## 1990.0623	382.3	229.6	535.0	148.84	615.8
## 1990.0650	382.3	229.5	535.1	148.68	615.9
## 1990.0678	382.3	229.4	535.2	148.53	616.1
## 1990.0705	382.3	229.3	535.3	148.37	616.2
## 1990.0732	382.3	229.2	535.4	148.21	616.4
## 1990.0760	382.3	229.1	535.5	148.06	616.5
## 1990.0787	382.3	229.0	535.6	147.90	616.7
## 1990.0815	382.3	228.9	535.7	147.74	616.9
## 1990.0842	382.3	228.8	535.8	147.59	617.0
## 1990.0869	382.3	228.7	535.9	147.43	617.2
## 1990.0897	382.3	228.6	536.0	147.27	617.3
## 1990.0924	382.3	228.5	536.1	147.12	617.5
## 1990.0951	382.3	228.4	536.2	146.96	617.6
## 1990.0979	382.3	228.3	536.3	146.81	617.8
## 1990.1006	382.3	228.2	536.4	146.65	618.0
## 1990.1034	382.3	228.1	536.5	146.49	618.1
## 1990.1061	382.3	228.0	536.6	146.34	618.3
## 1990.1088	382.3	227.9	536.7	146.18	618.4
## 1990.1116	382.3	227.8	536.8	146.03	618.6
## 1990.1143	382.3	227.7	536.9	145.87	618.7
## 1990.1170	382.3	227.6	537.0	145.72	618.9
## 1990.1198	382.3	227.5	537.1	145.56	619.0
## 1990.1225	382.3	227.4	537.2	145.41	619.2
## 1990.1253	382.3	227.3	537.3	145.25	619.3
## 1990.1280	382.3	227.2	537.4	145.10	619.5
## 1990.1307	382.3	227.1	537.5	144.94	619.7
## 1990.1335	382.3	227.0	537.6	144.79	619.8
## 1990.1362	382.3	226.9	537.7	144.63	620.0
## 1990.1389	382.3	226.8	537.8	144.48	620.1
## 1990.1417	382.3	226.7	537.9	144.32	620.3
## 1990.1444	382.3	226.6	538.0	144.17	620.4
## 1990.1472	382.3	226.5	538.1	144.01	620.6
## 1990.1499	382.3	226.4	538.2	143.86	620.7
## 1990.1526	382.3	226.3	538.3	143.71	620.9
## 1990.1554	382.3	226.2	538.4	143.55	621.0
## 1990.1581	382.3	226.1	538.5	143.40	621.2
## 1990.1608	382.3	226.0	538.6	143.25	621.4
## 1990.1636	382.3	225.9	538.7	143.09	621.5

## 1990.1663	382.3	225.8	538.8	142.94	621.7
## 1990.1691	382.3	225.7	538.9	142.78	621.8
## 1990.1718	382.3	225.6	539.0	142.63	622.0
## 1990.1745	382.3	225.5	539.1	142.48	622.1
## 1990.1773	382.3	225.4	539.2	142.33	622.3
## 1990.1800	382.3	225.3	539.3	142.17	622.4
## 1990.1828	382.3	225.2	539.4	142.02	622.6
## 1990.1855	382.3	225.1	539.5	141.87	622.7
## 1990.1882	382.3	225.0	539.6	141.71	622.9
## 1990.1910	382.3	224.9	539.7	141.56	623.0
## 1990.1937	382.3	224.8	539.8	141.41	623.2
## 1990.1964	382.3	224.7	539.9	141.26	623.3
## 1990.1992	382.3	224.6	540.0	141.10	623.5
## 1990.2019	382.3	224.5	540.1	140.95	623.6
## 1990.2047	382.3	224.4	540.2	140.80	623.8
## 1990.2074	382.3	224.3	540.3	140.65	624.0
## 1990.2101	382.3	224.2	540.4	140.50	624.1
## 1990.2129	382.3	224.1	540.5	140.34	624.3
## 1990.2156	382.3	224.0	540.6	140.19	624.4
## 1990.2183	382.3	223.9	540.7	140.04	624.6
## 1990.2211	382.3	223.8	540.8	139.89	624.7
## 1990.2238	382.3	223.7	540.9	139.74	624.9
## 1990.2266	382.3	223.6	541.0	139.59	625.0
## 1990.2293	382.3	223.5	541.1	139.43	625.2
## 1990.2320	382.3	223.4	541.2	139.28	625.3
## 1990.2348	382.3	223.3	541.3	139.13	625.5
## 1990.2375	382.3	223.2	541.4	138.98	625.6
## 1990.2402	382.3	223.1	541.5	138.83	625.8
## 1990.2430	382.3	223.0	541.6	138.68	625.9
## 1990.2457	382.3	222.9	541.7	138.53	626.1
## 1990.2485	382.3	222.8	541.8	138.38	626.2
## 1990.2512	382.3	222.7	541.9	138.23	626.4
## 1990.2539	382.3	222.6	542.0	138.08	626.5
## 1990.2567	382.3	222.5	542.1	137.93	626.7
## 1990.2594	382.3	222.4	542.2	137.78	626.8
## 1990.2621	382.3	222.3	542.3	137.63	627.0
## 1990.2649	382.3	222.2	542.4	137.48	627.1
## 1990.2676	382.3	222.1	542.5	137.33	627.3
## 1990.2704	382.3	222.0	542.6	137.18	627.4
## 1990.2731	382.3	221.9	542.7	137.03	627.6
## 1990.2758	382.3	221.8	542.8	136.88	627.7
## 1990.2786	382.3	221.7	542.9	136.73	627.9
## 1990.2813	382.3	221.6	543.0	136.58	628.0
## 1990.2841	382.3	221.5	543.1	136.43	628.2
## 1990.2868	382.3	221.4	543.2	136.28	628.3
## 1990.2895	382.3	221.3	543.3	136.13	628.5
## 1990.2923	382.3	221.2	543.4	135.98	628.6
## 1990.2950	382.3	221.1	543.5	135.83	628.8
## 1990.2977	382.3	221.0	543.6	135.68	628.9
## 1990.3005	382.3	220.9	543.7	135.53	629.1
## 1990.3032	382.3	220.9	543.7	135.39	629.2
## 1990.3060	382.3	220.8	543.8	135.24	629.4

## 1990.3087	382.3	220.7	543.9	135.09	629.5
## 1990.3114	382.3	220.6	544.0	134.94	629.7
## 1990.3142	382.3	220.5	544.1	134.79	629.8
## 1990.3169	382.3	220.4	544.2	134.64	630.0
## 1990.3196	382.3	220.3	544.3	134.49	630.1
## 1990.3224	382.3	220.2	544.4	134.35	630.3
## 1990.3251	382.3	220.1	544.5	134.20	630.4
## 1990.3279	382.3	220.0	544.6	134.05	630.5
## 1990.3306	382.3	219.9	544.7	133.90	630.7
## 1990.3333	382.3	219.8	544.8	133.75	630.8
## 1990.3361	382.3	219.7	544.9	133.61	631.0
## 1990.3388	382.3	219.6	545.0	133.46	631.1
## 1990.3415	382.3	219.5	545.1	133.31	631.3
## 1990.3443	382.3	219.4	545.2	133.16	631.4
## 1990.3470	382.3	219.3	545.3	133.02	631.6
## 1990.3498	382.3	219.2	545.4	132.87	631.7
## 1990.3525	382.3	219.1	545.5	132.72	631.9
## 1990.3552	382.3	219.0	545.6	132.58	632.0
## 1990.3580	382.3	218.9	545.7	132.43	632.2
## 1990.3607	382.3	218.8	545.8	132.28	632.3
## 1990.3634	382.3	218.7	545.9	132.13	632.5
## 1990.3662	382.3	218.6	546.0	131.99	632.6
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## 1990.3717	382.3	218.4	546.2	131.69	632.9
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## 1990.3771	382.3	218.2	546.4	131.40	633.2
## 1990.3799	382.3	218.2	546.4	131.26	633.3
## 1990.3826	382.3	218.1	546.5	131.11	633.5
## 1990.3854	382.3	218.0	546.6	130.96	633.6
## 1990.3881	382.3	217.9	546.7	130.82	633.8
## 1990.3908	382.3	217.8	546.8	130.67	633.9
## 1990.3936	382.3	217.7	546.9	130.52	634.1
## 1990.3963	382.3	217.6	547.0	130.38	634.2
## 1990.3990	382.3	217.5	547.1	130.23	634.4
## 1990.4018	382.3	217.4	547.2	130.09	634.5
## 1990.4045	382.3	217.3	547.3	129.94	634.7
## 1990.4073	382.3	217.2	547.4	129.80	634.8
## 1990.4100	382.3	217.1	547.5	129.65	634.9
## 1990.4127	382.3	217.0	547.6	129.51	635.1
## 1990.4155	382.3	216.9	547.7	129.36	635.2
## 1990.4182	382.3	216.8	547.8	129.22	635.4
## 1990.4209	382.3	216.7	547.9	129.07	635.5
## 1990.4237	382.3	216.6	548.0	128.93	635.7
## 1990.4264	382.3	216.5	548.1	128.78	635.8
## 1990.4292	382.3	216.4	548.2	128.64	636.0
## 1990.4319	382.3	216.3	548.3	128.49	636.1
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## 1990.4374	382.3	216.2	548.4	128.20	636.4
## 1990.4401	382.3	216.1	548.5	128.06	636.5
## 1990.4428	382.3	216.0	548.6	127.91	636.7
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## 1990.4675	382.3	215.1	549.5	126.62	638.0
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## 1990.4730	382.3	214.9	549.7	126.33	638.3
## 1990.4757	382.3	214.8	549.8	126.19	638.4
## 1990.4784	382.3	214.7	549.9	126.04	638.6
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## 1990.4921	382.3	214.3	550.3	125.33	639.3
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## 1990.5003	382.3	214.0	550.6	124.90	639.7
## 1990.5031	382.3	213.9	550.7	124.76	639.8
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## 1990.5469	382.3	212.4	552.2	122.48	642.1
## 1990.5496	382.3	212.3	552.3	122.34	642.3
## 1990.5524	382.3	212.2	552.4	122.20	642.4
## 1990.5551	382.3	212.1	552.5	122.06	642.5
## 1990.5578	382.3	212.0	552.6	121.92	642.7
## 1990.5606	382.3	212.0	552.6	121.78	642.8
## 1990.5633	382.3	211.9	552.7	121.64	643.0
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## 1990.5688	382.3	211.7	552.9	121.36	643.2
## 1990.5715	382.3	211.6	553.0	121.22	643.4
## 1990.5743	382.3	211.5	553.1	121.07	643.5
## 1990.5770	382.3	211.4	553.2	120.93	643.7
## 1990.5797	382.3	211.3	553.3	120.79	643.8
## 1990.5825	382.3	211.2	553.4	120.65	643.9
## 1990.5852	382.3	211.1	553.5	120.51	644.1
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## 1990.5934	382.3	210.9	553.7	120.09	644.5
## 1990.5962	382.3	210.8	553.8	119.95	644.6
## 1990.5989	382.3	210.7	553.9	119.81	644.8
## 1990.6016	382.3	210.6	554.0	119.67	644.9
## 1990.6044	382.3	210.5	554.1	119.53	645.1
## 1990.6071	382.3	210.4	554.2	119.39	645.2
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## 1990.6235	382.3	209.8	554.8	118.56	646.0
## 1990.6263	382.3	209.8	554.8	118.42	646.2
## 1990.6290	382.3	209.7	554.9	118.28	646.3
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## 1990.6482	382.3	209.0	555.6	117.31	647.3
## 1990.6509	382.3	208.9	555.7	117.17	647.4
## 1990.6537	382.3	208.8	555.8	117.03	647.6
## 1990.6564	382.3	208.8	555.8	116.89	647.7
## 1990.6591	382.3	208.7	555.9	116.75	647.8
## 1990.6619	382.3	208.6	556.0	116.61	648.0
## 1990.6646	382.3	208.5	556.1	116.48	648.1
## 1990.6674	382.3	208.4	556.2	116.34	648.3
## 1990.6701	382.3	208.3	556.3	116.20	648.4
## 1990.6728	382.3	208.2	556.4	116.06	648.5
## 1990.6756	382.3	208.1	556.5	115.92	648.7
## 1990.6783	382.3	208.0	556.6	115.79	648.8
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## 1990.6838	382.3	207.9	556.7	115.51	649.1
## 1990.6865	382.3	207.8	556.8	115.37	649.2
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## 1990.7194	382.3	206.7	557.9	113.73	650.9
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## 1990.7276	382.3	206.4	558.2	113.32	651.3
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## 1990.7331	382.3	206.2	558.4	113.04	651.6

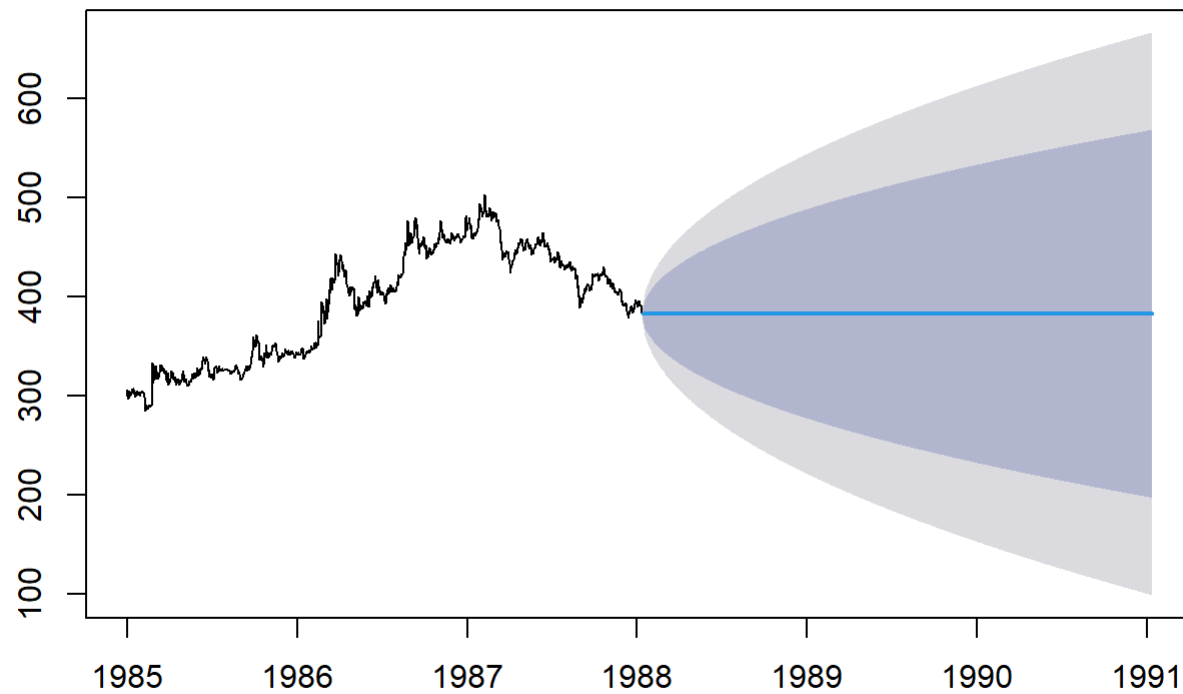
## 1990.7358	382.3	206.2	558.4	112.91	651.7
## 1990.7385	382.3	206.1	558.5	112.77	651.8
## 1990.7413	382.3	206.0	558.6	112.63	652.0
## 1990.7440	382.3	205.9	558.7	112.50	652.1
## 1990.7467	382.3	205.8	558.8	112.36	652.2
## 1990.7495	382.3	205.7	558.9	112.23	652.4
## 1990.7522	382.3	205.6	559.0	112.09	652.5
## 1990.7550	382.3	205.5	559.1	111.95	652.6
## 1990.7577	382.3	205.4	559.2	111.82	652.8
## 1990.7604	382.3	205.4	559.2	111.68	652.9
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## 1990.7659	382.3	205.2	559.4	111.41	653.2
## 1990.7687	382.3	205.1	559.5	111.28	653.3
## 1990.7714	382.3	205.0	559.6	111.14	653.5
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## 1990.7823	382.3	204.6	560.0	110.60	654.0
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## 1990.7878	382.3	204.5	560.1	110.33	654.3
## 1990.7906	382.3	204.4	560.2	110.19	654.4
## 1990.7933	382.3	204.3	560.3	110.06	654.5
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## 1990.8015	382.3	204.0	560.6	109.66	654.9
## 1990.8042	382.3	203.9	560.7	109.52	655.1
## 1990.8070	382.3	203.9	560.7	109.39	655.2
## 1990.8097	382.3	203.8	560.8	109.25	655.3
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## 1990.8152	382.3	203.6	561.0	108.98	655.6
## 1990.8179	382.3	203.5	561.1	108.85	655.8
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## 1990.8261	382.3	203.2	561.4	108.45	656.2
## 1990.8289	382.3	203.1	561.5	108.31	656.3
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## 1990.8344	382.3	203.0	561.6	108.04	656.6
## 1990.8371	382.3	202.9	561.7	107.91	656.7
## 1990.8398	382.3	202.8	561.8	107.78	656.8
## 1990.8426	382.3	202.7	561.9	107.64	657.0
## 1990.8453	382.3	202.6	562.0	107.51	657.1
## 1990.8480	382.3	202.5	562.1	107.37	657.2
## 1990.8508	382.3	202.4	562.2	107.24	657.4
## 1990.8535	382.3	202.4	562.2	107.11	657.5
## 1990.8563	382.3	202.3	562.3	106.97	657.6
## 1990.8590	382.3	202.2	562.4	106.84	657.8
## 1990.8617	382.3	202.1	562.5	106.71	657.9
## 1990.8645	382.3	202.0	562.6	106.57	658.0
## 1990.8672	382.3	201.9	562.7	106.44	658.2
## 1990.8700	382.3	201.8	562.8	106.31	658.3
## 1990.8727	382.3	201.8	562.8	106.17	658.4
## 1990.8754	382.3	201.7	562.9	106.04	658.6

## 1990.8782	382.3	201.6	563.0	105.91	658.7
## 1990.8809	382.3	201.5	563.1	105.78	658.8
## 1990.8836	382.3	201.4	563.2	105.64	659.0
## 1990.8864	382.3	201.3	563.3	105.51	659.1
## 1990.8891	382.3	201.2	563.4	105.38	659.2
## 1990.8919	382.3	201.1	563.5	105.25	659.4
## 1990.8946	382.3	201.1	563.5	105.11	659.5
## 1990.8973	382.3	201.0	563.6	104.98	659.6
## 1990.9001	382.3	200.9	563.7	104.85	659.8
## 1990.9028	382.3	200.8	563.8	104.72	659.9
## 1990.9055	382.3	200.7	563.9	104.58	660.0
## 1990.9083	382.3	200.6	564.0	104.45	660.1
## 1990.9110	382.3	200.5	564.1	104.32	660.3
## 1990.9138	382.3	200.5	564.1	104.19	660.4
## 1990.9165	382.3	200.4	564.2	104.05	660.5
## 1990.9192	382.3	200.3	564.3	103.92	660.7
## 1990.9220	382.3	200.2	564.4	103.79	660.8
## 1990.9247	382.3	200.1	564.5	103.66	660.9
## 1990.9274	382.3	200.0	564.6	103.53	661.1
## 1990.9302	382.3	199.9	564.7	103.40	661.2
## 1990.9329	382.3	199.8	564.8	103.26	661.3
## 1990.9357	382.3	199.8	564.8	103.13	661.5
## 1990.9384	382.3	199.7	564.9	103.00	661.6
## 1990.9411	382.3	199.6	565.0	102.87	661.7
## 1990.9439	382.3	199.5	565.1	102.74	661.9
## 1990.9466	382.3	199.4	565.2	102.61	662.0
## 1990.9493	382.3	199.3	565.3	102.48	662.1
## 1990.9521	382.3	199.2	565.4	102.34	662.3
## 1990.9548	382.3	199.2	565.4	102.21	662.4
## 1990.9576	382.3	199.1	565.5	102.08	662.5
## 1990.9603	382.3	199.0	565.6	101.95	662.6
## 1990.9630	382.3	198.9	565.7	101.82	662.8
## 1990.9658	382.3	198.8	565.8	101.69	662.9
## 1990.9685	382.3	198.7	565.9	101.56	663.0
## 1990.9713	382.3	198.6	566.0	101.43	663.2
## 1990.9740	382.3	198.6	566.0	101.30	663.3
## 1990.9767	382.3	198.5	566.1	101.17	663.4
## 1990.9795	382.3	198.4	566.2	101.04	663.6
## 1990.9822	382.3	198.3	566.3	100.90	663.7
## 1990.9849	382.3	198.2	566.4	100.77	663.8
## 1990.9877	382.3	198.1	566.5	100.64	664.0
## 1990.9904	382.3	198.0	566.6	100.51	664.1
## 1990.9932	382.3	198.0	566.6	100.38	664.2
## 1990.9959	382.3	197.9	566.7	100.25	664.3
## 1990.9986	382.3	197.8	566.8	100.12	664.5
## 1991.0014	382.3	197.7	566.9	99.99	664.6
## 1991.0041	382.3	197.6	567.0	99.86	664.7
## 1991.0068	382.3	197.5	567.1	99.73	664.9
## 1991.0096	382.3	197.5	567.1	99.60	665.0
## 1991.0123	382.3	197.4	567.2	99.47	665.1
## 1991.0151	382.3	197.3	567.3	99.34	665.3
## 1991.0178	382.3	197.2	567.4	99.21	665.4

```
## 1991.0205      382.3 197.1 567.5 99.08 665.5
## 1991.0233      382.3 197.0 567.6 98.95 665.6
## 1991.0260      382.3 196.9 567.7 98.82 665.8
## 1991.0287      382.3 196.9 567.7 98.69 665.9
```

```
plot(naiveFF)
```

Forecasts from Naive method



```
meanFoo <- meanf(data_clean, h=365*3);meanFoo # Average method
```

##	Point Forecast	Lo 80	Hi 80	Lo 95	Hi 95
## 1988.0335	392.6	320.3	464.9	282	503.2
## 1988.0363	392.6	320.3	464.9	282	503.2
## 1988.0390	392.6	320.3	464.9	282	503.2
## 1988.0418	392.6	320.3	464.9	282	503.2
## 1988.0445	392.6	320.3	464.9	282	503.2
## 1988.0472	392.6	320.3	464.9	282	503.2
## 1988.0500	392.6	320.3	464.9	282	503.2
## 1988.0527	392.6	320.3	464.9	282	503.2
## 1988.0554	392.6	320.3	464.9	282	503.2
## 1988.0582	392.6	320.3	464.9	282	503.2
## 1988.0609	392.6	320.3	464.9	282	503.2
## 1988.0637	392.6	320.3	464.9	282	503.2
## 1988.0664	392.6	320.3	464.9	282	503.2
## 1988.0691	392.6	320.3	464.9	282	503.2
## 1988.0719	392.6	320.3	464.9	282	503.2
## 1988.0746	392.6	320.3	464.9	282	503.2
## 1988.0773	392.6	320.3	464.9	282	503.2
## 1988.0801	392.6	320.3	464.9	282	503.2
## 1988.0828	392.6	320.3	464.9	282	503.2
## 1988.0856	392.6	320.3	464.9	282	503.2
## 1988.0883	392.6	320.3	464.9	282	503.2
## 1988.0910	392.6	320.3	464.9	282	503.2
## 1988.0938	392.6	320.3	464.9	282	503.2
## 1988.0965	392.6	320.3	464.9	282	503.2
## 1988.0992	392.6	320.3	464.9	282	503.2
## 1988.1020	392.6	320.3	464.9	282	503.2
## 1988.1047	392.6	320.3	464.9	282	503.2
## 1988.1075	392.6	320.3	464.9	282	503.2
## 1988.1102	392.6	320.3	464.9	282	503.2
## 1988.1129	392.6	320.3	464.9	282	503.2
## 1988.1157	392.6	320.3	464.9	282	503.2
## 1988.1184	392.6	320.3	464.9	282	503.2
## 1988.1211	392.6	320.3	464.9	282	503.2
## 1988.1239	392.6	320.3	464.9	282	503.2
## 1988.1266	392.6	320.3	464.9	282	503.2
## 1988.1294	392.6	320.3	464.9	282	503.2
## 1988.1321	392.6	320.3	464.9	282	503.2
## 1988.1348	392.6	320.3	464.9	282	503.2
## 1988.1376	392.6	320.3	464.9	282	503.2
## 1988.1403	392.6	320.3	464.9	282	503.2
## 1988.1431	392.6	320.3	464.9	282	503.2
## 1988.1458	392.6	320.3	464.9	282	503.2
## 1988.1485	392.6	320.3	464.9	282	503.2
## 1988.1513	392.6	320.3	464.9	282	503.2
## 1988.1540	392.6	320.3	464.9	282	503.2
## 1988.1567	392.6	320.3	464.9	282	503.2
## 1988.1595	392.6	320.3	464.9	282	503.2
## 1988.1622	392.6	320.3	464.9	282	503.2
## 1988.1650	392.6	320.3	464.9	282	503.2
## 1988.1677	392.6	320.3	464.9	282	503.2
## 1988.1704	392.6	320.3	464.9	282	503.2

## 1988.1732	392.6	320.3	464.9	282	503.2
## 1988.1759	392.6	320.3	464.9	282	503.2
## 1988.1786	392.6	320.3	464.9	282	503.2
## 1988.1814	392.6	320.3	464.9	282	503.2
## 1988.1841	392.6	320.3	464.9	282	503.2
## 1988.1869	392.6	320.3	464.9	282	503.2
## 1988.1896	392.6	320.3	464.9	282	503.2
## 1988.1923	392.6	320.3	464.9	282	503.2
## 1988.1951	392.6	320.3	464.9	282	503.2
## 1988.1978	392.6	320.3	464.9	282	503.2
## 1988.2005	392.6	320.3	464.9	282	503.2
## 1988.2033	392.6	320.3	464.9	282	503.2
## 1988.2060	392.6	320.3	464.9	282	503.2
## 1988.2088	392.6	320.3	464.9	282	503.2
## 1988.2115	392.6	320.3	464.9	282	503.2
## 1988.2142	392.6	320.3	464.9	282	503.2
## 1988.2170	392.6	320.3	464.9	282	503.2
## 1988.2197	392.6	320.3	464.9	282	503.2
## 1988.2225	392.6	320.3	464.9	282	503.2
## 1988.2252	392.6	320.3	464.9	282	503.2
## 1988.2279	392.6	320.3	464.9	282	503.2
## 1988.2307	392.6	320.3	464.9	282	503.2
## 1988.2334	392.6	320.3	464.9	282	503.2
## 1988.2361	392.6	320.3	464.9	282	503.2
## 1988.2389	392.6	320.3	464.9	282	503.2
## 1988.2416	392.6	320.3	464.9	282	503.2
## 1988.2444	392.6	320.3	464.9	282	503.2
## 1988.2471	392.6	320.3	464.9	282	503.2
## 1988.2498	392.6	320.3	464.9	282	503.2
## 1988.2526	392.6	320.3	464.9	282	503.2
## 1988.2553	392.6	320.3	464.9	282	503.2
## 1988.2580	392.6	320.3	464.9	282	503.2
## 1988.2608	392.6	320.3	464.9	282	503.2
## 1988.2635	392.6	320.3	464.9	282	503.2
## 1988.2663	392.6	320.3	464.9	282	503.2
## 1988.2690	392.6	320.3	464.9	282	503.2
## 1988.2717	392.6	320.3	464.9	282	503.2
## 1988.2745	392.6	320.3	464.9	282	503.2
## 1988.2772	392.6	320.3	464.9	282	503.2
## 1988.2799	392.6	320.3	464.9	282	503.2
## 1988.2827	392.6	320.3	464.9	282	503.2
## 1988.2854	392.6	320.3	464.9	282	503.2
## 1988.2882	392.6	320.3	464.9	282	503.2
## 1988.2909	392.6	320.3	464.9	282	503.2
## 1988.2936	392.6	320.3	464.9	282	503.2
## 1988.2964	392.6	320.3	464.9	282	503.2
## 1988.2991	392.6	320.3	464.9	282	503.2
## 1988.3018	392.6	320.3	464.9	282	503.2
## 1988.3046	392.6	320.3	464.9	282	503.2
## 1988.3073	392.6	320.3	464.9	282	503.2
## 1988.3101	392.6	320.3	464.9	282	503.2
## 1988.3128	392.6	320.3	464.9	282	503.2

## 1988.3155	392.6	320.3	464.9	282	503.2
## 1988.3183	392.6	320.3	464.9	282	503.2
## 1988.3210	392.6	320.3	464.9	282	503.2
## 1988.3238	392.6	320.3	464.9	282	503.2
## 1988.3265	392.6	320.3	464.9	282	503.2
## 1988.3292	392.6	320.3	464.9	282	503.2
## 1988.3320	392.6	320.3	464.9	282	503.2
## 1988.3347	392.6	320.3	464.9	282	503.2
## 1988.3374	392.6	320.3	464.9	282	503.2
## 1988.3402	392.6	320.3	464.9	282	503.2
## 1988.3429	392.6	320.3	464.9	282	503.2
## 1988.3457	392.6	320.3	464.9	282	503.2
## 1988.3484	392.6	320.3	464.9	282	503.2
## 1988.3511	392.6	320.3	464.9	282	503.2
## 1988.3539	392.6	320.3	464.9	282	503.2
## 1988.3566	392.6	320.3	464.9	282	503.2
## 1988.3593	392.6	320.3	464.9	282	503.2
## 1988.3621	392.6	320.3	464.9	282	503.2
## 1988.3648	392.6	320.3	464.9	282	503.2
## 1988.3676	392.6	320.3	464.9	282	503.2
## 1988.3703	392.6	320.3	464.9	282	503.2
## 1988.3730	392.6	320.3	464.9	282	503.2
## 1988.3758	392.6	320.3	464.9	282	503.2
## 1988.3785	392.6	320.3	464.9	282	503.2
## 1988.3812	392.6	320.3	464.9	282	503.2
## 1988.3840	392.6	320.3	464.9	282	503.2
## 1988.3867	392.6	320.3	464.9	282	503.2
## 1988.3895	392.6	320.3	464.9	282	503.2
## 1988.3922	392.6	320.3	464.9	282	503.2
## 1988.3949	392.6	320.3	464.9	282	503.2
## 1988.3977	392.6	320.3	464.9	282	503.2
## 1988.4004	392.6	320.3	464.9	282	503.2
## 1988.4031	392.6	320.3	464.9	282	503.2
## 1988.4059	392.6	320.3	464.9	282	503.2
## 1988.4086	392.6	320.3	464.9	282	503.2
## 1988.4114	392.6	320.3	464.9	282	503.2
## 1988.4141	392.6	320.3	464.9	282	503.2
## 1988.4168	392.6	320.3	464.9	282	503.2
## 1988.4196	392.6	320.3	464.9	282	503.2
## 1988.4223	392.6	320.3	464.9	282	503.2
## 1988.4251	392.6	320.3	464.9	282	503.2
## 1988.4278	392.6	320.3	464.9	282	503.2
## 1988.4305	392.6	320.3	464.9	282	503.2
## 1988.4333	392.6	320.3	464.9	282	503.2
## 1988.4360	392.6	320.3	464.9	282	503.2
## 1988.4387	392.6	320.3	464.9	282	503.2
## 1988.4415	392.6	320.3	464.9	282	503.2
## 1988.4442	392.6	320.3	464.9	282	503.2
## 1988.4470	392.6	320.3	464.9	282	503.2
## 1988.4497	392.6	320.3	464.9	282	503.2
## 1988.4524	392.6	320.3	464.9	282	503.2
## 1988.4552	392.6	320.3	464.9	282	503.2

## 1988.4579	392.6	320.3	464.9	282	503.2
## 1988.4606	392.6	320.3	464.9	282	503.2
## 1988.4634	392.6	320.3	464.9	282	503.2
## 1988.4661	392.6	320.3	464.9	282	503.2
## 1988.4689	392.6	320.3	464.9	282	503.2
## 1988.4716	392.6	320.3	464.9	282	503.2
## 1988.4743	392.6	320.3	464.9	282	503.2
## 1988.4771	392.6	320.3	464.9	282	503.2
## 1988.4798	392.6	320.3	464.9	282	503.2
## 1988.4825	392.6	320.3	464.9	282	503.2
## 1988.4853	392.6	320.3	464.9	282	503.2
## 1988.4880	392.6	320.3	464.9	282	503.2
## 1988.4908	392.6	320.3	464.9	282	503.2
## 1988.4935	392.6	320.3	464.9	282	503.2
## 1988.4962	392.6	320.3	464.9	282	503.2
## 1988.4990	392.6	320.3	464.9	282	503.2
## 1988.5017	392.6	320.3	464.9	282	503.2
## 1988.5044	392.6	320.3	464.9	282	503.2
## 1988.5072	392.6	320.3	464.9	282	503.2
## 1988.5099	392.6	320.3	464.9	282	503.2
## 1988.5127	392.6	320.3	464.9	282	503.2
## 1988.5154	392.6	320.3	464.9	282	503.2
## 1988.5181	392.6	320.3	464.9	282	503.2
## 1988.5209	392.6	320.3	464.9	282	503.2
## 1988.5236	392.6	320.3	464.9	282	503.2
## 1988.5264	392.6	320.3	464.9	282	503.2
## 1988.5291	392.6	320.3	464.9	282	503.2
## 1988.5318	392.6	320.3	464.9	282	503.2
## 1988.5346	392.6	320.3	464.9	282	503.2
## 1988.5373	392.6	320.3	464.9	282	503.2
## 1988.5400	392.6	320.3	464.9	282	503.2
## 1988.5428	392.6	320.3	464.9	282	503.2
## 1988.5455	392.6	320.3	464.9	282	503.2
## 1988.5483	392.6	320.3	464.9	282	503.2
## 1988.5510	392.6	320.3	464.9	282	503.2
## 1988.5537	392.6	320.3	464.9	282	503.2
## 1988.5565	392.6	320.3	464.9	282	503.2
## 1988.5592	392.6	320.3	464.9	282	503.2
## 1988.5619	392.6	320.3	464.9	282	503.2
## 1988.5647	392.6	320.3	464.9	282	503.2
## 1988.5674	392.6	320.3	464.9	282	503.2
## 1988.5702	392.6	320.3	464.9	282	503.2
## 1988.5729	392.6	320.3	464.9	282	503.2
## 1988.5756	392.6	320.3	464.9	282	503.2
## 1988.5784	392.6	320.3	464.9	282	503.2
## 1988.5811	392.6	320.3	464.9	282	503.2
## 1988.5838	392.6	320.3	464.9	282	503.2
## 1988.5866	392.6	320.3	464.9	282	503.2
## 1988.5893	392.6	320.3	464.9	282	503.2
## 1988.5921	392.6	320.3	464.9	282	503.2
## 1988.5948	392.6	320.3	464.9	282	503.2
## 1988.5975	392.6	320.3	464.9	282	503.2

## 1988.6003	392.6	320.3	464.9	282	503.2
## 1988.6030	392.6	320.3	464.9	282	503.2
## 1988.6057	392.6	320.3	464.9	282	503.2
## 1988.6085	392.6	320.3	464.9	282	503.2
## 1988.6112	392.6	320.3	464.9	282	503.2
## 1988.6140	392.6	320.3	464.9	282	503.2
## 1988.6167	392.6	320.3	464.9	282	503.2
## 1988.6194	392.6	320.3	464.9	282	503.2
## 1988.6222	392.6	320.3	464.9	282	503.2
## 1988.6249	392.6	320.3	464.9	282	503.2
## 1988.6277	392.6	320.3	464.9	282	503.2
## 1988.6304	392.6	320.3	464.9	282	503.2
## 1988.6331	392.6	320.3	464.9	282	503.2
## 1988.6359	392.6	320.3	464.9	282	503.2
## 1988.6386	392.6	320.3	464.9	282	503.2
## 1988.6413	392.6	320.3	464.9	282	503.2
## 1988.6441	392.6	320.3	464.9	282	503.2
## 1988.6468	392.6	320.3	464.9	282	503.2
## 1988.6496	392.6	320.3	464.9	282	503.2
## 1988.6523	392.6	320.3	464.9	282	503.2
## 1988.6550	392.6	320.3	464.9	282	503.2
## 1988.6578	392.6	320.3	464.9	282	503.2
## 1988.6605	392.6	320.3	464.9	282	503.2
## 1988.6632	392.6	320.3	464.9	282	503.2
## 1988.6660	392.6	320.3	464.9	282	503.2
## 1988.6687	392.6	320.3	464.9	282	503.2
## 1988.6715	392.6	320.3	464.9	282	503.2
## 1988.6742	392.6	320.3	464.9	282	503.2
## 1988.6769	392.6	320.3	464.9	282	503.2
## 1988.6797	392.6	320.3	464.9	282	503.2
## 1988.6824	392.6	320.3	464.9	282	503.2
## 1988.6851	392.6	320.3	464.9	282	503.2
## 1988.6879	392.6	320.3	464.9	282	503.2
## 1988.6906	392.6	320.3	464.9	282	503.2
## 1988.6934	392.6	320.3	464.9	282	503.2
## 1988.6961	392.6	320.3	464.9	282	503.2
## 1988.6988	392.6	320.3	464.9	282	503.2
## 1988.7016	392.6	320.3	464.9	282	503.2
## 1988.7043	392.6	320.3	464.9	282	503.2
## 1988.7070	392.6	320.3	464.9	282	503.2
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## 1990.4867	392.6	320.3	464.9	282	503.2
## 1990.4894	392.6	320.3	464.9	282	503.2
## 1990.4921	392.6	320.3	464.9	282	503.2
## 1990.4949	392.6	320.3	464.9	282	503.2
## 1990.4976	392.6	320.3	464.9	282	503.2
## 1990.5003	392.6	320.3	464.9	282	503.2
## 1990.5031	392.6	320.3	464.9	282	503.2
## 1990.5058	392.6	320.3	464.9	282	503.2
## 1990.5086	392.6	320.3	464.9	282	503.2
## 1990.5113	392.6	320.3	464.9	282	503.2
## 1990.5140	392.6	320.3	464.9	282	503.2
## 1990.5168	392.6	320.3	464.9	282	503.2
## 1990.5195	392.6	320.3	464.9	282	503.2
## 1990.5222	392.6	320.3	464.9	282	503.2
## 1990.5250	392.6	320.3	464.9	282	503.2
## 1990.5277	392.6	320.3	464.9	282	503.2
## 1990.5305	392.6	320.3	464.9	282	503.2
## 1990.5332	392.6	320.3	464.9	282	503.2
## 1990.5359	392.6	320.3	464.9	282	503.2
## 1990.5387	392.6	320.3	464.9	282	503.2
## 1990.5414	392.6	320.3	464.9	282	503.2
## 1990.5441	392.6	320.3	464.9	282	503.2
## 1990.5469	392.6	320.3	464.9	282	503.2
## 1990.5496	392.6	320.3	464.9	282	503.2
## 1990.5524	392.6	320.3	464.9	282	503.2
## 1990.5551	392.6	320.3	464.9	282	503.2
## 1990.5578	392.6	320.3	464.9	282	503.2
## 1990.5606	392.6	320.3	464.9	282	503.2
## 1990.5633	392.6	320.3	464.9	282	503.2
## 1990.5661	392.6	320.3	464.9	282	503.2
## 1990.5688	392.6	320.3	464.9	282	503.2
## 1990.5715	392.6	320.3	464.9	282	503.2
## 1990.5743	392.6	320.3	464.9	282	503.2
## 1990.5770	392.6	320.3	464.9	282	503.2
## 1990.5797	392.6	320.3	464.9	282	503.2
## 1990.5825	392.6	320.3	464.9	282	503.2
## 1990.5852	392.6	320.3	464.9	282	503.2
## 1990.5880	392.6	320.3	464.9	282	503.2
## 1990.5907	392.6	320.3	464.9	282	503.2

## 1990.5934	392.6	320.3	464.9	282	503.2
## 1990.5962	392.6	320.3	464.9	282	503.2
## 1990.5989	392.6	320.3	464.9	282	503.2
## 1990.6016	392.6	320.3	464.9	282	503.2
## 1990.6044	392.6	320.3	464.9	282	503.2
## 1990.6071	392.6	320.3	464.9	282	503.2
## 1990.6099	392.6	320.3	464.9	282	503.2
## 1990.6126	392.6	320.3	464.9	282	503.2
## 1990.6153	392.6	320.3	464.9	282	503.2
## 1990.6181	392.6	320.3	464.9	282	503.2
## 1990.6208	392.6	320.3	464.9	282	503.2
## 1990.6235	392.6	320.3	464.9	282	503.2
## 1990.6263	392.6	320.3	464.9	282	503.2
## 1990.6290	392.6	320.3	464.9	282	503.2
## 1990.6318	392.6	320.3	464.9	282	503.2
## 1990.6345	392.6	320.3	464.9	282	503.2
## 1990.6372	392.6	320.3	464.9	282	503.2
## 1990.6400	392.6	320.3	464.9	282	503.2
## 1990.6427	392.6	320.3	464.9	282	503.2
## 1990.6454	392.6	320.3	464.9	282	503.2
## 1990.6482	392.6	320.3	464.9	282	503.2
## 1990.6509	392.6	320.3	464.9	282	503.2
## 1990.6537	392.6	320.3	464.9	282	503.2
## 1990.6564	392.6	320.3	464.9	282	503.2
## 1990.6591	392.6	320.3	464.9	282	503.2
## 1990.6619	392.6	320.3	464.9	282	503.2
## 1990.6646	392.6	320.3	464.9	282	503.2
## 1990.6674	392.6	320.3	464.9	282	503.2
## 1990.6701	392.6	320.3	464.9	282	503.2
## 1990.6728	392.6	320.3	464.9	282	503.2
## 1990.6756	392.6	320.3	464.9	282	503.2
## 1990.6783	392.6	320.3	464.9	282	503.2
## 1990.6810	392.6	320.3	464.9	282	503.2
## 1990.6838	392.6	320.3	464.9	282	503.2
## 1990.6865	392.6	320.3	464.9	282	503.2
## 1990.6893	392.6	320.3	464.9	282	503.2
## 1990.6920	392.6	320.3	464.9	282	503.2
## 1990.6947	392.6	320.3	464.9	282	503.2
## 1990.6975	392.6	320.3	464.9	282	503.2
## 1990.7002	392.6	320.3	464.9	282	503.2
## 1990.7029	392.6	320.3	464.9	282	503.2
## 1990.7057	392.6	320.3	464.9	282	503.2
## 1990.7084	392.6	320.3	464.9	282	503.2
## 1990.7112	392.6	320.3	464.9	282	503.2
## 1990.7139	392.6	320.3	464.9	282	503.2
## 1990.7166	392.6	320.3	464.9	282	503.2
## 1990.7194	392.6	320.3	464.9	282	503.2
## 1990.7221	392.6	320.3	464.9	282	503.2
## 1990.7248	392.6	320.3	464.9	282	503.2
## 1990.7276	392.6	320.3	464.9	282	503.2
## 1990.7303	392.6	320.3	464.9	282	503.2
## 1990.7331	392.6	320.3	464.9	282	503.2

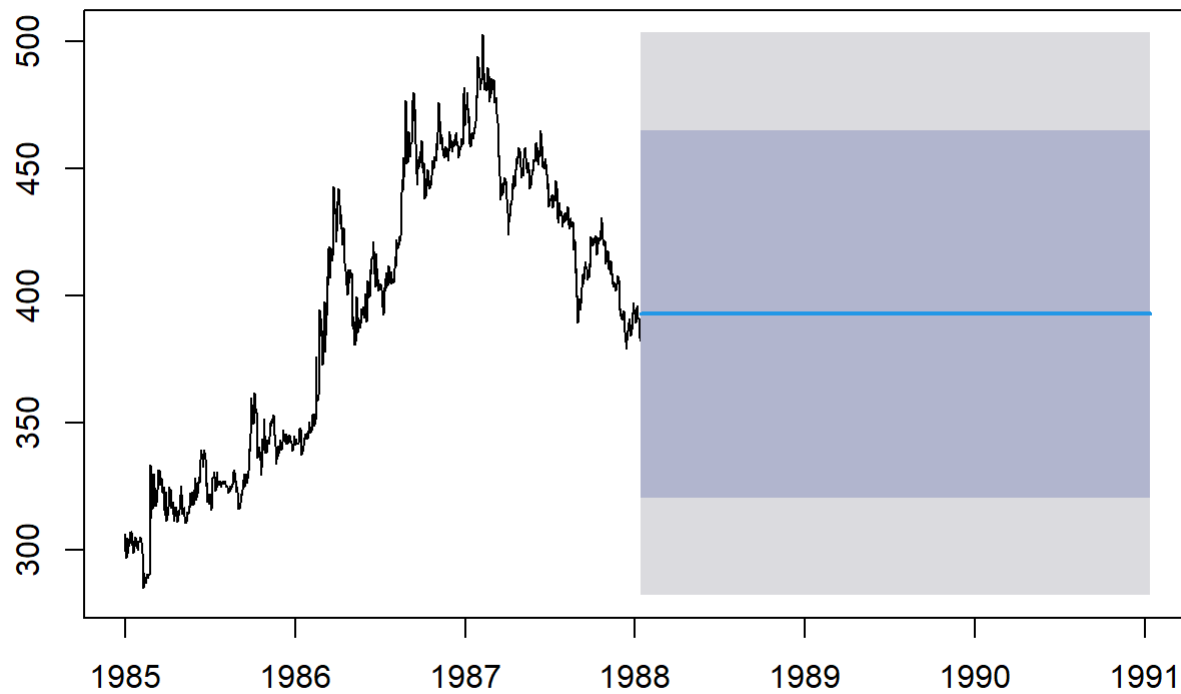
## 1990.7358	392.6	320.3	464.9	282	503.2
## 1990.7385	392.6	320.3	464.9	282	503.2
## 1990.7413	392.6	320.3	464.9	282	503.2
## 1990.7440	392.6	320.3	464.9	282	503.2
## 1990.7467	392.6	320.3	464.9	282	503.2
## 1990.7495	392.6	320.3	464.9	282	503.2
## 1990.7522	392.6	320.3	464.9	282	503.2
## 1990.7550	392.6	320.3	464.9	282	503.2
## 1990.7577	392.6	320.3	464.9	282	503.2
## 1990.7604	392.6	320.3	464.9	282	503.2
## 1990.7632	392.6	320.3	464.9	282	503.2
## 1990.7659	392.6	320.3	464.9	282	503.2
## 1990.7687	392.6	320.3	464.9	282	503.2
## 1990.7714	392.6	320.3	464.9	282	503.2
## 1990.7741	392.6	320.3	464.9	282	503.2
## 1990.7769	392.6	320.3	464.9	282	503.2
## 1990.7796	392.6	320.3	464.9	282	503.2
## 1990.7823	392.6	320.3	464.9	282	503.2
## 1990.7851	392.6	320.3	464.9	282	503.2
## 1990.7878	392.6	320.3	464.9	282	503.2
## 1990.7906	392.6	320.3	464.9	282	503.2
## 1990.7933	392.6	320.3	464.9	282	503.2
## 1990.7960	392.6	320.3	464.9	282	503.2
## 1990.7988	392.6	320.3	464.9	282	503.2
## 1990.8015	392.6	320.3	464.9	282	503.2
## 1990.8042	392.6	320.3	464.9	282	503.2
## 1990.8070	392.6	320.3	464.9	282	503.2
## 1990.8097	392.6	320.3	464.9	282	503.2
## 1990.8125	392.6	320.3	464.9	282	503.2
## 1990.8152	392.6	320.3	464.9	282	503.2
## 1990.8179	392.6	320.3	464.9	282	503.2
## 1990.8207	392.6	320.3	464.9	282	503.2
## 1990.8234	392.6	320.3	464.9	282	503.2
## 1990.8261	392.6	320.3	464.9	282	503.2
## 1990.8289	392.6	320.3	464.9	282	503.2
## 1990.8316	392.6	320.3	464.9	282	503.2
## 1990.8344	392.6	320.3	464.9	282	503.2
## 1990.8371	392.6	320.3	464.9	282	503.2
## 1990.8398	392.6	320.3	464.9	282	503.2
## 1990.8426	392.6	320.3	464.9	282	503.2
## 1990.8453	392.6	320.3	464.9	282	503.2
## 1990.8480	392.6	320.3	464.9	282	503.2
## 1990.8508	392.6	320.3	464.9	282	503.2
## 1990.8535	392.6	320.3	464.9	282	503.2
## 1990.8563	392.6	320.3	464.9	282	503.2
## 1990.8590	392.6	320.3	464.9	282	503.2
## 1990.8617	392.6	320.3	464.9	282	503.2
## 1990.8645	392.6	320.3	464.9	282	503.2
## 1990.8672	392.6	320.3	464.9	282	503.2
## 1990.8700	392.6	320.3	464.9	282	503.2
## 1990.8727	392.6	320.3	464.9	282	503.2
## 1990.8754	392.6	320.3	464.9	282	503.2

## 1990.8782	392.6	320.3	464.9	282	503.2
## 1990.8809	392.6	320.3	464.9	282	503.2
## 1990.8836	392.6	320.3	464.9	282	503.2
## 1990.8864	392.6	320.3	464.9	282	503.2
## 1990.8891	392.6	320.3	464.9	282	503.2
## 1990.8919	392.6	320.3	464.9	282	503.2
## 1990.8946	392.6	320.3	464.9	282	503.2
## 1990.8973	392.6	320.3	464.9	282	503.2
## 1990.9001	392.6	320.3	464.9	282	503.2
## 1990.9028	392.6	320.3	464.9	282	503.2
## 1990.9055	392.6	320.3	464.9	282	503.2
## 1990.9083	392.6	320.3	464.9	282	503.2
## 1990.9110	392.6	320.3	464.9	282	503.2
## 1990.9138	392.6	320.3	464.9	282	503.2
## 1990.9165	392.6	320.3	464.9	282	503.2
## 1990.9192	392.6	320.3	464.9	282	503.2
## 1990.9220	392.6	320.3	464.9	282	503.2
## 1990.9247	392.6	320.3	464.9	282	503.2
## 1990.9274	392.6	320.3	464.9	282	503.2
## 1990.9302	392.6	320.3	464.9	282	503.2
## 1990.9329	392.6	320.3	464.9	282	503.2
## 1990.9357	392.6	320.3	464.9	282	503.2
## 1990.9384	392.6	320.3	464.9	282	503.2
## 1990.9411	392.6	320.3	464.9	282	503.2
## 1990.9439	392.6	320.3	464.9	282	503.2
## 1990.9466	392.6	320.3	464.9	282	503.2
## 1990.9493	392.6	320.3	464.9	282	503.2
## 1990.9521	392.6	320.3	464.9	282	503.2
## 1990.9548	392.6	320.3	464.9	282	503.2
## 1990.9576	392.6	320.3	464.9	282	503.2
## 1990.9603	392.6	320.3	464.9	282	503.2
## 1990.9630	392.6	320.3	464.9	282	503.2
## 1990.9658	392.6	320.3	464.9	282	503.2
## 1990.9685	392.6	320.3	464.9	282	503.2
## 1990.9713	392.6	320.3	464.9	282	503.2
## 1990.9740	392.6	320.3	464.9	282	503.2
## 1990.9767	392.6	320.3	464.9	282	503.2
## 1990.9795	392.6	320.3	464.9	282	503.2
## 1990.9822	392.6	320.3	464.9	282	503.2
## 1990.9849	392.6	320.3	464.9	282	503.2
## 1990.9877	392.6	320.3	464.9	282	503.2
## 1990.9904	392.6	320.3	464.9	282	503.2
## 1990.9932	392.6	320.3	464.9	282	503.2
## 1990.9959	392.6	320.3	464.9	282	503.2
## 1990.9986	392.6	320.3	464.9	282	503.2
## 1991.0014	392.6	320.3	464.9	282	503.2
## 1991.0041	392.6	320.3	464.9	282	503.2
## 1991.0068	392.6	320.3	464.9	282	503.2
## 1991.0096	392.6	320.3	464.9	282	503.2
## 1991.0123	392.6	320.3	464.9	282	503.2
## 1991.0151	392.6	320.3	464.9	282	503.2
## 1991.0178	392.6	320.3	464.9	282	503.2


```
## 1991.0205      392.6 320.3 464.9   282 503.2
## 1991.0233      392.6 320.3 464.9   282 503.2
## 1991.0260      392.6 320.3 464.9   282 503.2
## 1991.0287      392.6 320.3 464.9   282 503.2
```

```
plot(meanFoo)
```

Forecasts from Mean



```
rwfff <- rwf(data_clean, h=365*3, drift = T) ;rwfff # Random walk with drift
```

##	Point Forecast	Lo 80	Hi 80	Lo 95	Hi 95
## 1988.0335	382.4	376.8	388.0	373.80	390.9
## 1988.0363	382.4	374.5	390.4	370.31	394.6
## 1988.0390	382.5	372.8	392.2	367.64	397.4
## 1988.0418	382.6	371.3	393.8	365.40	399.7
## 1988.0445	382.6	370.1	395.2	363.44	401.8
## 1988.0472	382.7	368.9	396.5	361.66	403.8
## 1988.0500	382.8	367.9	397.7	360.04	405.5
## 1988.0527	382.8	366.9	398.8	358.52	407.2
## 1988.0554	382.9	366.0	399.8	357.11	408.7
## 1988.0582	383.0	365.2	400.8	355.77	410.2
## 1988.0609	383.1	364.4	401.7	354.49	411.6
## 1988.0637	383.1	363.6	402.6	353.28	413.0
## 1988.0664	383.2	362.9	403.5	352.11	414.3
## 1988.0691	383.3	362.2	404.4	351.00	415.5
## 1988.0719	383.3	361.5	405.2	349.92	416.7
## 1988.0746	383.4	360.8	406.0	348.87	417.9
## 1988.0773	383.5	360.2	406.7	347.86	419.1
## 1988.0801	383.5	359.6	407.5	346.88	420.2
## 1988.0828	383.6	359.0	408.2	345.93	421.3
## 1988.0856	383.7	358.4	409.0	345.01	422.3
## 1988.0883	383.7	357.8	409.7	344.10	423.4
## 1988.0910	383.8	357.3	410.4	343.22	424.4
## 1988.0938	383.9	356.7	411.0	342.36	425.4
## 1988.0965	383.9	356.2	411.7	341.51	426.4
## 1988.0992	384.0	355.7	412.3	340.69	427.3
## 1988.1020	384.1	355.2	413.0	339.88	428.3
## 1988.1047	384.2	354.7	413.6	339.09	429.2
## 1988.1075	384.2	354.2	414.2	338.31	430.1
## 1988.1102	384.3	353.7	414.9	337.54	431.0
## 1988.1129	384.4	353.3	415.5	336.79	431.9
## 1988.1157	384.4	352.8	416.1	336.05	432.8
## 1988.1184	384.5	352.3	416.7	335.33	433.7
## 1988.1211	384.6	351.9	417.2	334.61	434.5
## 1988.1239	384.6	351.5	417.8	333.91	435.4
## 1988.1266	384.7	351.0	418.4	333.21	436.2
## 1988.1294	384.8	350.6	418.9	332.53	437.0
## 1988.1321	384.8	350.2	419.5	331.85	437.8
## 1988.1348	384.9	349.8	420.0	331.19	438.6
## 1988.1376	385.0	349.4	420.6	330.53	439.4
## 1988.1403	385.0	349.0	421.1	329.88	440.2
## 1988.1431	385.1	348.6	421.7	329.24	441.0
## 1988.1458	385.2	348.2	422.2	328.60	441.8
## 1988.1485	385.3	347.8	422.7	327.98	442.5
## 1988.1513	385.3	347.4	423.2	327.36	443.3
## 1988.1540	385.4	347.0	423.7	326.75	444.0
## 1988.1567	385.5	346.7	424.2	326.14	444.8
## 1988.1595	385.5	346.3	424.8	325.54	445.5
## 1988.1622	385.6	345.9	425.3	324.95	446.2
## 1988.1650	385.7	345.6	425.7	324.37	447.0
## 1988.1677	385.7	345.2	426.2	323.79	447.7
## 1988.1704	385.8	344.9	426.7	323.21	448.4

## 1988.1732	385.9	344.5	427.2	322.64	449.1
## 1988.1759	385.9	344.2	427.7	322.08	449.8
## 1988.1786	386.0	343.8	428.2	321.52	450.5
## 1988.1814	386.1	343.5	428.7	320.96	451.2
## 1988.1841	386.1	343.2	429.1	320.42	451.9
## 1988.1869	386.2	342.8	429.6	319.87	452.6
## 1988.1896	386.3	342.5	430.1	319.33	453.2
## 1988.1923	386.4	342.2	430.5	318.80	453.9
## 1988.1951	386.4	341.9	431.0	318.27	454.6
## 1988.1978	386.5	341.5	431.4	317.74	455.2
## 1988.2005	386.6	341.2	431.9	317.22	455.9
## 1988.2033	386.6	340.9	432.4	316.70	456.6
## 1988.2060	386.7	340.6	432.8	316.19	457.2
## 1988.2088	386.8	340.3	433.2	315.68	457.9
## 1988.2115	386.8	340.0	433.7	315.17	458.5
## 1988.2142	386.9	339.7	434.1	314.67	459.1
## 1988.2170	387.0	339.4	434.6	314.17	459.8
## 1988.2197	387.0	339.1	435.0	313.67	460.4
## 1988.2225	387.1	338.8	435.5	313.18	461.0
## 1988.2252	387.2	338.5	435.9	312.69	461.7
## 1988.2279	387.2	338.2	436.3	312.20	462.3
## 1988.2307	387.3	337.9	436.7	311.72	462.9
## 1988.2334	387.4	337.6	437.2	311.24	463.5
## 1988.2361	387.5	337.3	437.6	310.76	464.1
## 1988.2389	387.5	337.0	438.0	310.29	464.8
## 1988.2416	387.6	336.7	438.4	309.82	465.4
## 1988.2444	387.7	336.5	438.9	309.35	466.0
## 1988.2471	387.7	336.2	439.3	308.89	466.6
## 1988.2498	387.8	335.9	439.7	308.42	467.2
## 1988.2526	387.9	335.6	440.1	307.97	467.8
## 1988.2553	387.9	335.3	440.5	307.51	468.4
## 1988.2580	388.0	335.1	440.9	307.05	469.0
## 1988.2608	388.1	334.8	441.3	306.60	469.5
## 1988.2635	388.1	334.5	441.7	306.15	470.1
## 1988.2663	388.2	334.3	442.2	305.71	470.7
## 1988.2690	388.3	334.0	442.6	305.26	471.3
## 1988.2717	388.3	333.7	443.0	304.82	471.9
## 1988.2745	388.4	333.5	443.4	304.38	472.4
## 1988.2772	388.5	333.2	443.8	303.94	473.0
## 1988.2799	388.6	332.9	444.2	303.51	473.6
## 1988.2827	388.6	332.7	444.6	303.07	474.2
## 1988.2854	388.7	332.4	445.0	302.64	474.7
## 1988.2882	388.8	332.2	445.3	302.21	475.3
## 1988.2909	388.8	331.9	445.7	301.79	475.9
## 1988.2936	388.9	331.7	446.1	301.36	476.4
## 1988.2964	389.0	331.4	446.5	300.94	477.0
## 1988.2991	389.0	331.2	446.9	300.52	477.5
## 1988.3018	389.1	330.9	447.3	300.10	478.1
## 1988.3046	389.2	330.7	447.7	299.69	478.7
## 1988.3073	389.2	330.4	448.1	299.27	479.2
## 1988.3101	389.3	330.2	448.4	298.86	479.8
## 1988.3128	389.4	329.9	448.8	298.45	480.3

## 1988.3155	389.4	329.7	449.2	298.04	480.9
## 1988.3183	389.5	329.4	449.6	297.63	481.4
## 1988.3210	389.6	329.2	450.0	297.22	481.9
## 1988.3238	389.7	329.0	450.4	296.82	482.5
## 1988.3265	389.7	328.7	450.7	296.42	483.0
## 1988.3292	389.8	328.5	451.1	296.02	483.6
## 1988.3320	389.9	328.2	451.5	295.62	484.1
## 1988.3347	389.9	328.0	451.9	295.22	484.6
## 1988.3374	390.0	327.8	452.2	294.82	485.2
## 1988.3402	390.1	327.5	452.6	294.43	485.7
## 1988.3429	390.1	327.3	453.0	294.04	486.2
## 1988.3457	390.2	327.1	453.3	293.64	486.8
## 1988.3484	390.3	326.8	453.7	293.25	487.3
## 1988.3511	390.3	326.6	454.1	292.87	487.8
## 1988.3539	390.4	326.4	454.4	292.48	488.3
## 1988.3566	390.5	326.1	454.8	292.09	488.9
## 1988.3593	390.5	325.9	455.2	291.71	489.4
## 1988.3621	390.6	325.7	455.5	291.33	489.9
## 1988.3648	390.7	325.5	455.9	290.94	490.4
## 1988.3676	390.8	325.2	456.3	290.56	490.9
## 1988.3703	390.8	325.0	456.6	290.19	491.5
## 1988.3730	390.9	324.8	457.0	289.81	492.0
## 1988.3758	391.0	324.6	457.3	289.43	492.5
## 1988.3785	391.0	324.4	457.7	289.06	493.0
## 1988.3812	391.1	324.1	458.1	288.68	493.5
## 1988.3840	391.2	323.9	458.4	288.31	494.0
## 1988.3867	391.2	323.7	458.8	287.94	494.5
## 1988.3895	391.3	323.5	459.1	287.57	495.0
## 1988.3922	391.4	323.3	459.5	287.20	495.5
## 1988.3949	391.4	323.0	459.8	286.84	496.0
## 1988.3977	391.5	322.8	460.2	286.47	496.5
## 1988.4004	391.6	322.6	460.5	286.10	497.0
## 1988.4031	391.6	322.4	460.9	285.74	497.5
## 1988.4059	391.7	322.2	461.2	285.38	498.0
## 1988.4086	391.8	322.0	461.6	285.02	498.5
## 1988.4114	391.8	321.8	461.9	284.66	499.0
## 1988.4141	391.9	321.5	462.3	284.30	499.5
## 1988.4168	392.0	321.3	462.6	283.94	500.0
## 1988.4196	392.1	321.1	463.0	283.58	500.5
## 1988.4223	392.1	320.9	463.3	283.22	501.0
## 1988.4251	392.2	320.7	463.7	282.87	501.5
## 1988.4278	392.3	320.5	464.0	282.52	502.0
## 1988.4305	392.3	320.3	464.4	282.16	502.5
## 1988.4333	392.4	320.1	464.7	281.81	503.0
## 1988.4360	392.5	319.9	465.1	281.46	503.5
## 1988.4387	392.5	319.7	465.4	281.11	504.0
## 1988.4415	392.6	319.5	465.7	280.76	504.4
## 1988.4442	392.7	319.3	466.1	280.41	504.9
## 1988.4470	392.7	319.1	466.4	280.06	505.4
## 1988.4497	392.8	318.9	466.8	279.72	505.9
## 1988.4524	392.9	318.7	467.1	279.37	506.4
## 1988.4552	392.9	318.5	467.4	279.03	506.9

## 1988.4579	393.0	318.3	467.8	278.69	507.3
## 1988.4606	393.1	318.1	468.1	278.34	507.8
## 1988.4634	393.2	317.9	468.4	278.00	508.3
## 1988.4661	393.2	317.7	468.8	277.66	508.8
## 1988.4689	393.3	317.5	469.1	277.32	509.3
## 1988.4716	393.4	317.3	469.5	276.98	509.7
## 1988.4743	393.4	317.1	469.8	276.64	510.2
## 1988.4771	393.5	316.9	470.1	276.31	510.7
## 1988.4798	393.6	316.7	470.5	275.97	511.2
## 1988.4825	393.6	316.5	470.8	275.63	511.6
## 1988.4853	393.7	316.3	471.1	275.30	512.1
## 1988.4880	393.8	316.1	471.5	274.96	512.6
## 1988.4908	393.8	315.9	471.8	274.63	513.1
## 1988.4935	393.9	315.7	472.1	274.30	513.5
## 1988.4962	394.0	315.5	472.5	273.97	514.0
## 1988.4990	394.0	315.3	472.8	273.64	514.5
## 1988.5017	394.1	315.1	473.1	273.31	514.9
## 1988.5044	394.2	314.9	473.4	272.98	515.4
## 1988.5072	394.3	314.7	473.8	272.65	515.9
## 1988.5099	394.3	314.5	474.1	272.32	516.3
## 1988.5127	394.4	314.4	474.4	271.99	516.8
## 1988.5154	394.5	314.2	474.8	271.67	517.3
## 1988.5181	394.5	314.0	475.1	271.34	517.7
## 1988.5209	394.6	313.8	475.4	271.02	518.2
## 1988.5236	394.7	313.6	475.7	270.69	518.6
## 1988.5264	394.7	313.4	476.1	270.37	519.1
## 1988.5291	394.8	313.2	476.4	270.04	519.6
## 1988.5318	394.9	313.0	476.7	269.72	520.0
## 1988.5346	394.9	312.9	477.0	269.40	520.5
## 1988.5373	395.0	312.7	477.3	269.08	520.9
## 1988.5400	395.1	312.5	477.7	268.76	521.4
## 1988.5428	395.1	312.3	478.0	268.44	521.9
## 1988.5455	395.2	312.1	478.3	268.12	522.3
## 1988.5483	395.3	311.9	478.6	267.80	522.8
## 1988.5510	395.4	311.7	479.0	267.49	523.2
## 1988.5537	395.4	311.6	479.3	267.17	523.7
## 1988.5565	395.5	311.4	479.6	266.85	524.1
## 1988.5592	395.6	311.2	479.9	266.54	524.6
## 1988.5619	395.6	311.0	480.2	266.22	525.0
## 1988.5647	395.7	310.8	480.6	265.91	525.5
## 1988.5674	395.8	310.7	480.9	265.60	525.9
## 1988.5702	395.8	310.5	481.2	265.28	526.4
## 1988.5729	395.9	310.3	481.5	264.97	526.8
## 1988.5756	396.0	310.1	481.8	264.66	527.3
## 1988.5784	396.0	309.9	482.1	264.35	527.7
## 1988.5811	396.1	309.8	482.5	264.04	528.2
## 1988.5838	396.2	309.6	482.8	263.73	528.6
## 1988.5866	396.2	309.4	483.1	263.42	529.1
## 1988.5893	396.3	309.2	483.4	263.11	529.5
## 1988.5921	396.4	309.0	483.7	262.80	530.0
## 1988.5948	396.5	308.9	484.0	262.49	530.4
## 1988.5975	396.5	308.7	484.4	262.18	530.9

## 1988.6003	396.6	308.5	484.7	261.88	531.3
## 1988.6030	396.7	308.3	485.0	261.57	531.7
## 1988.6057	396.7	308.2	485.3	261.27	532.2
## 1988.6085	396.8	308.0	485.6	260.96	532.6
## 1988.6112	396.9	307.8	485.9	260.66	533.1
## 1988.6140	396.9	307.6	486.2	260.35	533.5
## 1988.6167	397.0	307.5	486.6	260.05	534.0
## 1988.6194	397.1	307.3	486.9	259.75	534.4
## 1988.6222	397.1	307.1	487.2	259.44	534.8
## 1988.6249	397.2	306.9	487.5	259.14	535.3
## 1988.6277	397.3	306.8	487.8	258.84	535.7
## 1988.6304	397.3	306.6	488.1	258.54	536.2
## 1988.6331	397.4	306.4	488.4	258.24	536.6
## 1988.6359	397.5	306.2	488.7	257.94	537.0
## 1988.6386	397.6	306.1	489.0	257.64	537.5
## 1988.6413	397.6	305.9	489.3	257.34	537.9
## 1988.6441	397.7	305.7	489.7	257.04	538.3
## 1988.6468	397.8	305.6	490.0	256.75	538.8
## 1988.6496	397.8	305.4	490.3	256.45	539.2
## 1988.6523	397.9	305.2	490.6	256.15	539.6
## 1988.6550	398.0	305.0	490.9	255.85	540.1
## 1988.6578	398.0	304.9	491.2	255.56	540.5
## 1988.6605	398.1	304.7	491.5	255.26	540.9
## 1988.6632	398.2	304.5	491.8	254.97	541.4
## 1988.6660	398.2	304.4	492.1	254.67	541.8
## 1988.6687	398.3	304.2	492.4	254.38	542.2
## 1988.6715	398.4	304.0	492.7	254.09	542.7
## 1988.6742	398.4	303.9	493.0	253.79	543.1
## 1988.6769	398.5	303.7	493.3	253.50	543.5
## 1988.6797	398.6	303.5	493.6	253.21	544.0
## 1988.6824	398.7	303.4	493.9	252.92	544.4
## 1988.6851	398.7	303.2	494.2	252.62	544.8
## 1988.6879	398.8	303.0	494.5	252.33	545.2
## 1988.6906	398.9	302.9	494.9	252.04	545.7
## 1988.6934	398.9	302.7	495.2	251.75	546.1
## 1988.6961	399.0	302.5	495.5	251.46	546.5
## 1988.6988	399.1	302.4	495.8	251.17	547.0
## 1988.7016	399.1	302.2	496.1	250.88	547.4
## 1988.7043	399.2	302.0	496.4	250.60	547.8
## 1988.7070	399.3	301.9	496.7	250.31	548.2
## 1988.7098	399.3	301.7	497.0	250.02	548.7
## 1988.7125	399.4	301.5	497.3	249.73	549.1
## 1988.7153	399.5	301.4	497.6	249.45	549.5
## 1988.7180	399.5	301.2	497.9	249.16	549.9
## 1988.7207	399.6	301.0	498.2	248.87	550.4
## 1988.7235	399.7	300.9	498.5	248.59	550.8
## 1988.7262	399.7	300.7	498.8	248.30	551.2
## 1988.7290	399.8	300.6	499.1	248.02	551.6
## 1988.7317	399.9	300.4	499.4	247.73	552.0
## 1988.7344	400.0	300.2	499.7	247.45	552.5
## 1988.7372	400.0	300.1	500.0	247.16	552.9
## 1988.7399	400.1	299.9	500.3	246.88	553.3

## 1988.7426	400.2	299.8	500.6	246.60	553.7
## 1988.7454	400.2	299.6	500.9	246.32	554.1
## 1988.7481	400.3	299.4	501.2	246.03	554.6
## 1988.7509	400.4	299.3	501.5	245.75	555.0
## 1988.7536	400.4	299.1	501.8	245.47	555.4
## 1988.7563	400.5	298.9	502.1	245.19	555.8
## 1988.7591	400.6	298.8	502.4	244.91	556.2
## 1988.7618	400.6	298.6	502.7	244.63	556.7
## 1988.7645	400.7	298.5	503.0	244.35	557.1
## 1988.7673	400.8	298.3	503.2	244.07	557.5
## 1988.7700	400.8	298.2	503.5	243.79	557.9
## 1988.7728	400.9	298.0	503.8	243.51	558.3
## 1988.7755	401.0	297.8	504.1	243.23	558.7
## 1988.7782	401.1	297.7	504.4	242.95	559.2
## 1988.7810	401.1	297.5	504.7	242.67	559.6
## 1988.7837	401.2	297.4	505.0	242.40	560.0
## 1988.7864	401.3	297.2	505.3	242.12	560.4
## 1988.7892	401.3	297.0	505.6	241.84	560.8
## 1988.7919	401.4	296.9	505.9	241.57	561.2
## 1988.7947	401.5	296.7	506.2	241.29	561.6
## 1988.7974	401.5	296.6	506.5	241.01	562.1
## 1988.8001	401.6	296.4	506.8	240.74	562.5
## 1988.8029	401.7	296.3	507.1	240.46	562.9
## 1988.8056	401.7	296.1	507.4	240.19	563.3
## 1988.8084	401.8	296.0	507.7	239.91	563.7
## 1988.8111	401.9	295.8	508.0	239.64	564.1
## 1988.8138	401.9	295.6	508.3	239.36	564.5
## 1988.8166	402.0	295.5	508.5	239.09	564.9
## 1988.8193	402.1	295.3	508.8	238.82	565.4
## 1988.8220	402.2	295.2	509.1	238.54	565.8
## 1988.8248	402.2	295.0	509.4	238.27	566.2
## 1988.8275	402.3	294.9	509.7	238.00	566.6
## 1988.8303	402.4	294.7	510.0	237.73	567.0
## 1988.8330	402.4	294.6	510.3	237.45	567.4
## 1988.8357	402.5	294.4	510.6	237.18	567.8
## 1988.8385	402.6	294.2	510.9	236.91	568.2
## 1988.8412	402.6	294.1	511.2	236.64	568.6
## 1988.8439	402.7	293.9	511.5	236.37	569.0
## 1988.8467	402.8	293.8	511.8	236.10	569.4
## 1988.8494	402.8	293.6	512.0	235.83	569.9
## 1988.8522	402.9	293.5	512.3	235.56	570.3
## 1988.8549	403.0	293.3	512.6	235.29	570.7
## 1988.8576	403.0	293.2	512.9	235.02	571.1
## 1988.8604	403.1	293.0	513.2	234.75	571.5
## 1988.8631	403.2	292.9	513.5	234.48	571.9
## 1988.8658	403.3	292.7	513.8	234.21	572.3
## 1988.8686	403.3	292.6	514.1	233.95	572.7
## 1988.8713	403.4	292.4	514.4	233.68	573.1
## 1988.8741	403.5	292.3	514.6	233.41	573.5
## 1988.8768	403.5	292.1	514.9	233.14	573.9
## 1988.8795	403.6	292.0	515.2	232.88	574.3
## 1988.8823	403.7	291.8	515.5	232.61	574.7

## 1988.8850	403.7	291.7	515.8	232.34	575.1
## 1988.8877	403.8	291.5	516.1	232.08	575.5
## 1988.8905	403.9	291.4	516.4	231.81	575.9
## 1988.8932	403.9	291.2	516.7	231.54	576.3
## 1988.8960	404.0	291.1	517.0	231.28	576.7
## 1988.8987	404.1	290.9	517.2	231.01	577.1
## 1988.9014	404.1	290.8	517.5	230.75	577.5
## 1988.9042	404.2	290.6	517.8	230.48	577.9
## 1988.9069	404.3	290.5	518.1	230.22	578.3
## 1988.9097	404.4	290.3	518.4	229.95	578.8
## 1988.9124	404.4	290.2	518.7	229.69	579.2
## 1988.9151	404.5	290.0	519.0	229.43	579.6
## 1988.9179	404.6	289.9	519.2	229.16	580.0
## 1988.9206	404.6	289.7	519.5	228.90	580.4
## 1988.9233	404.7	289.6	519.8	228.64	580.8
## 1988.9261	404.8	289.4	520.1	228.38	581.2
## 1988.9288	404.8	289.3	520.4	228.11	581.6
## 1988.9316	404.9	289.1	520.7	227.85	582.0
## 1988.9343	405.0	289.0	521.0	227.59	582.4
## 1988.9370	405.0	288.8	521.2	227.33	582.8
## 1988.9398	405.1	288.7	521.5	227.07	583.2
## 1988.9425	405.2	288.5	521.8	226.80	583.5
## 1988.9452	405.2	288.4	522.1	226.54	583.9
## 1988.9480	405.3	288.3	522.4	226.28	584.3
## 1988.9507	405.4	288.1	522.7	226.02	584.7
## 1988.9535	405.5	288.0	522.9	225.76	585.1
## 1988.9562	405.5	287.8	523.2	225.50	585.5
## 1988.9589	405.6	287.7	523.5	225.24	585.9
## 1988.9617	405.7	287.5	523.8	224.98	586.3
## 1988.9644	405.7	287.4	524.1	224.72	586.7
## 1988.9671	405.8	287.2	524.4	224.46	587.1
## 1988.9699	405.9	287.1	524.6	224.20	587.5
## 1988.9726	405.9	286.9	524.9	223.95	587.9
## 1988.9754	406.0	286.8	525.2	223.69	588.3
## 1988.9781	406.1	286.6	525.5	223.43	588.7
## 1988.9808	406.1	286.5	525.8	223.17	589.1
## 1988.9836	406.2	286.4	526.1	222.91	589.5
## 1988.9863	406.3	286.2	526.3	222.66	589.9
## 1988.9890	406.3	286.1	526.6	222.40	590.3
## 1988.9918	406.4	285.9	526.9	222.14	590.7
## 1988.9945	406.5	285.8	527.2	221.88	591.1
## 1988.9973	406.6	285.6	527.5	221.63	591.5
## 1989.0000	406.6	285.5	527.7	221.37	591.9
## 1989.0027	406.7	285.3	528.0	221.11	592.3
## 1989.0055	406.8	285.2	528.3	220.86	592.7
## 1989.0082	406.8	285.1	528.6	220.60	593.0
## 1989.0110	406.9	284.9	528.9	220.35	593.4
## 1989.0137	407.0	284.8	529.2	220.09	593.8
## 1989.0164	407.0	284.6	529.4	219.84	594.2
## 1989.0192	407.1	284.5	529.7	219.58	594.6
## 1989.0219	407.2	284.3	530.0	219.33	595.0
## 1989.0246	407.2	284.2	530.3	219.07	595.4

## 1989.0274	407.3	284.1	530.6	218.82	595.8
## 1989.0301	407.4	283.9	530.8	218.56	596.2
## 1989.0329	407.4	283.8	531.1	218.31	596.6
## 1989.0356	407.5	283.6	531.4	218.06	597.0
## 1989.0383	407.6	283.5	531.7	217.80	597.4
## 1989.0411	407.7	283.3	532.0	217.55	597.8
## 1989.0438	407.7	283.2	532.2	217.30	598.1
## 1989.0465	407.8	283.1	532.5	217.04	598.5
## 1989.0493	407.9	282.9	532.8	216.79	598.9
## 1989.0520	407.9	282.8	533.1	216.54	599.3
## 1989.0548	408.0	282.6	533.3	216.28	599.7
## 1989.0575	408.1	282.5	533.6	216.03	600.1
## 1989.0602	408.1	282.4	533.9	215.78	600.5
## 1989.0630	408.2	282.2	534.2	215.53	600.9
## 1989.0657	408.3	282.1	534.5	215.28	601.3
## 1989.0684	408.3	281.9	534.7	215.02	601.6
## 1989.0712	408.4	281.8	535.0	214.77	602.0
## 1989.0739	408.5	281.7	535.3	214.52	602.4
## 1989.0767	408.5	281.5	535.6	214.27	602.8
## 1989.0794	408.6	281.4	535.8	214.02	603.2
## 1989.0821	408.7	281.2	536.1	213.77	603.6
## 1989.0849	408.7	281.1	536.4	213.52	604.0
## 1989.0876	408.8	281.0	536.7	213.27	604.4
## 1989.0903	408.9	280.8	537.0	213.02	604.8
## 1989.0931	409.0	280.7	537.2	212.77	605.1
## 1989.0958	409.0	280.5	537.5	212.52	605.5
## 1989.0986	409.1	280.4	537.8	212.27	605.9
## 1989.1013	409.2	280.3	538.1	212.02	606.3
## 1989.1040	409.2	280.1	538.3	211.77	606.7
## 1989.1068	409.3	280.0	538.6	211.52	607.1
## 1989.1095	409.4	279.8	538.9	211.27	607.5
## 1989.1123	409.4	279.7	539.2	211.03	607.8
## 1989.1150	409.5	279.6	539.4	210.78	608.2
## 1989.1177	409.6	279.4	539.7	210.53	608.6
## 1989.1205	409.6	279.3	540.0	210.28	609.0
## 1989.1232	409.7	279.1	540.3	210.03	609.4
## 1989.1259	409.8	279.0	540.5	209.78	609.8
## 1989.1287	409.8	278.9	540.8	209.54	610.2
## 1989.1314	409.9	278.7	541.1	209.29	610.5
## 1989.1342	410.0	278.6	541.4	209.04	610.9
## 1989.1369	410.1	278.5	541.7	208.80	611.3
## 1989.1396	410.1	278.3	541.9	208.55	611.7
## 1989.1424	410.2	278.2	542.2	208.30	612.1
## 1989.1451	410.3	278.0	542.5	208.06	612.5
## 1989.1478	410.3	277.9	542.8	207.81	612.8
## 1989.1506	410.4	277.8	543.0	207.56	613.2
## 1989.1533	410.5	277.6	543.3	207.32	613.6
## 1989.1561	410.5	277.5	543.6	207.07	614.0
## 1989.1588	410.6	277.4	543.8	206.82	614.4
## 1989.1615	410.7	277.2	544.1	206.58	614.8
## 1989.1643	410.7	277.1	544.4	206.33	615.1
## 1989.1670	410.8	276.9	544.7	206.09	615.5

## 1989.1697	410.9	276.8	544.9	205.84	615.9
## 1989.1725	410.9	276.7	545.2	205.60	616.3
## 1989.1752	411.0	276.5	545.5	205.35	616.7
## 1989.1780	411.1	276.4	545.8	205.11	617.1
## 1989.1807	411.2	276.3	546.0	204.86	617.4
## 1989.1834	411.2	276.1	546.3	204.62	617.8
## 1989.1862	411.3	276.0	546.6	204.38	618.2
## 1989.1889	411.4	275.9	546.9	204.13	618.6
## 1989.1916	411.4	275.7	547.1	203.89	619.0
## 1989.1944	411.5	275.6	547.4	203.64	619.4
## 1989.1971	411.6	275.5	547.7	203.40	619.7
## 1989.1999	411.6	275.3	548.0	203.16	620.1
## 1989.2026	411.7	275.2	548.2	202.91	620.5
## 1989.2053	411.8	275.0	548.5	202.67	620.9
## 1989.2081	411.8	274.9	548.8	202.43	621.3
## 1989.2108	411.9	274.8	549.0	202.18	621.6
## 1989.2136	412.0	274.6	549.3	201.94	622.0
## 1989.2163	412.0	274.5	549.6	201.70	622.4
## 1989.2190	412.1	274.4	549.9	201.46	622.8
## 1989.2218	412.2	274.2	550.1	201.21	623.2
## 1989.2245	412.3	274.1	550.4	200.97	623.5
## 1989.2272	412.3	274.0	550.7	200.73	623.9
## 1989.2300	412.4	273.8	550.9	200.49	624.3
## 1989.2327	412.5	273.7	551.2	200.25	624.7
## 1989.2355	412.5	273.6	551.5	200.00	625.1
## 1989.2382	412.6	273.4	551.8	199.76	625.4
## 1989.2409	412.7	273.3	552.0	199.52	625.8
## 1989.2437	412.7	273.2	552.3	199.28	626.2
## 1989.2464	412.8	273.0	552.6	199.04	626.6
## 1989.2491	412.9	272.9	552.8	198.80	626.9
## 1989.2519	412.9	272.8	553.1	198.56	627.3
## 1989.2546	413.0	272.6	553.4	198.32	627.7
## 1989.2574	413.1	272.5	553.7	198.08	628.1
## 1989.2601	413.1	272.4	553.9	197.84	628.5
## 1989.2628	413.2	272.2	554.2	197.60	628.8
## 1989.2656	413.3	272.1	554.5	197.36	629.2
## 1989.2683	413.4	272.0	554.7	197.12	629.6
## 1989.2710	413.4	271.8	555.0	196.88	630.0
## 1989.2738	413.5	271.7	555.3	196.64	630.3
## 1989.2765	413.6	271.6	555.6	196.40	630.7
## 1989.2793	413.6	271.4	555.8	196.16	631.1
## 1989.2820	413.7	271.3	556.1	195.92	631.5
## 1989.2847	413.8	271.2	556.4	195.68	631.8
## 1989.2875	413.8	271.0	556.6	195.44	632.2
## 1989.2902	413.9	270.9	556.9	195.20	632.6
## 1989.2930	414.0	270.8	557.2	194.96	633.0
## 1989.2957	414.0	270.6	557.4	194.72	633.4
## 1989.2984	414.1	270.5	557.7	194.48	633.7
## 1989.3012	414.2	270.4	558.0	194.25	634.1
## 1989.3039	414.2	270.2	558.3	194.01	634.5
## 1989.3066	414.3	270.1	558.5	193.77	634.9
## 1989.3094	414.4	270.0	558.8	193.53	635.2

## 1989.3121	414.5	269.8	559.1	193.29	635.6
## 1989.3149	414.5	269.7	559.3	193.06	636.0
## 1989.3176	414.6	269.6	559.6	192.82	636.4
## 1989.3203	414.7	269.4	559.9	192.58	636.7
## 1989.3231	414.7	269.3	560.1	192.34	637.1
## 1989.3258	414.8	269.2	560.4	192.11	637.5
## 1989.3285	414.9	269.1	560.7	191.87	637.9
## 1989.3313	414.9	268.9	560.9	191.63	638.2
## 1989.3340	415.0	268.8	561.2	191.40	638.6
## 1989.3368	415.1	268.7	561.5	191.16	639.0
## 1989.3395	415.1	268.5	561.7	190.92	639.4
## 1989.3422	415.2	268.4	562.0	190.69	639.7
## 1989.3450	415.3	268.3	562.3	190.45	640.1
## 1989.3477	415.3	268.1	562.6	190.21	640.5
## 1989.3504	415.4	268.0	562.8	189.98	640.8
## 1989.3532	415.5	267.9	563.1	189.74	641.2
## 1989.3559	415.6	267.7	563.4	189.50	641.6
## 1989.3587	415.6	267.6	563.6	189.27	642.0
## 1989.3614	415.7	267.5	563.9	189.03	642.3
## 1989.3641	415.8	267.4	564.2	188.80	642.7
## 1989.3669	415.8	267.2	564.4	188.56	643.1
## 1989.3696	415.9	267.1	564.7	188.33	643.5
## 1989.3723	416.0	267.0	565.0	188.09	643.8
## 1989.3751	416.0	266.8	565.2	187.86	644.2
## 1989.3778	416.1	266.7	565.5	187.62	644.6
## 1989.3806	416.2	266.6	565.8	187.39	645.0
## 1989.3833	416.2	266.4	566.0	187.15	645.3
## 1989.3860	416.3	266.3	566.3	186.92	645.7
## 1989.3888	416.4	266.2	566.6	186.68	646.1
## 1989.3915	416.4	266.1	566.8	186.45	646.4
## 1989.3943	416.5	265.9	567.1	186.21	646.8
## 1989.3970	416.6	265.8	567.4	185.98	647.2
## 1989.3997	416.6	265.7	567.6	185.74	647.6
## 1989.4025	416.7	265.5	567.9	185.51	647.9
## 1989.4052	416.8	265.4	568.2	185.28	648.3
## 1989.4079	416.9	265.3	568.4	185.04	648.7
## 1989.4107	416.9	265.2	568.7	184.81	649.0
## 1989.4134	417.0	265.0	569.0	184.58	649.4
## 1989.4162	417.1	264.9	569.2	184.34	649.8
## 1989.4189	417.1	264.8	569.5	184.11	650.2
## 1989.4216	417.2	264.6	569.8	183.88	650.5
## 1989.4244	417.3	264.5	570.0	183.64	650.9
## 1989.4271	417.3	264.4	570.3	183.41	651.3
## 1989.4298	417.4	264.3	570.6	183.18	651.6
## 1989.4326	417.5	264.1	570.8	182.94	652.0
## 1989.4353	417.5	264.0	571.1	182.71	652.4
## 1989.4381	417.6	263.9	571.4	182.48	652.7
## 1989.4408	417.7	263.7	571.6	182.25	653.1
## 1989.4435	417.7	263.6	571.9	182.01	653.5
## 1989.4463	417.8	263.5	572.2	181.78	653.9
## 1989.4490	417.9	263.4	572.4	181.55	654.2
## 1989.4517	418.0	263.2	572.7	181.32	654.6

## 1989.4545	418.0	263.1	573.0	181.08	655.0
## 1989.4572	418.1	263.0	573.2	180.85	655.3
## 1989.4600	418.2	262.8	573.5	180.62	655.7
## 1989.4627	418.2	262.7	573.7	180.39	656.1
## 1989.4654	418.3	262.6	574.0	180.16	656.4
## 1989.4682	418.4	262.5	574.3	179.93	656.8
## 1989.4709	418.4	262.3	574.5	179.69	657.2
## 1989.4736	418.5	262.2	574.8	179.46	657.5
## 1989.4764	418.6	262.1	575.1	179.23	657.9
## 1989.4791	418.6	261.9	575.3	179.00	658.3
## 1989.4819	418.7	261.8	575.6	178.77	658.7
## 1989.4846	418.8	261.7	575.9	178.54	659.0
## 1989.4873	418.8	261.6	576.1	178.31	659.4
## 1989.4901	418.9	261.4	576.4	178.08	659.8
## 1989.4928	419.0	261.3	576.7	177.85	660.1
## 1989.4956	419.1	261.2	576.9	177.62	660.5
## 1989.4983	419.1	261.1	577.2	177.38	660.9
## 1989.5010	419.2	260.9	577.5	177.15	661.2
## 1989.5038	419.3	260.8	577.7	176.92	661.6
## 1989.5065	419.3	260.7	578.0	176.69	662.0
## 1989.5092	419.4	260.6	578.2	176.46	662.3
## 1989.5120	419.5	260.4	578.5	176.23	662.7
## 1989.5147	419.5	260.3	578.8	176.00	663.1
## 1989.5175	419.6	260.2	579.0	175.77	663.4
## 1989.5202	419.7	260.0	579.3	175.54	663.8
## 1989.5229	419.7	259.9	579.6	175.31	664.2
## 1989.5257	419.8	259.8	579.8	175.09	664.5
## 1989.5284	419.9	259.7	580.1	174.86	664.9
## 1989.5311	419.9	259.5	580.4	174.63	665.3
## 1989.5339	420.0	259.4	580.6	174.40	665.6
## 1989.5366	420.1	259.3	580.9	174.17	666.0
## 1989.5394	420.2	259.2	581.1	173.94	666.4
## 1989.5421	420.2	259.0	581.4	173.71	666.7
## 1989.5448	420.3	258.9	581.7	173.48	667.1
## 1989.5476	420.4	258.8	581.9	173.25	667.5
## 1989.5503	420.4	258.7	582.2	173.02	667.8
## 1989.5530	420.5	258.5	582.5	172.80	668.2
## 1989.5558	420.6	258.4	582.7	172.57	668.6
## 1989.5585	420.6	258.3	583.0	172.34	668.9
## 1989.5613	420.7	258.2	583.2	172.11	669.3
## 1989.5640	420.8	258.0	583.5	171.88	669.7
## 1989.5667	420.8	257.9	583.8	171.65	670.0
## 1989.5695	420.9	257.8	584.0	171.43	670.4
## 1989.5722	421.0	257.7	584.3	171.20	670.8
## 1989.5749	421.0	257.5	584.6	170.97	671.1
## 1989.5777	421.1	257.4	584.8	170.74	671.5
## 1989.5804	421.2	257.3	585.1	170.51	671.9
## 1989.5832	421.3	257.2	585.4	170.29	672.2
## 1989.5859	421.3	257.0	585.6	170.06	672.6
## 1989.5886	421.4	256.9	585.9	169.83	672.9
## 1989.5914	421.5	256.8	586.1	169.60	673.3
## 1989.5941	421.5	256.7	586.4	169.38	673.7

## 1989.5969	421.6	256.5	586.7	169.15	674.0
## 1989.5996	421.7	256.4	586.9	168.92	674.4
## 1989.6023	421.7	256.3	587.2	168.69	674.8
## 1989.6051	421.8	256.2	587.4	168.47	675.1
## 1989.6078	421.9	256.0	587.7	168.24	675.5
## 1989.6105	421.9	255.9	588.0	168.01	675.9
## 1989.6133	422.0	255.8	588.2	167.79	676.2
## 1989.6160	422.1	255.7	588.5	167.56	676.6
## 1989.6188	422.1	255.5	588.8	167.33	677.0
## 1989.6215	422.2	255.4	589.0	167.11	677.3
## 1989.6242	422.3	255.3	589.3	166.88	677.7
## 1989.6270	422.4	255.2	589.5	166.65	678.0
## 1989.6297	422.4	255.0	589.8	166.43	678.4
## 1989.6324	422.5	254.9	590.1	166.20	678.8
## 1989.6352	422.6	254.8	590.3	165.98	679.1
## 1989.6379	422.6	254.7	590.6	165.75	679.5
## 1989.6407	422.7	254.5	590.8	165.52	679.9
## 1989.6434	422.8	254.4	591.1	165.30	680.2
## 1989.6461	422.8	254.3	591.4	165.07	680.6
## 1989.6489	422.9	254.2	591.6	164.85	681.0
## 1989.6516	423.0	254.0	591.9	164.62	681.3
## 1989.6543	423.0	253.9	592.2	164.40	681.7
## 1989.6571	423.1	253.8	592.4	164.17	682.0
## 1989.6598	423.2	253.7	592.7	163.95	682.4
## 1989.6626	423.2	253.6	592.9	163.72	682.8
## 1989.6653	423.3	253.4	593.2	163.49	683.1
## 1989.6680	423.4	253.3	593.5	163.27	683.5
## 1989.6708	423.5	253.2	593.7	163.04	683.9
## 1989.6735	423.5	253.1	594.0	162.82	684.2
## 1989.6762	423.6	252.9	594.2	162.59	684.6
## 1989.6790	423.7	252.8	594.5	162.37	684.9
## 1989.6817	423.7	252.7	594.8	162.14	685.3
## 1989.6845	423.8	252.6	595.0	161.92	685.7
## 1989.6872	423.9	252.4	595.3	161.70	686.0
## 1989.6899	423.9	252.3	595.5	161.47	686.4
## 1989.6927	424.0	252.2	595.8	161.25	686.8
## 1989.6954	424.1	252.1	596.1	161.02	687.1
## 1989.6982	424.1	251.9	596.3	160.80	687.5
## 1989.7009	424.2	251.8	596.6	160.57	687.8
## 1989.7036	424.3	251.7	596.8	160.35	688.2
## 1989.7064	424.3	251.6	597.1	160.13	688.6
## 1989.7091	424.4	251.5	597.4	159.90	688.9
## 1989.7118	424.5	251.3	597.6	159.68	689.3
## 1989.7146	424.6	251.2	597.9	159.45	689.6
## 1989.7173	424.6	251.1	598.1	159.23	690.0
## 1989.7201	424.7	251.0	598.4	159.01	690.4
## 1989.7228	424.8	250.8	598.7	158.78	690.7
## 1989.7255	424.8	250.7	598.9	158.56	691.1
## 1989.7283	424.9	250.6	599.2	158.34	691.5
## 1989.7310	425.0	250.5	599.4	158.11	691.8
## 1989.7337	425.0	250.4	599.7	157.89	692.2
## 1989.7365	425.1	250.2	600.0	157.67	692.5

## 1989.7392	425.2	250.1	600.2	157.44	692.9
## 1989.7420	425.2	250.0	600.5	157.22	693.3
## 1989.7447	425.3	249.9	600.7	157.00	693.6
## 1989.7474	425.4	249.7	601.0	156.77	694.0
## 1989.7502	425.4	249.6	601.3	156.55	694.3
## 1989.7529	425.5	249.5	601.5	156.33	694.7
## 1989.7556	425.6	249.4	601.8	156.10	695.1
## 1989.7584	425.6	249.3	602.0	155.88	695.4
## 1989.7611	425.7	249.1	602.3	155.66	695.8
## 1989.7639	425.8	249.0	602.6	155.44	696.1
## 1989.7666	425.9	248.9	602.8	155.21	696.5
## 1989.7693	425.9	248.8	603.1	154.99	696.9
## 1989.7721	426.0	248.6	603.3	154.77	697.2
## 1989.7748	426.1	248.5	603.6	154.55	697.6
## 1989.7775	426.1	248.4	603.9	154.32	697.9
## 1989.7803	426.2	248.3	604.1	154.10	698.3
## 1989.7830	426.3	248.2	604.4	153.88	698.7
## 1989.7858	426.3	248.0	604.6	153.66	699.0
## 1989.7885	426.4	247.9	604.9	153.44	699.4
## 1989.7912	426.5	247.8	605.1	153.21	699.7
## 1989.7940	426.5	247.7	605.4	152.99	700.1
## 1989.7967	426.6	247.6	605.7	152.77	700.5
## 1989.7995	426.7	247.4	605.9	152.55	700.8
## 1989.8022	426.7	247.3	606.2	152.33	701.2
## 1989.8049	426.8	247.2	606.4	152.10	701.5
## 1989.8077	426.9	247.1	606.7	151.88	701.9
## 1989.8104	427.0	247.0	607.0	151.66	702.2
## 1989.8131	427.0	246.8	607.2	151.44	702.6
## 1989.8159	427.1	246.7	607.5	151.22	703.0
## 1989.8186	427.2	246.6	607.7	151.00	703.3
## 1989.8214	427.2	246.5	608.0	150.78	703.7
## 1989.8241	427.3	246.3	608.3	150.56	704.0
## 1989.8268	427.4	246.2	608.5	150.33	704.4
## 1989.8296	427.4	246.1	608.8	150.11	704.8
## 1989.8323	427.5	246.0	609.0	149.89	705.1
## 1989.8350	427.6	245.9	609.3	149.67	705.5
## 1989.8378	427.6	245.7	609.5	149.45	705.8
## 1989.8405	427.7	245.6	609.8	149.23	706.2
## 1989.8433	427.8	245.5	610.1	149.01	706.5
## 1989.8460	427.8	245.4	610.3	148.79	706.9
## 1989.8487	427.9	245.3	610.6	148.57	707.3
## 1989.8515	428.0	245.1	610.8	148.35	707.6
## 1989.8542	428.1	245.0	611.1	148.13	708.0
## 1989.8569	428.1	244.9	611.3	147.91	708.3
## 1989.8597	428.2	244.8	611.6	147.69	708.7
## 1989.8624	428.3	244.7	611.9	147.47	709.1
## 1989.8652	428.3	244.5	612.1	147.25	709.4
## 1989.8679	428.4	244.4	612.4	147.03	709.8
## 1989.8706	428.5	244.3	612.6	146.80	710.1
## 1989.8734	428.5	244.2	612.9	146.58	710.5
## 1989.8761	428.6	244.1	613.1	146.36	710.8
## 1989.8789	428.7	243.9	613.4	146.14	711.2

## 1989.8816	428.7	243.8	613.7	145.93	711.6
## 1989.8843	428.8	243.7	613.9	145.71	711.9
## 1989.8871	428.9	243.6	614.2	145.49	712.3
## 1989.8898	428.9	243.5	614.4	145.27	712.6
## 1989.8925	429.0	243.3	614.7	145.05	713.0
## 1989.8953	429.1	243.2	615.0	144.83	713.3
## 1989.8980	429.2	243.1	615.2	144.61	713.7
## 1989.9008	429.2	243.0	615.5	144.39	714.1
## 1989.9035	429.3	242.9	615.7	144.17	714.4
## 1989.9062	429.4	242.7	616.0	143.95	714.8
## 1989.9090	429.4	242.6	616.2	143.73	715.1
## 1989.9117	429.5	242.5	616.5	143.51	715.5
## 1989.9144	429.6	242.4	616.7	143.29	715.8
## 1989.9172	429.6	242.3	617.0	143.07	716.2
## 1989.9199	429.7	242.1	617.3	142.85	716.6
## 1989.9227	429.8	242.0	617.5	142.63	716.9
## 1989.9254	429.8	241.9	617.8	142.42	717.3
## 1989.9281	429.9	241.8	618.0	142.20	717.6
## 1989.9309	430.0	241.7	618.3	141.98	718.0
## 1989.9336	430.0	241.5	618.5	141.76	718.3
## 1989.9363	430.1	241.4	618.8	141.54	718.7
## 1989.9391	430.2	241.3	619.1	141.32	719.0
## 1989.9418	430.3	241.2	619.3	141.10	719.4
## 1989.9446	430.3	241.1	619.6	140.88	719.8
## 1989.9473	430.4	240.9	619.8	140.67	720.1
## 1989.9500	430.5	240.8	620.1	140.45	720.5
## 1989.9528	430.5	240.7	620.3	140.23	720.8
## 1989.9555	430.6	240.6	620.6	140.01	721.2
## 1989.9582	430.7	240.5	620.9	139.79	721.5
## 1989.9610	430.7	240.4	621.1	139.57	721.9
## 1989.9637	430.8	240.2	621.4	139.36	722.2
## 1989.9665	430.9	240.1	621.6	139.14	722.6
## 1989.9692	430.9	240.0	621.9	138.92	723.0
## 1989.9719	431.0	239.9	622.1	138.70	723.3
## 1989.9747	431.1	239.8	622.4	138.48	723.7
## 1989.9774	431.1	239.6	622.6	138.27	724.0
## 1989.9802	431.2	239.5	622.9	138.05	724.4
## 1989.9829	431.3	239.4	623.2	137.83	724.7
## 1989.9856	431.4	239.3	623.4	137.61	725.1
## 1989.9884	431.4	239.2	623.7	137.40	725.4
## 1989.9911	431.5	239.0	623.9	137.18	725.8
## 1989.9938	431.6	238.9	624.2	136.96	726.2
## 1989.9966	431.6	238.8	624.4	136.74	726.5
## 1989.9993	431.7	238.7	624.7	136.52	726.9
## 1990.0021	431.8	238.6	625.0	136.31	727.2
## 1990.0048	431.8	238.5	625.2	136.09	727.6
## 1990.0075	431.9	238.3	625.5	135.87	727.9
## 1990.0103	432.0	238.2	625.7	135.66	728.3
## 1990.0130	432.0	238.1	626.0	135.44	728.6
## 1990.0157	432.1	238.0	626.2	135.22	729.0
## 1990.0185	432.2	237.9	626.5	135.00	729.3
## 1990.0212	432.2	237.7	626.7	134.79	729.7

## 1990.0240	432.3	237.6	627.0	134.57	730.1
## 1990.0267	432.4	237.5	627.3	134.35	730.4
## 1990.0294	432.5	237.4	627.5	134.14	730.8
## 1990.0322	432.5	237.3	627.8	133.92	731.1
## 1990.0349	432.6	237.2	628.0	133.70	731.5
## 1990.0376	432.7	237.0	628.3	133.49	731.8
## 1990.0404	432.7	236.9	628.5	133.27	732.2
## 1990.0431	432.8	236.8	628.8	133.05	732.5
## 1990.0459	432.9	236.7	629.0	132.84	732.9
## 1990.0486	432.9	236.6	629.3	132.62	733.2
## 1990.0513	433.0	236.5	629.5	132.40	733.6
## 1990.0541	433.1	236.3	629.8	132.19	734.0
## 1990.0568	433.1	236.2	630.1	131.97	734.3
## 1990.0595	433.2	236.1	630.3	131.75	734.7
## 1990.0623	433.3	236.0	630.6	131.54	735.0
## 1990.0650	433.3	235.9	630.8	131.32	735.4
## 1990.0678	433.4	235.7	631.1	131.11	735.7
## 1990.0705	433.5	235.6	631.3	130.89	736.1
## 1990.0732	433.5	235.5	631.6	130.67	736.4
## 1990.0760	433.6	235.4	631.8	130.46	736.8
## 1990.0787	433.7	235.3	632.1	130.24	737.1
## 1990.0815	433.8	235.2	632.4	130.02	737.5
## 1990.0842	433.8	235.0	632.6	129.81	737.8
## 1990.0869	433.9	234.9	632.9	129.59	738.2
## 1990.0897	434.0	234.8	633.1	129.38	738.5
## 1990.0924	434.0	234.7	633.4	129.16	738.9
## 1990.0951	434.1	234.6	633.6	128.95	739.3
## 1990.0979	434.2	234.5	633.9	128.73	739.6
## 1990.1006	434.2	234.3	634.1	128.51	740.0
## 1990.1034	434.3	234.2	634.4	128.30	740.3
## 1990.1061	434.4	234.1	634.6	128.08	740.7
## 1990.1088	434.4	234.0	634.9	127.87	741.0
## 1990.1116	434.5	233.9	635.2	127.65	741.4
## 1990.1143	434.6	233.8	635.4	127.44	741.7
## 1990.1170	434.6	233.6	635.7	127.22	742.1
## 1990.1198	434.7	233.5	635.9	127.01	742.4
## 1990.1225	434.8	233.4	636.2	126.79	742.8
## 1990.1253	434.9	233.3	636.4	126.58	743.1
## 1990.1280	434.9	233.2	636.7	126.36	743.5
## 1990.1307	435.0	233.0	636.9	126.15	743.8
## 1990.1335	435.1	232.9	637.2	125.93	744.2
## 1990.1362	435.1	232.8	637.4	125.72	744.5
## 1990.1389	435.2	232.7	637.7	125.50	744.9
## 1990.1417	435.3	232.6	638.0	125.29	745.2
## 1990.1444	435.3	232.5	638.2	125.07	745.6
## 1990.1472	435.4	232.3	638.5	124.86	746.0
## 1990.1499	435.5	232.2	638.7	124.64	746.3
## 1990.1526	435.5	232.1	639.0	124.43	746.7
## 1990.1554	435.6	232.0	639.2	124.21	747.0
## 1990.1581	435.7	231.9	639.5	124.00	747.4
## 1990.1608	435.7	231.8	639.7	123.78	747.7
## 1990.1636	435.8	231.6	640.0	123.57	748.1

## 1990.1663	435.9	231.5	640.2	123.35	748.4
## 1990.1691	436.0	231.4	640.5	123.14	748.8
## 1990.1718	436.0	231.3	640.7	122.92	749.1
## 1990.1745	436.1	231.2	641.0	122.71	749.5
## 1990.1773	436.2	231.1	641.3	122.50	749.8
## 1990.1800	436.2	230.9	641.5	122.28	750.2
## 1990.1828	436.3	230.8	641.8	122.07	750.5
## 1990.1855	436.4	230.7	642.0	121.85	750.9
## 1990.1882	436.4	230.6	642.3	121.64	751.2
## 1990.1910	436.5	230.5	642.5	121.42	751.6
## 1990.1937	436.6	230.4	642.8	121.21	751.9
## 1990.1964	436.6	230.3	643.0	121.00	752.3
## 1990.1992	436.7	230.1	643.3	120.78	752.6
## 1990.2019	436.8	230.0	643.5	120.57	753.0
## 1990.2047	436.8	229.9	643.8	120.35	753.3
## 1990.2074	436.9	229.8	644.0	120.14	753.7
## 1990.2101	437.0	229.7	644.3	119.93	754.0
## 1990.2129	437.1	229.6	644.6	119.71	754.4
## 1990.2156	437.1	229.4	644.8	119.50	754.7
## 1990.2183	437.2	229.3	645.1	119.29	755.1
## 1990.2211	437.3	229.2	645.3	119.07	755.4
## 1990.2238	437.3	229.1	645.6	118.86	755.8
## 1990.2266	437.4	229.0	645.8	118.65	756.1
## 1990.2293	437.5	228.9	646.1	118.43	756.5
## 1990.2320	437.5	228.7	646.3	118.22	756.9
## 1990.2348	437.6	228.6	646.6	118.00	757.2
## 1990.2375	437.7	228.5	646.8	117.79	757.6
## 1990.2402	437.7	228.4	647.1	117.58	757.9
## 1990.2430	437.8	228.3	647.3	117.36	758.3
## 1990.2457	437.9	228.2	647.6	117.15	758.6
## 1990.2485	437.9	228.1	647.8	116.94	759.0
## 1990.2512	438.0	227.9	648.1	116.72	759.3
## 1990.2539	438.1	227.8	648.3	116.51	759.7
## 1990.2567	438.2	227.7	648.6	116.30	760.0
## 1990.2594	438.2	227.6	648.9	116.09	760.4
## 1990.2621	438.3	227.5	649.1	115.87	760.7
## 1990.2649	438.4	227.4	649.4	115.66	761.1
## 1990.2676	438.4	227.2	649.6	115.45	761.4
## 1990.2704	438.5	227.1	649.9	115.23	761.8
## 1990.2731	438.6	227.0	650.1	115.02	762.1
## 1990.2758	438.6	226.9	650.4	114.81	762.5
## 1990.2786	438.7	226.8	650.6	114.59	762.8
## 1990.2813	438.8	226.7	650.9	114.38	763.2
## 1990.2841	438.8	226.5	651.1	114.17	763.5
## 1990.2868	438.9	226.4	651.4	113.96	763.9
## 1990.2895	439.0	226.3	651.6	113.74	764.2
## 1990.2923	439.0	226.2	651.9	113.53	764.6
## 1990.2950	439.1	226.1	652.1	113.32	764.9
## 1990.2977	439.2	226.0	652.4	113.11	765.3
## 1990.3005	439.3	225.9	652.6	112.89	765.6
## 1990.3032	439.3	225.7	652.9	112.68	766.0
## 1990.3060	439.4	225.6	653.2	112.47	766.3

## 1990.3087	439.5	225.5	653.4	112.26	766.7
## 1990.3114	439.5	225.4	653.7	112.04	767.0
## 1990.3142	439.6	225.3	653.9	111.83	767.4
## 1990.3169	439.7	225.2	654.2	111.62	767.7
## 1990.3196	439.7	225.1	654.4	111.41	768.1
## 1990.3224	439.8	224.9	654.7	111.20	768.4
## 1990.3251	439.9	224.8	654.9	110.98	768.8
## 1990.3279	439.9	224.7	655.2	110.77	769.1
## 1990.3306	440.0	224.6	655.4	110.56	769.5
## 1990.3333	440.1	224.5	655.7	110.35	769.8
## 1990.3361	440.1	224.4	655.9	110.14	770.2
## 1990.3388	440.2	224.2	656.2	109.92	770.5
## 1990.3415	440.3	224.1	656.4	109.71	770.9
## 1990.3443	440.4	224.0	656.7	109.50	771.2
## 1990.3470	440.4	223.9	656.9	109.29	771.6
## 1990.3498	440.5	223.8	657.2	109.08	771.9
## 1990.3525	440.6	223.7	657.4	108.86	772.2
## 1990.3552	440.6	223.6	657.7	108.65	772.6
## 1990.3580	440.7	223.4	657.9	108.44	772.9
## 1990.3607	440.8	223.3	658.2	108.23	773.3
## 1990.3634	440.8	223.2	658.4	108.02	773.6
## 1990.3662	440.9	223.1	658.7	107.81	774.0
## 1990.3689	441.0	223.0	659.0	107.59	774.3
## 1990.3717	441.0	222.9	659.2	107.38	774.7
## 1990.3744	441.1	222.8	659.5	107.17	775.0
## 1990.3771	441.2	222.6	659.7	106.96	775.4
## 1990.3799	441.2	222.5	660.0	106.75	775.7
## 1990.3826	441.3	222.4	660.2	106.54	776.1
## 1990.3854	441.4	222.3	660.5	106.33	776.4
## 1990.3881	441.5	222.2	660.7	106.11	776.8
## 1990.3908	441.5	222.1	661.0	105.90	777.1
## 1990.3936	441.6	222.0	661.2	105.69	777.5
## 1990.3963	441.7	221.8	661.5	105.48	777.8
## 1990.3990	441.7	221.7	661.7	105.27	778.2
## 1990.4018	441.8	221.6	662.0	105.06	778.5
## 1990.4045	441.9	221.5	662.2	104.85	778.9
## 1990.4073	441.9	221.4	662.5	104.64	779.2
## 1990.4100	442.0	221.3	662.7	104.43	779.6
## 1990.4127	442.1	221.2	663.0	104.21	779.9
## 1990.4155	442.1	221.0	663.2	104.00	780.3
## 1990.4182	442.2	220.9	663.5	103.79	780.6
## 1990.4209	442.3	220.8	663.7	103.58	781.0
## 1990.4237	442.3	220.7	664.0	103.37	781.3
## 1990.4264	442.4	220.6	664.2	103.16	781.7
## 1990.4292	442.5	220.5	664.5	102.95	782.0
## 1990.4319	442.5	220.4	664.7	102.74	782.4
## 1990.4346	442.6	220.2	665.0	102.53	782.7
## 1990.4374	442.7	220.1	665.2	102.32	783.1
## 1990.4401	442.8	220.0	665.5	102.11	783.4
## 1990.4428	442.8	219.9	665.7	101.90	783.8
## 1990.4456	442.9	219.8	666.0	101.69	784.1
## 1990.4483	443.0	219.7	666.2	101.47	784.4

## 1990.4511	443.0	219.6	666.5	101.26	784.8
## 1990.4538	443.1	219.4	666.8	101.05	785.1
## 1990.4565	443.2	219.3	667.0	100.84	785.5
## 1990.4593	443.2	219.2	667.3	100.63	785.8
## 1990.4620	443.3	219.1	667.5	100.42	786.2
## 1990.4648	443.4	219.0	667.8	100.21	786.5
## 1990.4675	443.4	218.9	668.0	100.00	786.9
## 1990.4702	443.5	218.8	668.3	99.79	787.2
## 1990.4730	443.6	218.7	668.5	99.58	787.6
## 1990.4757	443.6	218.5	668.8	99.37	787.9
## 1990.4784	443.7	218.4	669.0	99.16	788.3
## 1990.4812	443.8	218.3	669.3	98.95	788.6
## 1990.4839	443.9	218.2	669.5	98.74	789.0
## 1990.4867	443.9	218.1	669.8	98.53	789.3
## 1990.4894	444.0	218.0	670.0	98.32	789.7
## 1990.4921	444.1	217.9	670.3	98.11	790.0
## 1990.4949	444.1	217.7	670.5	97.90	790.4
## 1990.4976	444.2	217.6	670.8	97.69	790.7
## 1990.5003	444.3	217.5	671.0	97.48	791.1
## 1990.5031	444.3	217.4	671.3	97.27	791.4
## 1990.5058	444.4	217.3	671.5	97.06	791.7
## 1990.5086	444.5	217.2	671.8	96.85	792.1
## 1990.5113	444.5	217.1	672.0	96.64	792.4
## 1990.5140	444.6	216.9	672.3	96.43	792.8
## 1990.5168	444.7	216.8	672.5	96.22	793.1
## 1990.5195	444.7	216.7	672.8	96.01	793.5
## 1990.5222	444.8	216.6	673.0	95.80	793.8
## 1990.5250	444.9	216.5	673.3	95.59	794.2
## 1990.5277	445.0	216.4	673.5	95.38	794.5
## 1990.5305	445.0	216.3	673.8	95.17	794.9
## 1990.5332	445.1	216.2	674.0	94.96	795.2
## 1990.5359	445.2	216.0	674.3	94.76	795.6
## 1990.5387	445.2	215.9	674.5	94.55	795.9
## 1990.5414	445.3	215.8	674.8	94.34	796.3
## 1990.5441	445.4	215.7	675.0	94.13	796.6
## 1990.5469	445.4	215.6	675.3	93.92	797.0
## 1990.5496	445.5	215.5	675.5	93.71	797.3
## 1990.5524	445.6	215.4	675.8	93.50	797.6
## 1990.5551	445.6	215.3	676.0	93.29	798.0
## 1990.5578	445.7	215.1	676.3	93.08	798.3
## 1990.5606	445.8	215.0	676.5	92.87	798.7
## 1990.5633	445.8	214.9	676.8	92.66	799.0
## 1990.5661	445.9	214.8	677.0	92.45	799.4
## 1990.5688	446.0	214.7	677.3	92.24	799.7
## 1990.5715	446.1	214.6	677.5	92.03	800.1
## 1990.5743	446.1	214.5	677.8	91.83	800.4
## 1990.5770	446.2	214.3	678.0	91.62	800.8
## 1990.5797	446.3	214.2	678.3	91.41	801.1
## 1990.5825	446.3	214.1	678.5	91.20	801.5
## 1990.5852	446.4	214.0	678.8	90.99	801.8
## 1990.5880	446.5	213.9	679.0	90.78	802.1
## 1990.5907	446.5	213.8	679.3	90.57	802.5

## 1990.5934	446.6	213.7	679.5	90.36	802.8
## 1990.5962	446.7	213.6	679.8	90.15	803.2
## 1990.5989	446.7	213.4	680.0	89.95	803.5
## 1990.6016	446.8	213.3	680.3	89.74	803.9
## 1990.6044	446.9	213.2	680.5	89.53	804.2
## 1990.6071	446.9	213.1	680.8	89.32	804.6
## 1990.6099	447.0	213.0	681.0	89.11	804.9
## 1990.6126	447.1	212.9	681.3	88.90	805.3
## 1990.6153	447.2	212.8	681.5	88.69	805.6
## 1990.6181	447.2	212.7	681.8	88.48	806.0
## 1990.6208	447.3	212.5	682.0	88.28	806.3
## 1990.6235	447.4	212.4	682.3	88.07	806.6
## 1990.6263	447.4	212.3	682.5	87.86	807.0
## 1990.6290	447.5	212.2	682.8	87.65	807.3
## 1990.6318	447.6	212.1	683.0	87.44	807.7
## 1990.6345	447.6	212.0	683.3	87.23	808.0
## 1990.6372	447.7	211.9	683.5	87.03	808.4
## 1990.6400	447.8	211.8	683.8	86.82	808.7
## 1990.6427	447.8	211.6	684.0	86.61	809.1
## 1990.6454	447.9	211.5	684.3	86.40	809.4
## 1990.6482	448.0	211.4	684.5	86.19	809.8
## 1990.6509	448.0	211.3	684.8	85.98	810.1
## 1990.6537	448.1	211.2	685.0	85.78	810.5
## 1990.6564	448.2	211.1	685.3	85.57	810.8
## 1990.6591	448.3	211.0	685.5	85.36	811.1
## 1990.6619	448.3	210.9	685.8	85.15	811.5
## 1990.6646	448.4	210.7	686.0	84.94	811.8
## 1990.6674	448.5	210.6	686.3	84.74	812.2
## 1990.6701	448.5	210.5	686.5	84.53	812.5
## 1990.6728	448.6	210.4	686.8	84.32	812.9
## 1990.6756	448.7	210.3	687.0	84.11	813.2
## 1990.6783	448.7	210.2	687.3	83.90	813.6
## 1990.6810	448.8	210.1	687.5	83.70	813.9
## 1990.6838	448.9	210.0	687.8	83.49	814.3
## 1990.6865	448.9	209.8	688.0	83.28	814.6
## 1990.6893	449.0	209.7	688.3	83.07	814.9
## 1990.6920	449.1	209.6	688.5	82.86	815.3
## 1990.6947	449.1	209.5	688.8	82.66	815.6
## 1990.6975	449.2	209.4	689.0	82.45	816.0
## 1990.7002	449.3	209.3	689.3	82.24	816.3
## 1990.7029	449.4	209.2	689.5	82.03	816.7
## 1990.7057	449.4	209.1	689.8	81.83	817.0
## 1990.7084	449.5	209.0	690.0	81.62	817.4
## 1990.7112	449.6	208.8	690.3	81.41	817.7
## 1990.7139	449.6	208.7	690.5	81.20	818.0
## 1990.7166	449.7	208.6	690.8	81.00	818.4
## 1990.7194	449.8	208.5	691.0	80.79	818.7
## 1990.7221	449.8	208.4	691.3	80.58	819.1
## 1990.7248	449.9	208.3	691.5	80.37	819.4
## 1990.7276	450.0	208.2	691.8	80.17	819.8
## 1990.7303	450.0	208.1	692.0	79.96	820.1
## 1990.7331	450.1	207.9	692.3	79.75	820.5

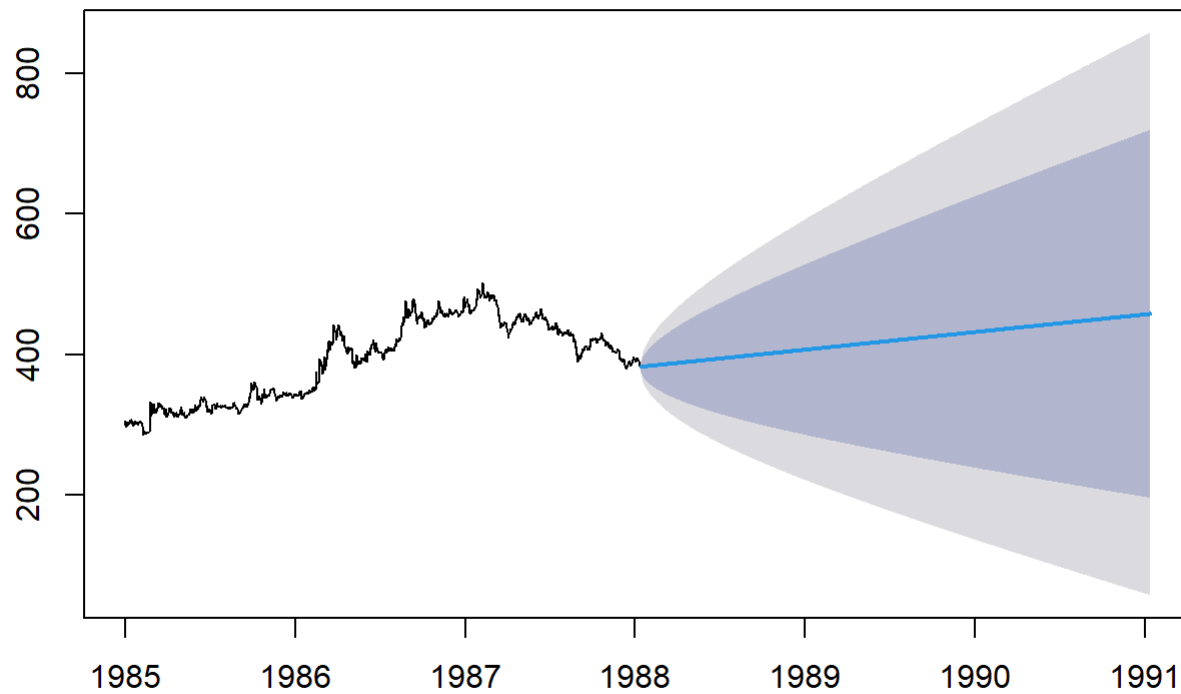
## 1990.7358	450.2	207.8	692.5	79.54	820.8
## 1990.7385	450.2	207.7	692.8	79.34	821.2
## 1990.7413	450.3	207.6	693.0	79.13	821.5
## 1990.7440	450.4	207.5	693.3	78.92	821.8
## 1990.7467	450.4	207.4	693.5	78.71	822.2
## 1990.7495	450.5	207.3	693.8	78.51	822.5
## 1990.7522	450.6	207.2	694.0	78.30	822.9
## 1990.7550	450.7	207.0	694.3	78.09	823.2
## 1990.7577	450.7	206.9	694.5	77.88	823.6
## 1990.7604	450.8	206.8	694.8	77.68	823.9
## 1990.7632	450.9	206.7	695.0	77.47	824.3
## 1990.7659	450.9	206.6	695.3	77.26	824.6
## 1990.7687	451.0	206.5	695.5	77.06	824.9
## 1990.7714	451.1	206.4	695.8	76.85	825.3
## 1990.7741	451.1	206.3	696.0	76.64	825.6
## 1990.7769	451.2	206.2	696.3	76.44	826.0
## 1990.7796	451.3	206.0	696.5	76.23	826.3
## 1990.7823	451.3	205.9	696.8	76.02	826.7
## 1990.7851	451.4	205.8	697.0	75.81	827.0
## 1990.7878	451.5	205.7	697.2	75.61	827.4
## 1990.7906	451.5	205.6	697.5	75.40	827.7
## 1990.7933	451.6	205.5	697.7	75.19	828.0
## 1990.7960	451.7	205.4	698.0	74.99	828.4
## 1990.7988	451.8	205.3	698.2	74.78	828.7
## 1990.8015	451.8	205.2	698.5	74.57	829.1
## 1990.8042	451.9	205.0	698.7	74.37	829.4
## 1990.8070	452.0	204.9	699.0	74.16	829.8
## 1990.8097	452.0	204.8	699.2	73.95	830.1
## 1990.8125	452.1	204.7	699.5	73.75	830.4
## 1990.8152	452.2	204.6	699.7	73.54	830.8
## 1990.8179	452.2	204.5	700.0	73.33	831.1
## 1990.8207	452.3	204.4	700.2	73.13	831.5
## 1990.8234	452.4	204.3	700.5	72.92	831.8
## 1990.8261	452.4	204.2	700.7	72.71	832.2
## 1990.8289	452.5	204.0	701.0	72.51	832.5
## 1990.8316	452.6	203.9	701.2	72.30	832.9
## 1990.8344	452.6	203.8	701.5	72.09	833.2
## 1990.8371	452.7	203.7	701.7	71.89	833.5
## 1990.8398	452.8	203.6	702.0	71.68	833.9
## 1990.8426	452.9	203.5	702.2	71.48	834.2
## 1990.8453	452.9	203.4	702.5	71.27	834.6
## 1990.8480	453.0	203.3	702.7	71.06	834.9
## 1990.8508	453.1	203.2	703.0	70.86	835.3
## 1990.8535	453.1	203.0	703.2	70.65	835.6
## 1990.8563	453.2	202.9	703.5	70.44	836.0
## 1990.8590	453.3	202.8	703.7	70.24	836.3
## 1990.8617	453.3	202.7	704.0	70.03	836.6
## 1990.8645	453.4	202.6	704.2	69.82	837.0
## 1990.8672	453.5	202.5	704.5	69.62	837.3
## 1990.8700	453.5	202.4	704.7	69.41	837.7
## 1990.8727	453.6	202.3	705.0	69.21	838.0
## 1990.8754	453.7	202.2	705.2	69.00	838.4

## 1990.8782	453.7	202.0	705.5	68.79	838.7
## 1990.8809	453.8	201.9	705.7	68.59	839.0
## 1990.8836	453.9	201.8	706.0	68.38	839.4
## 1990.8864	454.0	201.7	706.2	68.18	839.7
## 1990.8891	454.0	201.6	706.4	67.97	840.1
## 1990.8919	454.1	201.5	706.7	67.76	840.4
## 1990.8946	454.2	201.4	706.9	67.56	840.8
## 1990.8973	454.2	201.3	707.2	67.35	841.1
## 1990.9001	454.3	201.2	707.4	67.15	841.4
## 1990.9028	454.4	201.0	707.7	66.94	841.8
## 1990.9055	454.4	200.9	707.9	66.73	842.1
## 1990.9083	454.5	200.8	708.2	66.53	842.5
## 1990.9110	454.6	200.7	708.4	66.32	842.8
## 1990.9138	454.6	200.6	708.7	66.12	843.2
## 1990.9165	454.7	200.5	708.9	65.91	843.5
## 1990.9192	454.8	200.4	709.2	65.71	843.8
## 1990.9220	454.8	200.3	709.4	65.50	844.2
## 1990.9247	454.9	200.2	709.7	65.29	844.5
## 1990.9274	455.0	200.0	709.9	65.09	844.9
## 1990.9302	455.1	199.9	710.2	64.88	845.2
## 1990.9329	455.1	199.8	710.4	64.68	845.6
## 1990.9357	455.2	199.7	710.7	64.47	845.9
## 1990.9384	455.3	199.6	710.9	64.27	846.3
## 1990.9411	455.3	199.5	711.2	64.06	846.6
## 1990.9439	455.4	199.4	711.4	63.86	846.9
## 1990.9466	455.5	199.3	711.7	63.65	847.3
## 1990.9493	455.5	199.2	711.9	63.44	847.6
## 1990.9521	455.6	199.0	712.2	63.24	848.0
## 1990.9548	455.7	198.9	712.4	63.03	848.3
## 1990.9576	455.7	198.8	712.7	62.83	848.7
## 1990.9603	455.8	198.7	712.9	62.62	849.0
## 1990.9630	455.9	198.6	713.1	62.42	849.3
## 1990.9658	455.9	198.5	713.4	62.21	849.7
## 1990.9685	456.0	198.4	713.6	62.01	850.0
## 1990.9713	456.1	198.3	713.9	61.80	850.4
## 1990.9740	456.2	198.2	714.1	61.60	850.7
## 1990.9767	456.2	198.1	714.4	61.39	851.0
## 1990.9795	456.3	197.9	714.6	61.19	851.4
## 1990.9822	456.4	197.8	714.9	60.98	851.7
## 1990.9849	456.4	197.7	715.1	60.78	852.1
## 1990.9877	456.5	197.6	715.4	60.57	852.4
## 1990.9904	456.6	197.5	715.6	60.36	852.8
## 1990.9932	456.6	197.4	715.9	60.16	853.1
## 1990.9959	456.7	197.3	716.1	59.95	853.4
## 1990.9986	456.8	197.2	716.4	59.75	853.8
## 1991.0014	456.8	197.1	716.6	59.54	854.1
## 1991.0041	456.9	197.0	716.9	59.34	854.5
## 1991.0068	457.0	196.8	717.1	59.13	854.8
## 1991.0096	457.0	196.7	717.4	58.93	855.2
## 1991.0123	457.1	196.6	717.6	58.72	855.5
## 1991.0151	457.2	196.5	717.9	58.52	855.8
## 1991.0178	457.3	196.4	718.1	58.31	856.2

```
## 1991.0205      457.3 196.3 718.3  58.11 856.5  
## 1991.0233      457.4 196.2 718.6  57.90 856.9  
## 1991.0260      457.5 196.1 718.8  57.70 857.2  
## 1991.0287      457.5 196.0 719.1  57.50 857.6
```

```
plot(rwfff)
```

Forecasts from Random walk with drift



```
print(summary(meanFoo))
```

```
##
## Forecast method: Mean
##
## Model Information:
## $mu
## [1] 392.6
##
## $mu.se
## [1] 1.693
##
## $sd
## [1] 56.35
##
## $bootstrap
## [1] FALSE
##
## $call
## meanf(y = data_clean, h = 365 * 3)
##
## attr("class")
## [1] "meanf"
##
## Error measures:
##
##                                ME  RMSE   MAE    MPE MAPE  MASE   ACF1
## Training set -0.00000000000001258 56.32 49.72 -2.174 13.2 0.666 0.9959
##
## Forecasts:
##           Point Forecast Lo 80 Hi 80 Lo 95 Hi 95
## 1988.0335      392.6 320.3 464.9   282 503.2
## 1988.0363      392.6 320.3 464.9   282 503.2
## 1988.0390      392.6 320.3 464.9   282 503.2
## 1988.0418      392.6 320.3 464.9   282 503.2
## 1988.0445      392.6 320.3 464.9   282 503.2
## 1988.0472      392.6 320.3 464.9   282 503.2
## 1988.0500      392.6 320.3 464.9   282 503.2
## 1988.0527      392.6 320.3 464.9   282 503.2
## 1988.0554      392.6 320.3 464.9   282 503.2
## 1988.0582      392.6 320.3 464.9   282 503.2
## 1988.0609      392.6 320.3 464.9   282 503.2
## 1988.0637      392.6 320.3 464.9   282 503.2
## 1988.0664      392.6 320.3 464.9   282 503.2
## 1988.0691      392.6 320.3 464.9   282 503.2
## 1988.0719      392.6 320.3 464.9   282 503.2
## 1988.0746      392.6 320.3 464.9   282 503.2
## 1988.0773      392.6 320.3 464.9   282 503.2
## 1988.0801      392.6 320.3 464.9   282 503.2
## 1988.0828      392.6 320.3 464.9   282 503.2
## 1988.0856      392.6 320.3 464.9   282 503.2
## 1988.0883      392.6 320.3 464.9   282 503.2
## 1988.0910      392.6 320.3 464.9   282 503.2
## 1988.0938      392.6 320.3 464.9   282 503.2
## 1988.0965      392.6 320.3 464.9   282 503.2
```


## 1988.0992	392.6	320.3	464.9	282	503.2
## 1988.1020	392.6	320.3	464.9	282	503.2
## 1988.1047	392.6	320.3	464.9	282	503.2
## 1988.1075	392.6	320.3	464.9	282	503.2
## 1988.1102	392.6	320.3	464.9	282	503.2
## 1988.1129	392.6	320.3	464.9	282	503.2
## 1988.1157	392.6	320.3	464.9	282	503.2
## 1988.1184	392.6	320.3	464.9	282	503.2
## 1988.1211	392.6	320.3	464.9	282	503.2
## 1988.1239	392.6	320.3	464.9	282	503.2
## 1988.1266	392.6	320.3	464.9	282	503.2
## 1988.1294	392.6	320.3	464.9	282	503.2
## 1988.1321	392.6	320.3	464.9	282	503.2
## 1988.1348	392.6	320.3	464.9	282	503.2
## 1988.1376	392.6	320.3	464.9	282	503.2
## 1988.1403	392.6	320.3	464.9	282	503.2
## 1988.1431	392.6	320.3	464.9	282	503.2
## 1988.1458	392.6	320.3	464.9	282	503.2
## 1988.1485	392.6	320.3	464.9	282	503.2
## 1988.1513	392.6	320.3	464.9	282	503.2
## 1988.1540	392.6	320.3	464.9	282	503.2
## 1988.1567	392.6	320.3	464.9	282	503.2
## 1988.1595	392.6	320.3	464.9	282	503.2
## 1988.1622	392.6	320.3	464.9	282	503.2
## 1988.1650	392.6	320.3	464.9	282	503.2
## 1988.1677	392.6	320.3	464.9	282	503.2
## 1988.1704	392.6	320.3	464.9	282	503.2
## 1988.1732	392.6	320.3	464.9	282	503.2
## 1988.1759	392.6	320.3	464.9	282	503.2
## 1988.1786	392.6	320.3	464.9	282	503.2
## 1988.1814	392.6	320.3	464.9	282	503.2
## 1988.1841	392.6	320.3	464.9	282	503.2
## 1988.1869	392.6	320.3	464.9	282	503.2
## 1988.1896	392.6	320.3	464.9	282	503.2
## 1988.1923	392.6	320.3	464.9	282	503.2
## 1988.1951	392.6	320.3	464.9	282	503.2
## 1988.1978	392.6	320.3	464.9	282	503.2
## 1988.2005	392.6	320.3	464.9	282	503.2
## 1988.2033	392.6	320.3	464.9	282	503.2
## 1988.2060	392.6	320.3	464.9	282	503.2
## 1988.2088	392.6	320.3	464.9	282	503.2
## 1988.2115	392.6	320.3	464.9	282	503.2
## 1988.2142	392.6	320.3	464.9	282	503.2
## 1988.2170	392.6	320.3	464.9	282	503.2
## 1988.2197	392.6	320.3	464.9	282	503.2
## 1988.2225	392.6	320.3	464.9	282	503.2
## 1988.2252	392.6	320.3	464.9	282	503.2
## 1988.2279	392.6	320.3	464.9	282	503.2
## 1988.2307	392.6	320.3	464.9	282	503.2
## 1988.2334	392.6	320.3	464.9	282	503.2
## 1988.2361	392.6	320.3	464.9	282	503.2
## 1988.2389	392.6	320.3	464.9	282	503.2

## 1988.2416	392.6	320.3	464.9	282	503.2
## 1988.2444	392.6	320.3	464.9	282	503.2
## 1988.2471	392.6	320.3	464.9	282	503.2
## 1988.2498	392.6	320.3	464.9	282	503.2
## 1988.2526	392.6	320.3	464.9	282	503.2
## 1988.2553	392.6	320.3	464.9	282	503.2
## 1988.2580	392.6	320.3	464.9	282	503.2
## 1988.2608	392.6	320.3	464.9	282	503.2
## 1988.2635	392.6	320.3	464.9	282	503.2
## 1988.2663	392.6	320.3	464.9	282	503.2
## 1988.2690	392.6	320.3	464.9	282	503.2
## 1988.2717	392.6	320.3	464.9	282	503.2
## 1988.2745	392.6	320.3	464.9	282	503.2
## 1988.2772	392.6	320.3	464.9	282	503.2
## 1988.2799	392.6	320.3	464.9	282	503.2
## 1988.2827	392.6	320.3	464.9	282	503.2
## 1988.2854	392.6	320.3	464.9	282	503.2
## 1988.2882	392.6	320.3	464.9	282	503.2
## 1988.2909	392.6	320.3	464.9	282	503.2
## 1988.2936	392.6	320.3	464.9	282	503.2
## 1988.2964	392.6	320.3	464.9	282	503.2
## 1988.2991	392.6	320.3	464.9	282	503.2
## 1988.3018	392.6	320.3	464.9	282	503.2
## 1988.3046	392.6	320.3	464.9	282	503.2
## 1988.3073	392.6	320.3	464.9	282	503.2
## 1988.3101	392.6	320.3	464.9	282	503.2
## 1988.3128	392.6	320.3	464.9	282	503.2
## 1988.3155	392.6	320.3	464.9	282	503.2
## 1988.3183	392.6	320.3	464.9	282	503.2
## 1988.3210	392.6	320.3	464.9	282	503.2
## 1988.3238	392.6	320.3	464.9	282	503.2
## 1988.3265	392.6	320.3	464.9	282	503.2
## 1988.3292	392.6	320.3	464.9	282	503.2
## 1988.3320	392.6	320.3	464.9	282	503.2
## 1988.3347	392.6	320.3	464.9	282	503.2
## 1988.3374	392.6	320.3	464.9	282	503.2
## 1988.3402	392.6	320.3	464.9	282	503.2
## 1988.3429	392.6	320.3	464.9	282	503.2
## 1988.3457	392.6	320.3	464.9	282	503.2
## 1988.3484	392.6	320.3	464.9	282	503.2
## 1988.3511	392.6	320.3	464.9	282	503.2
## 1988.3539	392.6	320.3	464.9	282	503.2
## 1988.3566	392.6	320.3	464.9	282	503.2
## 1988.3593	392.6	320.3	464.9	282	503.2
## 1988.3621	392.6	320.3	464.9	282	503.2
## 1988.3648	392.6	320.3	464.9	282	503.2
## 1988.3676	392.6	320.3	464.9	282	503.2
## 1988.3703	392.6	320.3	464.9	282	503.2
## 1988.3730	392.6	320.3	464.9	282	503.2
## 1988.3758	392.6	320.3	464.9	282	503.2
## 1988.3785	392.6	320.3	464.9	282	503.2
## 1988.3812	392.6	320.3	464.9	282	503.2

## 1988.3840	392.6	320.3	464.9	282	503.2
## 1988.3867	392.6	320.3	464.9	282	503.2
## 1988.3895	392.6	320.3	464.9	282	503.2
## 1988.3922	392.6	320.3	464.9	282	503.2
## 1988.3949	392.6	320.3	464.9	282	503.2
## 1988.3977	392.6	320.3	464.9	282	503.2
## 1988.4004	392.6	320.3	464.9	282	503.2
## 1988.4031	392.6	320.3	464.9	282	503.2
## 1988.4059	392.6	320.3	464.9	282	503.2
## 1988.4086	392.6	320.3	464.9	282	503.2
## 1988.4114	392.6	320.3	464.9	282	503.2
## 1988.4141	392.6	320.3	464.9	282	503.2
## 1988.4168	392.6	320.3	464.9	282	503.2
## 1988.4196	392.6	320.3	464.9	282	503.2
## 1988.4223	392.6	320.3	464.9	282	503.2
## 1988.4251	392.6	320.3	464.9	282	503.2
## 1988.4278	392.6	320.3	464.9	282	503.2
## 1988.4305	392.6	320.3	464.9	282	503.2
## 1988.4333	392.6	320.3	464.9	282	503.2
## 1988.4360	392.6	320.3	464.9	282	503.2
## 1988.4387	392.6	320.3	464.9	282	503.2
## 1988.4415	392.6	320.3	464.9	282	503.2
## 1988.4442	392.6	320.3	464.9	282	503.2
## 1988.4470	392.6	320.3	464.9	282	503.2
## 1988.4497	392.6	320.3	464.9	282	503.2
## 1988.4524	392.6	320.3	464.9	282	503.2
## 1988.4552	392.6	320.3	464.9	282	503.2
## 1988.4579	392.6	320.3	464.9	282	503.2
## 1988.4606	392.6	320.3	464.9	282	503.2
## 1988.4634	392.6	320.3	464.9	282	503.2
## 1988.4661	392.6	320.3	464.9	282	503.2
## 1988.4689	392.6	320.3	464.9	282	503.2
## 1988.4716	392.6	320.3	464.9	282	503.2
## 1988.4743	392.6	320.3	464.9	282	503.2
## 1988.4771	392.6	320.3	464.9	282	503.2
## 1988.4798	392.6	320.3	464.9	282	503.2
## 1988.4825	392.6	320.3	464.9	282	503.2
## 1988.4853	392.6	320.3	464.9	282	503.2
## 1988.4880	392.6	320.3	464.9	282	503.2
## 1988.4908	392.6	320.3	464.9	282	503.2
## 1988.4935	392.6	320.3	464.9	282	503.2
## 1988.4962	392.6	320.3	464.9	282	503.2
## 1988.4990	392.6	320.3	464.9	282	503.2
## 1988.5017	392.6	320.3	464.9	282	503.2
## 1988.5044	392.6	320.3	464.9	282	503.2
## 1988.5072	392.6	320.3	464.9	282	503.2
## 1988.5099	392.6	320.3	464.9	282	503.2
## 1988.5127	392.6	320.3	464.9	282	503.2
## 1988.5154	392.6	320.3	464.9	282	503.2
## 1988.5181	392.6	320.3	464.9	282	503.2
## 1988.5209	392.6	320.3	464.9	282	503.2
## 1988.5236	392.6	320.3	464.9	282	503.2

## 1988.5264	392.6	320.3	464.9	282	503.2
## 1988.5291	392.6	320.3	464.9	282	503.2
## 1988.5318	392.6	320.3	464.9	282	503.2
## 1988.5346	392.6	320.3	464.9	282	503.2
## 1988.5373	392.6	320.3	464.9	282	503.2
## 1988.5400	392.6	320.3	464.9	282	503.2
## 1988.5428	392.6	320.3	464.9	282	503.2
## 1988.5455	392.6	320.3	464.9	282	503.2
## 1988.5483	392.6	320.3	464.9	282	503.2
## 1988.5510	392.6	320.3	464.9	282	503.2
## 1988.5537	392.6	320.3	464.9	282	503.2
## 1988.5565	392.6	320.3	464.9	282	503.2
## 1988.5592	392.6	320.3	464.9	282	503.2
## 1988.5619	392.6	320.3	464.9	282	503.2
## 1988.5647	392.6	320.3	464.9	282	503.2
## 1988.5674	392.6	320.3	464.9	282	503.2
## 1988.5702	392.6	320.3	464.9	282	503.2
## 1988.5729	392.6	320.3	464.9	282	503.2
## 1988.5756	392.6	320.3	464.9	282	503.2
## 1988.5784	392.6	320.3	464.9	282	503.2
## 1988.5811	392.6	320.3	464.9	282	503.2
## 1988.5838	392.6	320.3	464.9	282	503.2
## 1988.5866	392.6	320.3	464.9	282	503.2
## 1988.5893	392.6	320.3	464.9	282	503.2
## 1988.5921	392.6	320.3	464.9	282	503.2
## 1988.5948	392.6	320.3	464.9	282	503.2
## 1988.5975	392.6	320.3	464.9	282	503.2
## 1988.6003	392.6	320.3	464.9	282	503.2
## 1988.6030	392.6	320.3	464.9	282	503.2
## 1988.6057	392.6	320.3	464.9	282	503.2
## 1988.6085	392.6	320.3	464.9	282	503.2
## 1988.6112	392.6	320.3	464.9	282	503.2
## 1988.6140	392.6	320.3	464.9	282	503.2
## 1988.6167	392.6	320.3	464.9	282	503.2
## 1988.6194	392.6	320.3	464.9	282	503.2
## 1988.6222	392.6	320.3	464.9	282	503.2
## 1988.6249	392.6	320.3	464.9	282	503.2
## 1988.6277	392.6	320.3	464.9	282	503.2
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## 1990.4100	392.6	320.3	464.9	282	503.2
## 1990.4127	392.6	320.3	464.9	282	503.2
## 1990.4155	392.6	320.3	464.9	282	503.2
## 1990.4182	392.6	320.3	464.9	282	503.2
## 1990.4209	392.6	320.3	464.9	282	503.2
## 1990.4237	392.6	320.3	464.9	282	503.2
## 1990.4264	392.6	320.3	464.9	282	503.2
## 1990.4292	392.6	320.3	464.9	282	503.2
## 1990.4319	392.6	320.3	464.9	282	503.2
## 1990.4346	392.6	320.3	464.9	282	503.2
## 1990.4374	392.6	320.3	464.9	282	503.2
## 1990.4401	392.6	320.3	464.9	282	503.2
## 1990.4428	392.6	320.3	464.9	282	503.2
## 1990.4456	392.6	320.3	464.9	282	503.2
## 1990.4483	392.6	320.3	464.9	282	503.2
## 1990.4511	392.6	320.3	464.9	282	503.2
## 1990.4538	392.6	320.3	464.9	282	503.2
## 1990.4565	392.6	320.3	464.9	282	503.2
## 1990.4593	392.6	320.3	464.9	282	503.2
## 1990.4620	392.6	320.3	464.9	282	503.2
## 1990.4648	392.6	320.3	464.9	282	503.2
## 1990.4675	392.6	320.3	464.9	282	503.2
## 1990.4702	392.6	320.3	464.9	282	503.2
## 1990.4730	392.6	320.3	464.9	282	503.2
## 1990.4757	392.6	320.3	464.9	282	503.2
## 1990.4784	392.6	320.3	464.9	282	503.2
## 1990.4812	392.6	320.3	464.9	282	503.2
## 1990.4839	392.6	320.3	464.9	282	503.2
## 1990.4867	392.6	320.3	464.9	282	503.2
## 1990.4894	392.6	320.3	464.9	282	503.2
## 1990.4921	392.6	320.3	464.9	282	503.2
## 1990.4949	392.6	320.3	464.9	282	503.2
## 1990.4976	392.6	320.3	464.9	282	503.2
## 1990.5003	392.6	320.3	464.9	282	503.2
## 1990.5031	392.6	320.3	464.9	282	503.2
## 1990.5058	392.6	320.3	464.9	282	503.2
## 1990.5086	392.6	320.3	464.9	282	503.2
## 1990.5113	392.6	320.3	464.9	282	503.2
## 1990.5140	392.6	320.3	464.9	282	503.2
## 1990.5168	392.6	320.3	464.9	282	503.2

## 1990.5195	392.6	320.3	464.9	282	503.2
## 1990.5222	392.6	320.3	464.9	282	503.2
## 1990.5250	392.6	320.3	464.9	282	503.2
## 1990.5277	392.6	320.3	464.9	282	503.2
## 1990.5305	392.6	320.3	464.9	282	503.2
## 1990.5332	392.6	320.3	464.9	282	503.2
## 1990.5359	392.6	320.3	464.9	282	503.2
## 1990.5387	392.6	320.3	464.9	282	503.2
## 1990.5414	392.6	320.3	464.9	282	503.2
## 1990.5441	392.6	320.3	464.9	282	503.2
## 1990.5469	392.6	320.3	464.9	282	503.2
## 1990.5496	392.6	320.3	464.9	282	503.2
## 1990.5524	392.6	320.3	464.9	282	503.2
## 1990.5551	392.6	320.3	464.9	282	503.2
## 1990.5578	392.6	320.3	464.9	282	503.2
## 1990.5606	392.6	320.3	464.9	282	503.2
## 1990.5633	392.6	320.3	464.9	282	503.2
## 1990.5661	392.6	320.3	464.9	282	503.2
## 1990.5688	392.6	320.3	464.9	282	503.2
## 1990.5715	392.6	320.3	464.9	282	503.2
## 1990.5743	392.6	320.3	464.9	282	503.2
## 1990.5770	392.6	320.3	464.9	282	503.2
## 1990.5797	392.6	320.3	464.9	282	503.2
## 1990.5825	392.6	320.3	464.9	282	503.2
## 1990.5852	392.6	320.3	464.9	282	503.2
## 1990.5880	392.6	320.3	464.9	282	503.2
## 1990.5907	392.6	320.3	464.9	282	503.2
## 1990.5934	392.6	320.3	464.9	282	503.2
## 1990.5962	392.6	320.3	464.9	282	503.2
## 1990.5989	392.6	320.3	464.9	282	503.2
## 1990.6016	392.6	320.3	464.9	282	503.2
## 1990.6044	392.6	320.3	464.9	282	503.2
## 1990.6071	392.6	320.3	464.9	282	503.2
## 1990.6099	392.6	320.3	464.9	282	503.2
## 1990.6126	392.6	320.3	464.9	282	503.2
## 1990.6153	392.6	320.3	464.9	282	503.2
## 1990.6181	392.6	320.3	464.9	282	503.2
## 1990.6208	392.6	320.3	464.9	282	503.2
## 1990.6235	392.6	320.3	464.9	282	503.2
## 1990.6263	392.6	320.3	464.9	282	503.2
## 1990.6290	392.6	320.3	464.9	282	503.2
## 1990.6318	392.6	320.3	464.9	282	503.2
## 1990.6345	392.6	320.3	464.9	282	503.2
## 1990.6372	392.6	320.3	464.9	282	503.2
## 1990.6400	392.6	320.3	464.9	282	503.2
## 1990.6427	392.6	320.3	464.9	282	503.2
## 1990.6454	392.6	320.3	464.9	282	503.2
## 1990.6482	392.6	320.3	464.9	282	503.2
## 1990.6509	392.6	320.3	464.9	282	503.2
## 1990.6537	392.6	320.3	464.9	282	503.2
## 1990.6564	392.6	320.3	464.9	282	503.2
## 1990.6591	392.6	320.3	464.9	282	503.2

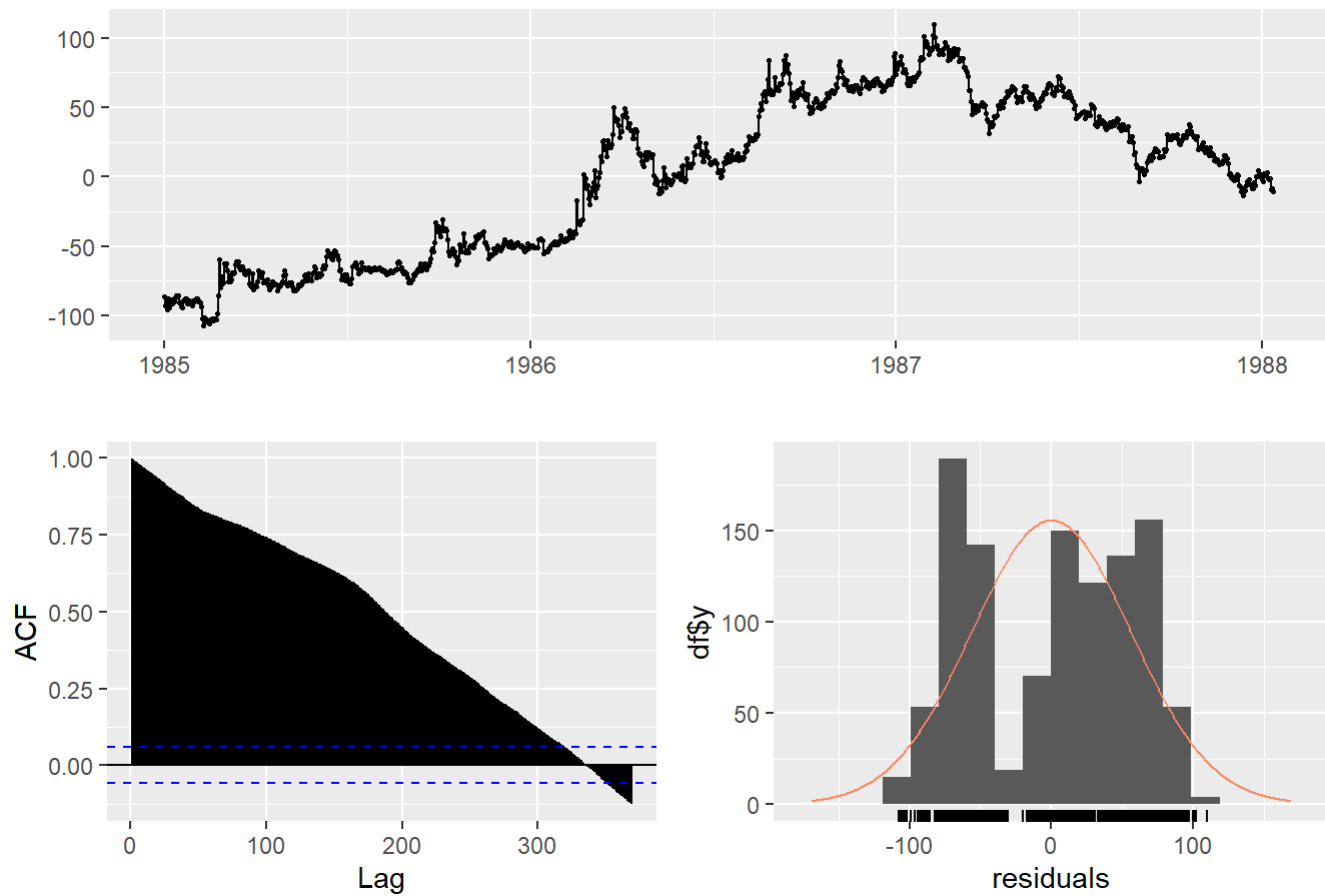
## 1990.6619	392.6	320.3	464.9	282	503.2
## 1990.6646	392.6	320.3	464.9	282	503.2
## 1990.6674	392.6	320.3	464.9	282	503.2
## 1990.6701	392.6	320.3	464.9	282	503.2
## 1990.6728	392.6	320.3	464.9	282	503.2
## 1990.6756	392.6	320.3	464.9	282	503.2
## 1990.6783	392.6	320.3	464.9	282	503.2
## 1990.6810	392.6	320.3	464.9	282	503.2
## 1990.6838	392.6	320.3	464.9	282	503.2
## 1990.6865	392.6	320.3	464.9	282	503.2
## 1990.6893	392.6	320.3	464.9	282	503.2
## 1990.6920	392.6	320.3	464.9	282	503.2
## 1990.6947	392.6	320.3	464.9	282	503.2
## 1990.6975	392.6	320.3	464.9	282	503.2
## 1990.7002	392.6	320.3	464.9	282	503.2
## 1990.7029	392.6	320.3	464.9	282	503.2
## 1990.7057	392.6	320.3	464.9	282	503.2
## 1990.7084	392.6	320.3	464.9	282	503.2
## 1990.7112	392.6	320.3	464.9	282	503.2
## 1990.7139	392.6	320.3	464.9	282	503.2
## 1990.7166	392.6	320.3	464.9	282	503.2
## 1990.7194	392.6	320.3	464.9	282	503.2
## 1990.7221	392.6	320.3	464.9	282	503.2
## 1990.7248	392.6	320.3	464.9	282	503.2
## 1990.7276	392.6	320.3	464.9	282	503.2
## 1990.7303	392.6	320.3	464.9	282	503.2
## 1990.7331	392.6	320.3	464.9	282	503.2
## 1990.7358	392.6	320.3	464.9	282	503.2
## 1990.7385	392.6	320.3	464.9	282	503.2
## 1990.7413	392.6	320.3	464.9	282	503.2
## 1990.7440	392.6	320.3	464.9	282	503.2
## 1990.7467	392.6	320.3	464.9	282	503.2
## 1990.7495	392.6	320.3	464.9	282	503.2
## 1990.7522	392.6	320.3	464.9	282	503.2
## 1990.7550	392.6	320.3	464.9	282	503.2
## 1990.7577	392.6	320.3	464.9	282	503.2
## 1990.7604	392.6	320.3	464.9	282	503.2
## 1990.7632	392.6	320.3	464.9	282	503.2
## 1990.7659	392.6	320.3	464.9	282	503.2
## 1990.7687	392.6	320.3	464.9	282	503.2
## 1990.7714	392.6	320.3	464.9	282	503.2
## 1990.7741	392.6	320.3	464.9	282	503.2
## 1990.7769	392.6	320.3	464.9	282	503.2
## 1990.7796	392.6	320.3	464.9	282	503.2
## 1990.7823	392.6	320.3	464.9	282	503.2
## 1990.7851	392.6	320.3	464.9	282	503.2
## 1990.7878	392.6	320.3	464.9	282	503.2
## 1990.7906	392.6	320.3	464.9	282	503.2
## 1990.7933	392.6	320.3	464.9	282	503.2
## 1990.7960	392.6	320.3	464.9	282	503.2
## 1990.7988	392.6	320.3	464.9	282	503.2
## 1990.8015	392.6	320.3	464.9	282	503.2

## 1990.8042	392.6	320.3	464.9	282	503.2
## 1990.8070	392.6	320.3	464.9	282	503.2
## 1990.8097	392.6	320.3	464.9	282	503.2
## 1990.8125	392.6	320.3	464.9	282	503.2
## 1990.8152	392.6	320.3	464.9	282	503.2
## 1990.8179	392.6	320.3	464.9	282	503.2
## 1990.8207	392.6	320.3	464.9	282	503.2
## 1990.8234	392.6	320.3	464.9	282	503.2
## 1990.8261	392.6	320.3	464.9	282	503.2
## 1990.8289	392.6	320.3	464.9	282	503.2
## 1990.8316	392.6	320.3	464.9	282	503.2
## 1990.8344	392.6	320.3	464.9	282	503.2
## 1990.8371	392.6	320.3	464.9	282	503.2
## 1990.8398	392.6	320.3	464.9	282	503.2
## 1990.8426	392.6	320.3	464.9	282	503.2
## 1990.8453	392.6	320.3	464.9	282	503.2
## 1990.8480	392.6	320.3	464.9	282	503.2
## 1990.8508	392.6	320.3	464.9	282	503.2
## 1990.8535	392.6	320.3	464.9	282	503.2
## 1990.8563	392.6	320.3	464.9	282	503.2
## 1990.8590	392.6	320.3	464.9	282	503.2
## 1990.8617	392.6	320.3	464.9	282	503.2
## 1990.8645	392.6	320.3	464.9	282	503.2
## 1990.8672	392.6	320.3	464.9	282	503.2
## 1990.8700	392.6	320.3	464.9	282	503.2
## 1990.8727	392.6	320.3	464.9	282	503.2
## 1990.8754	392.6	320.3	464.9	282	503.2
## 1990.8782	392.6	320.3	464.9	282	503.2
## 1990.8809	392.6	320.3	464.9	282	503.2
## 1990.8836	392.6	320.3	464.9	282	503.2
## 1990.8864	392.6	320.3	464.9	282	503.2
## 1990.8891	392.6	320.3	464.9	282	503.2
## 1990.8919	392.6	320.3	464.9	282	503.2
## 1990.8946	392.6	320.3	464.9	282	503.2
## 1990.8973	392.6	320.3	464.9	282	503.2
## 1990.9001	392.6	320.3	464.9	282	503.2
## 1990.9028	392.6	320.3	464.9	282	503.2
## 1990.9055	392.6	320.3	464.9	282	503.2
## 1990.9083	392.6	320.3	464.9	282	503.2
## 1990.9110	392.6	320.3	464.9	282	503.2
## 1990.9138	392.6	320.3	464.9	282	503.2
## 1990.9165	392.6	320.3	464.9	282	503.2
## 1990.9192	392.6	320.3	464.9	282	503.2
## 1990.9220	392.6	320.3	464.9	282	503.2
## 1990.9247	392.6	320.3	464.9	282	503.2
## 1990.9274	392.6	320.3	464.9	282	503.2
## 1990.9302	392.6	320.3	464.9	282	503.2
## 1990.9329	392.6	320.3	464.9	282	503.2
## 1990.9357	392.6	320.3	464.9	282	503.2
## 1990.9384	392.6	320.3	464.9	282	503.2
## 1990.9411	392.6	320.3	464.9	282	503.2
## 1990.9439	392.6	320.3	464.9	282	503.2

## 1990.9466	392.6	320.3	464.9	282	503.2
## 1990.9493	392.6	320.3	464.9	282	503.2
## 1990.9521	392.6	320.3	464.9	282	503.2
## 1990.9548	392.6	320.3	464.9	282	503.2
## 1990.9576	392.6	320.3	464.9	282	503.2
## 1990.9603	392.6	320.3	464.9	282	503.2
## 1990.9630	392.6	320.3	464.9	282	503.2
## 1990.9658	392.6	320.3	464.9	282	503.2
## 1990.9685	392.6	320.3	464.9	282	503.2
## 1990.9713	392.6	320.3	464.9	282	503.2
## 1990.9740	392.6	320.3	464.9	282	503.2
## 1990.9767	392.6	320.3	464.9	282	503.2
## 1990.9795	392.6	320.3	464.9	282	503.2
## 1990.9822	392.6	320.3	464.9	282	503.2
## 1990.9849	392.6	320.3	464.9	282	503.2
## 1990.9877	392.6	320.3	464.9	282	503.2
## 1990.9904	392.6	320.3	464.9	282	503.2
## 1990.9932	392.6	320.3	464.9	282	503.2
## 1990.9959	392.6	320.3	464.9	282	503.2
## 1990.9986	392.6	320.3	464.9	282	503.2
## 1991.0014	392.6	320.3	464.9	282	503.2
## 1991.0041	392.6	320.3	464.9	282	503.2
## 1991.0068	392.6	320.3	464.9	282	503.2
## 1991.0096	392.6	320.3	464.9	282	503.2
## 1991.0123	392.6	320.3	464.9	282	503.2
## 1991.0151	392.6	320.3	464.9	282	503.2
## 1991.0178	392.6	320.3	464.9	282	503.2
## 1991.0205	392.6	320.3	464.9	282	503.2
## 1991.0233	392.6	320.3	464.9	282	503.2
## 1991.0260	392.6	320.3	464.9	282	503.2
## 1991.0287	392.6	320.3	464.9	282	503.2

```
checkresiduals(meanFoo)
```

Residuals from Mean



```
##
##  Ljung-Box test
##
## data:  Residuals from Mean
## Q* = 139201, df = 221, p-value <0.0000000000000002
##
## Model df: 1.   Total lags used: 222
```

```
print(summary(naiveFF))
```

```
##
## Forecast method: Naive method
##
## Model Information:
## Call: naive(y = data_clean, h = 365 * 3)
##
## Residual sd: 4.3728
##
## Error measures:
##           ME  RMSE  MAE      MPE  MAPE  MASE  ACF1
## Training set 0.0687 4.373 2.967 0.01372 0.7569 0.03974 -0.1466
##
## Forecasts:
##           Point Forecast Lo 80 Hi 80  Lo 95 Hi 95
## 1988.0335           382.3 376.7 387.9 373.73 390.9
## 1988.0363           382.3 374.4 390.2 370.18 394.4
## 1988.0390           382.3 372.6 392.0 367.46 397.1
## 1988.0418           382.3 371.1 393.5 365.16 399.4
## 1988.0445           382.3 369.8 394.8 363.14 401.5
## 1988.0472           382.3 368.6 396.0 361.31 403.3
## 1988.0500           382.3 367.5 397.1 359.62 405.0
## 1988.0527           382.3 366.4 398.2 358.06 406.5
## 1988.0554           382.3 365.5 399.1 356.59 408.0
## 1988.0582           382.3 364.6 400.0 355.20 409.4
## 1988.0609           382.3 363.7 400.9 353.87 410.7
## 1988.0637           382.3 362.9 401.7 352.61 412.0
## 1988.0664           382.3 362.1 402.5 351.40 413.2
## 1988.0691           382.3 361.3 403.3 350.23 414.4
## 1988.0719           382.3 360.6 404.0 349.11 415.5
## 1988.0746           382.3 359.9 404.7 348.02 416.6
## 1988.0773           382.3 359.2 405.4 346.96 417.6
## 1988.0801           382.3 358.5 406.1 345.94 418.7
## 1988.0828           382.3 357.9 406.7 344.94 419.7
## 1988.0856           382.3 357.2 407.4 343.97 420.6
## 1988.0883           382.3 356.6 408.0 343.02 421.6
## 1988.0910           382.3 356.0 408.6 342.10 422.5
## 1988.0938           382.3 355.4 409.2 341.20 423.4
## 1988.0965           382.3 354.8 409.8 340.31 424.3
## 1988.0992           382.3 354.3 410.3 339.45 425.2
## 1988.1020           382.3 353.7 410.9 338.60 426.0
## 1988.1047           382.3 353.2 411.4 337.77 426.8
## 1988.1075           382.3 352.6 412.0 336.95 427.7
## 1988.1102           382.3 352.1 412.5 336.15 428.5
## 1988.1129           382.3 351.6 413.0 335.36 429.2
## 1988.1157           382.3 351.1 413.5 334.58 430.0
## 1988.1184           382.3 350.6 414.0 333.82 430.8
## 1988.1211           382.3 350.1 414.5 333.07 431.5
## 1988.1239           382.3 349.6 415.0 332.33 432.3
## 1988.1266           382.3 349.1 415.5 331.60 433.0
## 1988.1294           382.3 348.7 415.9 330.88 433.7
## 1988.1321           382.3 348.2 416.4 330.17 434.4
## 1988.1348           382.3 347.8 416.8 329.47 435.1
```

## 1988.1376	382.3	347.3	417.3	328.78	435.8
## 1988.1403	382.3	346.9	417.7	328.10	436.5
## 1988.1431	382.3	346.4	418.2	327.42	437.2
## 1988.1458	382.3	346.0	418.6	326.76	437.8
## 1988.1485	382.3	345.6	419.0	326.10	438.5
## 1988.1513	382.3	345.1	419.5	325.45	439.2
## 1988.1540	382.3	344.7	419.9	324.81	439.8
## 1988.1567	382.3	344.3	420.3	324.17	440.4
## 1988.1595	382.3	343.9	420.7	323.54	441.1
## 1988.1622	382.3	343.5	421.1	322.92	441.7
## 1988.1650	382.3	343.1	421.5	322.31	442.3
## 1988.1677	382.3	342.7	421.9	321.70	442.9
## 1988.1704	382.3	342.3	422.3	321.09	443.5
## 1988.1732	382.3	341.9	422.7	320.50	444.1
## 1988.1759	382.3	341.5	423.1	319.91	444.7
## 1988.1786	382.3	341.1	423.5	319.32	445.3
## 1988.1814	382.3	340.7	423.9	318.74	445.9
## 1988.1841	382.3	340.4	424.2	318.16	446.4
## 1988.1869	382.3	340.0	424.6	317.59	447.0
## 1988.1896	382.3	339.6	425.0	317.03	447.6
## 1988.1923	382.3	339.3	425.3	316.47	448.1
## 1988.1951	382.3	338.9	425.7	315.91	448.7
## 1988.1978	382.3	338.5	426.1	315.36	449.2
## 1988.2005	382.3	338.2	426.4	314.82	449.8
## 1988.2033	382.3	337.8	426.8	314.27	450.3
## 1988.2060	382.3	337.5	427.1	313.74	450.9
## 1988.2088	382.3	337.1	427.5	313.20	451.4
## 1988.2115	382.3	336.8	427.8	312.67	451.9
## 1988.2142	382.3	336.4	428.2	312.15	452.5
## 1988.2170	382.3	336.1	428.5	311.63	453.0
## 1988.2197	382.3	335.7	428.9	311.11	453.5
## 1988.2225	382.3	335.4	429.2	310.59	454.0
## 1988.2252	382.3	335.1	429.5	310.08	454.5
## 1988.2279	382.3	334.7	429.9	309.58	455.0
## 1988.2307	382.3	334.4	430.2	309.07	455.5
## 1988.2334	382.3	334.1	430.5	308.57	456.0
## 1988.2361	382.3	333.8	430.8	308.08	456.5
## 1988.2389	382.3	333.4	431.2	307.58	457.0
## 1988.2416	382.3	333.1	431.5	307.09	457.5
## 1988.2444	382.3	332.8	431.8	306.61	458.0
## 1988.2471	382.3	332.5	432.1	306.12	458.5
## 1988.2498	382.3	332.2	432.4	305.64	459.0
## 1988.2526	382.3	331.9	432.7	305.17	459.4
## 1988.2553	382.3	331.6	433.0	304.69	459.9
## 1988.2580	382.3	331.2	433.4	304.22	460.4
## 1988.2608	382.3	330.9	433.7	303.75	460.9
## 1988.2635	382.3	330.6	434.0	303.28	461.3
## 1988.2663	382.3	330.3	434.3	302.82	461.8
## 1988.2690	382.3	330.0	434.6	302.36	462.2
## 1988.2717	382.3	329.7	434.9	301.90	462.7
## 1988.2745	382.3	329.4	435.2	301.45	463.2
## 1988.2772	382.3	329.1	435.5	300.99	463.6

## 1988.2799	382.3	328.8	435.8	300.54	464.1
## 1988.2827	382.3	328.5	436.1	300.09	464.5
## 1988.2854	382.3	328.3	436.3	299.65	465.0
## 1988.2882	382.3	328.0	436.6	299.21	465.4
## 1988.2909	382.3	327.7	436.9	298.76	465.8
## 1988.2936	382.3	327.4	437.2	298.33	466.3
## 1988.2964	382.3	327.1	437.5	297.89	466.7
## 1988.2991	382.3	326.8	437.8	297.46	467.1
## 1988.3018	382.3	326.5	438.1	297.02	467.6
## 1988.3046	382.3	326.3	438.3	296.59	468.0
## 1988.3073	382.3	326.0	438.6	296.17	468.4
## 1988.3101	382.3	325.7	438.9	295.74	468.9
## 1988.3128	382.3	325.4	439.2	295.32	469.3
## 1988.3155	382.3	325.2	439.4	294.90	469.7
## 1988.3183	382.3	324.9	439.7	294.48	470.1
## 1988.3210	382.3	324.6	440.0	294.06	470.5
## 1988.3238	382.3	324.3	440.3	293.65	471.0
## 1988.3265	382.3	324.1	440.5	293.23	471.4
## 1988.3292	382.3	323.8	440.8	292.82	471.8
## 1988.3320	382.3	323.5	441.1	292.41	472.2
## 1988.3347	382.3	323.3	441.3	292.00	472.6
## 1988.3374	382.3	323.0	441.6	291.60	473.0
## 1988.3402	382.3	322.7	441.9	291.19	473.4
## 1988.3429	382.3	322.5	442.1	290.79	473.8
## 1988.3457	382.3	322.2	442.4	290.39	474.2
## 1988.3484	382.3	321.9	442.7	289.99	474.6
## 1988.3511	382.3	321.7	442.9	289.60	475.0
## 1988.3539	382.3	321.4	443.2	289.20	475.4
## 1988.3566	382.3	321.2	443.4	288.81	475.8
## 1988.3593	382.3	320.9	443.7	288.41	476.2
## 1988.3621	382.3	320.7	443.9	288.02	476.6
## 1988.3648	382.3	320.4	444.2	287.64	477.0
## 1988.3676	382.3	320.1	444.5	287.25	477.4
## 1988.3703	382.3	319.9	444.7	286.86	477.7
## 1988.3730	382.3	319.6	445.0	286.48	478.1
## 1988.3758	382.3	319.4	445.2	286.10	478.5
## 1988.3785	382.3	319.1	445.5	285.72	478.9
## 1988.3812	382.3	318.9	445.7	285.34	479.3
## 1988.3840	382.3	318.7	445.9	284.96	479.6
## 1988.3867	382.3	318.4	446.2	284.58	480.0
## 1988.3895	382.3	318.2	446.4	284.21	480.4
## 1988.3922	382.3	317.9	446.7	283.83	480.8
## 1988.3949	382.3	317.7	446.9	283.46	481.1
## 1988.3977	382.3	317.4	447.2	283.09	481.5
## 1988.4004	382.3	317.2	447.4	282.72	481.9
## 1988.4031	382.3	316.9	447.7	282.35	482.2
## 1988.4059	382.3	316.7	447.9	281.98	482.6
## 1988.4086	382.3	316.5	448.1	281.62	483.0
## 1988.4114	382.3	316.2	448.4	281.26	483.3
## 1988.4141	382.3	316.0	448.6	280.89	483.7
## 1988.4168	382.3	315.8	448.8	280.53	484.1
## 1988.4196	382.3	315.5	449.1	280.17	484.4

## 1988.4223	382.3	315.3	449.3	279.81	484.8
## 1988.4251	382.3	315.1	449.5	279.45	485.1
## 1988.4278	382.3	314.8	449.8	279.10	485.5
## 1988.4305	382.3	314.6	450.0	278.74	485.9
## 1988.4333	382.3	314.4	450.2	278.39	486.2
## 1988.4360	382.3	314.1	450.5	278.04	486.6
## 1988.4387	382.3	313.9	450.7	277.68	486.9
## 1988.4415	382.3	313.7	450.9	277.33	487.3
## 1988.4442	382.3	313.4	451.2	276.98	487.6
## 1988.4470	382.3	313.2	451.4	276.64	488.0
## 1988.4497	382.3	313.0	451.6	276.29	488.3
## 1988.4524	382.3	312.8	451.8	275.94	488.7
## 1988.4552	382.3	312.5	452.1	275.60	489.0
## 1988.4579	382.3	312.3	452.3	275.25	489.3
## 1988.4606	382.3	312.1	452.5	274.91	489.7
## 1988.4634	382.3	311.9	452.7	274.57	490.0
## 1988.4661	382.3	311.6	453.0	274.23	490.4
## 1988.4689	382.3	311.4	453.2	273.89	490.7
## 1988.4716	382.3	311.2	453.4	273.55	491.0
## 1988.4743	382.3	311.0	453.6	273.22	491.4
## 1988.4771	382.3	310.8	453.8	272.88	491.7
## 1988.4798	382.3	310.5	454.1	272.54	492.1
## 1988.4825	382.3	310.3	454.3	272.21	492.4
## 1988.4853	382.3	310.1	454.5	271.88	492.7
## 1988.4880	382.3	309.9	454.7	271.54	493.1
## 1988.4908	382.3	309.7	454.9	271.21	493.4
## 1988.4935	382.3	309.4	455.2	270.88	493.7
## 1988.4962	382.3	309.2	455.4	270.55	494.0
## 1988.4990	382.3	309.0	455.6	270.23	494.4
## 1988.5017	382.3	308.8	455.8	269.90	494.7
## 1988.5044	382.3	308.6	456.0	269.57	495.0
## 1988.5072	382.3	308.4	456.2	269.25	495.4
## 1988.5099	382.3	308.2	456.4	268.92	495.7
## 1988.5127	382.3	308.0	456.6	268.60	496.0
## 1988.5154	382.3	307.7	456.9	268.28	496.3
## 1988.5181	382.3	307.5	457.1	267.95	496.6
## 1988.5209	382.3	307.3	457.3	267.63	497.0
## 1988.5236	382.3	307.1	457.5	267.31	497.3
## 1988.5264	382.3	306.9	457.7	267.00	497.6
## 1988.5291	382.3	306.7	457.9	266.68	497.9
## 1988.5318	382.3	306.5	458.1	266.36	498.2
## 1988.5346	382.3	306.3	458.3	266.04	498.6
## 1988.5373	382.3	306.1	458.5	265.73	498.9
## 1988.5400	382.3	305.9	458.7	265.41	499.2
## 1988.5428	382.3	305.7	458.9	265.10	499.5
## 1988.5455	382.3	305.5	459.1	264.79	499.8
## 1988.5483	382.3	305.3	459.3	264.47	500.1
## 1988.5510	382.3	305.1	459.5	264.16	500.4
## 1988.5537	382.3	304.9	459.7	263.85	500.7
## 1988.5565	382.3	304.6	460.0	263.54	501.1
## 1988.5592	382.3	304.4	460.2	263.23	501.4
## 1988.5619	382.3	304.2	460.4	262.93	501.7

## 1988.5647	382.3	304.0	460.6	262.62	502.0
## 1988.5674	382.3	303.8	460.8	262.31	502.3
## 1988.5702	382.3	303.6	461.0	262.01	502.6
## 1988.5729	382.3	303.4	461.2	261.70	502.9
## 1988.5756	382.3	303.2	461.4	261.40	503.2
## 1988.5784	382.3	303.0	461.6	261.09	503.5
## 1988.5811	382.3	302.9	461.7	260.79	503.8
## 1988.5838	382.3	302.7	461.9	260.49	504.1
## 1988.5866	382.3	302.5	462.1	260.19	504.4
## 1988.5893	382.3	302.3	462.3	259.89	504.7
## 1988.5921	382.3	302.1	462.5	259.59	505.0
## 1988.5948	382.3	301.9	462.7	259.29	505.3
## 1988.5975	382.3	301.7	462.9	258.99	505.6
## 1988.6003	382.3	301.5	463.1	258.69	505.9
## 1988.6030	382.3	301.3	463.3	258.40	506.2
## 1988.6057	382.3	301.1	463.5	258.10	506.5
## 1988.6085	382.3	300.9	463.7	257.81	506.8
## 1988.6112	382.3	300.7	463.9	257.51	507.1
## 1988.6140	382.3	300.5	464.1	257.22	507.4
## 1988.6167	382.3	300.3	464.3	256.92	507.7
## 1988.6194	382.3	300.1	464.5	256.63	508.0
## 1988.6222	382.3	299.9	464.7	256.34	508.3
## 1988.6249	382.3	299.7	464.9	256.05	508.6
## 1988.6277	382.3	299.6	465.0	255.76	508.8
## 1988.6304	382.3	299.4	465.2	255.47	509.1
## 1988.6331	382.3	299.2	465.4	255.18	509.4
## 1988.6359	382.3	299.0	465.6	254.89	509.7
## 1988.6386	382.3	298.8	465.8	254.60	510.0
## 1988.6413	382.3	298.6	466.0	254.31	510.3
## 1988.6441	382.3	298.4	466.2	254.03	510.6
## 1988.6468	382.3	298.2	466.4	253.74	510.9
## 1988.6496	382.3	298.1	466.5	253.46	511.1
## 1988.6523	382.3	297.9	466.7	253.17	511.4
## 1988.6550	382.3	297.7	466.9	252.89	511.7
## 1988.6578	382.3	297.5	467.1	252.60	512.0
## 1988.6605	382.3	297.3	467.3	252.32	512.3
## 1988.6632	382.3	297.1	467.5	252.04	512.6
## 1988.6660	382.3	296.9	467.7	251.76	512.8
## 1988.6687	382.3	296.8	467.8	251.48	513.1
## 1988.6715	382.3	296.6	468.0	251.20	513.4
## 1988.6742	382.3	296.4	468.2	250.92	513.7
## 1988.6769	382.3	296.2	468.4	250.64	514.0
## 1988.6797	382.3	296.0	468.6	250.36	514.2
## 1988.6824	382.3	295.8	468.8	250.08	514.5
## 1988.6851	382.3	295.7	468.9	249.80	514.8
## 1988.6879	382.3	295.5	469.1	249.53	515.1
## 1988.6906	382.3	295.3	469.3	249.25	515.4
## 1988.6934	382.3	295.1	469.5	248.97	515.6
## 1988.6961	382.3	294.9	469.7	248.70	515.9
## 1988.6988	382.3	294.8	469.8	248.42	516.2
## 1988.7016	382.3	294.6	470.0	248.15	516.4
## 1988.7043	382.3	294.4	470.2	247.88	516.7

## 1988.7070	382.3	294.2	470.4	247.60	517.0
## 1988.7098	382.3	294.0	470.6	247.33	517.3
## 1988.7125	382.3	293.9	470.7	247.06	517.5
## 1988.7153	382.3	293.7	470.9	246.79	517.8
## 1988.7180	382.3	293.5	471.1	246.52	518.1
## 1988.7207	382.3	293.3	471.3	246.25	518.4
## 1988.7235	382.3	293.2	471.4	245.98	518.6
## 1988.7262	382.3	293.0	471.6	245.71	518.9
## 1988.7290	382.3	292.8	471.8	245.44	519.2
## 1988.7317	382.3	292.6	472.0	245.17	519.4
## 1988.7344	382.3	292.5	472.1	244.90	519.7
## 1988.7372	382.3	292.3	472.3	244.64	520.0
## 1988.7399	382.3	292.1	472.5	244.37	520.2
## 1988.7426	382.3	291.9	472.7	244.10	520.5
## 1988.7454	382.3	291.8	472.8	243.84	520.8
## 1988.7481	382.3	291.6	473.0	243.57	521.0
## 1988.7509	382.3	291.4	473.2	243.31	521.3
## 1988.7536	382.3	291.2	473.4	243.05	521.6
## 1988.7563	382.3	291.1	473.5	242.78	521.8
## 1988.7591	382.3	290.9	473.7	242.52	522.1
## 1988.7618	382.3	290.7	473.9	242.26	522.3
## 1988.7645	382.3	290.6	474.0	241.99	522.6
## 1988.7673	382.3	290.4	474.2	241.73	522.9
## 1988.7700	382.3	290.2	474.4	241.47	523.1
## 1988.7728	382.3	290.0	474.6	241.21	523.4
## 1988.7755	382.3	289.9	474.7	240.95	523.6
## 1988.7782	382.3	289.7	474.9	240.69	523.9
## 1988.7810	382.3	289.5	475.1	240.43	524.2
## 1988.7837	382.3	289.4	475.2	240.17	524.4
## 1988.7864	382.3	289.2	475.4	239.92	524.7
## 1988.7892	382.3	289.0	475.6	239.66	524.9
## 1988.7919	382.3	288.9	475.7	239.40	525.2
## 1988.7947	382.3	288.7	475.9	239.14	525.5
## 1988.7974	382.3	288.5	476.1	238.89	525.7
## 1988.8001	382.3	288.4	476.2	238.63	526.0
## 1988.8029	382.3	288.2	476.4	238.38	526.2
## 1988.8056	382.3	288.0	476.6	238.12	526.5
## 1988.8084	382.3	287.9	476.7	237.87	526.7
## 1988.8111	382.3	287.7	476.9	237.61	527.0
## 1988.8138	382.3	287.5	477.1	237.36	527.2
## 1988.8166	382.3	287.4	477.2	237.11	527.5
## 1988.8193	382.3	287.2	477.4	236.85	527.7
## 1988.8220	382.3	287.0	477.6	236.60	528.0
## 1988.8248	382.3	286.9	477.7	236.35	528.3
## 1988.8275	382.3	286.7	477.9	236.10	528.5
## 1988.8303	382.3	286.5	478.1	235.85	528.8
## 1988.8330	382.3	286.4	478.2	235.60	529.0
## 1988.8357	382.3	286.2	478.4	235.35	529.3
## 1988.8385	382.3	286.0	478.6	235.10	529.5
## 1988.8412	382.3	285.9	478.7	234.85	529.8
## 1988.8439	382.3	285.7	478.9	234.60	530.0
## 1988.8467	382.3	285.6	479.0	234.35	530.3

## 1988.8494	382.3	285.4	479.2	234.10	530.5
## 1988.8522	382.3	285.2	479.4	233.85	530.7
## 1988.8549	382.3	285.1	479.5	233.61	531.0
## 1988.8576	382.3	284.9	479.7	233.36	531.2
## 1988.8604	382.3	284.8	479.8	233.11	531.5
## 1988.8631	382.3	284.6	480.0	232.87	531.7
## 1988.8658	382.3	284.4	480.2	232.62	532.0
## 1988.8686	382.3	284.3	480.3	232.38	532.2
## 1988.8713	382.3	284.1	480.5	232.13	532.5
## 1988.8741	382.3	284.0	480.6	231.89	532.7
## 1988.8768	382.3	283.8	480.8	231.64	533.0
## 1988.8795	382.3	283.6	481.0	231.40	533.2
## 1988.8823	382.3	283.5	481.1	231.16	533.4
## 1988.8850	382.3	283.3	481.3	230.91	533.7
## 1988.8877	382.3	283.2	481.4	230.67	533.9
## 1988.8905	382.3	283.0	481.6	230.43	534.2
## 1988.8932	382.3	282.8	481.8	230.19	534.4
## 1988.8960	382.3	282.7	481.9	229.95	534.7
## 1988.8987	382.3	282.5	482.1	229.71	534.9
## 1988.9014	382.3	282.4	482.2	229.47	535.1
## 1988.9042	382.3	282.2	482.4	229.23	535.4
## 1988.9069	382.3	282.1	482.5	228.99	535.6
## 1988.9097	382.3	281.9	482.7	228.75	535.9
## 1988.9124	382.3	281.7	482.9	228.51	536.1
## 1988.9151	382.3	281.6	483.0	228.27	536.3
## 1988.9179	382.3	281.4	483.2	228.03	536.6
## 1988.9206	382.3	281.3	483.3	227.79	536.8
## 1988.9233	382.3	281.1	483.5	227.56	537.0
## 1988.9261	382.3	281.0	483.6	227.32	537.3
## 1988.9288	382.3	280.8	483.8	227.08	537.5
## 1988.9316	382.3	280.7	483.9	226.84	537.8
## 1988.9343	382.3	280.5	484.1	226.61	538.0
## 1988.9370	382.3	280.3	484.3	226.37	538.2
## 1988.9398	382.3	280.2	484.4	226.14	538.5
## 1988.9425	382.3	280.0	484.6	225.90	538.7
## 1988.9452	382.3	279.9	484.7	225.67	538.9
## 1988.9480	382.3	279.7	484.9	225.43	539.2
## 1988.9507	382.3	279.6	485.0	225.20	539.4
## 1988.9535	382.3	279.4	485.2	224.97	539.6
## 1988.9562	382.3	279.3	485.3	224.73	539.9
## 1988.9589	382.3	279.1	485.5	224.50	540.1
## 1988.9617	382.3	279.0	485.6	224.27	540.3
## 1988.9644	382.3	278.8	485.8	224.04	540.6
## 1988.9671	382.3	278.7	485.9	223.80	540.8
## 1988.9699	382.3	278.5	486.1	223.57	541.0
## 1988.9726	382.3	278.4	486.2	223.34	541.3
## 1988.9754	382.3	278.2	486.4	223.11	541.5
## 1988.9781	382.3	278.1	486.5	222.88	541.7
## 1988.9808	382.3	277.9	486.7	222.65	542.0
## 1988.9836	382.3	277.8	486.8	222.42	542.2
## 1988.9863	382.3	277.6	487.0	222.19	542.4
## 1988.9890	382.3	277.5	487.1	221.96	542.6

## 1988.9918	382.3	277.3	487.3	221.73	542.9
## 1988.9945	382.3	277.2	487.4	221.50	543.1
## 1988.9973	382.3	277.0	487.6	221.27	543.3
## 1989.0000	382.3	276.9	487.7	221.05	543.6
## 1989.0027	382.3	276.7	487.9	220.82	543.8
## 1989.0055	382.3	276.6	488.0	220.59	544.0
## 1989.0082	382.3	276.4	488.2	220.36	544.2
## 1989.0110	382.3	276.3	488.3	220.14	544.5
## 1989.0137	382.3	276.1	488.5	219.91	544.7
## 1989.0164	382.3	276.0	488.6	219.69	544.9
## 1989.0192	382.3	275.8	488.8	219.46	545.1
## 1989.0219	382.3	275.7	488.9	219.23	545.4
## 1989.0246	382.3	275.5	489.1	219.01	545.6
## 1989.0274	382.3	275.4	489.2	218.78	545.8
## 1989.0301	382.3	275.2	489.4	218.56	546.0
## 1989.0329	382.3	275.1	489.5	218.34	546.3
## 1989.0356	382.3	274.9	489.7	218.11	546.5
## 1989.0383	382.3	274.8	489.8	217.89	546.7
## 1989.0411	382.3	274.7	489.9	217.67	546.9
## 1989.0438	382.3	274.5	490.1	217.44	547.2
## 1989.0465	382.3	274.4	490.2	217.22	547.4
## 1989.0493	382.3	274.2	490.4	217.00	547.6
## 1989.0520	382.3	274.1	490.5	216.78	547.8
## 1989.0548	382.3	273.9	490.7	216.55	548.0
## 1989.0575	382.3	273.8	490.8	216.33	548.3
## 1989.0602	382.3	273.6	491.0	216.11	548.5
## 1989.0630	382.3	273.5	491.1	215.89	548.7
## 1989.0657	382.3	273.3	491.3	215.67	548.9
## 1989.0684	382.3	273.2	491.4	215.45	549.2
## 1989.0712	382.3	273.1	491.5	215.23	549.4
## 1989.0739	382.3	272.9	491.7	215.01	549.6
## 1989.0767	382.3	272.8	491.8	214.79	549.8
## 1989.0794	382.3	272.6	492.0	214.57	550.0
## 1989.0821	382.3	272.5	492.1	214.35	550.2
## 1989.0849	382.3	272.3	492.3	214.13	550.5
## 1989.0876	382.3	272.2	492.4	213.92	550.7
## 1989.0903	382.3	272.1	492.5	213.70	550.9
## 1989.0931	382.3	271.9	492.7	213.48	551.1
## 1989.0958	382.3	271.8	492.8	213.26	551.3
## 1989.0986	382.3	271.6	493.0	213.05	551.6
## 1989.1013	382.3	271.5	493.1	212.83	551.8
## 1989.1040	382.3	271.3	493.3	212.61	552.0
## 1989.1068	382.3	271.2	493.4	212.40	552.2
## 1989.1095	382.3	271.1	493.5	212.18	552.4
## 1989.1123	382.3	270.9	493.7	211.96	552.6
## 1989.1150	382.3	270.8	493.8	211.75	552.9
## 1989.1177	382.3	270.6	494.0	211.53	553.1
## 1989.1205	382.3	270.5	494.1	211.32	553.3
## 1989.1232	382.3	270.4	494.2	211.10	553.5
## 1989.1259	382.3	270.2	494.4	210.89	553.7
## 1989.1287	382.3	270.1	494.5	210.68	553.9
## 1989.1314	382.3	269.9	494.7	210.46	554.1

## 1989.1342	382.3	269.8	494.8	210.25	554.4
## 1989.1369	382.3	269.7	494.9	210.03	554.6
## 1989.1396	382.3	269.5	495.1	209.82	554.8
## 1989.1424	382.3	269.4	495.2	209.61	555.0
## 1989.1451	382.3	269.2	495.4	209.40	555.2
## 1989.1478	382.3	269.1	495.5	209.18	555.4
## 1989.1506	382.3	269.0	495.6	208.97	555.6
## 1989.1533	382.3	268.8	495.8	208.76	555.8
## 1989.1561	382.3	268.7	495.9	208.55	556.1
## 1989.1588	382.3	268.6	496.0	208.34	556.3
## 1989.1615	382.3	268.4	496.2	208.13	556.5
## 1989.1643	382.3	268.3	496.3	207.92	556.7
## 1989.1670	382.3	268.1	496.5	207.71	556.9
## 1989.1697	382.3	268.0	496.6	207.49	557.1
## 1989.1725	382.3	267.9	496.7	207.29	557.3
## 1989.1752	382.3	267.7	496.9	207.08	557.5
## 1989.1780	382.3	267.6	497.0	206.87	557.7
## 1989.1807	382.3	267.5	497.1	206.66	557.9
## 1989.1834	382.3	267.3	497.3	206.45	558.2
## 1989.1862	382.3	267.2	497.4	206.24	558.4
## 1989.1889	382.3	267.0	497.6	206.03	558.6
## 1989.1916	382.3	266.9	497.7	205.82	558.8
## 1989.1944	382.3	266.8	497.8	205.61	559.0
## 1989.1971	382.3	266.6	498.0	205.41	559.2
## 1989.1999	382.3	266.5	498.1	205.20	559.4
## 1989.2026	382.3	266.4	498.2	204.99	559.6
## 1989.2053	382.3	266.2	498.4	204.78	559.8
## 1989.2081	382.3	266.1	498.5	204.58	560.0
## 1989.2108	382.3	266.0	498.6	204.37	560.2
## 1989.2136	382.3	265.8	498.8	204.17	560.4
## 1989.2163	382.3	265.7	498.9	203.96	560.6
## 1989.2190	382.3	265.6	499.0	203.75	560.8
## 1989.2218	382.3	265.4	499.2	203.55	561.1
## 1989.2245	382.3	265.3	499.3	203.34	561.3
## 1989.2272	382.3	265.2	499.4	203.14	561.5
## 1989.2300	382.3	265.0	499.6	202.93	561.7
## 1989.2327	382.3	264.9	499.7	202.73	561.9
## 1989.2355	382.3	264.8	499.8	202.52	562.1
## 1989.2382	382.3	264.6	500.0	202.32	562.3
## 1989.2409	382.3	264.5	500.1	202.12	562.5
## 1989.2437	382.3	264.4	500.2	201.91	562.7
## 1989.2464	382.3	264.2	500.4	201.71	562.9
## 1989.2491	382.3	264.1	500.5	201.50	563.1
## 1989.2519	382.3	264.0	500.6	201.30	563.3
## 1989.2546	382.3	263.8	500.8	201.10	563.5
## 1989.2574	382.3	263.7	500.9	200.90	563.7
## 1989.2601	382.3	263.6	501.0	200.69	563.9
## 1989.2628	382.3	263.4	501.2	200.49	564.1
## 1989.2656	382.3	263.3	501.3	200.29	564.3
## 1989.2683	382.3	263.2	501.4	200.09	564.5
## 1989.2710	382.3	263.0	501.6	199.89	564.7
## 1989.2738	382.3	262.9	501.7	199.69	564.9

## 1989.2765	382.3	262.8	501.8	199.48	565.1
## 1989.2793	382.3	262.6	502.0	199.28	565.3
## 1989.2820	382.3	262.5	502.1	199.08	565.5
## 1989.2847	382.3	262.4	502.2	198.88	565.7
## 1989.2875	382.3	262.2	502.4	198.68	565.9
## 1989.2902	382.3	262.1	502.5	198.48	566.1
## 1989.2930	382.3	262.0	502.6	198.28	566.3
## 1989.2957	382.3	261.8	502.8	198.08	566.5
## 1989.2984	382.3	261.7	502.9	197.88	566.7
## 1989.3012	382.3	261.6	503.0	197.69	566.9
## 1989.3039	382.3	261.5	503.1	197.49	567.1
## 1989.3066	382.3	261.3	503.3	197.29	567.3
## 1989.3094	382.3	261.2	503.4	197.09	567.5
## 1989.3121	382.3	261.1	503.5	196.89	567.7
## 1989.3149	382.3	260.9	503.7	196.69	567.9
## 1989.3176	382.3	260.8	503.8	196.50	568.1
## 1989.3203	382.3	260.7	503.9	196.30	568.3
## 1989.3231	382.3	260.6	504.0	196.10	568.5
## 1989.3258	382.3	260.4	504.2	195.90	568.7
## 1989.3285	382.3	260.3	504.3	195.71	568.9
## 1989.3313	382.3	260.2	504.4	195.51	569.1
## 1989.3340	382.3	260.0	504.6	195.31	569.3
## 1989.3368	382.3	259.9	504.7	195.12	569.5
## 1989.3395	382.3	259.8	504.8	194.92	569.7
## 1989.3422	382.3	259.7	504.9	194.72	569.9
## 1989.3450	382.3	259.5	505.1	194.53	570.1
## 1989.3477	382.3	259.4	505.2	194.33	570.3
## 1989.3504	382.3	259.3	505.3	194.14	570.5
## 1989.3532	382.3	259.1	505.5	193.94	570.7
## 1989.3559	382.3	259.0	505.6	193.75	570.9
## 1989.3587	382.3	258.9	505.7	193.55	571.0
## 1989.3614	382.3	258.8	505.8	193.36	571.2
## 1989.3641	382.3	258.6	506.0	193.17	571.4
## 1989.3669	382.3	258.5	506.1	192.97	571.6
## 1989.3696	382.3	258.4	506.2	192.78	571.8
## 1989.3723	382.3	258.3	506.3	192.58	572.0
## 1989.3751	382.3	258.1	506.5	192.39	572.2
## 1989.3778	382.3	258.0	506.6	192.20	572.4
## 1989.3806	382.3	257.9	506.7	192.00	572.6
## 1989.3833	382.3	257.7	506.9	191.81	572.8
## 1989.3860	382.3	257.6	507.0	191.62	573.0
## 1989.3888	382.3	257.5	507.1	191.43	573.2
## 1989.3915	382.3	257.4	507.2	191.23	573.4
## 1989.3943	382.3	257.2	507.4	191.04	573.6
## 1989.3970	382.3	257.1	507.5	190.85	573.8
## 1989.3997	382.3	257.0	507.6	190.66	573.9
## 1989.4025	382.3	256.9	507.7	190.47	574.1
## 1989.4052	382.3	256.7	507.9	190.27	574.3
## 1989.4079	382.3	256.6	508.0	190.08	574.5
## 1989.4107	382.3	256.5	508.1	189.89	574.7
## 1989.4134	382.3	256.4	508.2	189.70	574.9
## 1989.4162	382.3	256.2	508.4	189.51	575.1

## 1989.4189	382.3	256.1	508.5	189.32	575.3
## 1989.4216	382.3	256.0	508.6	189.13	575.5
## 1989.4244	382.3	255.9	508.7	188.94	575.7
## 1989.4271	382.3	255.7	508.9	188.75	575.8
## 1989.4298	382.3	255.6	509.0	188.56	576.0
## 1989.4326	382.3	255.5	509.1	188.37	576.2
## 1989.4353	382.3	255.4	509.2	188.18	576.4
## 1989.4381	382.3	255.2	509.4	187.99	576.6
## 1989.4408	382.3	255.1	509.5	187.80	576.8
## 1989.4435	382.3	255.0	509.6	187.62	577.0
## 1989.4463	382.3	254.9	509.7	187.43	577.2
## 1989.4490	382.3	254.8	509.8	187.24	577.4
## 1989.4517	382.3	254.6	510.0	187.05	577.5
## 1989.4545	382.3	254.5	510.1	186.86	577.7
## 1989.4572	382.3	254.4	510.2	186.67	577.9
## 1989.4600	382.3	254.3	510.3	186.49	578.1
## 1989.4627	382.3	254.1	510.5	186.30	578.3
## 1989.4654	382.3	254.0	510.6	186.11	578.5
## 1989.4682	382.3	253.9	510.7	185.92	578.7
## 1989.4709	382.3	253.8	510.8	185.74	578.9
## 1989.4736	382.3	253.7	510.9	185.55	579.0
## 1989.4764	382.3	253.5	511.1	185.36	579.2
## 1989.4791	382.3	253.4	511.2	185.18	579.4
## 1989.4819	382.3	253.3	511.3	184.99	579.6
## 1989.4846	382.3	253.2	511.4	184.81	579.8
## 1989.4873	382.3	253.0	511.6	184.62	580.0
## 1989.4901	382.3	252.9	511.7	184.43	580.2
## 1989.4928	382.3	252.8	511.8	184.25	580.4
## 1989.4956	382.3	252.7	511.9	184.06	580.5
## 1989.4983	382.3	252.6	512.0	183.88	580.7
## 1989.5010	382.3	252.4	512.2	183.69	580.9
## 1989.5038	382.3	252.3	512.3	183.51	581.1
## 1989.5065	382.3	252.2	512.4	183.32	581.3
## 1989.5092	382.3	252.1	512.5	183.14	581.5
## 1989.5120	382.3	252.0	512.6	182.95	581.6
## 1989.5147	382.3	251.8	512.8	182.77	581.8
## 1989.5175	382.3	251.7	512.9	182.59	582.0
## 1989.5202	382.3	251.6	513.0	182.40	582.2
## 1989.5229	382.3	251.5	513.1	182.22	582.4
## 1989.5257	382.3	251.4	513.2	182.04	582.6
## 1989.5284	382.3	251.2	513.4	181.85	582.7
## 1989.5311	382.3	251.1	513.5	181.67	582.9
## 1989.5339	382.3	251.0	513.6	181.49	583.1
## 1989.5366	382.3	250.9	513.7	181.30	583.3
## 1989.5394	382.3	250.8	513.8	181.12	583.5
## 1989.5421	382.3	250.6	514.0	180.94	583.7
## 1989.5448	382.3	250.5	514.1	180.76	583.8
## 1989.5476	382.3	250.4	514.2	180.57	584.0
## 1989.5503	382.3	250.3	514.3	180.39	584.2
## 1989.5530	382.3	250.2	514.4	180.21	584.4
## 1989.5558	382.3	250.0	514.6	180.03	584.6
## 1989.5585	382.3	249.9	514.7	179.85	584.8

## 1989.5613	382.3	249.8	514.8	179.67	584.9
## 1989.5640	382.3	249.7	514.9	179.48	585.1
## 1989.5667	382.3	249.6	515.0	179.30	585.3
## 1989.5695	382.3	249.4	515.2	179.12	585.5
## 1989.5722	382.3	249.3	515.3	178.94	585.7
## 1989.5749	382.3	249.2	515.4	178.76	585.8
## 1989.5777	382.3	249.1	515.5	178.58	586.0
## 1989.5804	382.3	249.0	515.6	178.40	586.2
## 1989.5832	382.3	248.9	515.7	178.22	586.4
## 1989.5859	382.3	248.7	515.9	178.04	586.6
## 1989.5886	382.3	248.6	516.0	177.86	586.7
## 1989.5914	382.3	248.5	516.1	177.68	586.9
## 1989.5941	382.3	248.4	516.2	177.50	587.1
## 1989.5969	382.3	248.3	516.3	177.32	587.3
## 1989.5996	382.3	248.2	516.4	177.14	587.5
## 1989.6023	382.3	248.0	516.6	176.96	587.6
## 1989.6051	382.3	247.9	516.7	176.79	587.8
## 1989.6078	382.3	247.8	516.8	176.61	588.0
## 1989.6105	382.3	247.7	516.9	176.43	588.2
## 1989.6133	382.3	247.6	517.0	176.25	588.3
## 1989.6160	382.3	247.5	517.1	176.07	588.5
## 1989.6188	382.3	247.3	517.3	175.89	588.7
## 1989.6215	382.3	247.2	517.4	175.72	588.9
## 1989.6242	382.3	247.1	517.5	175.54	589.1
## 1989.6270	382.3	247.0	517.6	175.36	589.2
## 1989.6297	382.3	246.9	517.7	175.18	589.4
## 1989.6324	382.3	246.8	517.8	175.01	589.6
## 1989.6352	382.3	246.6	518.0	174.83	589.8
## 1989.6379	382.3	246.5	518.1	174.65	589.9
## 1989.6407	382.3	246.4	518.2	174.48	590.1
## 1989.6434	382.3	246.3	518.3	174.30	590.3
## 1989.6461	382.3	246.2	518.4	174.12	590.5
## 1989.6489	382.3	246.1	518.5	173.95	590.7
## 1989.6516	382.3	245.9	518.7	173.77	590.8
## 1989.6543	382.3	245.8	518.8	173.59	591.0
## 1989.6571	382.3	245.7	518.9	173.42	591.2
## 1989.6598	382.3	245.6	519.0	173.24	591.4
## 1989.6626	382.3	245.5	519.1	173.07	591.5
## 1989.6653	382.3	245.4	519.2	172.89	591.7
## 1989.6680	382.3	245.3	519.3	172.72	591.9
## 1989.6708	382.3	245.1	519.5	172.54	592.1
## 1989.6735	382.3	245.0	519.6	172.37	592.2
## 1989.6762	382.3	244.9	519.7	172.19	592.4
## 1989.6790	382.3	244.8	519.8	172.02	592.6
## 1989.6817	382.3	244.7	519.9	171.84	592.8
## 1989.6845	382.3	244.6	520.0	171.67	592.9
## 1989.6872	382.3	244.5	520.1	171.49	593.1
## 1989.6899	382.3	244.3	520.3	171.32	593.3
## 1989.6927	382.3	244.2	520.4	171.14	593.5
## 1989.6954	382.3	244.1	520.5	170.97	593.6
## 1989.6982	382.3	244.0	520.6	170.80	593.8
## 1989.7009	382.3	243.9	520.7	170.62	594.0

## 1989.7036	382.3	243.8	520.8	170.45	594.1
## 1989.7064	382.3	243.7	520.9	170.28	594.3
## 1989.7091	382.3	243.6	521.0	170.10	594.5
## 1989.7118	382.3	243.4	521.2	169.93	594.7
## 1989.7146	382.3	243.3	521.3	169.76	594.8
## 1989.7173	382.3	243.2	521.4	169.59	595.0
## 1989.7201	382.3	243.1	521.5	169.41	595.2
## 1989.7228	382.3	243.0	521.6	169.24	595.4
## 1989.7255	382.3	242.9	521.7	169.07	595.5
## 1989.7283	382.3	242.8	521.8	168.90	595.7
## 1989.7310	382.3	242.6	522.0	168.72	595.9
## 1989.7337	382.3	242.5	522.1	168.55	596.0
## 1989.7365	382.3	242.4	522.2	168.38	596.2
## 1989.7392	382.3	242.3	522.3	168.21	596.4
## 1989.7420	382.3	242.2	522.4	168.04	596.6
## 1989.7447	382.3	242.1	522.5	167.87	596.7
## 1989.7474	382.3	242.0	522.6	167.69	596.9
## 1989.7502	382.3	241.9	522.7	167.52	597.1
## 1989.7529	382.3	241.8	522.8	167.35	597.2
## 1989.7556	382.3	241.6	523.0	167.18	597.4
## 1989.7584	382.3	241.5	523.1	167.01	597.6
## 1989.7611	382.3	241.4	523.2	166.84	597.8
## 1989.7639	382.3	241.3	523.3	166.67	597.9
## 1989.7666	382.3	241.2	523.4	166.50	598.1
## 1989.7693	382.3	241.1	523.5	166.33	598.3
## 1989.7721	382.3	241.0	523.6	166.16	598.4
## 1989.7748	382.3	240.9	523.7	165.99	598.6
## 1989.7775	382.3	240.8	523.8	165.82	598.8
## 1989.7803	382.3	240.6	524.0	165.65	598.9
## 1989.7830	382.3	240.5	524.1	165.48	599.1
## 1989.7858	382.3	240.4	524.2	165.31	599.3
## 1989.7885	382.3	240.3	524.3	165.14	599.5
## 1989.7912	382.3	240.2	524.4	164.97	599.6
## 1989.7940	382.3	240.1	524.5	164.80	599.8
## 1989.7967	382.3	240.0	524.6	164.64	600.0
## 1989.7995	382.3	239.9	524.7	164.47	600.1
## 1989.8022	382.3	239.8	524.8	164.30	600.3
## 1989.8049	382.3	239.6	525.0	164.13	600.5
## 1989.8077	382.3	239.5	525.1	163.96	600.6
## 1989.8104	382.3	239.4	525.2	163.79	600.8
## 1989.8131	382.3	239.3	525.3	163.63	601.0
## 1989.8159	382.3	239.2	525.4	163.46	601.1
## 1989.8186	382.3	239.1	525.5	163.29	601.3
## 1989.8214	382.3	239.0	525.6	163.12	601.5
## 1989.8241	382.3	238.9	525.7	162.95	601.6
## 1989.8268	382.3	238.8	525.8	162.79	601.8
## 1989.8296	382.3	238.7	525.9	162.62	602.0
## 1989.8323	382.3	238.5	526.1	162.45	602.1
## 1989.8350	382.3	238.4	526.2	162.29	602.3
## 1989.8378	382.3	238.3	526.3	162.12	602.5
## 1989.8405	382.3	238.2	526.4	161.95	602.6
## 1989.8433	382.3	238.1	526.5	161.79	602.8

## 1989.8460	382.3	238.0	526.6	161.62	603.0
## 1989.8487	382.3	237.9	526.7	161.45	603.1
## 1989.8515	382.3	237.8	526.8	161.29	603.3
## 1989.8542	382.3	237.7	526.9	161.12	603.5
## 1989.8569	382.3	237.6	527.0	160.95	603.6
## 1989.8597	382.3	237.5	527.1	160.79	603.8
## 1989.8624	382.3	237.4	527.2	160.62	604.0
## 1989.8652	382.3	237.2	527.4	160.46	604.1
## 1989.8679	382.3	237.1	527.5	160.29	604.3
## 1989.8706	382.3	237.0	527.6	160.13	604.5
## 1989.8734	382.3	236.9	527.7	159.96	604.6
## 1989.8761	382.3	236.8	527.8	159.80	604.8
## 1989.8789	382.3	236.7	527.9	159.63	605.0
## 1989.8816	382.3	236.6	528.0	159.47	605.1
## 1989.8843	382.3	236.5	528.1	159.30	605.3
## 1989.8871	382.3	236.4	528.2	159.14	605.5
## 1989.8898	382.3	236.3	528.3	158.97	605.6
## 1989.8925	382.3	236.2	528.4	158.81	605.8
## 1989.8953	382.3	236.1	528.5	158.64	606.0
## 1989.8980	382.3	236.0	528.6	158.48	606.1
## 1989.9008	382.3	235.8	528.8	158.32	606.3
## 1989.9035	382.3	235.7	528.9	158.15	606.4
## 1989.9062	382.3	235.6	529.0	157.99	606.6
## 1989.9090	382.3	235.5	529.1	157.82	606.8
## 1989.9117	382.3	235.4	529.2	157.66	606.9
## 1989.9144	382.3	235.3	529.3	157.50	607.1
## 1989.9172	382.3	235.2	529.4	157.33	607.3
## 1989.9199	382.3	235.1	529.5	157.17	607.4
## 1989.9227	382.3	235.0	529.6	157.01	607.6
## 1989.9254	382.3	234.9	529.7	156.84	607.8
## 1989.9281	382.3	234.8	529.8	156.68	607.9
## 1989.9309	382.3	234.7	529.9	156.52	608.1
## 1989.9336	382.3	234.6	530.0	156.36	608.2
## 1989.9363	382.3	234.5	530.1	156.19	608.4
## 1989.9391	382.3	234.4	530.2	156.03	608.6
## 1989.9418	382.3	234.2	530.4	155.87	608.7
## 1989.9446	382.3	234.1	530.5	155.71	608.9
## 1989.9473	382.3	234.0	530.6	155.55	609.1
## 1989.9500	382.3	233.9	530.7	155.38	609.2
## 1989.9528	382.3	233.8	530.8	155.22	609.4
## 1989.9555	382.3	233.7	530.9	155.06	609.5
## 1989.9582	382.3	233.6	531.0	154.90	609.7
## 1989.9610	382.3	233.5	531.1	154.74	609.9
## 1989.9637	382.3	233.4	531.2	154.58	610.0
## 1989.9665	382.3	233.3	531.3	154.41	610.2
## 1989.9692	382.3	233.2	531.4	154.25	610.3
## 1989.9719	382.3	233.1	531.5	154.09	610.5
## 1989.9747	382.3	233.0	531.6	153.93	610.7
## 1989.9774	382.3	232.9	531.7	153.77	610.8
## 1989.9802	382.3	232.8	531.8	153.61	611.0
## 1989.9829	382.3	232.7	531.9	153.45	611.2
## 1989.9856	382.3	232.6	532.0	153.29	611.3

## 1989.9884	382.3	232.5	532.1	153.13	611.5
## 1989.9911	382.3	232.3	532.3	152.97	611.6
## 1989.9938	382.3	232.2	532.4	152.81	611.8
## 1989.9966	382.3	232.1	532.5	152.65	612.0
## 1989.9993	382.3	232.0	532.6	152.49	612.1
## 1990.0021	382.3	231.9	532.7	152.33	612.3
## 1990.0048	382.3	231.8	532.8	152.17	612.4
## 1990.0075	382.3	231.7	532.9	152.01	612.6
## 1990.0103	382.3	231.6	533.0	151.85	612.7
## 1990.0130	382.3	231.5	533.1	151.69	612.9
## 1990.0157	382.3	231.4	533.2	151.53	613.1
## 1990.0185	382.3	231.3	533.3	151.37	613.2
## 1990.0212	382.3	231.2	533.4	151.21	613.4
## 1990.0240	382.3	231.1	533.5	151.05	613.5
## 1990.0267	382.3	231.0	533.6	150.90	613.7
## 1990.0294	382.3	230.9	533.7	150.74	613.9
## 1990.0322	382.3	230.8	533.8	150.58	614.0
## 1990.0349	382.3	230.7	533.9	150.42	614.2
## 1990.0376	382.3	230.6	534.0	150.26	614.3
## 1990.0404	382.3	230.5	534.1	150.10	614.5
## 1990.0431	382.3	230.4	534.2	149.95	614.7
## 1990.0459	382.3	230.3	534.3	149.79	614.8
## 1990.0486	382.3	230.2	534.4	149.63	615.0
## 1990.0513	382.3	230.1	534.5	149.47	615.1
## 1990.0541	382.3	230.0	534.6	149.31	615.3
## 1990.0568	382.3	229.9	534.7	149.16	615.4
## 1990.0595	382.3	229.8	534.8	149.00	615.6
## 1990.0623	382.3	229.6	535.0	148.84	615.8
## 1990.0650	382.3	229.5	535.1	148.68	615.9
## 1990.0678	382.3	229.4	535.2	148.53	616.1
## 1990.0705	382.3	229.3	535.3	148.37	616.2
## 1990.0732	382.3	229.2	535.4	148.21	616.4
## 1990.0760	382.3	229.1	535.5	148.06	616.5
## 1990.0787	382.3	229.0	535.6	147.90	616.7
## 1990.0815	382.3	228.9	535.7	147.74	616.9
## 1990.0842	382.3	228.8	535.8	147.59	617.0
## 1990.0869	382.3	228.7	535.9	147.43	617.2
## 1990.0897	382.3	228.6	536.0	147.27	617.3
## 1990.0924	382.3	228.5	536.1	147.12	617.5
## 1990.0951	382.3	228.4	536.2	146.96	617.6
## 1990.0979	382.3	228.3	536.3	146.81	617.8
## 1990.1006	382.3	228.2	536.4	146.65	618.0
## 1990.1034	382.3	228.1	536.5	146.49	618.1
## 1990.1061	382.3	228.0	536.6	146.34	618.3
## 1990.1088	382.3	227.9	536.7	146.18	618.4
## 1990.1116	382.3	227.8	536.8	146.03	618.6
## 1990.1143	382.3	227.7	536.9	145.87	618.7
## 1990.1170	382.3	227.6	537.0	145.72	618.9
## 1990.1198	382.3	227.5	537.1	145.56	619.0
## 1990.1225	382.3	227.4	537.2	145.41	619.2
## 1990.1253	382.3	227.3	537.3	145.25	619.3
## 1990.1280	382.3	227.2	537.4	145.10	619.5

## 1990.1307	382.3	227.1	537.5	144.94	619.7
## 1990.1335	382.3	227.0	537.6	144.79	619.8
## 1990.1362	382.3	226.9	537.7	144.63	620.0
## 1990.1389	382.3	226.8	537.8	144.48	620.1
## 1990.1417	382.3	226.7	537.9	144.32	620.3
## 1990.1444	382.3	226.6	538.0	144.17	620.4
## 1990.1472	382.3	226.5	538.1	144.01	620.6
## 1990.1499	382.3	226.4	538.2	143.86	620.7
## 1990.1526	382.3	226.3	538.3	143.71	620.9
## 1990.1554	382.3	226.2	538.4	143.55	621.0
## 1990.1581	382.3	226.1	538.5	143.40	621.2
## 1990.1608	382.3	226.0	538.6	143.25	621.4
## 1990.1636	382.3	225.9	538.7	143.09	621.5
## 1990.1663	382.3	225.8	538.8	142.94	621.7
## 1990.1691	382.3	225.7	538.9	142.78	621.8
## 1990.1718	382.3	225.6	539.0	142.63	622.0
## 1990.1745	382.3	225.5	539.1	142.48	622.1
## 1990.1773	382.3	225.4	539.2	142.33	622.3
## 1990.1800	382.3	225.3	539.3	142.17	622.4
## 1990.1828	382.3	225.2	539.4	142.02	622.6
## 1990.1855	382.3	225.1	539.5	141.87	622.7
## 1990.1882	382.3	225.0	539.6	141.71	622.9
## 1990.1910	382.3	224.9	539.7	141.56	623.0
## 1990.1937	382.3	224.8	539.8	141.41	623.2
## 1990.1964	382.3	224.7	539.9	141.26	623.3
## 1990.1992	382.3	224.6	540.0	141.10	623.5
## 1990.2019	382.3	224.5	540.1	140.95	623.6
## 1990.2047	382.3	224.4	540.2	140.80	623.8
## 1990.2074	382.3	224.3	540.3	140.65	624.0
## 1990.2101	382.3	224.2	540.4	140.50	624.1
## 1990.2129	382.3	224.1	540.5	140.34	624.3
## 1990.2156	382.3	224.0	540.6	140.19	624.4
## 1990.2183	382.3	223.9	540.7	140.04	624.6
## 1990.2211	382.3	223.8	540.8	139.89	624.7
## 1990.2238	382.3	223.7	540.9	139.74	624.9
## 1990.2266	382.3	223.6	541.0	139.59	625.0
## 1990.2293	382.3	223.5	541.1	139.43	625.2
## 1990.2320	382.3	223.4	541.2	139.28	625.3
## 1990.2348	382.3	223.3	541.3	139.13	625.5
## 1990.2375	382.3	223.2	541.4	138.98	625.6
## 1990.2402	382.3	223.1	541.5	138.83	625.8
## 1990.2430	382.3	223.0	541.6	138.68	625.9
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## 1990.2539	382.3	222.6	542.0	138.08	626.5
## 1990.2567	382.3	222.5	542.1	137.93	626.7
## 1990.2594	382.3	222.4	542.2	137.78	626.8
## 1990.2621	382.3	222.3	542.3	137.63	627.0
## 1990.2649	382.3	222.2	542.4	137.48	627.1
## 1990.2676	382.3	222.1	542.5	137.33	627.3
## 1990.2704	382.3	222.0	542.6	137.18	627.4

## 1990.2731	382.3	221.9	542.7	137.03	627.6
## 1990.2758	382.3	221.8	542.8	136.88	627.7
## 1990.2786	382.3	221.7	542.9	136.73	627.9
## 1990.2813	382.3	221.6	543.0	136.58	628.0
## 1990.2841	382.3	221.5	543.1	136.43	628.2
## 1990.2868	382.3	221.4	543.2	136.28	628.3
## 1990.2895	382.3	221.3	543.3	136.13	628.5
## 1990.2923	382.3	221.2	543.4	135.98	628.6
## 1990.2950	382.3	221.1	543.5	135.83	628.8
## 1990.2977	382.3	221.0	543.6	135.68	628.9
## 1990.3005	382.3	220.9	543.7	135.53	629.1
## 1990.3032	382.3	220.9	543.7	135.39	629.2
## 1990.3060	382.3	220.8	543.8	135.24	629.4
## 1990.3087	382.3	220.7	543.9	135.09	629.5
## 1990.3114	382.3	220.6	544.0	134.94	629.7
## 1990.3142	382.3	220.5	544.1	134.79	629.8
## 1990.3169	382.3	220.4	544.2	134.64	630.0
## 1990.3196	382.3	220.3	544.3	134.49	630.1
## 1990.3224	382.3	220.2	544.4	134.35	630.3
## 1990.3251	382.3	220.1	544.5	134.20	630.4
## 1990.3279	382.3	220.0	544.6	134.05	630.5
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## 1990.3333	382.3	219.8	544.8	133.75	630.8
## 1990.3361	382.3	219.7	544.9	133.61	631.0
## 1990.3388	382.3	219.6	545.0	133.46	631.1
## 1990.3415	382.3	219.5	545.1	133.31	631.3
## 1990.3443	382.3	219.4	545.2	133.16	631.4
## 1990.3470	382.3	219.3	545.3	133.02	631.6
## 1990.3498	382.3	219.2	545.4	132.87	631.7
## 1990.3525	382.3	219.1	545.5	132.72	631.9
## 1990.3552	382.3	219.0	545.6	132.58	632.0
## 1990.3580	382.3	218.9	545.7	132.43	632.2
## 1990.3607	382.3	218.8	545.8	132.28	632.3
## 1990.3634	382.3	218.7	545.9	132.13	632.5
## 1990.3662	382.3	218.6	546.0	131.99	632.6
## 1990.3689	382.3	218.5	546.1	131.84	632.8
## 1990.3717	382.3	218.4	546.2	131.69	632.9
## 1990.3744	382.3	218.3	546.3	131.55	633.1
## 1990.3771	382.3	218.2	546.4	131.40	633.2
## 1990.3799	382.3	218.2	546.4	131.26	633.3
## 1990.3826	382.3	218.1	546.5	131.11	633.5
## 1990.3854	382.3	218.0	546.6	130.96	633.6
## 1990.3881	382.3	217.9	546.7	130.82	633.8
## 1990.3908	382.3	217.8	546.8	130.67	633.9
## 1990.3936	382.3	217.7	546.9	130.52	634.1
## 1990.3963	382.3	217.6	547.0	130.38	634.2
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## 1990.4292	382.3	216.4	548.2	128.64	636.0
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## 1990.4565	382.3	215.5	549.1	127.19	637.4
## 1990.4593	382.3	215.4	549.2	127.05	637.6
## 1990.4620	382.3	215.3	549.3	126.90	637.7
## 1990.4648	382.3	215.2	549.4	126.76	637.8
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## 1990.5359	382.3	212.8	551.8	123.05	641.5
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## 1990.5551	382.3	212.1	552.5	122.06	642.5

## 1990.5578	382.3	212.0	552.6	121.92	642.7
## 1990.5606	382.3	212.0	552.6	121.78	642.8
## 1990.5633	382.3	211.9	552.7	121.64	643.0
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## 1990.5688	382.3	211.7	552.9	121.36	643.2
## 1990.5715	382.3	211.6	553.0	121.22	643.4
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## 1990.5880	382.3	211.0	553.6	120.37	644.2
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## 1990.5934	382.3	210.9	553.7	120.09	644.5
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## 1990.5989	382.3	210.7	553.9	119.81	644.8
## 1990.6016	382.3	210.6	554.0	119.67	644.9
## 1990.6044	382.3	210.5	554.1	119.53	645.1
## 1990.6071	382.3	210.4	554.2	119.39	645.2
## 1990.6099	382.3	210.3	554.3	119.25	645.3
## 1990.6126	382.3	210.2	554.4	119.11	645.5
## 1990.6153	382.3	210.1	554.5	118.97	645.6
## 1990.6181	382.3	210.0	554.6	118.83	645.8
## 1990.6208	382.3	209.9	554.7	118.70	645.9
## 1990.6235	382.3	209.8	554.8	118.56	646.0
## 1990.6263	382.3	209.8	554.8	118.42	646.2
## 1990.6290	382.3	209.7	554.9	118.28	646.3
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## 1990.6345	382.3	209.5	555.1	118.00	646.6
## 1990.6372	382.3	209.4	555.2	117.86	646.7
## 1990.6400	382.3	209.3	555.3	117.72	646.9
## 1990.6427	382.3	209.2	555.4	117.58	647.0
## 1990.6454	382.3	209.1	555.5	117.44	647.2
## 1990.6482	382.3	209.0	555.6	117.31	647.3
## 1990.6509	382.3	208.9	555.7	117.17	647.4
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## 1990.6564	382.3	208.8	555.8	116.89	647.7
## 1990.6591	382.3	208.7	555.9	116.75	647.8
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## 1990.6646	382.3	208.5	556.1	116.48	648.1
## 1990.6674	382.3	208.4	556.2	116.34	648.3
## 1990.6701	382.3	208.3	556.3	116.20	648.4
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## 1990.6756	382.3	208.1	556.5	115.92	648.7
## 1990.6783	382.3	208.0	556.6	115.79	648.8
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## 1990.6838	382.3	207.9	556.7	115.51	649.1
## 1990.6865	382.3	207.8	556.8	115.37	649.2
## 1990.6893	382.3	207.7	556.9	115.24	649.4
## 1990.6920	382.3	207.6	557.0	115.10	649.5
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## 1990.6975	382.3	207.4	557.2	114.82	649.8

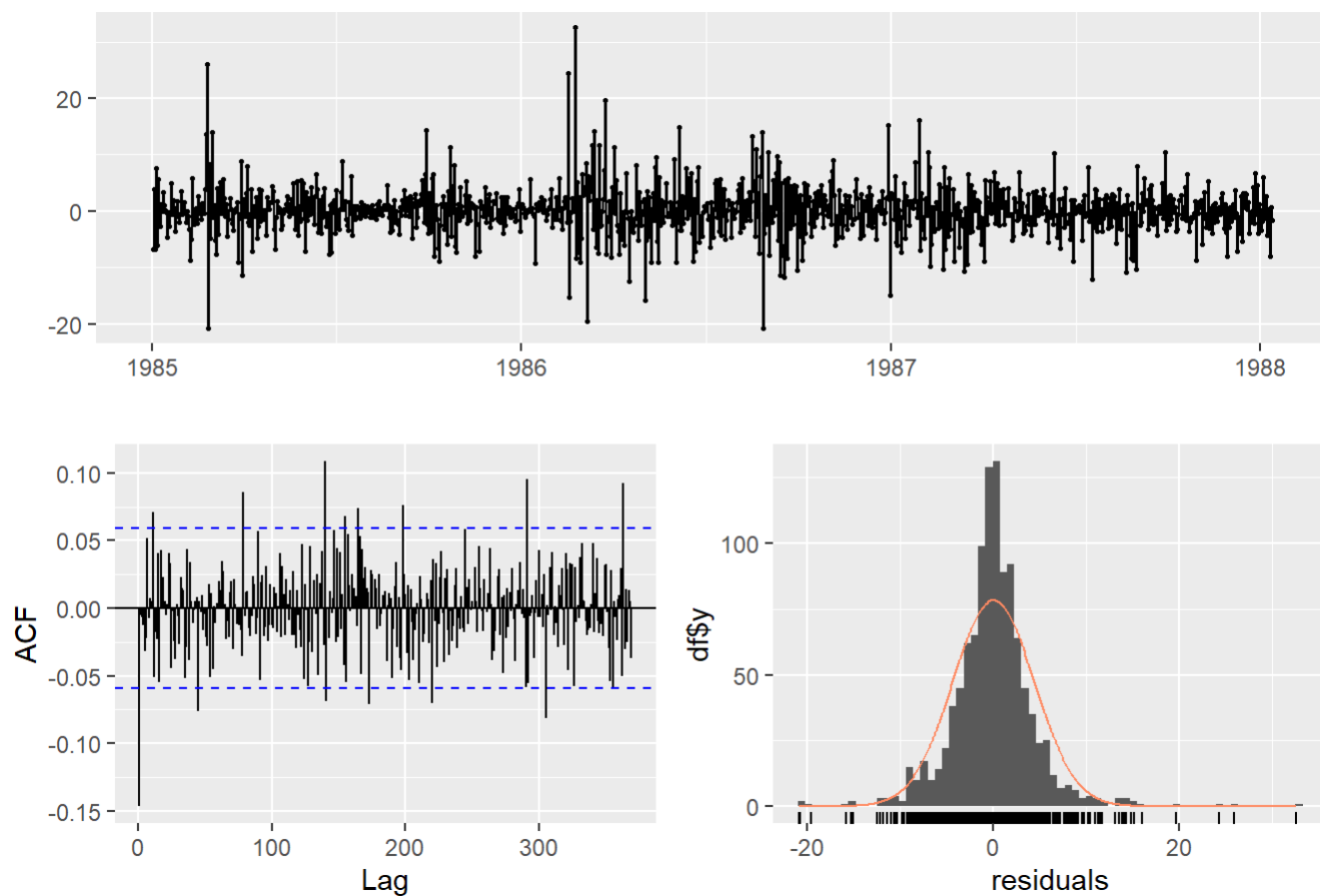
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## 1990.7029	382.3	207.2	557.4	114.55	650.1
## 1990.7057	382.3	207.1	557.5	114.41	650.2
## 1990.7084	382.3	207.0	557.6	114.27	650.3
## 1990.7112	382.3	207.0	557.6	114.14	650.5
## 1990.7139	382.3	206.9	557.7	114.00	650.6
## 1990.7166	382.3	206.8	557.8	113.86	650.7
## 1990.7194	382.3	206.7	557.9	113.73	650.9
## 1990.7221	382.3	206.6	558.0	113.59	651.0
## 1990.7248	382.3	206.5	558.1	113.45	651.1
## 1990.7276	382.3	206.4	558.2	113.32	651.3
## 1990.7303	382.3	206.3	558.3	113.18	651.4
## 1990.7331	382.3	206.2	558.4	113.04	651.6
## 1990.7358	382.3	206.2	558.4	112.91	651.7
## 1990.7385	382.3	206.1	558.5	112.77	651.8
## 1990.7413	382.3	206.0	558.6	112.63	652.0
## 1990.7440	382.3	205.9	558.7	112.50	652.1
## 1990.7467	382.3	205.8	558.8	112.36	652.2
## 1990.7495	382.3	205.7	558.9	112.23	652.4
## 1990.7522	382.3	205.6	559.0	112.09	652.5
## 1990.7550	382.3	205.5	559.1	111.95	652.6
## 1990.7577	382.3	205.4	559.2	111.82	652.8
## 1990.7604	382.3	205.4	559.2	111.68	652.9
## 1990.7632	382.3	205.3	559.3	111.55	653.1
## 1990.7659	382.3	205.2	559.4	111.41	653.2
## 1990.7687	382.3	205.1	559.5	111.28	653.3
## 1990.7714	382.3	205.0	559.6	111.14	653.5
## 1990.7741	382.3	204.9	559.7	111.01	653.6
## 1990.7769	382.3	204.8	559.8	110.87	653.7
## 1990.7796	382.3	204.7	559.9	110.73	653.9
## 1990.7823	382.3	204.6	560.0	110.60	654.0
## 1990.7851	382.3	204.6	560.0	110.46	654.1
## 1990.7878	382.3	204.5	560.1	110.33	654.3
## 1990.7906	382.3	204.4	560.2	110.19	654.4
## 1990.7933	382.3	204.3	560.3	110.06	654.5
## 1990.7960	382.3	204.2	560.4	109.92	654.7
## 1990.7988	382.3	204.1	560.5	109.79	654.8
## 1990.8015	382.3	204.0	560.6	109.66	654.9
## 1990.8042	382.3	203.9	560.7	109.52	655.1
## 1990.8070	382.3	203.9	560.7	109.39	655.2
## 1990.8097	382.3	203.8	560.8	109.25	655.3
## 1990.8125	382.3	203.7	560.9	109.12	655.5
## 1990.8152	382.3	203.6	561.0	108.98	655.6
## 1990.8179	382.3	203.5	561.1	108.85	655.8
## 1990.8207	382.3	203.4	561.2	108.71	655.9
## 1990.8234	382.3	203.3	561.3	108.58	656.0
## 1990.8261	382.3	203.2	561.4	108.45	656.2
## 1990.8289	382.3	203.1	561.5	108.31	656.3
## 1990.8316	382.3	203.1	561.5	108.18	656.4
## 1990.8344	382.3	203.0	561.6	108.04	656.6
## 1990.8371	382.3	202.9	561.7	107.91	656.7
## 1990.8398	382.3	202.8	561.8	107.78	656.8

## 1990.8426	382.3	202.7	561.9	107.64	657.0
## 1990.8453	382.3	202.6	562.0	107.51	657.1
## 1990.8480	382.3	202.5	562.1	107.37	657.2
## 1990.8508	382.3	202.4	562.2	107.24	657.4
## 1990.8535	382.3	202.4	562.2	107.11	657.5
## 1990.8563	382.3	202.3	562.3	106.97	657.6
## 1990.8590	382.3	202.2	562.4	106.84	657.8
## 1990.8617	382.3	202.1	562.5	106.71	657.9
## 1990.8645	382.3	202.0	562.6	106.57	658.0
## 1990.8672	382.3	201.9	562.7	106.44	658.2
## 1990.8700	382.3	201.8	562.8	106.31	658.3
## 1990.8727	382.3	201.8	562.8	106.17	658.4
## 1990.8754	382.3	201.7	562.9	106.04	658.6
## 1990.8782	382.3	201.6	563.0	105.91	658.7
## 1990.8809	382.3	201.5	563.1	105.78	658.8
## 1990.8836	382.3	201.4	563.2	105.64	659.0
## 1990.8864	382.3	201.3	563.3	105.51	659.1
## 1990.8891	382.3	201.2	563.4	105.38	659.2
## 1990.8919	382.3	201.1	563.5	105.25	659.4
## 1990.8946	382.3	201.1	563.5	105.11	659.5
## 1990.8973	382.3	201.0	563.6	104.98	659.6
## 1990.9001	382.3	200.9	563.7	104.85	659.8
## 1990.9028	382.3	200.8	563.8	104.72	659.9
## 1990.9055	382.3	200.7	563.9	104.58	660.0
## 1990.9083	382.3	200.6	564.0	104.45	660.1
## 1990.9110	382.3	200.5	564.1	104.32	660.3
## 1990.9138	382.3	200.5	564.1	104.19	660.4
## 1990.9165	382.3	200.4	564.2	104.05	660.5
## 1990.9192	382.3	200.3	564.3	103.92	660.7
## 1990.9220	382.3	200.2	564.4	103.79	660.8
## 1990.9247	382.3	200.1	564.5	103.66	660.9
## 1990.9274	382.3	200.0	564.6	103.53	661.1
## 1990.9302	382.3	199.9	564.7	103.40	661.2
## 1990.9329	382.3	199.8	564.8	103.26	661.3
## 1990.9357	382.3	199.8	564.8	103.13	661.5
## 1990.9384	382.3	199.7	564.9	103.00	661.6
## 1990.9411	382.3	199.6	565.0	102.87	661.7
## 1990.9439	382.3	199.5	565.1	102.74	661.9
## 1990.9466	382.3	199.4	565.2	102.61	662.0
## 1990.9493	382.3	199.3	565.3	102.48	662.1
## 1990.9521	382.3	199.2	565.4	102.34	662.3
## 1990.9548	382.3	199.2	565.4	102.21	662.4
## 1990.9576	382.3	199.1	565.5	102.08	662.5
## 1990.9603	382.3	199.0	565.6	101.95	662.6
## 1990.9630	382.3	198.9	565.7	101.82	662.8
## 1990.9658	382.3	198.8	565.8	101.69	662.9
## 1990.9685	382.3	198.7	565.9	101.56	663.0
## 1990.9713	382.3	198.6	566.0	101.43	663.2
## 1990.9740	382.3	198.6	566.0	101.30	663.3
## 1990.9767	382.3	198.5	566.1	101.17	663.4
## 1990.9795	382.3	198.4	566.2	101.04	663.6
## 1990.9822	382.3	198.3	566.3	100.90	663.7

```
## 1990.9849      382.3 198.2 566.4 100.77 663.8
## 1990.9877      382.3 198.1 566.5 100.64 664.0
## 1990.9904      382.3 198.0 566.6 100.51 664.1
## 1990.9932      382.3 198.0 566.6 100.38 664.2
## 1990.9959      382.3 197.9 566.7 100.25 664.3
## 1990.9986      382.3 197.8 566.8 100.12 664.5
## 1991.0014      382.3 197.7 566.9  99.99 664.6
## 1991.0041      382.3 197.6 567.0  99.86 664.7
## 1991.0068      382.3 197.5 567.1  99.73 664.9
## 1991.0096      382.3 197.5 567.1  99.60 665.0
## 1991.0123      382.3 197.4 567.2  99.47 665.1
## 1991.0151      382.3 197.3 567.3  99.34 665.3
## 1991.0178      382.3 197.2 567.4  99.21 665.4
## 1991.0205      382.3 197.1 567.5  99.08 665.5
## 1991.0233      382.3 197.0 567.6  98.95 665.6
## 1991.0260      382.3 196.9 567.7  98.82 665.8
## 1991.0287      382.3 196.9 567.7  98.69 665.9
```

```
checkresiduals(naiveFF)
```

Residuals from Naive method



```
##  
##  Ljung-Box test  
##  
## data:  Residuals from Naive method  
## Q* = 277, df = 222, p-value = 0.007  
##  
## Model df: 0.    Total lags used: 222
```

```
print(summary(rwfff))
```

```

##
## Forecast method: Random walk with drift
##
## Model Information:
## Call: rwf(y = data_clean, h = 365 * 3, drift = T)
##
## Drift: 0.0687 (se 0.1315)
## Residual sd: 4.3742
##
## Error measures:
##
## Training set 0.00000000000005649 4.372 2.966 -0.004156 0.7566 0.03972 -0.1466
##
## Forecasts:
##      Point Forecast Lo 80 Hi 80  Lo 95 Hi 95
## 1988.0335      382.4 376.8 388.0 373.80 390.9
## 1988.0363      382.4 374.5 390.4 370.31 394.6
## 1988.0390      382.5 372.8 392.2 367.64 397.4
## 1988.0418      382.6 371.3 393.8 365.40 399.7
## 1988.0445      382.6 370.1 395.2 363.44 401.8
## 1988.0472      382.7 368.9 396.5 361.66 403.8
## 1988.0500      382.8 367.9 397.7 360.04 405.5
## 1988.0527      382.8 366.9 398.8 358.52 407.2
## 1988.0554      382.9 366.0 399.8 357.11 408.7
## 1988.0582      383.0 365.2 400.8 355.77 410.2
## 1988.0609      383.1 364.4 401.7 354.49 411.6
## 1988.0637      383.1 363.6 402.6 353.28 413.0
## 1988.0664      383.2 362.9 403.5 352.11 414.3
## 1988.0691      383.3 362.2 404.4 351.00 415.5
## 1988.0719      383.3 361.5 405.2 349.92 416.7
## 1988.0746      383.4 360.8 406.0 348.87 417.9
## 1988.0773      383.5 360.2 406.7 347.86 419.1
## 1988.0801      383.5 359.6 407.5 346.88 420.2
## 1988.0828      383.6 359.0 408.2 345.93 421.3
## 1988.0856      383.7 358.4 409.0 345.01 422.3
## 1988.0883      383.7 357.8 409.7 344.10 423.4
## 1988.0910      383.8 357.3 410.4 343.22 424.4
## 1988.0938      383.9 356.7 411.0 342.36 425.4
## 1988.0965      383.9 356.2 411.7 341.51 426.4
## 1988.0992      384.0 355.7 412.3 340.69 427.3
## 1988.1020      384.1 355.2 413.0 339.88 428.3
## 1988.1047      384.2 354.7 413.6 339.09 429.2
## 1988.1075      384.2 354.2 414.2 338.31 430.1
## 1988.1102      384.3 353.7 414.9 337.54 431.0
## 1988.1129      384.4 353.3 415.5 336.79 431.9
## 1988.1157      384.4 352.8 416.1 336.05 432.8
## 1988.1184      384.5 352.3 416.7 335.33 433.7
## 1988.1211      384.6 351.9 417.2 334.61 434.5
## 1988.1239      384.6 351.5 417.8 333.91 435.4
## 1988.1266      384.7 351.0 418.4 333.21 436.2
## 1988.1294      384.8 350.6 418.9 332.53 437.0
## 1988.1321      384.8 350.2 419.5 331.85 437.8

```

## 1988.1348	384.9	349.8	420.0	331.19	438.6
## 1988.1376	385.0	349.4	420.6	330.53	439.4
## 1988.1403	385.0	349.0	421.1	329.88	440.2
## 1988.1431	385.1	348.6	421.7	329.24	441.0
## 1988.1458	385.2	348.2	422.2	328.60	441.8
## 1988.1485	385.3	347.8	422.7	327.98	442.5
## 1988.1513	385.3	347.4	423.2	327.36	443.3
## 1988.1540	385.4	347.0	423.7	326.75	444.0
## 1988.1567	385.5	346.7	424.2	326.14	444.8
## 1988.1595	385.5	346.3	424.8	325.54	445.5
## 1988.1622	385.6	345.9	425.3	324.95	446.2
## 1988.1650	385.7	345.6	425.7	324.37	447.0
## 1988.1677	385.7	345.2	426.2	323.79	447.7
## 1988.1704	385.8	344.9	426.7	323.21	448.4
## 1988.1732	385.9	344.5	427.2	322.64	449.1
## 1988.1759	385.9	344.2	427.7	322.08	449.8
## 1988.1786	386.0	343.8	428.2	321.52	450.5
## 1988.1814	386.1	343.5	428.7	320.96	451.2
## 1988.1841	386.1	343.2	429.1	320.42	451.9
## 1988.1869	386.2	342.8	429.6	319.87	452.6
## 1988.1896	386.3	342.5	430.1	319.33	453.2
## 1988.1923	386.4	342.2	430.5	318.80	453.9
## 1988.1951	386.4	341.9	431.0	318.27	454.6
## 1988.1978	386.5	341.5	431.4	317.74	455.2
## 1988.2005	386.6	341.2	431.9	317.22	455.9
## 1988.2033	386.6	340.9	432.4	316.70	456.6
## 1988.2060	386.7	340.6	432.8	316.19	457.2
## 1988.2088	386.8	340.3	433.2	315.68	457.9
## 1988.2115	386.8	340.0	433.7	315.17	458.5
## 1988.2142	386.9	339.7	434.1	314.67	459.1
## 1988.2170	387.0	339.4	434.6	314.17	459.8
## 1988.2197	387.0	339.1	435.0	313.67	460.4
## 1988.2225	387.1	338.8	435.5	313.18	461.0
## 1988.2252	387.2	338.5	435.9	312.69	461.7
## 1988.2279	387.2	338.2	436.3	312.20	462.3
## 1988.2307	387.3	337.9	436.7	311.72	462.9
## 1988.2334	387.4	337.6	437.2	311.24	463.5
## 1988.2361	387.5	337.3	437.6	310.76	464.1
## 1988.2389	387.5	337.0	438.0	310.29	464.8
## 1988.2416	387.6	336.7	438.4	309.82	465.4
## 1988.2444	387.7	336.5	438.9	309.35	466.0
## 1988.2471	387.7	336.2	439.3	308.89	466.6
## 1988.2498	387.8	335.9	439.7	308.42	467.2
## 1988.2526	387.9	335.6	440.1	307.97	467.8
## 1988.2553	387.9	335.3	440.5	307.51	468.4
## 1988.2580	388.0	335.1	440.9	307.05	469.0
## 1988.2608	388.1	334.8	441.3	306.60	469.5
## 1988.2635	388.1	334.5	441.7	306.15	470.1
## 1988.2663	388.2	334.3	442.2	305.71	470.7
## 1988.2690	388.3	334.0	442.6	305.26	471.3
## 1988.2717	388.3	333.7	443.0	304.82	471.9
## 1988.2745	388.4	333.5	443.4	304.38	472.4

## 1988.2772	388.5	333.2	443.8	303.94	473.0
## 1988.2799	388.6	332.9	444.2	303.51	473.6
## 1988.2827	388.6	332.7	444.6	303.07	474.2
## 1988.2854	388.7	332.4	445.0	302.64	474.7
## 1988.2882	388.8	332.2	445.3	302.21	475.3
## 1988.2909	388.8	331.9	445.7	301.79	475.9
## 1988.2936	388.9	331.7	446.1	301.36	476.4
## 1988.2964	389.0	331.4	446.5	300.94	477.0
## 1988.2991	389.0	331.2	446.9	300.52	477.5
## 1988.3018	389.1	330.9	447.3	300.10	478.1
## 1988.3046	389.2	330.7	447.7	299.69	478.7
## 1988.3073	389.2	330.4	448.1	299.27	479.2
## 1988.3101	389.3	330.2	448.4	298.86	479.8
## 1988.3128	389.4	329.9	448.8	298.45	480.3
## 1988.3155	389.4	329.7	449.2	298.04	480.9
## 1988.3183	389.5	329.4	449.6	297.63	481.4
## 1988.3210	389.6	329.2	450.0	297.22	481.9
## 1988.3238	389.7	329.0	450.4	296.82	482.5
## 1988.3265	389.7	328.7	450.7	296.42	483.0
## 1988.3292	389.8	328.5	451.1	296.02	483.6
## 1988.3320	389.9	328.2	451.5	295.62	484.1
## 1988.3347	389.9	328.0	451.9	295.22	484.6
## 1988.3374	390.0	327.8	452.2	294.82	485.2
## 1988.3402	390.1	327.5	452.6	294.43	485.7
## 1988.3429	390.1	327.3	453.0	294.04	486.2
## 1988.3457	390.2	327.1	453.3	293.64	486.8
## 1988.3484	390.3	326.8	453.7	293.25	487.3
## 1988.3511	390.3	326.6	454.1	292.87	487.8
## 1988.3539	390.4	326.4	454.4	292.48	488.3
## 1988.3566	390.5	326.1	454.8	292.09	488.9
## 1988.3593	390.5	325.9	455.2	291.71	489.4
## 1988.3621	390.6	325.7	455.5	291.33	489.9
## 1988.3648	390.7	325.5	455.9	290.94	490.4
## 1988.3676	390.8	325.2	456.3	290.56	490.9
## 1988.3703	390.8	325.0	456.6	290.19	491.5
## 1988.3730	390.9	324.8	457.0	289.81	492.0
## 1988.3758	391.0	324.6	457.3	289.43	492.5
## 1988.3785	391.0	324.4	457.7	289.06	493.0
## 1988.3812	391.1	324.1	458.1	288.68	493.5
## 1988.3840	391.2	323.9	458.4	288.31	494.0
## 1988.3867	391.2	323.7	458.8	287.94	494.5
## 1988.3895	391.3	323.5	459.1	287.57	495.0
## 1988.3922	391.4	323.3	459.5	287.20	495.5
## 1988.3949	391.4	323.0	459.8	286.84	496.0
## 1988.3977	391.5	322.8	460.2	286.47	496.5
## 1988.4004	391.6	322.6	460.5	286.10	497.0
## 1988.4031	391.6	322.4	460.9	285.74	497.5
## 1988.4059	391.7	322.2	461.2	285.38	498.0
## 1988.4086	391.8	322.0	461.6	285.02	498.5
## 1988.4114	391.8	321.8	461.9	284.66	499.0
## 1988.4141	391.9	321.5	462.3	284.30	499.5
## 1988.4168	392.0	321.3	462.6	283.94	500.0

## 1988.4196	392.1	321.1	463.0	283.58	500.5
## 1988.4223	392.1	320.9	463.3	283.22	501.0
## 1988.4251	392.2	320.7	463.7	282.87	501.5
## 1988.4278	392.3	320.5	464.0	282.52	502.0
## 1988.4305	392.3	320.3	464.4	282.16	502.5
## 1988.4333	392.4	320.1	464.7	281.81	503.0
## 1988.4360	392.5	319.9	465.1	281.46	503.5
## 1988.4387	392.5	319.7	465.4	281.11	504.0
## 1988.4415	392.6	319.5	465.7	280.76	504.4
## 1988.4442	392.7	319.3	466.1	280.41	504.9
## 1988.4470	392.7	319.1	466.4	280.06	505.4
## 1988.4497	392.8	318.9	466.8	279.72	505.9
## 1988.4524	392.9	318.7	467.1	279.37	506.4
## 1988.4552	392.9	318.5	467.4	279.03	506.9
## 1988.4579	393.0	318.3	467.8	278.69	507.3
## 1988.4606	393.1	318.1	468.1	278.34	507.8
## 1988.4634	393.2	317.9	468.4	278.00	508.3
## 1988.4661	393.2	317.7	468.8	277.66	508.8
## 1988.4689	393.3	317.5	469.1	277.32	509.3
## 1988.4716	393.4	317.3	469.5	276.98	509.7
## 1988.4743	393.4	317.1	469.8	276.64	510.2
## 1988.4771	393.5	316.9	470.1	276.31	510.7
## 1988.4798	393.6	316.7	470.5	275.97	511.2
## 1988.4825	393.6	316.5	470.8	275.63	511.6
## 1988.4853	393.7	316.3	471.1	275.30	512.1
## 1988.4880	393.8	316.1	471.5	274.96	512.6
## 1988.4908	393.8	315.9	471.8	274.63	513.1
## 1988.4935	393.9	315.7	472.1	274.30	513.5
## 1988.4962	394.0	315.5	472.5	273.97	514.0
## 1988.4990	394.0	315.3	472.8	273.64	514.5
## 1988.5017	394.1	315.1	473.1	273.31	514.9
## 1988.5044	394.2	314.9	473.4	272.98	515.4
## 1988.5072	394.3	314.7	473.8	272.65	515.9
## 1988.5099	394.3	314.5	474.1	272.32	516.3
## 1988.5127	394.4	314.4	474.4	271.99	516.8
## 1988.5154	394.5	314.2	474.8	271.67	517.3
## 1988.5181	394.5	314.0	475.1	271.34	517.7
## 1988.5209	394.6	313.8	475.4	271.02	518.2
## 1988.5236	394.7	313.6	475.7	270.69	518.6
## 1988.5264	394.7	313.4	476.1	270.37	519.1
## 1988.5291	394.8	313.2	476.4	270.04	519.6
## 1988.5318	394.9	313.0	476.7	269.72	520.0
## 1988.5346	394.9	312.9	477.0	269.40	520.5
## 1988.5373	395.0	312.7	477.3	269.08	520.9
## 1988.5400	395.1	312.5	477.7	268.76	521.4
## 1988.5428	395.1	312.3	478.0	268.44	521.9
## 1988.5455	395.2	312.1	478.3	268.12	522.3
## 1988.5483	395.3	311.9	478.6	267.80	522.8
## 1988.5510	395.4	311.7	479.0	267.49	523.2
## 1988.5537	395.4	311.6	479.3	267.17	523.7
## 1988.5565	395.5	311.4	479.6	266.85	524.1
## 1988.5592	395.6	311.2	479.9	266.54	524.6

## 1988.5619	395.6	311.0	480.2	266.22	525.0
## 1988.5647	395.7	310.8	480.6	265.91	525.5
## 1988.5674	395.8	310.7	480.9	265.60	525.9
## 1988.5702	395.8	310.5	481.2	265.28	526.4
## 1988.5729	395.9	310.3	481.5	264.97	526.8
## 1988.5756	396.0	310.1	481.8	264.66	527.3
## 1988.5784	396.0	309.9	482.1	264.35	527.7
## 1988.5811	396.1	309.8	482.5	264.04	528.2
## 1988.5838	396.2	309.6	482.8	263.73	528.6
## 1988.5866	396.2	309.4	483.1	263.42	529.1
## 1988.5893	396.3	309.2	483.4	263.11	529.5
## 1988.5921	396.4	309.0	483.7	262.80	530.0
## 1988.5948	396.5	308.9	484.0	262.49	530.4
## 1988.5975	396.5	308.7	484.4	262.18	530.9
## 1988.6003	396.6	308.5	484.7	261.88	531.3
## 1988.6030	396.7	308.3	485.0	261.57	531.7
## 1988.6057	396.7	308.2	485.3	261.27	532.2
## 1988.6085	396.8	308.0	485.6	260.96	532.6
## 1988.6112	396.9	307.8	485.9	260.66	533.1
## 1988.6140	396.9	307.6	486.2	260.35	533.5
## 1988.6167	397.0	307.5	486.6	260.05	534.0
## 1988.6194	397.1	307.3	486.9	259.75	534.4
## 1988.6222	397.1	307.1	487.2	259.44	534.8
## 1988.6249	397.2	306.9	487.5	259.14	535.3
## 1988.6277	397.3	306.8	487.8	258.84	535.7
## 1988.6304	397.3	306.6	488.1	258.54	536.2
## 1988.6331	397.4	306.4	488.4	258.24	536.6
## 1988.6359	397.5	306.2	488.7	257.94	537.0
## 1988.6386	397.6	306.1	489.0	257.64	537.5
## 1988.6413	397.6	305.9	489.3	257.34	537.9
## 1988.6441	397.7	305.7	489.7	257.04	538.3
## 1988.6468	397.8	305.6	490.0	256.75	538.8
## 1988.6496	397.8	305.4	490.3	256.45	539.2
## 1988.6523	397.9	305.2	490.6	256.15	539.6
## 1988.6550	398.0	305.0	490.9	255.85	540.1
## 1988.6578	398.0	304.9	491.2	255.56	540.5
## 1988.6605	398.1	304.7	491.5	255.26	540.9
## 1988.6632	398.2	304.5	491.8	254.97	541.4
## 1988.6660	398.2	304.4	492.1	254.67	541.8
## 1988.6687	398.3	304.2	492.4	254.38	542.2
## 1988.6715	398.4	304.0	492.7	254.09	542.7
## 1988.6742	398.4	303.9	493.0	253.79	543.1
## 1988.6769	398.5	303.7	493.3	253.50	543.5
## 1988.6797	398.6	303.5	493.6	253.21	544.0
## 1988.6824	398.7	303.4	493.9	252.92	544.4
## 1988.6851	398.7	303.2	494.2	252.62	544.8
## 1988.6879	398.8	303.0	494.5	252.33	545.2
## 1988.6906	398.9	302.9	494.9	252.04	545.7
## 1988.6934	398.9	302.7	495.2	251.75	546.1
## 1988.6961	399.0	302.5	495.5	251.46	546.5
## 1988.6988	399.1	302.4	495.8	251.17	547.0
## 1988.7016	399.1	302.2	496.1	250.88	547.4

## 1988.7043	399.2	302.0	496.4	250.60	547.8
## 1988.7070	399.3	301.9	496.7	250.31	548.2
## 1988.7098	399.3	301.7	497.0	250.02	548.7
## 1988.7125	399.4	301.5	497.3	249.73	549.1
## 1988.7153	399.5	301.4	497.6	249.45	549.5
## 1988.7180	399.5	301.2	497.9	249.16	549.9
## 1988.7207	399.6	301.0	498.2	248.87	550.4
## 1988.7235	399.7	300.9	498.5	248.59	550.8
## 1988.7262	399.7	300.7	498.8	248.30	551.2
## 1988.7290	399.8	300.6	499.1	248.02	551.6
## 1988.7317	399.9	300.4	499.4	247.73	552.0
## 1988.7344	400.0	300.2	499.7	247.45	552.5
## 1988.7372	400.0	300.1	500.0	247.16	552.9
## 1988.7399	400.1	299.9	500.3	246.88	553.3
## 1988.7426	400.2	299.8	500.6	246.60	553.7
## 1988.7454	400.2	299.6	500.9	246.32	554.1
## 1988.7481	400.3	299.4	501.2	246.03	554.6
## 1988.7509	400.4	299.3	501.5	245.75	555.0
## 1988.7536	400.4	299.1	501.8	245.47	555.4
## 1988.7563	400.5	298.9	502.1	245.19	555.8
## 1988.7591	400.6	298.8	502.4	244.91	556.2
## 1988.7618	400.6	298.6	502.7	244.63	556.7
## 1988.7645	400.7	298.5	503.0	244.35	557.1
## 1988.7673	400.8	298.3	503.2	244.07	557.5
## 1988.7700	400.8	298.2	503.5	243.79	557.9
## 1988.7728	400.9	298.0	503.8	243.51	558.3
## 1988.7755	401.0	297.8	504.1	243.23	558.7
## 1988.7782	401.1	297.7	504.4	242.95	559.2
## 1988.7810	401.1	297.5	504.7	242.67	559.6
## 1988.7837	401.2	297.4	505.0	242.40	560.0
## 1988.7864	401.3	297.2	505.3	242.12	560.4
## 1988.7892	401.3	297.0	505.6	241.84	560.8
## 1988.7919	401.4	296.9	505.9	241.57	561.2
## 1988.7947	401.5	296.7	506.2	241.29	561.6
## 1988.7974	401.5	296.6	506.5	241.01	562.1
## 1988.8001	401.6	296.4	506.8	240.74	562.5
## 1988.8029	401.7	296.3	507.1	240.46	562.9
## 1988.8056	401.7	296.1	507.4	240.19	563.3
## 1988.8084	401.8	296.0	507.7	239.91	563.7
## 1988.8111	401.9	295.8	508.0	239.64	564.1
## 1988.8138	401.9	295.6	508.3	239.36	564.5
## 1988.8166	402.0	295.5	508.5	239.09	564.9
## 1988.8193	402.1	295.3	508.8	238.82	565.4
## 1988.8220	402.2	295.2	509.1	238.54	565.8
## 1988.8248	402.2	295.0	509.4	238.27	566.2
## 1988.8275	402.3	294.9	509.7	238.00	566.6
## 1988.8303	402.4	294.7	510.0	237.73	567.0
## 1988.8330	402.4	294.6	510.3	237.45	567.4
## 1988.8357	402.5	294.4	510.6	237.18	567.8
## 1988.8385	402.6	294.2	510.9	236.91	568.2
## 1988.8412	402.6	294.1	511.2	236.64	568.6
## 1988.8439	402.7	293.9	511.5	236.37	569.0

## 1988.8467	402.8	293.8	511.8	236.10	569.4
## 1988.8494	402.8	293.6	512.0	235.83	569.9
## 1988.8522	402.9	293.5	512.3	235.56	570.3
## 1988.8549	403.0	293.3	512.6	235.29	570.7
## 1988.8576	403.0	293.2	512.9	235.02	571.1
## 1988.8604	403.1	293.0	513.2	234.75	571.5
## 1988.8631	403.2	292.9	513.5	234.48	571.9
## 1988.8658	403.3	292.7	513.8	234.21	572.3
## 1988.8686	403.3	292.6	514.1	233.95	572.7
## 1988.8713	403.4	292.4	514.4	233.68	573.1
## 1988.8741	403.5	292.3	514.6	233.41	573.5
## 1988.8768	403.5	292.1	514.9	233.14	573.9
## 1988.8795	403.6	292.0	515.2	232.88	574.3
## 1988.8823	403.7	291.8	515.5	232.61	574.7
## 1988.8850	403.7	291.7	515.8	232.34	575.1
## 1988.8877	403.8	291.5	516.1	232.08	575.5
## 1988.8905	403.9	291.4	516.4	231.81	575.9
## 1988.8932	403.9	291.2	516.7	231.54	576.3
## 1988.8960	404.0	291.1	517.0	231.28	576.7
## 1988.8987	404.1	290.9	517.2	231.01	577.1
## 1988.9014	404.1	290.8	517.5	230.75	577.5
## 1988.9042	404.2	290.6	517.8	230.48	577.9
## 1988.9069	404.3	290.5	518.1	230.22	578.3
## 1988.9097	404.4	290.3	518.4	229.95	578.8
## 1988.9124	404.4	290.2	518.7	229.69	579.2
## 1988.9151	404.5	290.0	519.0	229.43	579.6
## 1988.9179	404.6	289.9	519.2	229.16	580.0
## 1988.9206	404.6	289.7	519.5	228.90	580.4
## 1988.9233	404.7	289.6	519.8	228.64	580.8
## 1988.9261	404.8	289.4	520.1	228.38	581.2
## 1988.9288	404.8	289.3	520.4	228.11	581.6
## 1988.9316	404.9	289.1	520.7	227.85	582.0
## 1988.9343	405.0	289.0	521.0	227.59	582.4
## 1988.9370	405.0	288.8	521.2	227.33	582.8
## 1988.9398	405.1	288.7	521.5	227.07	583.2
## 1988.9425	405.2	288.5	521.8	226.80	583.5
## 1988.9452	405.2	288.4	522.1	226.54	583.9
## 1988.9480	405.3	288.3	522.4	226.28	584.3
## 1988.9507	405.4	288.1	522.7	226.02	584.7
## 1988.9535	405.5	288.0	522.9	225.76	585.1
## 1988.9562	405.5	287.8	523.2	225.50	585.5
## 1988.9589	405.6	287.7	523.5	225.24	585.9
## 1988.9617	405.7	287.5	523.8	224.98	586.3
## 1988.9644	405.7	287.4	524.1	224.72	586.7
## 1988.9671	405.8	287.2	524.4	224.46	587.1
## 1988.9699	405.9	287.1	524.6	224.20	587.5
## 1988.9726	405.9	286.9	524.9	223.95	587.9
## 1988.9754	406.0	286.8	525.2	223.69	588.3
## 1988.9781	406.1	286.6	525.5	223.43	588.7
## 1988.9808	406.1	286.5	525.8	223.17	589.1
## 1988.9836	406.2	286.4	526.1	222.91	589.5
## 1988.9863	406.3	286.2	526.3	222.66	589.9

## 1988.9890	406.3	286.1	526.6	222.40	590.3
## 1988.9918	406.4	285.9	526.9	222.14	590.7
## 1988.9945	406.5	285.8	527.2	221.88	591.1
## 1988.9973	406.6	285.6	527.5	221.63	591.5
## 1989.0000	406.6	285.5	527.7	221.37	591.9
## 1989.0027	406.7	285.3	528.0	221.11	592.3
## 1989.0055	406.8	285.2	528.3	220.86	592.7
## 1989.0082	406.8	285.1	528.6	220.60	593.0
## 1989.0110	406.9	284.9	528.9	220.35	593.4
## 1989.0137	407.0	284.8	529.2	220.09	593.8
## 1989.0164	407.0	284.6	529.4	219.84	594.2
## 1989.0192	407.1	284.5	529.7	219.58	594.6
## 1989.0219	407.2	284.3	530.0	219.33	595.0
## 1989.0246	407.2	284.2	530.3	219.07	595.4
## 1989.0274	407.3	284.1	530.6	218.82	595.8
## 1989.0301	407.4	283.9	530.8	218.56	596.2
## 1989.0329	407.4	283.8	531.1	218.31	596.6
## 1989.0356	407.5	283.6	531.4	218.06	597.0
## 1989.0383	407.6	283.5	531.7	217.80	597.4
## 1989.0411	407.7	283.3	532.0	217.55	597.8
## 1989.0438	407.7	283.2	532.2	217.30	598.1
## 1989.0465	407.8	283.1	532.5	217.04	598.5
## 1989.0493	407.9	282.9	532.8	216.79	598.9
## 1989.0520	407.9	282.8	533.1	216.54	599.3
## 1989.0548	408.0	282.6	533.3	216.28	599.7
## 1989.0575	408.1	282.5	533.6	216.03	600.1
## 1989.0602	408.1	282.4	533.9	215.78	600.5
## 1989.0630	408.2	282.2	534.2	215.53	600.9
## 1989.0657	408.3	282.1	534.5	215.28	601.3
## 1989.0684	408.3	281.9	534.7	215.02	601.6
## 1989.0712	408.4	281.8	535.0	214.77	602.0
## 1989.0739	408.5	281.7	535.3	214.52	602.4
## 1989.0767	408.5	281.5	535.6	214.27	602.8
## 1989.0794	408.6	281.4	535.8	214.02	603.2
## 1989.0821	408.7	281.2	536.1	213.77	603.6
## 1989.0849	408.7	281.1	536.4	213.52	604.0
## 1989.0876	408.8	281.0	536.7	213.27	604.4
## 1989.0903	408.9	280.8	537.0	213.02	604.8
## 1989.0931	409.0	280.7	537.2	212.77	605.1
## 1989.0958	409.0	280.5	537.5	212.52	605.5
## 1989.0986	409.1	280.4	537.8	212.27	605.9
## 1989.1013	409.2	280.3	538.1	212.02	606.3
## 1989.1040	409.2	280.1	538.3	211.77	606.7
## 1989.1068	409.3	280.0	538.6	211.52	607.1
## 1989.1095	409.4	279.8	538.9	211.27	607.5
## 1989.1123	409.4	279.7	539.2	211.03	607.8
## 1989.1150	409.5	279.6	539.4	210.78	608.2
## 1989.1177	409.6	279.4	539.7	210.53	608.6
## 1989.1205	409.6	279.3	540.0	210.28	609.0
## 1989.1232	409.7	279.1	540.3	210.03	609.4
## 1989.1259	409.8	279.0	540.5	209.78	609.8
## 1989.1287	409.8	278.9	540.8	209.54	610.2

## 1989.1314	409.9	278.7	541.1	209.29	610.5
## 1989.1342	410.0	278.6	541.4	209.04	610.9
## 1989.1369	410.1	278.5	541.7	208.80	611.3
## 1989.1396	410.1	278.3	541.9	208.55	611.7
## 1989.1424	410.2	278.2	542.2	208.30	612.1
## 1989.1451	410.3	278.0	542.5	208.06	612.5
## 1989.1478	410.3	277.9	542.8	207.81	612.8
## 1989.1506	410.4	277.8	543.0	207.56	613.2
## 1989.1533	410.5	277.6	543.3	207.32	613.6
## 1989.1561	410.5	277.5	543.6	207.07	614.0
## 1989.1588	410.6	277.4	543.8	206.82	614.4
## 1989.1615	410.7	277.2	544.1	206.58	614.8
## 1989.1643	410.7	277.1	544.4	206.33	615.1
## 1989.1670	410.8	276.9	544.7	206.09	615.5
## 1989.1697	410.9	276.8	544.9	205.84	615.9
## 1989.1725	410.9	276.7	545.2	205.60	616.3
## 1989.1752	411.0	276.5	545.5	205.35	616.7
## 1989.1780	411.1	276.4	545.8	205.11	617.1
## 1989.1807	411.2	276.3	546.0	204.86	617.4
## 1989.1834	411.2	276.1	546.3	204.62	617.8
## 1989.1862	411.3	276.0	546.6	204.38	618.2
## 1989.1889	411.4	275.9	546.9	204.13	618.6
## 1989.1916	411.4	275.7	547.1	203.89	619.0
## 1989.1944	411.5	275.6	547.4	203.64	619.4
## 1989.1971	411.6	275.5	547.7	203.40	619.7
## 1989.1999	411.6	275.3	548.0	203.16	620.1
## 1989.2026	411.7	275.2	548.2	202.91	620.5
## 1989.2053	411.8	275.0	548.5	202.67	620.9
## 1989.2081	411.8	274.9	548.8	202.43	621.3
## 1989.2108	411.9	274.8	549.0	202.18	621.6
## 1989.2136	412.0	274.6	549.3	201.94	622.0
## 1989.2163	412.0	274.5	549.6	201.70	622.4
## 1989.2190	412.1	274.4	549.9	201.46	622.8
## 1989.2218	412.2	274.2	550.1	201.21	623.2
## 1989.2245	412.3	274.1	550.4	200.97	623.5
## 1989.2272	412.3	274.0	550.7	200.73	623.9
## 1989.2300	412.4	273.8	550.9	200.49	624.3
## 1989.2327	412.5	273.7	551.2	200.25	624.7
## 1989.2355	412.5	273.6	551.5	200.00	625.1
## 1989.2382	412.6	273.4	551.8	199.76	625.4
## 1989.2409	412.7	273.3	552.0	199.52	625.8
## 1989.2437	412.7	273.2	552.3	199.28	626.2
## 1989.2464	412.8	273.0	552.6	199.04	626.6
## 1989.2491	412.9	272.9	552.8	198.80	626.9
## 1989.2519	412.9	272.8	553.1	198.56	627.3
## 1989.2546	413.0	272.6	553.4	198.32	627.7
## 1989.2574	413.1	272.5	553.7	198.08	628.1
## 1989.2601	413.1	272.4	553.9	197.84	628.5
## 1989.2628	413.2	272.2	554.2	197.60	628.8
## 1989.2656	413.3	272.1	554.5	197.36	629.2
## 1989.2683	413.4	272.0	554.7	197.12	629.6
## 1989.2710	413.4	271.8	555.0	196.88	630.0

## 1989.2738	413.5	271.7	555.3	196.64	630.3
## 1989.2765	413.6	271.6	555.6	196.40	630.7
## 1989.2793	413.6	271.4	555.8	196.16	631.1
## 1989.2820	413.7	271.3	556.1	195.92	631.5
## 1989.2847	413.8	271.2	556.4	195.68	631.8
## 1989.2875	413.8	271.0	556.6	195.44	632.2
## 1989.2902	413.9	270.9	556.9	195.20	632.6
## 1989.2930	414.0	270.8	557.2	194.96	633.0
## 1989.2957	414.0	270.6	557.4	194.72	633.4
## 1989.2984	414.1	270.5	557.7	194.48	633.7
## 1989.3012	414.2	270.4	558.0	194.25	634.1
## 1989.3039	414.2	270.2	558.3	194.01	634.5
## 1989.3066	414.3	270.1	558.5	193.77	634.9
## 1989.3094	414.4	270.0	558.8	193.53	635.2
## 1989.3121	414.5	269.8	559.1	193.29	635.6
## 1989.3149	414.5	269.7	559.3	193.06	636.0
## 1989.3176	414.6	269.6	559.6	192.82	636.4
## 1989.3203	414.7	269.4	559.9	192.58	636.7
## 1989.3231	414.7	269.3	560.1	192.34	637.1
## 1989.3258	414.8	269.2	560.4	192.11	637.5
## 1989.3285	414.9	269.1	560.7	191.87	637.9
## 1989.3313	414.9	268.9	560.9	191.63	638.2
## 1989.3340	415.0	268.8	561.2	191.40	638.6
## 1989.3368	415.1	268.7	561.5	191.16	639.0
## 1989.3395	415.1	268.5	561.7	190.92	639.4
## 1989.3422	415.2	268.4	562.0	190.69	639.7
## 1989.3450	415.3	268.3	562.3	190.45	640.1
## 1989.3477	415.3	268.1	562.6	190.21	640.5
## 1989.3504	415.4	268.0	562.8	189.98	640.8
## 1989.3532	415.5	267.9	563.1	189.74	641.2
## 1989.3559	415.6	267.7	563.4	189.50	641.6
## 1989.3587	415.6	267.6	563.6	189.27	642.0
## 1989.3614	415.7	267.5	563.9	189.03	642.3
## 1989.3641	415.8	267.4	564.2	188.80	642.7
## 1989.3669	415.8	267.2	564.4	188.56	643.1
## 1989.3696	415.9	267.1	564.7	188.33	643.5
## 1989.3723	416.0	267.0	565.0	188.09	643.8
## 1989.3751	416.0	266.8	565.2	187.86	644.2
## 1989.3778	416.1	266.7	565.5	187.62	644.6
## 1989.3806	416.2	266.6	565.8	187.39	645.0
## 1989.3833	416.2	266.4	566.0	187.15	645.3
## 1989.3860	416.3	266.3	566.3	186.92	645.7
## 1989.3888	416.4	266.2	566.6	186.68	646.1
## 1989.3915	416.4	266.1	566.8	186.45	646.4
## 1989.3943	416.5	265.9	567.1	186.21	646.8
## 1989.3970	416.6	265.8	567.4	185.98	647.2
## 1989.3997	416.6	265.7	567.6	185.74	647.6
## 1989.4025	416.7	265.5	567.9	185.51	647.9
## 1989.4052	416.8	265.4	568.2	185.28	648.3
## 1989.4079	416.9	265.3	568.4	185.04	648.7
## 1989.4107	416.9	265.2	568.7	184.81	649.0
## 1989.4134	417.0	265.0	569.0	184.58	649.4

## 1989.4162	417.1	264.9	569.2	184.34	649.8
## 1989.4189	417.1	264.8	569.5	184.11	650.2
## 1989.4216	417.2	264.6	569.8	183.88	650.5
## 1989.4244	417.3	264.5	570.0	183.64	650.9
## 1989.4271	417.3	264.4	570.3	183.41	651.3
## 1989.4298	417.4	264.3	570.6	183.18	651.6
## 1989.4326	417.5	264.1	570.8	182.94	652.0
## 1989.4353	417.5	264.0	571.1	182.71	652.4
## 1989.4381	417.6	263.9	571.4	182.48	652.7
## 1989.4408	417.7	263.7	571.6	182.25	653.1
## 1989.4435	417.7	263.6	571.9	182.01	653.5
## 1989.4463	417.8	263.5	572.2	181.78	653.9
## 1989.4490	417.9	263.4	572.4	181.55	654.2
## 1989.4517	418.0	263.2	572.7	181.32	654.6
## 1989.4545	418.0	263.1	573.0	181.08	655.0
## 1989.4572	418.1	263.0	573.2	180.85	655.3
## 1989.4600	418.2	262.8	573.5	180.62	655.7
## 1989.4627	418.2	262.7	573.7	180.39	656.1
## 1989.4654	418.3	262.6	574.0	180.16	656.4
## 1989.4682	418.4	262.5	574.3	179.93	656.8
## 1989.4709	418.4	262.3	574.5	179.69	657.2
## 1989.4736	418.5	262.2	574.8	179.46	657.5
## 1989.4764	418.6	262.1	575.1	179.23	657.9
## 1989.4791	418.6	261.9	575.3	179.00	658.3
## 1989.4819	418.7	261.8	575.6	178.77	658.7
## 1989.4846	418.8	261.7	575.9	178.54	659.0
## 1989.4873	418.8	261.6	576.1	178.31	659.4
## 1989.4901	418.9	261.4	576.4	178.08	659.8
## 1989.4928	419.0	261.3	576.7	177.85	660.1
## 1989.4956	419.1	261.2	576.9	177.62	660.5
## 1989.4983	419.1	261.1	577.2	177.38	660.9
## 1989.5010	419.2	260.9	577.5	177.15	661.2
## 1989.5038	419.3	260.8	577.7	176.92	661.6
## 1989.5065	419.3	260.7	578.0	176.69	662.0
## 1989.5092	419.4	260.6	578.2	176.46	662.3
## 1989.5120	419.5	260.4	578.5	176.23	662.7
## 1989.5147	419.5	260.3	578.8	176.00	663.1
## 1989.5175	419.6	260.2	579.0	175.77	663.4
## 1989.5202	419.7	260.0	579.3	175.54	663.8
## 1989.5229	419.7	259.9	579.6	175.31	664.2
## 1989.5257	419.8	259.8	579.8	175.09	664.5
## 1989.5284	419.9	259.7	580.1	174.86	664.9
## 1989.5311	419.9	259.5	580.4	174.63	665.3
## 1989.5339	420.0	259.4	580.6	174.40	665.6
## 1989.5366	420.1	259.3	580.9	174.17	666.0
## 1989.5394	420.2	259.2	581.1	173.94	666.4
## 1989.5421	420.2	259.0	581.4	173.71	666.7
## 1989.5448	420.3	258.9	581.7	173.48	667.1
## 1989.5476	420.4	258.8	581.9	173.25	667.5
## 1989.5503	420.4	258.7	582.2	173.02	667.8
## 1989.5530	420.5	258.5	582.5	172.80	668.2
## 1989.5558	420.6	258.4	582.7	172.57	668.6

## 1989.5585	420.6	258.3	583.0	172.34	668.9
## 1989.5613	420.7	258.2	583.2	172.11	669.3
## 1989.5640	420.8	258.0	583.5	171.88	669.7
## 1989.5667	420.8	257.9	583.8	171.65	670.0
## 1989.5695	420.9	257.8	584.0	171.43	670.4
## 1989.5722	421.0	257.7	584.3	171.20	670.8
## 1989.5749	421.0	257.5	584.6	170.97	671.1
## 1989.5777	421.1	257.4	584.8	170.74	671.5
## 1989.5804	421.2	257.3	585.1	170.51	671.9
## 1989.5832	421.3	257.2	585.4	170.29	672.2
## 1989.5859	421.3	257.0	585.6	170.06	672.6
## 1989.5886	421.4	256.9	585.9	169.83	672.9
## 1989.5914	421.5	256.8	586.1	169.60	673.3
## 1989.5941	421.5	256.7	586.4	169.38	673.7
## 1989.5969	421.6	256.5	586.7	169.15	674.0
## 1989.5996	421.7	256.4	586.9	168.92	674.4
## 1989.6023	421.7	256.3	587.2	168.69	674.8
## 1989.6051	421.8	256.2	587.4	168.47	675.1
## 1989.6078	421.9	256.0	587.7	168.24	675.5
## 1989.6105	421.9	255.9	588.0	168.01	675.9
## 1989.6133	422.0	255.8	588.2	167.79	676.2
## 1989.6160	422.1	255.7	588.5	167.56	676.6
## 1989.6188	422.1	255.5	588.8	167.33	677.0
## 1989.6215	422.2	255.4	589.0	167.11	677.3
## 1989.6242	422.3	255.3	589.3	166.88	677.7
## 1989.6270	422.4	255.2	589.5	166.65	678.0
## 1989.6297	422.4	255.0	589.8	166.43	678.4
## 1989.6324	422.5	254.9	590.1	166.20	678.8
## 1989.6352	422.6	254.8	590.3	165.98	679.1
## 1989.6379	422.6	254.7	590.6	165.75	679.5
## 1989.6407	422.7	254.5	590.8	165.52	679.9
## 1989.6434	422.8	254.4	591.1	165.30	680.2
## 1989.6461	422.8	254.3	591.4	165.07	680.6
## 1989.6489	422.9	254.2	591.6	164.85	681.0
## 1989.6516	423.0	254.0	591.9	164.62	681.3
## 1989.6543	423.0	253.9	592.2	164.40	681.7
## 1989.6571	423.1	253.8	592.4	164.17	682.0
## 1989.6598	423.2	253.7	592.7	163.95	682.4
## 1989.6626	423.2	253.6	592.9	163.72	682.8
## 1989.6653	423.3	253.4	593.2	163.49	683.1
## 1989.6680	423.4	253.3	593.5	163.27	683.5
## 1989.6708	423.5	253.2	593.7	163.04	683.9
## 1989.6735	423.5	253.1	594.0	162.82	684.2
## 1989.6762	423.6	252.9	594.2	162.59	684.6
## 1989.6790	423.7	252.8	594.5	162.37	684.9
## 1989.6817	423.7	252.7	594.8	162.14	685.3
## 1989.6845	423.8	252.6	595.0	161.92	685.7
## 1989.6872	423.9	252.4	595.3	161.70	686.0
## 1989.6899	423.9	252.3	595.5	161.47	686.4
## 1989.6927	424.0	252.2	595.8	161.25	686.8
## 1989.6954	424.1	252.1	596.1	161.02	687.1
## 1989.6982	424.1	251.9	596.3	160.80	687.5

## 1989.7009	424.2	251.8	596.6	160.57	687.8
## 1989.7036	424.3	251.7	596.8	160.35	688.2
## 1989.7064	424.3	251.6	597.1	160.13	688.6
## 1989.7091	424.4	251.5	597.4	159.90	688.9
## 1989.7118	424.5	251.3	597.6	159.68	689.3
## 1989.7146	424.6	251.2	597.9	159.45	689.6
## 1989.7173	424.6	251.1	598.1	159.23	690.0
## 1989.7201	424.7	251.0	598.4	159.01	690.4
## 1989.7228	424.8	250.8	598.7	158.78	690.7
## 1989.7255	424.8	250.7	598.9	158.56	691.1
## 1989.7283	424.9	250.6	599.2	158.34	691.5
## 1989.7310	425.0	250.5	599.4	158.11	691.8
## 1989.7337	425.0	250.4	599.7	157.89	692.2
## 1989.7365	425.1	250.2	600.0	157.67	692.5
## 1989.7392	425.2	250.1	600.2	157.44	692.9
## 1989.7420	425.2	250.0	600.5	157.22	693.3
## 1989.7447	425.3	249.9	600.7	157.00	693.6
## 1989.7474	425.4	249.7	601.0	156.77	694.0
## 1989.7502	425.4	249.6	601.3	156.55	694.3
## 1989.7529	425.5	249.5	601.5	156.33	694.7
## 1989.7556	425.6	249.4	601.8	156.10	695.1
## 1989.7584	425.6	249.3	602.0	155.88	695.4
## 1989.7611	425.7	249.1	602.3	155.66	695.8
## 1989.7639	425.8	249.0	602.6	155.44	696.1
## 1989.7666	425.9	248.9	602.8	155.21	696.5
## 1989.7693	425.9	248.8	603.1	154.99	696.9
## 1989.7721	426.0	248.6	603.3	154.77	697.2
## 1989.7748	426.1	248.5	603.6	154.55	697.6
## 1989.7775	426.1	248.4	603.9	154.32	697.9
## 1989.7803	426.2	248.3	604.1	154.10	698.3
## 1989.7830	426.3	248.2	604.4	153.88	698.7
## 1989.7858	426.3	248.0	604.6	153.66	699.0
## 1989.7885	426.4	247.9	604.9	153.44	699.4
## 1989.7912	426.5	247.8	605.1	153.21	699.7
## 1989.7940	426.5	247.7	605.4	152.99	700.1
## 1989.7967	426.6	247.6	605.7	152.77	700.5
## 1989.7995	426.7	247.4	605.9	152.55	700.8
## 1989.8022	426.7	247.3	606.2	152.33	701.2
## 1989.8049	426.8	247.2	606.4	152.10	701.5
## 1989.8077	426.9	247.1	606.7	151.88	701.9
## 1989.8104	427.0	247.0	607.0	151.66	702.2
## 1989.8131	427.0	246.8	607.2	151.44	702.6
## 1989.8159	427.1	246.7	607.5	151.22	703.0
## 1989.8186	427.2	246.6	607.7	151.00	703.3
## 1989.8214	427.2	246.5	608.0	150.78	703.7
## 1989.8241	427.3	246.3	608.3	150.56	704.0
## 1989.8268	427.4	246.2	608.5	150.33	704.4
## 1989.8296	427.4	246.1	608.8	150.11	704.8
## 1989.8323	427.5	246.0	609.0	149.89	705.1
## 1989.8350	427.6	245.9	609.3	149.67	705.5
## 1989.8378	427.6	245.7	609.5	149.45	705.8
## 1989.8405	427.7	245.6	609.8	149.23	706.2

## 1989.8433	427.8	245.5	610.1	149.01	706.5
## 1989.8460	427.8	245.4	610.3	148.79	706.9
## 1989.8487	427.9	245.3	610.6	148.57	707.3
## 1989.8515	428.0	245.1	610.8	148.35	707.6
## 1989.8542	428.1	245.0	611.1	148.13	708.0
## 1989.8569	428.1	244.9	611.3	147.91	708.3
## 1989.8597	428.2	244.8	611.6	147.69	708.7
## 1989.8624	428.3	244.7	611.9	147.47	709.1
## 1989.8652	428.3	244.5	612.1	147.25	709.4
## 1989.8679	428.4	244.4	612.4	147.03	709.8
## 1989.8706	428.5	244.3	612.6	146.80	710.1
## 1989.8734	428.5	244.2	612.9	146.58	710.5
## 1989.8761	428.6	244.1	613.1	146.36	710.8
## 1989.8789	428.7	243.9	613.4	146.14	711.2
## 1989.8816	428.7	243.8	613.7	145.93	711.6
## 1989.8843	428.8	243.7	613.9	145.71	711.9
## 1989.8871	428.9	243.6	614.2	145.49	712.3
## 1989.8898	428.9	243.5	614.4	145.27	712.6
## 1989.8925	429.0	243.3	614.7	145.05	713.0
## 1989.8953	429.1	243.2	615.0	144.83	713.3
## 1989.8980	429.2	243.1	615.2	144.61	713.7
## 1989.9008	429.2	243.0	615.5	144.39	714.1
## 1989.9035	429.3	242.9	615.7	144.17	714.4
## 1989.9062	429.4	242.7	616.0	143.95	714.8
## 1989.9090	429.4	242.6	616.2	143.73	715.1
## 1989.9117	429.5	242.5	616.5	143.51	715.5
## 1989.9144	429.6	242.4	616.7	143.29	715.8
## 1989.9172	429.6	242.3	617.0	143.07	716.2
## 1989.9199	429.7	242.1	617.3	142.85	716.6
## 1989.9227	429.8	242.0	617.5	142.63	716.9
## 1989.9254	429.8	241.9	617.8	142.42	717.3
## 1989.9281	429.9	241.8	618.0	142.20	717.6
## 1989.9309	430.0	241.7	618.3	141.98	718.0
## 1989.9336	430.0	241.5	618.5	141.76	718.3
## 1989.9363	430.1	241.4	618.8	141.54	718.7
## 1989.9391	430.2	241.3	619.1	141.32	719.0
## 1989.9418	430.3	241.2	619.3	141.10	719.4
## 1989.9446	430.3	241.1	619.6	140.88	719.8
## 1989.9473	430.4	240.9	619.8	140.67	720.1
## 1989.9500	430.5	240.8	620.1	140.45	720.5
## 1989.9528	430.5	240.7	620.3	140.23	720.8
## 1989.9555	430.6	240.6	620.6	140.01	721.2
## 1989.9582	430.7	240.5	620.9	139.79	721.5
## 1989.9610	430.7	240.4	621.1	139.57	721.9
## 1989.9637	430.8	240.2	621.4	139.36	722.2
## 1989.9665	430.9	240.1	621.6	139.14	722.6
## 1989.9692	430.9	240.0	621.9	138.92	723.0
## 1989.9719	431.0	239.9	622.1	138.70	723.3
## 1989.9747	431.1	239.8	622.4	138.48	723.7
## 1989.9774	431.1	239.6	622.6	138.27	724.0
## 1989.9802	431.2	239.5	622.9	138.05	724.4
## 1989.9829	431.3	239.4	623.2	137.83	724.7

## 1989.9856	431.4	239.3	623.4	137.61	725.1
## 1989.9884	431.4	239.2	623.7	137.40	725.4
## 1989.9911	431.5	239.0	623.9	137.18	725.8
## 1989.9938	431.6	238.9	624.2	136.96	726.2
## 1989.9966	431.6	238.8	624.4	136.74	726.5
## 1989.9993	431.7	238.7	624.7	136.52	726.9
## 1990.0021	431.8	238.6	625.0	136.31	727.2
## 1990.0048	431.8	238.5	625.2	136.09	727.6
## 1990.0075	431.9	238.3	625.5	135.87	727.9
## 1990.0103	432.0	238.2	625.7	135.66	728.3
## 1990.0130	432.0	238.1	626.0	135.44	728.6
## 1990.0157	432.1	238.0	626.2	135.22	729.0
## 1990.0185	432.2	237.9	626.5	135.00	729.3
## 1990.0212	432.2	237.7	626.7	134.79	729.7
## 1990.0240	432.3	237.6	627.0	134.57	730.1
## 1990.0267	432.4	237.5	627.3	134.35	730.4
## 1990.0294	432.5	237.4	627.5	134.14	730.8
## 1990.0322	432.5	237.3	627.8	133.92	731.1
## 1990.0349	432.6	237.2	628.0	133.70	731.5
## 1990.0376	432.7	237.0	628.3	133.49	731.8
## 1990.0404	432.7	236.9	628.5	133.27	732.2
## 1990.0431	432.8	236.8	628.8	133.05	732.5
## 1990.0459	432.9	236.7	629.0	132.84	732.9
## 1990.0486	432.9	236.6	629.3	132.62	733.2
## 1990.0513	433.0	236.5	629.5	132.40	733.6
## 1990.0541	433.1	236.3	629.8	132.19	734.0
## 1990.0568	433.1	236.2	630.1	131.97	734.3
## 1990.0595	433.2	236.1	630.3	131.75	734.7
## 1990.0623	433.3	236.0	630.6	131.54	735.0
## 1990.0650	433.3	235.9	630.8	131.32	735.4
## 1990.0678	433.4	235.7	631.1	131.11	735.7
## 1990.0705	433.5	235.6	631.3	130.89	736.1
## 1990.0732	433.5	235.5	631.6	130.67	736.4
## 1990.0760	433.6	235.4	631.8	130.46	736.8
## 1990.0787	433.7	235.3	632.1	130.24	737.1
## 1990.0815	433.8	235.2	632.4	130.02	737.5
## 1990.0842	433.8	235.0	632.6	129.81	737.8
## 1990.0869	433.9	234.9	632.9	129.59	738.2
## 1990.0897	434.0	234.8	633.1	129.38	738.5
## 1990.0924	434.0	234.7	633.4	129.16	738.9
## 1990.0951	434.1	234.6	633.6	128.95	739.3
## 1990.0979	434.2	234.5	633.9	128.73	739.6
## 1990.1006	434.2	234.3	634.1	128.51	740.0
## 1990.1034	434.3	234.2	634.4	128.30	740.3
## 1990.1061	434.4	234.1	634.6	128.08	740.7
## 1990.1088	434.4	234.0	634.9	127.87	741.0
## 1990.1116	434.5	233.9	635.2	127.65	741.4
## 1990.1143	434.6	233.8	635.4	127.44	741.7
## 1990.1170	434.6	233.6	635.7	127.22	742.1
## 1990.1198	434.7	233.5	635.9	127.01	742.4
## 1990.1225	434.8	233.4	636.2	126.79	742.8
## 1990.1253	434.9	233.3	636.4	126.58	743.1

## 1990.1280	434.9	233.2	636.7	126.36	743.5
## 1990.1307	435.0	233.0	636.9	126.15	743.8
## 1990.1335	435.1	232.9	637.2	125.93	744.2
## 1990.1362	435.1	232.8	637.4	125.72	744.5
## 1990.1389	435.2	232.7	637.7	125.50	744.9
## 1990.1417	435.3	232.6	638.0	125.29	745.2
## 1990.1444	435.3	232.5	638.2	125.07	745.6
## 1990.1472	435.4	232.3	638.5	124.86	746.0
## 1990.1499	435.5	232.2	638.7	124.64	746.3
## 1990.1526	435.5	232.1	639.0	124.43	746.7
## 1990.1554	435.6	232.0	639.2	124.21	747.0
## 1990.1581	435.7	231.9	639.5	124.00	747.4
## 1990.1608	435.7	231.8	639.7	123.78	747.7
## 1990.1636	435.8	231.6	640.0	123.57	748.1
## 1990.1663	435.9	231.5	640.2	123.35	748.4
## 1990.1691	436.0	231.4	640.5	123.14	748.8
## 1990.1718	436.0	231.3	640.7	122.92	749.1
## 1990.1745	436.1	231.2	641.0	122.71	749.5
## 1990.1773	436.2	231.1	641.3	122.50	749.8
## 1990.1800	436.2	230.9	641.5	122.28	750.2
## 1990.1828	436.3	230.8	641.8	122.07	750.5
## 1990.1855	436.4	230.7	642.0	121.85	750.9
## 1990.1882	436.4	230.6	642.3	121.64	751.2
## 1990.1910	436.5	230.5	642.5	121.42	751.6
## 1990.1937	436.6	230.4	642.8	121.21	751.9
## 1990.1964	436.6	230.3	643.0	121.00	752.3
## 1990.1992	436.7	230.1	643.3	120.78	752.6
## 1990.2019	436.8	230.0	643.5	120.57	753.0
## 1990.2047	436.8	229.9	643.8	120.35	753.3
## 1990.2074	436.9	229.8	644.0	120.14	753.7
## 1990.2101	437.0	229.7	644.3	119.93	754.0
## 1990.2129	437.1	229.6	644.6	119.71	754.4
## 1990.2156	437.1	229.4	644.8	119.50	754.7
## 1990.2183	437.2	229.3	645.1	119.29	755.1
## 1990.2211	437.3	229.2	645.3	119.07	755.4
## 1990.2238	437.3	229.1	645.6	118.86	755.8
## 1990.2266	437.4	229.0	645.8	118.65	756.1
## 1990.2293	437.5	228.9	646.1	118.43	756.5
## 1990.2320	437.5	228.7	646.3	118.22	756.9
## 1990.2348	437.6	228.6	646.6	118.00	757.2
## 1990.2375	437.7	228.5	646.8	117.79	757.6
## 1990.2402	437.7	228.4	647.1	117.58	757.9
## 1990.2430	437.8	228.3	647.3	117.36	758.3
## 1990.2457	437.9	228.2	647.6	117.15	758.6
## 1990.2485	437.9	228.1	647.8	116.94	759.0
## 1990.2512	438.0	227.9	648.1	116.72	759.3
## 1990.2539	438.1	227.8	648.3	116.51	759.7
## 1990.2567	438.2	227.7	648.6	116.30	760.0
## 1990.2594	438.2	227.6	648.9	116.09	760.4
## 1990.2621	438.3	227.5	649.1	115.87	760.7
## 1990.2649	438.4	227.4	649.4	115.66	761.1
## 1990.2676	438.4	227.2	649.6	115.45	761.4

## 1990.2704	438.5	227.1	649.9	115.23	761.8
## 1990.2731	438.6	227.0	650.1	115.02	762.1
## 1990.2758	438.6	226.9	650.4	114.81	762.5
## 1990.2786	438.7	226.8	650.6	114.59	762.8
## 1990.2813	438.8	226.7	650.9	114.38	763.2
## 1990.2841	438.8	226.5	651.1	114.17	763.5
## 1990.2868	438.9	226.4	651.4	113.96	763.9
## 1990.2895	439.0	226.3	651.6	113.74	764.2
## 1990.2923	439.0	226.2	651.9	113.53	764.6
## 1990.2950	439.1	226.1	652.1	113.32	764.9
## 1990.2977	439.2	226.0	652.4	113.11	765.3
## 1990.3005	439.3	225.9	652.6	112.89	765.6
## 1990.3032	439.3	225.7	652.9	112.68	766.0
## 1990.3060	439.4	225.6	653.2	112.47	766.3
## 1990.3087	439.5	225.5	653.4	112.26	766.7
## 1990.3114	439.5	225.4	653.7	112.04	767.0
## 1990.3142	439.6	225.3	653.9	111.83	767.4
## 1990.3169	439.7	225.2	654.2	111.62	767.7
## 1990.3196	439.7	225.1	654.4	111.41	768.1
## 1990.3224	439.8	224.9	654.7	111.20	768.4
## 1990.3251	439.9	224.8	654.9	110.98	768.8
## 1990.3279	439.9	224.7	655.2	110.77	769.1
## 1990.3306	440.0	224.6	655.4	110.56	769.5
## 1990.3333	440.1	224.5	655.7	110.35	769.8
## 1990.3361	440.1	224.4	655.9	110.14	770.2
## 1990.3388	440.2	224.2	656.2	109.92	770.5
## 1990.3415	440.3	224.1	656.4	109.71	770.9
## 1990.3443	440.4	224.0	656.7	109.50	771.2
## 1990.3470	440.4	223.9	656.9	109.29	771.6
## 1990.3498	440.5	223.8	657.2	109.08	771.9
## 1990.3525	440.6	223.7	657.4	108.86	772.2
## 1990.3552	440.6	223.6	657.7	108.65	772.6
## 1990.3580	440.7	223.4	657.9	108.44	772.9
## 1990.3607	440.8	223.3	658.2	108.23	773.3
## 1990.3634	440.8	223.2	658.4	108.02	773.6
## 1990.3662	440.9	223.1	658.7	107.81	774.0
## 1990.3689	441.0	223.0	659.0	107.59	774.3
## 1990.3717	441.0	222.9	659.2	107.38	774.7
## 1990.3744	441.1	222.8	659.5	107.17	775.0
## 1990.3771	441.2	222.6	659.7	106.96	775.4
## 1990.3799	441.2	222.5	660.0	106.75	775.7
## 1990.3826	441.3	222.4	660.2	106.54	776.1
## 1990.3854	441.4	222.3	660.5	106.33	776.4
## 1990.3881	441.5	222.2	660.7	106.11	776.8
## 1990.3908	441.5	222.1	661.0	105.90	777.1
## 1990.3936	441.6	222.0	661.2	105.69	777.5
## 1990.3963	441.7	221.8	661.5	105.48	777.8
## 1990.3990	441.7	221.7	661.7	105.27	778.2
## 1990.4018	441.8	221.6	662.0	105.06	778.5
## 1990.4045	441.9	221.5	662.2	104.85	778.9
## 1990.4073	441.9	221.4	662.5	104.64	779.2
## 1990.4100	442.0	221.3	662.7	104.43	779.6

## 1990.4127	442.1	221.2	663.0	104.21	779.9
## 1990.4155	442.1	221.0	663.2	104.00	780.3
## 1990.4182	442.2	220.9	663.5	103.79	780.6
## 1990.4209	442.3	220.8	663.7	103.58	781.0
## 1990.4237	442.3	220.7	664.0	103.37	781.3
## 1990.4264	442.4	220.6	664.2	103.16	781.7
## 1990.4292	442.5	220.5	664.5	102.95	782.0
## 1990.4319	442.5	220.4	664.7	102.74	782.4
## 1990.4346	442.6	220.2	665.0	102.53	782.7
## 1990.4374	442.7	220.1	665.2	102.32	783.1
## 1990.4401	442.8	220.0	665.5	102.11	783.4
## 1990.4428	442.8	219.9	665.7	101.90	783.8
## 1990.4456	442.9	219.8	666.0	101.69	784.1
## 1990.4483	443.0	219.7	666.2	101.47	784.4
## 1990.4511	443.0	219.6	666.5	101.26	784.8
## 1990.4538	443.1	219.4	666.8	101.05	785.1
## 1990.4565	443.2	219.3	667.0	100.84	785.5
## 1990.4593	443.2	219.2	667.3	100.63	785.8
## 1990.4620	443.3	219.1	667.5	100.42	786.2
## 1990.4648	443.4	219.0	667.8	100.21	786.5
## 1990.4675	443.4	218.9	668.0	100.00	786.9
## 1990.4702	443.5	218.8	668.3	99.79	787.2
## 1990.4730	443.6	218.7	668.5	99.58	787.6
## 1990.4757	443.6	218.5	668.8	99.37	787.9
## 1990.4784	443.7	218.4	669.0	99.16	788.3
## 1990.4812	443.8	218.3	669.3	98.95	788.6
## 1990.4839	443.9	218.2	669.5	98.74	789.0
## 1990.4867	443.9	218.1	669.8	98.53	789.3
## 1990.4894	444.0	218.0	670.0	98.32	789.7
## 1990.4921	444.1	217.9	670.3	98.11	790.0
## 1990.4949	444.1	217.7	670.5	97.90	790.4
## 1990.4976	444.2	217.6	670.8	97.69	790.7
## 1990.5003	444.3	217.5	671.0	97.48	791.1
## 1990.5031	444.3	217.4	671.3	97.27	791.4
## 1990.5058	444.4	217.3	671.5	97.06	791.7
## 1990.5086	444.5	217.2	671.8	96.85	792.1
## 1990.5113	444.5	217.1	672.0	96.64	792.4
## 1990.5140	444.6	216.9	672.3	96.43	792.8
## 1990.5168	444.7	216.8	672.5	96.22	793.1
## 1990.5195	444.7	216.7	672.8	96.01	793.5
## 1990.5222	444.8	216.6	673.0	95.80	793.8
## 1990.5250	444.9	216.5	673.3	95.59	794.2
## 1990.5277	445.0	216.4	673.5	95.38	794.5
## 1990.5305	445.0	216.3	673.8	95.17	794.9
## 1990.5332	445.1	216.2	674.0	94.96	795.2
## 1990.5359	445.2	216.0	674.3	94.76	795.6
## 1990.5387	445.2	215.9	674.5	94.55	795.9
## 1990.5414	445.3	215.8	674.8	94.34	796.3
## 1990.5441	445.4	215.7	675.0	94.13	796.6
## 1990.5469	445.4	215.6	675.3	93.92	797.0
## 1990.5496	445.5	215.5	675.5	93.71	797.3
## 1990.5524	445.6	215.4	675.8	93.50	797.6

## 1990.5551	445.6	215.3	676.0	93.29	798.0
## 1990.5578	445.7	215.1	676.3	93.08	798.3
## 1990.5606	445.8	215.0	676.5	92.87	798.7
## 1990.5633	445.8	214.9	676.8	92.66	799.0
## 1990.5661	445.9	214.8	677.0	92.45	799.4
## 1990.5688	446.0	214.7	677.3	92.24	799.7
## 1990.5715	446.1	214.6	677.5	92.03	800.1
## 1990.5743	446.1	214.5	677.8	91.83	800.4
## 1990.5770	446.2	214.3	678.0	91.62	800.8
## 1990.5797	446.3	214.2	678.3	91.41	801.1
## 1990.5825	446.3	214.1	678.5	91.20	801.5
## 1990.5852	446.4	214.0	678.8	90.99	801.8
## 1990.5880	446.5	213.9	679.0	90.78	802.1
## 1990.5907	446.5	213.8	679.3	90.57	802.5
## 1990.5934	446.6	213.7	679.5	90.36	802.8
## 1990.5962	446.7	213.6	679.8	90.15	803.2
## 1990.5989	446.7	213.4	680.0	89.95	803.5
## 1990.6016	446.8	213.3	680.3	89.74	803.9
## 1990.6044	446.9	213.2	680.5	89.53	804.2
## 1990.6071	446.9	213.1	680.8	89.32	804.6
## 1990.6099	447.0	213.0	681.0	89.11	804.9
## 1990.6126	447.1	212.9	681.3	88.90	805.3
## 1990.6153	447.2	212.8	681.5	88.69	805.6
## 1990.6181	447.2	212.7	681.8	88.48	806.0
## 1990.6208	447.3	212.5	682.0	88.28	806.3
## 1990.6235	447.4	212.4	682.3	88.07	806.6
## 1990.6263	447.4	212.3	682.5	87.86	807.0
## 1990.6290	447.5	212.2	682.8	87.65	807.3
## 1990.6318	447.6	212.1	683.0	87.44	807.7
## 1990.6345	447.6	212.0	683.3	87.23	808.0
## 1990.6372	447.7	211.9	683.5	87.03	808.4
## 1990.6400	447.8	211.8	683.8	86.82	808.7
## 1990.6427	447.8	211.6	684.0	86.61	809.1
## 1990.6454	447.9	211.5	684.3	86.40	809.4
## 1990.6482	448.0	211.4	684.5	86.19	809.8
## 1990.6509	448.0	211.3	684.8	85.98	810.1
## 1990.6537	448.1	211.2	685.0	85.78	810.5
## 1990.6564	448.2	211.1	685.3	85.57	810.8
## 1990.6591	448.3	211.0	685.5	85.36	811.1
## 1990.6619	448.3	210.9	685.8	85.15	811.5
## 1990.6646	448.4	210.7	686.0	84.94	811.8
## 1990.6674	448.5	210.6	686.3	84.74	812.2
## 1990.6701	448.5	210.5	686.5	84.53	812.5
## 1990.6728	448.6	210.4	686.8	84.32	812.9
## 1990.6756	448.7	210.3	687.0	84.11	813.2
## 1990.6783	448.7	210.2	687.3	83.90	813.6
## 1990.6810	448.8	210.1	687.5	83.70	813.9
## 1990.6838	448.9	210.0	687.8	83.49	814.3
## 1990.6865	448.9	209.8	688.0	83.28	814.6
## 1990.6893	449.0	209.7	688.3	83.07	814.9
## 1990.6920	449.1	209.6	688.5	82.86	815.3
## 1990.6947	449.1	209.5	688.8	82.66	815.6

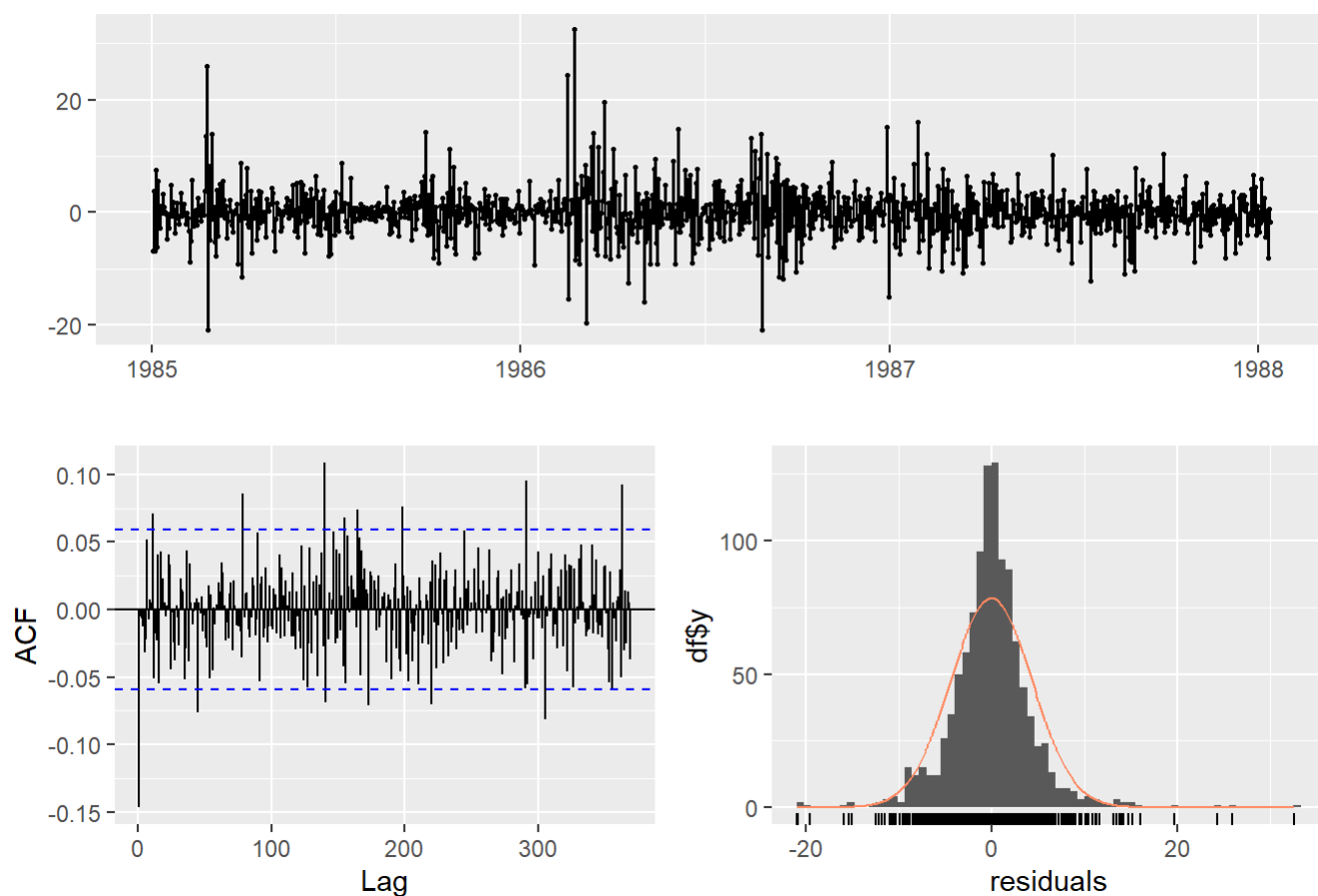
## 1990.6975	449.2	209.4	689.0	82.45	816.0
## 1990.7002	449.3	209.3	689.3	82.24	816.3
## 1990.7029	449.4	209.2	689.5	82.03	816.7
## 1990.7057	449.4	209.1	689.8	81.83	817.0
## 1990.7084	449.5	209.0	690.0	81.62	817.4
## 1990.7112	449.6	208.8	690.3	81.41	817.7
## 1990.7139	449.6	208.7	690.5	81.20	818.0
## 1990.7166	449.7	208.6	690.8	81.00	818.4
## 1990.7194	449.8	208.5	691.0	80.79	818.7
## 1990.7221	449.8	208.4	691.3	80.58	819.1
## 1990.7248	449.9	208.3	691.5	80.37	819.4
## 1990.7276	450.0	208.2	691.8	80.17	819.8
## 1990.7303	450.0	208.1	692.0	79.96	820.1
## 1990.7331	450.1	207.9	692.3	79.75	820.5
## 1990.7358	450.2	207.8	692.5	79.54	820.8
## 1990.7385	450.2	207.7	692.8	79.34	821.2
## 1990.7413	450.3	207.6	693.0	79.13	821.5
## 1990.7440	450.4	207.5	693.3	78.92	821.8
## 1990.7467	450.4	207.4	693.5	78.71	822.2
## 1990.7495	450.5	207.3	693.8	78.51	822.5
## 1990.7522	450.6	207.2	694.0	78.30	822.9
## 1990.7550	450.7	207.0	694.3	78.09	823.2
## 1990.7577	450.7	206.9	694.5	77.88	823.6
## 1990.7604	450.8	206.8	694.8	77.68	823.9
## 1990.7632	450.9	206.7	695.0	77.47	824.3
## 1990.7659	450.9	206.6	695.3	77.26	824.6
## 1990.7687	451.0	206.5	695.5	77.06	824.9
## 1990.7714	451.1	206.4	695.8	76.85	825.3
## 1990.7741	451.1	206.3	696.0	76.64	825.6
## 1990.7769	451.2	206.2	696.3	76.44	826.0
## 1990.7796	451.3	206.0	696.5	76.23	826.3
## 1990.7823	451.3	205.9	696.8	76.02	826.7
## 1990.7851	451.4	205.8	697.0	75.81	827.0
## 1990.7878	451.5	205.7	697.2	75.61	827.4
## 1990.7906	451.5	205.6	697.5	75.40	827.7
## 1990.7933	451.6	205.5	697.7	75.19	828.0
## 1990.7960	451.7	205.4	698.0	74.99	828.4
## 1990.7988	451.8	205.3	698.2	74.78	828.7
## 1990.8015	451.8	205.2	698.5	74.57	829.1
## 1990.8042	451.9	205.0	698.7	74.37	829.4
## 1990.8070	452.0	204.9	699.0	74.16	829.8
## 1990.8097	452.0	204.8	699.2	73.95	830.1
## 1990.8125	452.1	204.7	699.5	73.75	830.4
## 1990.8152	452.2	204.6	699.7	73.54	830.8
## 1990.8179	452.2	204.5	700.0	73.33	831.1
## 1990.8207	452.3	204.4	700.2	73.13	831.5
## 1990.8234	452.4	204.3	700.5	72.92	831.8
## 1990.8261	452.4	204.2	700.7	72.71	832.2
## 1990.8289	452.5	204.0	701.0	72.51	832.5
## 1990.8316	452.6	203.9	701.2	72.30	832.9
## 1990.8344	452.6	203.8	701.5	72.09	833.2
## 1990.8371	452.7	203.7	701.7	71.89	833.5

## 1990.8398	452.8	203.6	702.0	71.68	833.9
## 1990.8426	452.9	203.5	702.2	71.48	834.2
## 1990.8453	452.9	203.4	702.5	71.27	834.6
## 1990.8480	453.0	203.3	702.7	71.06	834.9
## 1990.8508	453.1	203.2	703.0	70.86	835.3
## 1990.8535	453.1	203.0	703.2	70.65	835.6
## 1990.8563	453.2	202.9	703.5	70.44	836.0
## 1990.8590	453.3	202.8	703.7	70.24	836.3
## 1990.8617	453.3	202.7	704.0	70.03	836.6
## 1990.8645	453.4	202.6	704.2	69.82	837.0
## 1990.8672	453.5	202.5	704.5	69.62	837.3
## 1990.8700	453.5	202.4	704.7	69.41	837.7
## 1990.8727	453.6	202.3	705.0	69.21	838.0
## 1990.8754	453.7	202.2	705.2	69.00	838.4
## 1990.8782	453.7	202.0	705.5	68.79	838.7
## 1990.8809	453.8	201.9	705.7	68.59	839.0
## 1990.8836	453.9	201.8	706.0	68.38	839.4
## 1990.8864	454.0	201.7	706.2	68.18	839.7
## 1990.8891	454.0	201.6	706.4	67.97	840.1
## 1990.8919	454.1	201.5	706.7	67.76	840.4
## 1990.8946	454.2	201.4	706.9	67.56	840.8
## 1990.8973	454.2	201.3	707.2	67.35	841.1
## 1990.9001	454.3	201.2	707.4	67.15	841.4
## 1990.9028	454.4	201.0	707.7	66.94	841.8
## 1990.9055	454.4	200.9	707.9	66.73	842.1
## 1990.9083	454.5	200.8	708.2	66.53	842.5
## 1990.9110	454.6	200.7	708.4	66.32	842.8
## 1990.9138	454.6	200.6	708.7	66.12	843.2
## 1990.9165	454.7	200.5	708.9	65.91	843.5
## 1990.9192	454.8	200.4	709.2	65.71	843.8
## 1990.9220	454.8	200.3	709.4	65.50	844.2
## 1990.9247	454.9	200.2	709.7	65.29	844.5
## 1990.9274	455.0	200.0	709.9	65.09	844.9
## 1990.9302	455.1	199.9	710.2	64.88	845.2
## 1990.9329	455.1	199.8	710.4	64.68	845.6
## 1990.9357	455.2	199.7	710.7	64.47	845.9
## 1990.9384	455.3	199.6	710.9	64.27	846.3
## 1990.9411	455.3	199.5	711.2	64.06	846.6
## 1990.9439	455.4	199.4	711.4	63.86	846.9
## 1990.9466	455.5	199.3	711.7	63.65	847.3
## 1990.9493	455.5	199.2	711.9	63.44	847.6
## 1990.9521	455.6	199.0	712.2	63.24	848.0
## 1990.9548	455.7	198.9	712.4	63.03	848.3
## 1990.9576	455.7	198.8	712.7	62.83	848.7
## 1990.9603	455.8	198.7	712.9	62.62	849.0
## 1990.9630	455.9	198.6	713.1	62.42	849.3
## 1990.9658	455.9	198.5	713.4	62.21	849.7
## 1990.9685	456.0	198.4	713.6	62.01	850.0
## 1990.9713	456.1	198.3	713.9	61.80	850.4
## 1990.9740	456.2	198.2	714.1	61.60	850.7
## 1990.9767	456.2	198.1	714.4	61.39	851.0
## 1990.9795	456.3	197.9	714.6	61.19	851.4

## 1990.9822	456.4	197.8	714.9	60.98	851.7
## 1990.9849	456.4	197.7	715.1	60.78	852.1
## 1990.9877	456.5	197.6	715.4	60.57	852.4
## 1990.9904	456.6	197.5	715.6	60.36	852.8
## 1990.9932	456.6	197.4	715.9	60.16	853.1
## 1990.9959	456.7	197.3	716.1	59.95	853.4
## 1990.9986	456.8	197.2	716.4	59.75	853.8
## 1991.0014	456.8	197.1	716.6	59.54	854.1
## 1991.0041	456.9	197.0	716.9	59.34	854.5
## 1991.0068	457.0	196.8	717.1	59.13	854.8
## 1991.0096	457.0	196.7	717.4	58.93	855.2
## 1991.0123	457.1	196.6	717.6	58.72	855.5
## 1991.0151	457.2	196.5	717.9	58.52	855.8
## 1991.0178	457.3	196.4	718.1	58.31	856.2
## 1991.0205	457.3	196.3	718.3	58.11	856.5
## 1991.0233	457.4	196.2	718.6	57.90	856.9
## 1991.0260	457.5	196.1	718.8	57.70	857.2
## 1991.0287	457.5	196.0	719.1	57.50	857.6

```
checkresiduals(rwfff)
```

Residuals from Random walk with drift

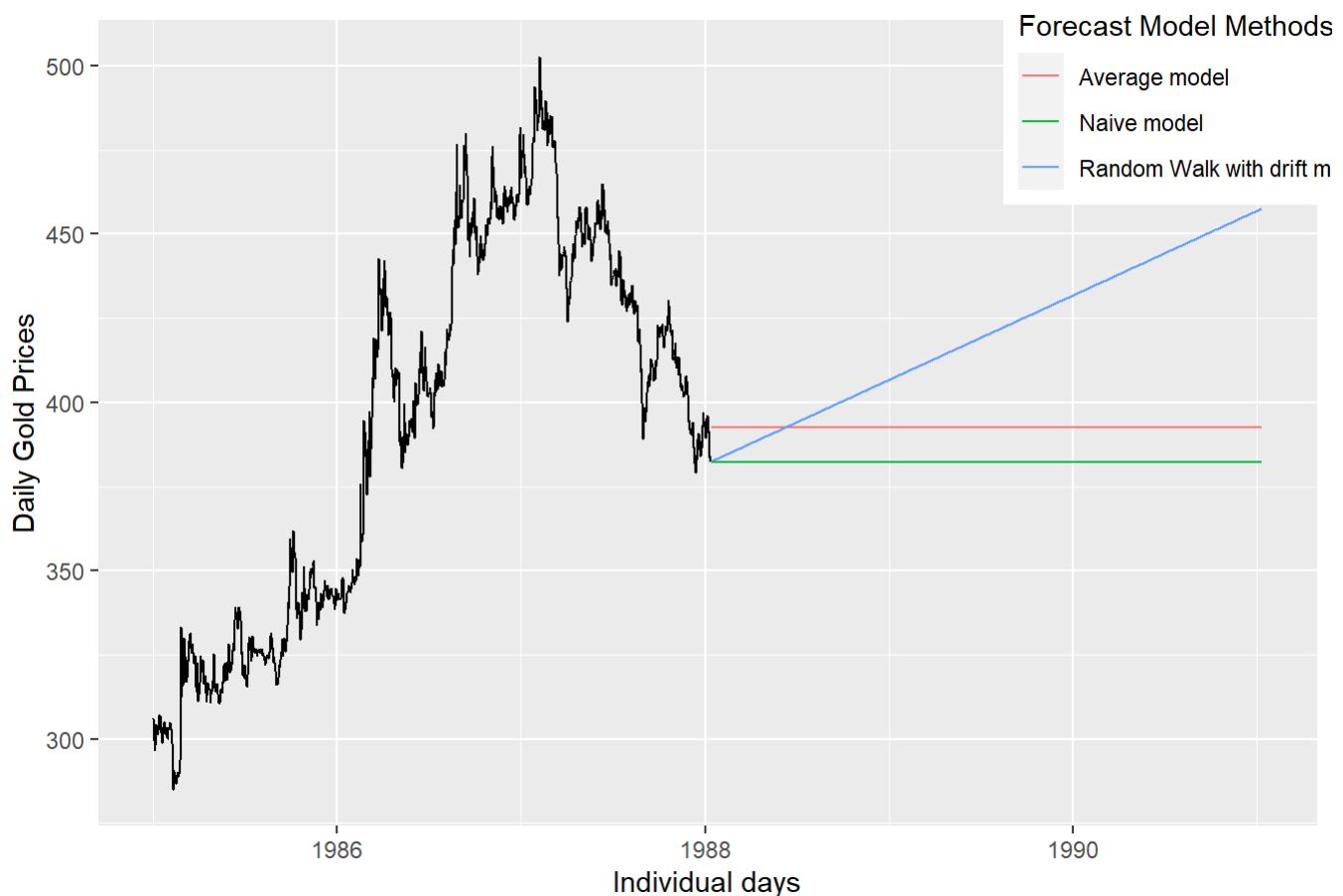


```
##
##  Ljung-Box test
##
## data:  Residuals from Random walk with drift
## Q* = 277, df = 221, p-value = 0.006
##
## Model df: 1.    Total lags used: 222
```

Comaprison plot for 3 models

```
library(ggplot2)

autoplot(data_clean) + forecast::autolayer(meanFoo$mean, series = "Average model")+forecast::autolayer(rwfff$mean, series = "Random Walk with drift model")+forecast::autolayer(naiveFF$mean, series = "Naive model")+xlab("Individual days") +ylab("Daily Gold Prices") + guides (colour = guide_e_legend(title = "Forecast Model Methods")) + theme(legend.position = c(0.9,0.9))
```



```
# Random walk with drift methods is the best model cos it picked up the trend
```