v3.OPEX\_Forecast.Rolling.Stock.Focus

Jason Marshall

September 5, 2018

## [1] "Date"   
## [2] "Region"   
## [3] "X538000...Fuel.Petrol"   
## [4] "X538004...R.M.Delivery.Plant.Vehicles"  
## [5] "X538006...R.M.Field.Equipment"   
## [6] "X538007...R.M.Passenger.Vehicles"

## Date Region X538000...Fuel.Petrol  
## Min. :2013-01-31 Central Cornbelt:67 Min. : 137594   
## 1st Qu.:2014-05-31 Eastern :67 1st Qu.:1002551   
## Median :2015-10-31 Eastern Cornbelt:67 Median :1578450   
## Mean :2015-10-30 South :67 Mean :1693307   
## 3rd Qu.:2017-03-31 West :67 3rd Qu.:2270387   
## Max. :2018-07-31 Western Cornbelt:67 Max. :4237137   
## X538004...R.M.Delivery.Plant.Vehicles X538006...R.M.Field.Equipment  
## Min. : 439858 Min. : 81108   
## 1st Qu.:1072763 1st Qu.: 485653   
## Median :1335891 Median : 846977   
## Mean :1391412 Mean : 889379   
## 3rd Qu.:1679915 3rd Qu.:1179983   
## Max. :2764006 Max. :2805083   
## X538007...R.M.Passenger.Vehicles Rolling.Stock   
## Min. :-14178 Min. :1492340   
## 1st Qu.: 19784 1st Qu.:2922579   
## Median : 43258 Median :3899425   
## Mean : 45608 Mean :4019707   
## 3rd Qu.: 65351 3rd Qu.:4946985   
## Max. :181906 Max. :8451374

## [1] FALSE

## Parsed with column specification:  
## cols(  
## `Invoice Date` = col\_character(),  
## Region = col\_character(),  
## `Region Number` = col\_integer(),  
## Division = col\_character(),  
## `Divsion Number` = col\_integer(),  
## `GL Shelf` = col\_character(),  
## `Net Sales` = col\_number(),  
## `Total Margin` = col\_number()  
## )

#set region to uppper case  
expense.dataset.wide$Region <- toupper(expense.dataset.wide$Region)  
  
#replace space in REGION with .  
expense.dataset.wide$Region <- gsub(" ", ".", expense.dataset.wide$Region)  
US.Sales.Data.Wide$Region <- gsub(" ", ".", US.Sales.Data.Wide$Region)  
  
#create Keys expense data  
expense.dataset.wide$key <- paste(expense.dataset.wide$Date, expense.dataset.wide$Region)  
expense.dataset.wide$key <- gsub(" ", ".", expense.dataset.wide$key)  
  
#create keys sales data  
US.Sales.Data.Wide$key <- paste(US.Sales.Data.Wide$Invoice.Date, US.Sales.Data.Wide$Region)  
#fill space between date and region with "."  
US.Sales.Data.Wide$key <- gsub(" ", ".", US.Sales.Data.Wide$key)  
#join data sets  
US.Sales.RollStock.Data <- dplyr::inner\_join(x = expense.dataset.wide, y = US.Sales.Data.Wide,  
 by = "key")  
  
#set Region to factor  
US.Sales.RollStock.Data$Region.x <- as.factor(US.Sales.RollStock.Data$Region.x)  
  
summary(US.Sales.RollStock.Data)

## Date Region.x X538000...Fuel.Petrol  
## Min. :2014-01-31 CENTRAL.CORNBELT:54 Min. : 137594   
## 1st Qu.:2015-02-28 EASTERN :54 1st Qu.: 946282   
## Median :2016-04-15 EASTERN.CORNBELT:54 Median :1492450   
## Mean :2016-04-15 SOUTH :54 Mean :1608838   
## 3rd Qu.:2017-05-31 WEST :54 3rd Qu.:2121330   
## Max. :2018-06-30 WESTERN.CORNBELT:54 Max. :4237137   
## X538004...R.M.Delivery.Plant.Vehicles X538006...R.M.Field.Equipment  
## Min. : 439858 Min. : 132090   
## 1st Qu.:1051515 1st Qu.: 487911   
## Median :1347619 Median : 853606   
## Mean :1409563 Mean : 907026   
## 3rd Qu.:1716944 3rd Qu.:1195256   
## Max. :2764006 Max. :2805083   
## X538007...R.M.Passenger.Vehicles Rolling.Stock key   
## Min. :-14178 Min. :1492340 Length:324   
## 1st Qu.: 16662 1st Qu.:2864701 Class :character   
## Median : 40610 Median :3783540 Mode :character   
## Mean : 42091 Mean :3967517   
## 3rd Qu.: 60631 3rd Qu.:4866634   
## Max. :181906 Max. :8451374   
## Invoice.Date Region.y APPL   
## Length:324 Length:324 Min. : 261170   
## Class :character Class :character 1st Qu.: 1492920   
## Mode :character Mode :character Median : 3224912   
## Mean : 3757463   
## 3rd Qu.: 4705117   
## Max. :15784771   
## CHEM FERT OTHE   
## Min. : 1913198 Min. : 2877643 Min. :-543098   
## 1st Qu.: 16705086 1st Qu.: 12331962 1st Qu.: 812475   
## Median : 44663436 Median : 32707308 Median :1566850   
## Mean : 50114334 Mean : 43409072 Mean :1816071   
## 3rd Qu.: 74594908 3rd Qu.: 64866433 3rd Qu.:2727368   
## Max. :163664925 Max. :204482155 Max. :5979289   
## SEED Total.Sales   
## Min. : -5870981 Min. : 10845105   
## 1st Qu.: 1860570 1st Qu.: 40015034   
## Median : 5559909 Median : 92050552   
## Mean : 18907513 Mean :118004453   
## 3rd Qu.: 25621489 3rd Qu.:183457826   
## Max. :176171655 Max. :416789698

colnames(US.Sales.RollStock.Data)

## [1] "Date"   
## [2] "Region.x"   
## [3] "X538000...Fuel.Petrol"   
## [4] "X538004...R.M.Delivery.Plant.Vehicles"  
## [5] "X538006...R.M.Field.Equipment"   
## [6] "X538007...R.M.Passenger.Vehicles"   
## [7] "Rolling.Stock"   
## [8] "key"   
## [9] "Invoice.Date"   
## [10] "Region.y"   
## [11] "APPL"   
## [12] "CHEM"   
## [13] "FERT"   
## [14] "OTHE"   
## [15] "SEED"   
## [16] "Total.Sales"

## Create Nested Datasets

## # A tibble: 6 x 2  
## Region.x data.tbl   
## <fct> <list>   
## 1 CENTRAL.CORNBELT <tibble [54 x 15]>  
## 2 EASTERN <tibble [54 x 15]>  
## 3 EASTERN.CORNBELT <tibble [54 x 15]>  
## 4 SOUTH <tibble [54 x 15]>  
## 5 WEST <tibble [54 x 15]>  
## 6 WESTERN.CORNBELT <tibble [54 x 15]>

## [[1]]  
## # A tibble: 54 x 15  
## Date X538000...Fuel.Pe~ X538004...R.M.Delive~ X538006...R.M.Fiel~  
## <date> <dbl> <dbl> <dbl>  
## 1 2014-01-31 963133 1190587 476554  
## 2 2014-02-28 821119 1243586 947348  
## 3 2014-03-31 1830581 1527040 655394  
## 4 2014-04-30 2966217 1549945 1317038  
## 5 2014-05-31 4084873 1837431 1263922  
## 6 2014-06-30 3073649 1126727 1052564  
## 7 2014-07-31 3048688 1108259 1387388  
## 8 2014-08-31 1359933 900842 378426  
## 9 2014-09-30 1576664 1342239 909274  
## 10 2014-10-31 1856649 1350924 1361978  
## # ... with 44 more rows, and 11 more variables:  
## # X538007...R.M.Passenger.Vehicles <dbl>, Rolling.Stock <dbl>,  
## # key <chr>, Invoice.Date <chr>, Region.y <chr>, APPL <dbl>, CHEM <dbl>,  
## # FERT <dbl>, OTHE <dbl>, SEED <dbl>, Total.Sales <dbl>

## # A tibble: 6 x 2  
## Region.x data.tbl   
## <fct> <list>   
## 1 CENTRAL.CORNBELT <tibble [54 x 2]>  
## 2 EASTERN <tibble [54 x 2]>  
## 3 EASTERN.CORNBELT <tibble [54 x 2]>  
## 4 SOUTH <tibble [54 x 2]>  
## 5 WEST <tibble [54 x 2]>  
## 6 WESTERN.CORNBELT <tibble [54 x 2]>

## [[1]]  
## # A tibble: 54 x 2  
## X538000...Fuel.Petrol Date   
## <dbl> <date>   
## 1 963133 2014-01-31  
## 2 821119 2014-02-28  
## 3 1830581 2014-03-31  
## 4 2966217 2014-04-30  
## 5 4084873 2014-05-31  
## 6 3073649 2014-06-30  
## 7 3048688 2014-07-31  
## 8 1359933 2014-08-31  
## 9 1576664 2014-09-30  
## 10 1856649 2014-10-31  
## # ... with 44 more rows

## # A tibble: 6 x 2  
## Region.x data.tbl   
## <fct> <list>   
## 1 CENTRAL.CORNBELT <tibble [54 x 2]>  
## 2 EASTERN <tibble [54 x 2]>  
## 3 EASTERN.CORNBELT <tibble [54 x 2]>  
## 4 SOUTH <tibble [54 x 2]>  
## 5 WEST <tibble [54 x 2]>  
## 6 WESTERN.CORNBELT <tibble [54 x 2]>

## [[1]]  
## # A tibble: 54 x 2  
## X538004...R.M.Delivery.Plant.Vehicles Date   
## <dbl> <date>   
## 1 1190587 2014-01-31  
## 2 1243586 2014-02-28  
## 3 1527040 2014-03-31  
## 4 1549945 2014-04-30  
## 5 1837431 2014-05-31  
## 6 1126727 2014-06-30  
## 7 1108259 2014-07-31  
## 8 900842 2014-08-31  
## 9 1342239 2014-09-30  
## 10 1350924 2014-10-31  
## # ... with 44 more rows

## # A tibble: 6 x 2  
## Region.x data.tbl   
## <fct> <list>   
## 1 CENTRAL.CORNBELT <tibble [54 x 2]>  
## 2 EASTERN <tibble [54 x 2]>  
## 3 EASTERN.CORNBELT <tibble [54 x 2]>  
## 4 SOUTH <tibble [54 x 2]>  
## 5 WEST <tibble [54 x 2]>  
## 6 WESTERN.CORNBELT <tibble [54 x 2]>

## [[1]]  
## # A tibble: 54 x 2  
## X538006...R.M.Field.Equipment Date   
## <dbl> <date>   
## 1 476554 2014-01-31  
## 2 947348 2014-02-28  
## 3 655394 2014-03-31  
## 4 1317038 2014-04-30  
## 5 1263922 2014-05-31  
## 6 1052564 2014-06-30  
## 7 1387388 2014-07-31  
## 8 378426 2014-08-31  
## 9 909274 2014-09-30  
## 10 1361978 2014-10-31  
## # ... with 44 more rows

## # A tibble: 6 x 2  
## Region.x data.tbl   
## <fct> <list>   
## 1 CENTRAL.CORNBELT <tibble [54 x 2]>  
## 2 EASTERN <tibble [54 x 2]>  
## 3 EASTERN.CORNBELT <tibble [54 x 2]>  
## 4 SOUTH <tibble [54 x 2]>  
## 5 WEST <tibble [54 x 2]>  
## 6 WESTERN.CORNBELT <tibble [54 x 2]>

## [[1]]  
## # A tibble: 54 x 2  
## X538007...R.M.Passenger.Vehicles Date   
## <dbl> <date>   
## 1 64944 2014-01-31  
## 2 41464 2014-02-28  
## 3 52804 2014-03-31  
## 4 106400 2014-04-30  
## 5 61374 2014-05-31  
## 6 103110 2014-06-30  
## 7 55534 2014-07-31  
## 8 43532 2014-08-31  
## 9 141173 2014-09-30  
## 10 60632 2014-10-31  
## # ... with 44 more rows

## # A tibble: 6 x 2  
## Region.x data.tbl   
## <fct> <list>   
## 1 CENTRAL.CORNBELT <tibble [54 x 2]>  
## 2 EASTERN <tibble [54 x 2]>  
## 3 EASTERN.CORNBELT <tibble [54 x 2]>  
## 4 SOUTH <tibble [54 x 2]>  
## 5 WEST <tibble [54 x 2]>  
## 6 WESTERN.CORNBELT <tibble [54 x 2]>

## [[1]]  
## # A tibble: 54 x 2  
## Rolling.Stock Date   
## <dbl> <date>   
## 1 2695218 2014-01-31  
## 2 3053517 2014-02-28  
## 3 4065819 2014-03-31  
## 4 5939600 2014-04-30  
## 5 7247600 2014-05-31  
## 6 5356050 2014-06-30  
## 7 5599869 2014-07-31  
## 8 2682733 2014-08-31  
## 9 3969350 2014-09-30  
## 10 4630183 2014-10-31  
## # ... with 44 more rows

## Create TS Objects

## Warning in tk\_xts\_.data.frame(ret, select = select, silent = silent): Non-  
## numeric columns being dropped: Date  
  
## Warning in tk\_xts\_.data.frame(ret, select = select, silent = silent): Non-  
## numeric columns being dropped: Date  
  
## Warning in tk\_xts\_.data.frame(ret, select = select, silent = silent): Non-  
## numeric columns being dropped: Date  
  
## Warning in tk\_xts\_.data.frame(ret, select = select, silent = silent): Non-  
## numeric columns being dropped: Date  
  
## Warning in tk\_xts\_.data.frame(ret, select = select, silent = silent): Non-  
## numeric columns being dropped: Date  
  
## Warning in tk\_xts\_.data.frame(ret, select = select, silent = silent): Non-  
## numeric columns being dropped: Date

## # A tibble: 6 x 3  
## Region.x data.tbl data.ts   
## <fct> <list> <list>   
## 1 CENTRAL.CORNBELT <tibble [54 x 15]> <S3: mts>  
## 2 EASTERN <tibble [54 x 15]> <S3: mts>  
## 3 EASTERN.CORNBELT <tibble [54 x 15]> <S3: mts>  
## 4 SOUTH <tibble [54 x 15]> <S3: mts>  
## 5 WEST <tibble [54 x 15]> <S3: mts>  
## 6 WESTERN.CORNBELT <tibble [54 x 15]> <S3: mts>

## [[1]]  
## X538000...Fuel.Petrol X538004...R.M.Delivery.Plant.Vehicles  
## Jan 2014 963133 1190587  
## Feb 2014 821119 1243586  
## Mar 2014 1830581 1527040  
## Apr 2014 2966217 1549945  
## May 2014 4084873 1837431  
## Jun 2014 3073649 1126727  
## Jul 2014 3048688 1108259  
## Aug 2014 1359933 900842  
## Sep 2014 1576664 1342239  
## Oct 2014 1856649 1350924  
## Nov 2014 2693075 1167164  
## Dec 2014 1957203 1295850  
## Jan 2015 833248 887534  
## Feb 2015 877618 1213361  
## Mar 2015 808040 1444542  
## Apr 2015 2398777 1844400  
## May 2015 2994689 1631492  
## Jun 2015 2232625 1380945  
## Jul 2015 2158878 1471078  
## Aug 2015 1174408 1240015  
## Sep 2015 804677 1355173  
## Oct 2015 1593981 1658464  
## Nov 2015 1574643 1252342  
## Dec 2015 950062 1200289  
## Jan 2016 611064 964264  
## Feb 2016 253493 1492107  
## Mar 2016 1132309 1783793  
## Apr 2016 1625091 2026265  
## May 2016 2236212 1684020  
## Jun 2016 2086915 1515990  
## Jul 2016 1631023 1150006  
## Aug 2016 788380 1314865  
## Sep 2016 1001382 1366047  
## Oct 2016 1089383 1286730  
## Nov 2016 1411802 1173919  
## Dec 2016 1437602 1173095  
## Jan 2017 654189 1262664  
## Feb 2017 564073 1737907  
## Mar 2017 1364630 2098016  
## Apr 2017 1686814 1357297  
## May 2017 2095930 1895039  
## Jun 2017 2020880 891053  
## Jul 2017 1784133 860027  
## Aug 2017 1372306 677653  
## Sep 2017 940486 791841  
## Oct 2017 1341256 980378  
## Nov 2017 2453568 919318  
## Dec 2017 2063383 1038927  
## Jan 2018 966503 843734  
## Feb 2018 814348 1076669  
## Mar 2018 1594110 1506324  
## Apr 2018 2105127 1421889  
## May 2018 3056718 1173170  
## Jun 2018 3705276 1409043  
## X538006...R.M.Field.Equipment X538007...R.M.Passenger.Vehicles  
## Jan 2014 476554 64944  
## Feb 2014 947348 41464  
## Mar 2014 655394 52804  
## Apr 2014 1317038 106400  
## May 2014 1263922 61374  
## Jun 2014 1052564 103110  
## Jul 2014 1387388 55534  
## Aug 2014 378426 43532  
## Sep 2014 909274 141173  
## Oct 2014 1361978 60632  
## Nov 2014 1584922 -14178  
## Dec 2014 1235860 91144  
## Jan 2015 293544 66188  
## Feb 2015 629678 48994  
## Mar 2015 1133860 58741  
## Apr 2015 1182319 75076  
## May 2015 1505441 85656  
## Jun 2015 900502 50566  
## Jul 2015 676542 50658  
## Aug 2015 756738 33506  
## Sep 2015 1005879 50774  
## Oct 2015 1215934 68379  
## Nov 2015 1050690 39302  
## Dec 2015 693086 36796  
## Jan 2016 571502 44572  
## Feb 2016 797230 23764  
## Mar 2016 1056810 44976  
## Apr 2016 1041542 36280  
## May 2016 1148454 42258  
## Jun 2016 742344 47158  
## Jul 2016 702412 26362  
## Aug 2016 714146 47908  
## Sep 2016 1116848 34865  
## Oct 2016 1009546 30436  
## Nov 2016 1011136 30006  
## Dec 2016 696062 39442  
## Jan 2017 600502 26182  
## Feb 2017 562470 46954  
## Mar 2017 1165036 38412  
## Apr 2017 850036 44591  
## May 2017 1492014 81987  
## Jun 2017 1417053 79092  
## Jul 2017 1020833 56590  
## Aug 2017 1614139 63832  
## Sep 2017 1432820 47123  
## Oct 2017 1232313 62705  
## Nov 2017 1747650 40797  
## Dec 2017 1216432 61129  
## Jan 2018 1070075 30239  
## Feb 2018 1462693 51764  
## Mar 2018 1802362 47566  
## Apr 2018 2028089 65925  
## May 2018 1788911 77732  
## Jun 2018 1779660 65193  
## Rolling.Stock APPL CHEM FERT OTHE  
## Jan 2014 2695218 570082.0 6215619 11359216 148083.3  
## Feb 2014 3053517 424992.6 11551143 9594887 210892.0  
## Mar 2014 4065819 2261136.6 48188510 48613114 360321.2  
## Apr 2014 5939600 7360490.5 81154890 127696195 403363.8  
## May 2014 7247600 8782747.6 77235393 93429979 262280.9  
## Jun 2014 5356050 8016045.8 76087465 55787892 208584.9  
## Jul 2014 5599869 8913834.2 64498593 24530113 259723.3  
## Aug 2014 2682733 3324339.2 21999373 13127914 277683.7  
## Sep 2014 3969350 1747843.2 14126679 18370671 447483.9  
## Oct 2014 4630183 3391086.2 9654606 49809520 994151.9  
## Nov 2014 5430983 5767618.9 8062546 70017971 1944332.7  
## Dec 2014 4580057 2622296.8 12720999 36871766 1010674.3  
## Jan 2015 2080514 773541.1 10510571 18211424 -39247.6  
## Feb 2015 2769651 1034939.9 10488058 21945392 384562.4  
## Mar 2015 3445183 2007918.8 54184799 41690868 302338.8  
## Apr 2015 5500572 8072909.8 80371690 140541306 392043.6  
## May 2015 6217278 9800379.7 75050713 101589502 410610.4  
## Jun 2015 4564638 7613869.0 81419081 64633451 408818.8  
## Jul 2015 4357156 9667960.9 65295971 25078234 297987.7  
## Aug 2015 3204667 3947274.9 26216038 11266757 452669.5  
## Sep 2015 3216503 1948280.3 10657334 23017398 815022.5  
## Oct 2015 4536758 4995157.0 8084538 64591325 2295322.3  
## Nov 2015 3916977 5261233.8 18056720 63032738 1893100.9  
## Dec 2015 2880233 2104348.0 7935889 11598413 481035.4  
## Jan 2016 2191402 612713.0 9626272 8998498 -543097.5  
## Feb 2016 2566594 1083227.3 17483681 19154417 232330.2  
## Mar 2016 4017888 4170140.9 60918518 70886495 179982.4  
## Apr 2016 4729178 8633170.4 81454925 100457525 451579.1  
## May 2016 5110944 8969088.3 74055126 60643529 383962.2  
## Jun 2016 4392407 10549840.4 94266575 57279541 402075.6  
## Jul 2016 3509803 7452578.7 47944922 15110694 112864.1  
## Aug 2016 2865299 3967782.0 26529816 7897895 437402.5  
## Sep 2016 3519142 2156759.8 11039571 13418269 603887.8  
## Oct 2016 3416095 4384913.8 12191429 42891624 1756176.7  
## Nov 2016 3626863 6956174.1 17490393 69425972 2340762.1  
## Dec 2016 3346201 2401109.2 8724220 18953911 1069713.9  
## Jan 2017 2543537 463610.2 6782145 6474472 152706.5  
## Feb 2017 2911404 1904974.5 16591760 30553581 221916.6  
## Mar 2017 4666094 3689576.4 47759092 54317666 394650.1  
## Apr 2017 3938738 7222994.0 82624460 75852417 221840.2  
## May 2017 5564970 8064864.7 76283784 59948665 424108.5  
## Jun 2017 4408078 10967364.3 106887528 56603507 267512.3  
## Jul 2017 3721583 7959930.5 59228626 18625028 114246.1  
## Aug 2017 3727930 4437361.3 27928260 9472887 394207.0  
## Sep 2017 3212270 1659185.5 5981826 12188773 606040.2  
## Oct 2017 3616652 4022179.7 10994063 39420169 1359373.5  
## Nov 2017 5161333 7043057.1 19719267 66000400 1900266.7  
## Dec 2017 4379871 4158519.5 13557010 41026350 2036685.1  
## Jan 2018 2910551 588434.4 7330416 5038756 255040.5  
## Feb 2018 3405474 621883.6 12608095 10733281 140485.1  
## Mar 2018 4950362 2543777.3 42828137 42902199 114127.7  
## Apr 2018 5621030 6613207.6 76713271 90458923 170518.9  
## May 2018 6096531 12698594.7 113812256 107700424 348202.3  
## Jun 2018 6959172 9388679.4 97110452 51258663 212566.0  
## SEED Total.Sales  
## Jan 2014 3871337.39 22164338  
## Feb 2014 5420481.05 27202396  
## Mar 2014 29064912.05 128487993  
## Apr 2014 52940287.78 269555226  
## May 2014 37921500.61 217631901  
## Jun 2014 15161514.30 155261501  
## Jul 2014 1721609.94 99923873  
## Aug 2014 293600.24 39022910  
## Sep 2014 980990.32 35673667  
## Oct 2014 1080126.84 64929492  
## Nov 2014 193316.97 85985786  
## Dec 2014 330694.78 53556431  
## Jan 2015 3715265.74 33171554  
## Feb 2015 8908449.83 42761402  
## Mar 2015 32971691.03 131157616  
## Apr 2015 56017806.21 285395756  
## May 2015 36058226.33 222909431  
## Jun 2015 13537818.99 167613040  
## Jul 2015 3457240.80 103797394  
## Aug 2015 132287.41 42015028  
## Sep 2015 1019779.32 37457814  
## Oct 2015 1560051.79 81526394  
## Nov 2015 -60583.27 88183210  
## Dec 2015 343119.66 22462805  
## Jan 2016 4017662.66 22712048  
## Feb 2016 8449024.27 46402679  
## Mar 2016 33837679.81 169992815  
## Apr 2016 54310821.53 245308022  
## May 2016 33814372.10 177866077  
## Jun 2016 17223492.78 179721526  
## Jul 2016 81122.64 70702181  
## Aug 2016 123718.24 38956614  
## Sep 2016 994674.65 28213162  
## Oct 2016 826600.71 62050744  
## Nov 2016 133367.41 96346669  
## Dec 2016 1558441.49 32707396  
## Jan 2017 6069296.43 19942230  
## Feb 2017 11870998.76 61143231  
## Mar 2017 33087396.44 139248381  
## Apr 2017 55237206.76 221158918  
## May 2017 37304330.02 182025752  
## Jun 2017 20872750.10 195598662  
## Jul 2017 1963409.63 87891240  
## Aug 2017 453614.45 42686329  
## Sep 2017 954695.33 21390520  
## Oct 2017 998966.08 56794752  
## Nov 2017 -232271.77 94430719  
## Dec 2017 -420579.11 60357986  
## Jan 2018 4407323.87 17619971  
## Feb 2018 8964678.12 33068423  
## Mar 2018 28460674.57 116848915  
## Apr 2018 65316570.91 239272491  
## May 2018 48610407.41 283169885  
## Jun 2018 13924441.12 171894801  
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## Mar 2016 958340 51558  
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## May 2016 1057696 28917  
## Jun 2016 920908 36211  
## Jul 2016 730295 44731  
## Aug 2016 726154 26673  
## Sep 2016 810738 35012  
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## May 2018 1501393 99340  
## Jun 2018 1780807 49336  
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## Jan 2014 1869512 918303.0 43478298 11224011 1836861.8  
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## [1] UTC

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## numeric columns being dropped: Date  
  
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## 2018 843734 1076669 1506324 1421889 1173170 1409043   
## Sep Oct Nov Dec  
## 2014 1342239 1350924 1167164 1295850  
## 2015 1355173 1658464 1252342 1200289  
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## 2017 791841 980378 919318 1038927  
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##   
## [[2]]  
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## 2018 1242106 1412433 1738325 1501447 1185964 2037311   
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##   
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## [[3]]  
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## [[4]]  
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## [[5]]  
## Jan Feb Mar Apr May Jun Jul Aug  
## 2014 1122978 1047733 1214156 1790832 1549074 1290992 1555707 1059166  
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## Jan Feb Mar Apr May Jun Jul Aug  
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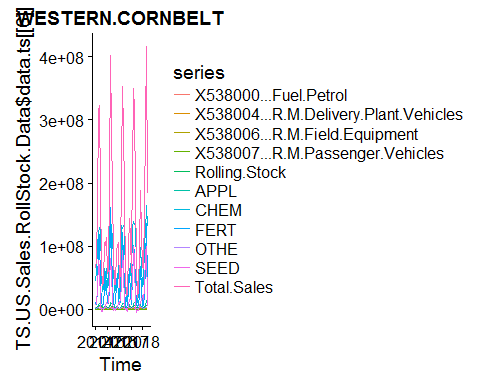
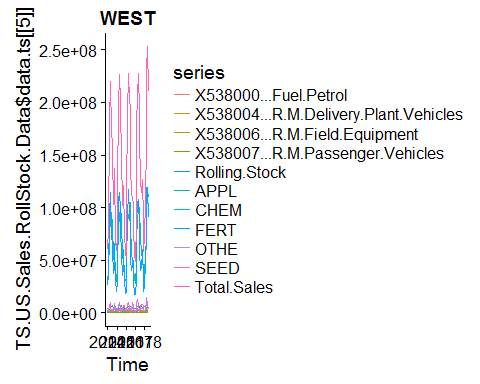
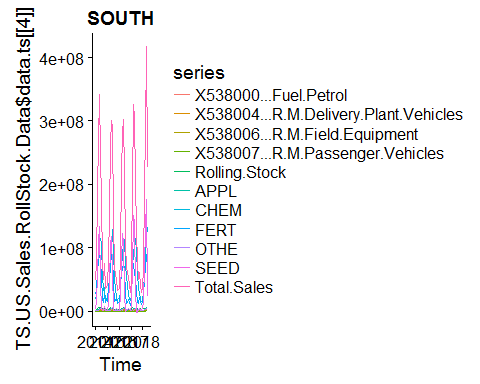
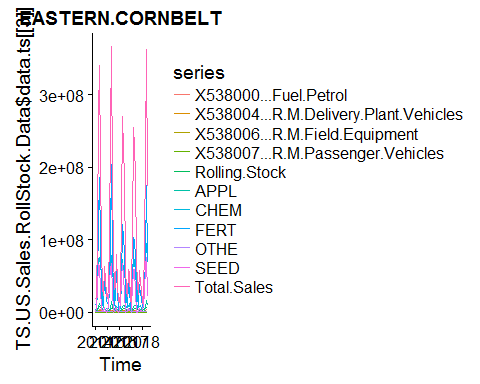
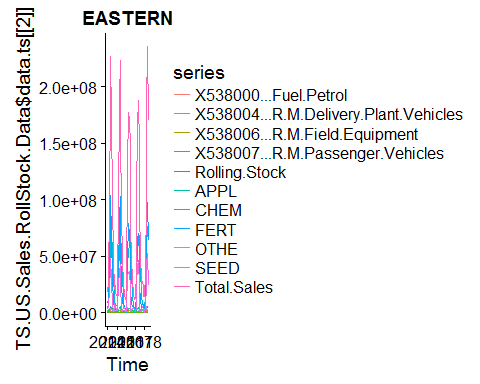
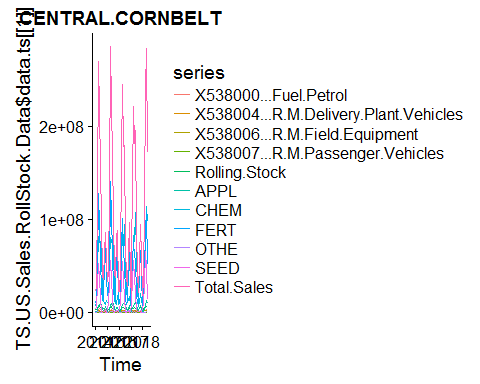
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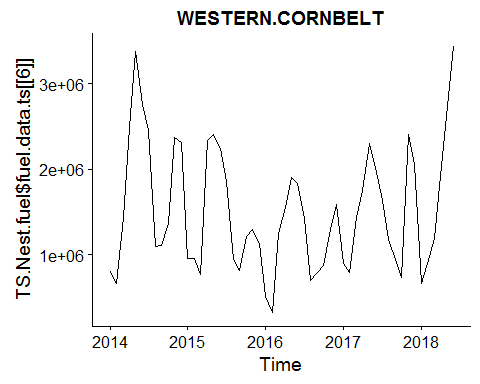
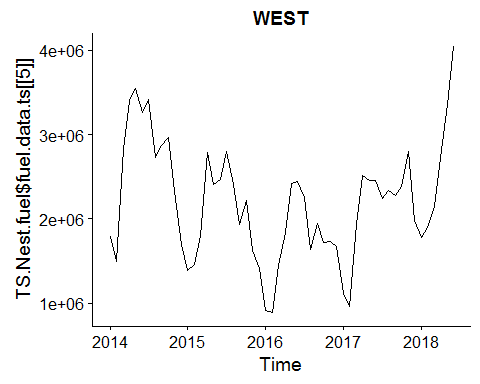
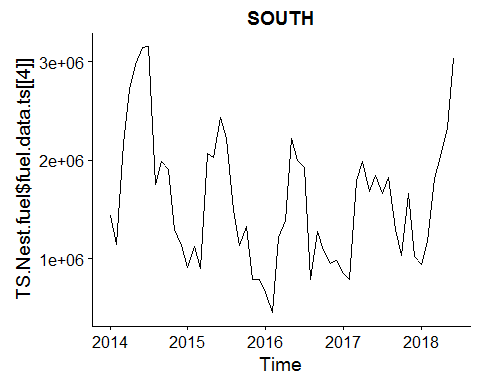
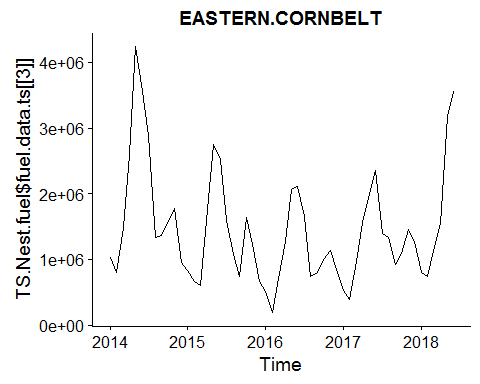
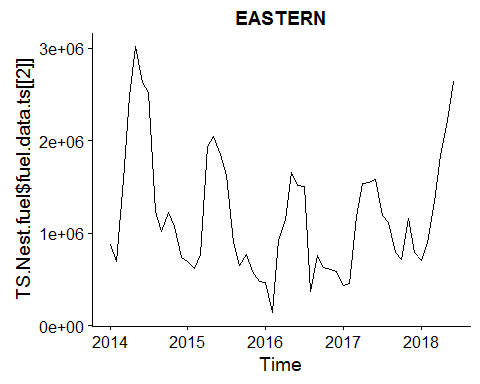
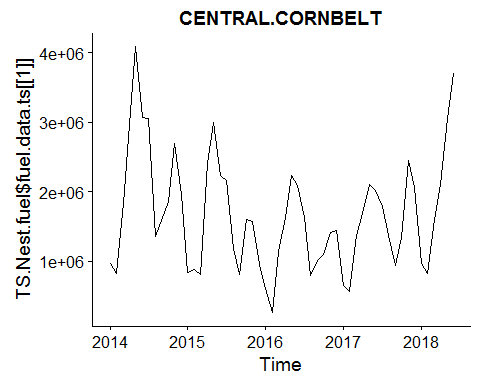
## [[1]]  
## Jan Feb Mar Apr May Jun Jul Aug Sep Oct  
## 2014 64944 41464 52804 106400 61374 103110 55534 43532 141173 60632  
## 2015 66188 48994 58741 75076 85656 50566 50658 33506 50774 68379  
## 2016 44572 23764 44976 36280 42258 47158 26362 47908 34865 30436  
## 2017 26182 46954 38412 44591 81987 79092 56590 63832 47123 62705  
## 2018 30239 51764 47566 65925 77732 65193   
## Nov Dec  
## 2014 -14178 91144  
## 2015 39302 36796  
## 2016 30006 39442  
## 2017 40797 61129  
## 2018   
##   
## [[2]]  
## Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov  
## 2014 36898 29612 20820 24422 25443 18934 26177 15987 10374 23304 20870  
## 2015 21582 54838 32002 14660 10725 6714 13732 21898 18540 11122 11910  
## 2016 11076 6618 4246 6320 6848 11054 16416 6768 3990 3934 12682  
## 2017 15242 6322 7950 2376 16082 15752 6265 13056 6672 10559 12064  
## 2018 5815 6655 19887 9675 86390 7770   
## Dec  
## 2014 13481  
## 2015 8879  
## 2016 1974  
## 2017 10625  
## 2018   
##   
## [[3]]  
## Jan Feb Mar Apr May Jun Jul Aug Sep Oct  
## 2014 64390 82442 98863 69847 112262 104718 94678 68404 44368 78030  
## 2015 40612 43286 83732 62062 55549 60270 72172 61242 50420 33692  
## 2016 22740 26686 30666 31308 28024 23710 28470 21434 30444 72980  
## 2017 13394 40284 30010 30028 49673 55843 42415 35770 26886 19890  
## 2018 30535 32883 78688 77999 76984 41554   
## Nov Dec  
## 2014 46812 62624  
## 2015 35190 44610  
## 2016 9406 29515  
## 2017 31088 47824  
## 2018   
##   
## [[4]]  
## Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov  
## 2014 9066 32814 16320 38200 19750 11406 16710 2970 10596 10604 7052  
## 2015 8194 31542 17746 806 1792 5572 5814 2874 6876 544 4032  
## 2016 522 4012 4804 2096 4922 2206 6568 1480 4316 -400 7172  
## 2017 5790 -4886 2976 10082 970 20668 16519 17177 10526 11457 48411  
## 2018 11007 11472 27714 13768 98607 29438   
## Dec  
## 2014 18012  
## 2015 4502  
## 2016 3134  
## 2017 33276  
## 2018   
##   
## [[5]]  
## Jan Feb Mar Apr May Jun Jul Aug Sep Oct  
## 2014 48240 41160 86036 61030 81942 82728 105997 74533 62868 82129  
## 2015 73580 81404 71025 87314 92766 94956 73546 109567 43894 71806  
## 2016 58806 60184 60094 89200 55643 89338 73428 55161 53486 89304  
## 2017 77002 63580 41564 61782 60630 72841 97723 120738 181906 58857  
## 2018 57056 55976 43663 41952 124055 102873   
## Nov Dec  
## 2014 90616 73642  
## 2015 62300 52430  
## 2016 57064 64044  
## 2017 114564 19662  
## 2018   
##   
## [[6]]  
## Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov  
## 2014 20309 35306 30362 63420 57482 44661 37108 23085 47560 66631 51615  
## 2015 40607 45260 49696 40842 55389 53058 49373 41356 35736 37306 44359  
## 2016 24618 34259 51558 72106 28917 36211 44731 26673 35012 57682 55571  
## 2017 54289 65404 56832 30632 46605 31132 36334 48573 28940 58709 47870  
## 2018 42142 27917 40489 44571 99340 49336   
## Dec  
## 2014 85960  
## 2015 46951  
## 2016 54174  
## 2017 66221  
## 2018

## Warning in tk\_xts\_.data.frame(ret, select = select, silent = silent): Non-  
## numeric columns being dropped: Date  
  
## Warning in tk\_xts\_.data.frame(ret, select = select, silent = silent): Non-  
## numeric columns being dropped: Date  
  
## Warning in tk\_xts\_.data.frame(ret, select = select, silent = silent): Non-  
## numeric columns being dropped: Date  
  
## Warning in tk\_xts\_.data.frame(ret, select = select, silent = silent): Non-  
## numeric columns being dropped: Date  
  
## Warning in tk\_xts\_.data.frame(ret, select = select, silent = silent): Non-  
## numeric columns being dropped: Date  
  
## Warning in tk\_xts\_.data.frame(ret, select = select, silent = silent): Non-  
## numeric columns being dropped: Date

## # A tibble: 6 x 3  
## Region.x data.tbl rolling.stock.data.ts  
## <fct> <list> <list>   
## 1 CENTRAL.CORNBELT <tibble [54 x 15]> <S3: ts>   
## 2 EASTERN <tibble [54 x 15]> <S3: ts>   
## 3 EASTERN.CORNBELT <tibble [54 x 15]> <S3: ts>   
## 4 SOUTH <tibble [54 x 15]> <S3: ts>   
## 5 WEST <tibble [54 x 15]> <S3: ts>   
## 6 WESTERN.CORNBELT <tibble [54 x 15]> <S3: ts>

## [[1]]  
## Jan Feb Mar Apr May Jun Jul Aug  
## 2014 2695218 3053517 4065819 5939600 7247600 5356050 5599869 2682733  
## 2015 2080514 2769651 3445183 5500572 6217278 4564638 4357156 3204667  
## 2016 2191402 2566594 4017888 4729178 5110944 4392407 3509803 2865299  
## 2017 2543537 2911404 4666094 3938738 5564970 4408078 3721583 3727930  
## 2018 2910551 3405474 4950362 5621030 6096531 6959172   
## Sep Oct Nov Dec  
## 2014 3969350 4630183 5430983 4580057  
## 2015 3216503 4536758 3916977 2880233  
## 2016 3519142 3416095 3626863 3346201  
## 2017 3212270 3616652 5161333 4379871  
## 2018   
##   
## [[2]]  
## Jan Feb Mar Apr May Jun Jul Aug  
## 2014 2315301 2173335 3687272 4593738 5146076 4580542 4246625 2540044  
## 2015 2064723 2109699 2251026 4299269 4230043 4152678 3330459 2177121  
## 2016 1543217 1807856 2696137 3440078 4128149 3639288 3152804 2456242  
## 2017 1684523 2219145 3862705 3460967 3797058 3453772 2862908 3171216  
## 2018 2590369 2934061 3839796 4170470 4530802 5691082   
## Sep Oct Nov Dec  
## 2014 2484246 2461720 2345638 2071077  
## 2015 1792089 2267200 1787535 1492340  
## 2016 2093734 1961378 1740445 2002803  
## 2017 2112799 1952721 2972822 2030465  
## 2018   
##   
## [[3]]  
## Jan Feb Mar Apr May Jun Jul Aug  
## 2014 2998722 3114140 4264739 5908684 8451374 6757112 6070923 3076408  
## 2015 2575502 2764272 3308981 5076961 5679900 6016499 3968520 2833369  
## 2016 1744046 2451725 3571256 4263059 5636802 4936853 3650526 2766548  
## 2017 2342579 3022515 4419985 4017201 5727171 4731599 3234722 3227280  
## 2018 3057095 3565426 4792375 4850120 6194753 6973046   
## Sep Oct Nov Dec  
## 2014 3177853 3916598 3612487 2823051  
## 2015 2334480 3993212 2918752 2599901  
## 2016 2487022 2779712 2397323 2362003  
## 2017 2853442 2578709 3000395 2444999  
## 2018   
##   
## [[4]]  
## Jan Feb Mar Apr May Jun Jul Aug  
## 2014 3336591 3039396 4514085 4985035 5437165 5246134 5365559 3469434  
## 2015 2645941 2915493 2974791 4888148 4250233 4667759 4393946 3120618  
## 2016 2464432 2749381 3842184 3912386 5187840 4641522 3645186 2972602  
## 2017 3070406 3479223 4920659 4168088 4655581 3860420 3344910 3851255  
## 2018 3373556 3517897 4751310 4706017 4554274 6120825   
## Sep Oct Nov Dec  
## 2014 3547669 3770023 2757627 2570999  
## 2015 2430807 3327007 1868101 2346778  
## 2016 3130000 3044237 2610899 2519686  
## 2017 2880095 2515443 3334173 2486001  
## 2018   
##   
## [[5]]  
## Jan Feb Mar Apr May Jun Jul Aug  
## 2014 4128361 3870863 5373576 6853225 6985616 6245069 6952334 5258137  
## 2015 3962848 4201210 5416330 7357816 5803156 6242738 6669965 5499358  
## 2016 3756567 3762569 5455074 5975845 6868188 6133820 5982313 5418858  
## 2017 3718240 3934390 6352027 6136065 7127816 6429799 5003833 6724189  
## 2018 5580858 5172515 6740247 6547346 7970621 7659983   
## Sep Oct Nov Dec  
## 2014 5526577 6014838 4776500 4045420  
## 2015 4959153 5987386 4276155 4171289  
## 2016 5084766 4675320 4274014 4246202  
## 2017 5632570 5208812 6006056 4575128  
## 2018   
##   
## [[6]]  
## Jan Feb Mar Apr May Jun Jul Aug  
## 2014 1869512 1879741 3382152 5128951 5464871 4612231 4274211 2340680  
## 2015 2151097 2564247 2693903 5739413 4851863 4109769 3660681 2438390  
## 2016 1666594 1843127 4013239 4490484 4846272 4250323 3180526 2670301  
## 2017 2705123 2969097 4544408 4615881 5826892 4155742 3133104 3082297  
## 2018 2820582 3020637 4082838 5019275 5311863 6449320   
## Sep Oct Nov Dec  
## 2014 2949825 3447991 4736675 4413348  
## 2015 2557483 3649542 3072252 2594604  
## 2016 2971860 3087251 3653801 4842348  
## 2017 3008378 2820143 4859462 4088393  
## 2018

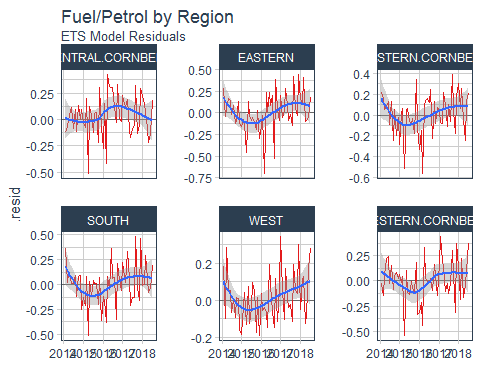




## # A tibble: 6 x 4  
## Region.x data.tbl fuel.data.ts fit.ets   
## <fct> <list> <list> <list>   
## 1 CENTRAL.CORNBELT <tibble [54 x 2]> <S3: ts> <S3: ets>  
## 2 EASTERN <tibble [54 x 2]> <S3: ts> <S3: ets>  
## 3 EASTERN.CORNBELT <tibble [54 x 2]> <S3: ts> <S3: ets>  
## 4 SOUTH <tibble [54 x 2]> <S3: ts> <S3: ets>  
## 5 WEST <tibble [54 x 2]> <S3: ts> <S3: ets>  
## 6 WESTERN.CORNBELT <tibble [54 x 2]> <S3: ts> <S3: ets>

## # A tibble: 16 x 7  
## term CENTRAL.CORNBELT EASTERN EASTERN.CORNBELT SOUTH WEST  
## <chr> <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 alpha 0.233 3.06e-1 0.373 2.80e-1 5.60e-1  
## 2 b - 30835 NA NA NA NA   
## 3 beta 0.0453 NA NA NA NA   
## 4 gamma 0.000110 6.45e-4 0.000101 1.92e-4 1.00e-4  
## 5 l 2463117 1.33e+6 1670687 1.75e+6 2.37e+6  
## 6 s0 0.992 5.77e-1 0.728 6.56e-1 - 4.35e+5  
## 7 s1 1.22 7.73e-1 0.986 8.15e-1 5.29e+3  
## 8 s10 0.380 4.98e-1 0.383 5.80e-1 - 8.73e+5  
## 9 s2 0.906 7.05e-1 0.978 8.40e-1 1.98e+5  
## 10 s3 0.688 7.21e-1 0.668 9.05e-1 1.13e+5  
## 11 s4 0.727 8.59e-1 0.826 9.46e-1 1.34e+5  
## 12 s5 1.32 1.46e+0 1.25 1.41e+0 5.40e+5  
## 13 s6 1.53 1.68e+0 1.86 1.52e+0 4.98e+5  
## 14 s7 1.70 1.72e+0 1.86 1.44e+0 4.79e+5  
## 15 s8 1.26 1.45e+0 1.22 1.28e+0 4.36e+5  
## 16 s9 0.830 1.04e+0 0.738 1.01e+0 - 2.37e+5  
## # ... with 1 more variable: WESTERN.CORNBELT <dbl>

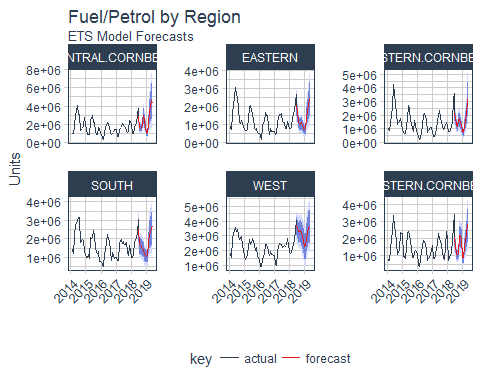
## # A tibble: 6 x 13  
## Region.x model.desc sigma logLik AIC BIC ME RMSE MAE MPE  
## <fct> <chr> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 CENTRAL~ ETS(M,A,M) 0.194 -785 1604 1638 38996 292041 232704 -0.391   
## 2 EASTERN ETS(M,N,M) 0.216 -773 1576 1606 14093 208339 164243 -6.19   
## 3 EASTERN~ ETS(M,N,M) 0.193 -777 1584 1614 20506 256181 205233 -4.14   
## 4 SOUTH ETS(M,N,M) 0.199 -787 1605 1635 3349 282251 210140 -3.89   
## 5 WEST ETS(M,N,A) 0.131 -783 1597 1627 25758 284097 224149 -0.0743  
## 6 WESTERN~ ETS(M,N,M) 0.198 -783 1596 1626 16428 303071 215456 -3.78   
## # ... with 3 more variables: MAPE <dbl>, MASE <dbl>, ACF1 <dbl>

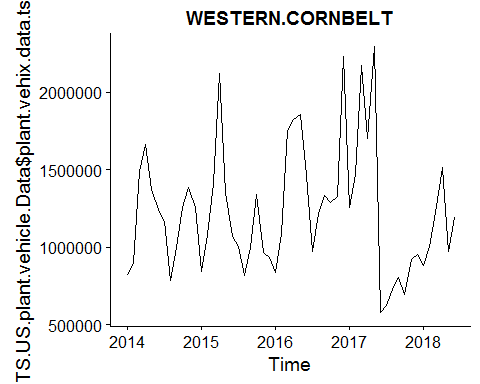
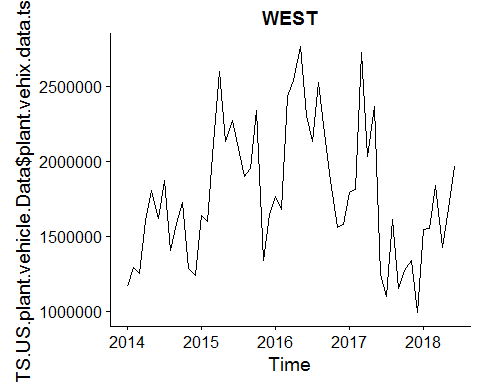
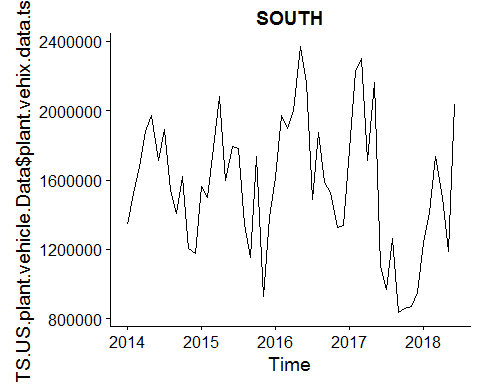
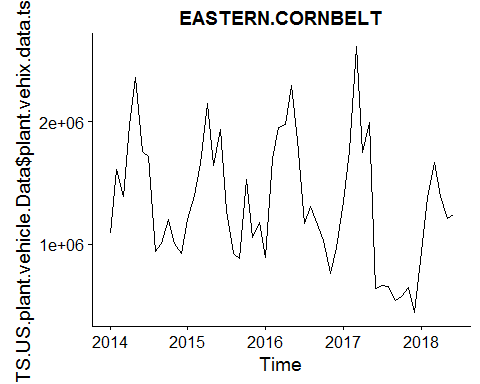
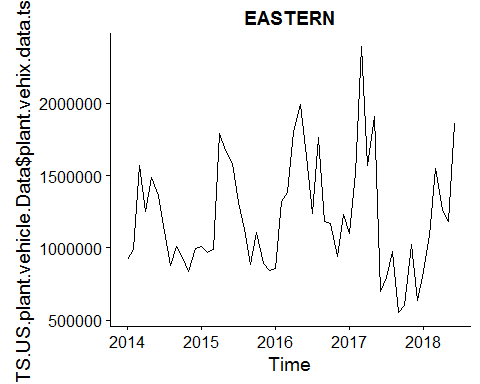
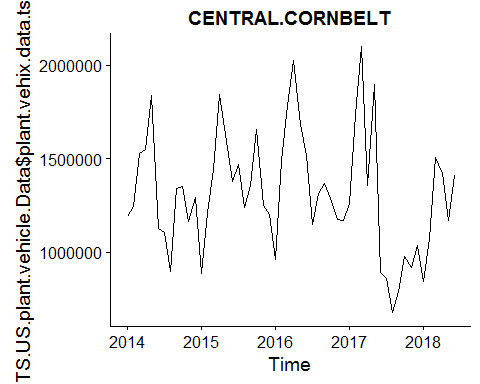


## # A tibble: 6 x 5  
## Region.x data.tbl fuel.data.ts fit.ets fuel.fcast.ets  
## <fct> <list> <list> <list> <list>   
## 1 CENTRAL.CORNBELT <tibble [54 x 2]> <S3: ts> <S3: ets> <S3: forecast>  
## 2 EASTERN <tibble [54 x 2]> <S3: ts> <S3: ets> <S3: forecast>  
## 3 EASTERN.CORNBELT <tibble [54 x 2]> <S3: ts> <S3: ets> <S3: forecast>  
## 4 SOUTH <tibble [54 x 2]> <S3: ts> <S3: ets> <S3: forecast>  
## 5 WEST <tibble [54 x 2]> <S3: ts> <S3: ets> <S3: forecast>  
## 6 WESTERN.CORNBELT <tibble [54 x 2]> <S3: ts> <S3: ets> <S3: forecast>

## # A tibble: 6 x 4  
## Region.x data.tbl fuel.data.ts fit.ets   
## <fct> <list> <list> <list>   
## 1 CENTRAL.CORNBELT <tibble [54 x 2]> <S3: ts> <S3: ets>  
## 2 EASTERN <tibble [54 x 2]> <S3: ts> <S3: ets>  
## 3 EASTERN.CORNBELT <tibble [54 x 2]> <S3: ts> <S3: ets>  
## 4 SOUTH <tibble [54 x 2]> <S3: ts> <S3: ets>  
## 5 WEST <tibble [54 x 2]> <S3: ts> <S3: ets>  
## 6 WESTERN.CORNBELT <tibble [54 x 2]> <S3: ts> <S3: ets>

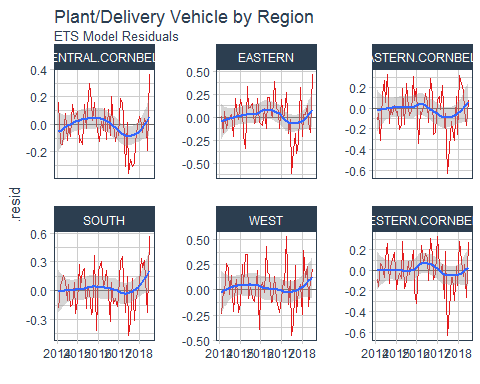
## # A tibble: 396 x 8  
## Region.x index key X538000...Fuel.P~ lo.80 lo.95 hi.80 hi.95  
## <fct> <date> <chr> <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 CENTRAL.CO~ 2014-01-31 actual 963133 NA NA NA NA  
## 2 CENTRAL.CO~ 2014-02-28 actual 821119 NA NA NA NA  
## 3 CENTRAL.CO~ 2014-03-31 actual 1830581 NA NA NA NA  
## 4 CENTRAL.CO~ 2014-04-30 actual 2966217 NA NA NA NA  
## 5 CENTRAL.CO~ 2014-05-31 actual 4084873 NA NA NA NA  
## 6 CENTRAL.CO~ 2014-06-30 actual 3073649 NA NA NA NA  
## 7 CENTRAL.CO~ 2014-07-31 actual 3048688 NA NA NA NA  
## 8 CENTRAL.CO~ 2014-08-31 actual 1359933 NA NA NA NA  
## 9 CENTRAL.CO~ 2014-09-30 actual 1576664 NA NA NA NA  
## 10 CENTRAL.CO~ 2014-10-31 actual 1856649 NA NA NA NA  
## # ... with 386 more rows





## # A tibble: 14 x 7  
## term CENTRAL.CORNBELT EASTERN EASTERN.CORNBELT SOUTH WEST  
## <chr> <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 alpha 0.193 1.90e-1 0.286 6.69e-1 6.30e-1  
## 2 gamma 0.000102 1.16e-4 0.000100 NA NA   
## 3 l 1354784 1.16e+6 1444397 1.66e+6 1.53e+6  
## 4 s0 0.895 7.45e-1 0.655 NA NA   
## 5 s1 0.845 7.61e-1 0.665 NA NA   
## 6 s10 1.04 1.02e+0 1.22 NA NA   
## 7 s2 1.00 7.79e-1 0.858 NA NA   
## 8 s3 0.930 7.85e-1 0.666 NA NA   
## 9 s4 0.772 9.94e-1 0.706 NA NA   
## 10 s5 0.870 9.72e-1 0.905 NA NA   
## 11 s6 0.971 1.24e+0 1.19 NA NA   
## 12 s7 1.31 1.34e+0 1.43 NA NA   
## 13 s8 1.29 1.26e+0 1.39 NA NA   
## 14 s9 1.32 1.32e+0 1.46 NA NA   
## # ... with 1 more variable: WESTERN.CORNBELT <dbl>

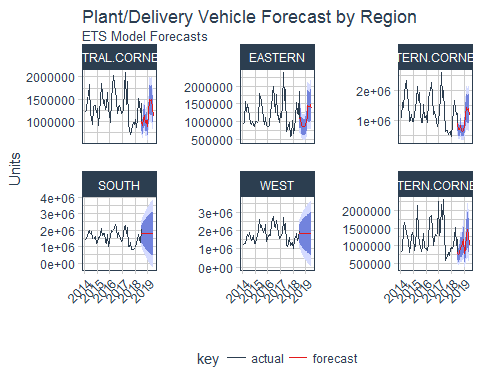
## # A tibble: 6 x 13  
## Region.x model.desc sigma logLik AIC BIC ME RMSE MAE MPE  
## <fct> <chr> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 CENTRAL.~ ETS(M,N,M) 0.150 -766 1562 1592 -25920 198680 157041 -3.99  
## 2 EASTERN ETS(M,N,M) 0.201 -776 1582 1612 - 4747 271729 192203 -5.34  
## 3 EASTERN.~ ETS(M,N,M) 0.200 -781 1592 1621 -29431 289331 216801 -7.50  
## 4 SOUTH ETS(M,N,N) 0.223 -796 1597 1603 3747 348167 288555 -3.44  
## 5 WEST ETS(M,N,N) 0.210 -799 1604 1610 9030 374794 296871 -2.67  
## 6 WESTERN.~ ETS(M,N,M) 0.189 -774 1577 1607 -10682 262320 192099 -5.36  
## # ... with 3 more variables: MAPE <dbl>, MASE <dbl>, ACF1 <dbl>

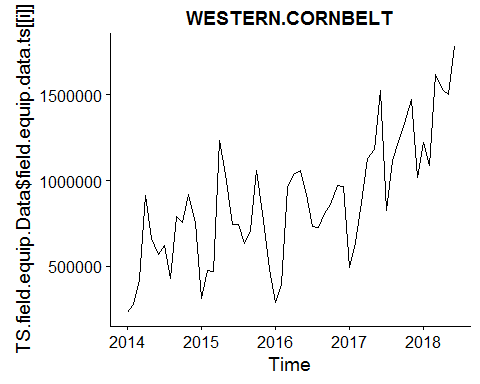
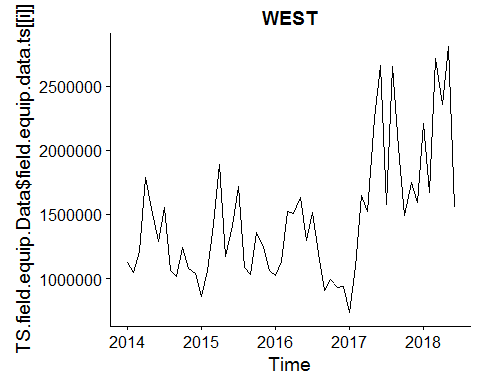
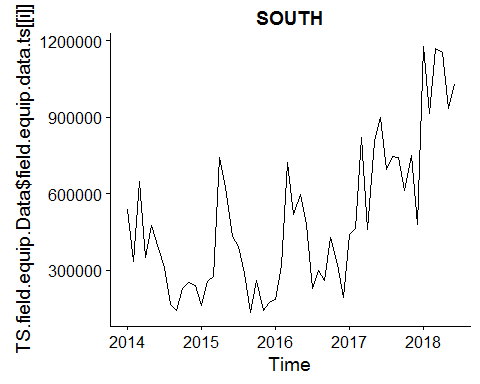
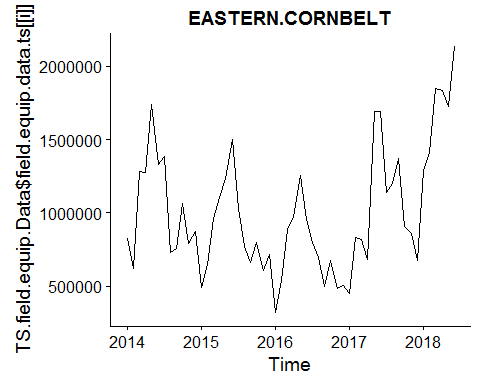
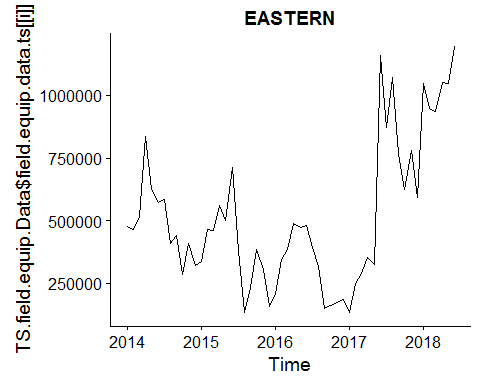
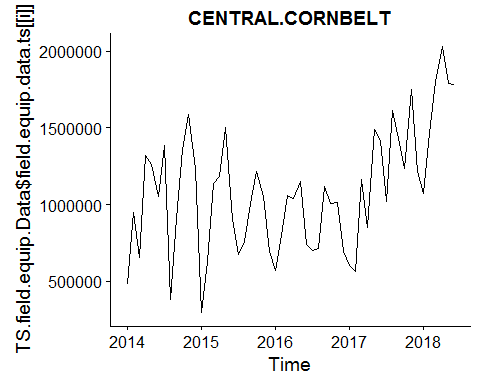


## # A tibble: 6 x 5  
## Region.x data.tbl plant.vehix.data~ fit.ets fcast.delivery.~  
## <fct> <list> <list> <list> <list>   
## 1 CENTRAL.CORNBELT <tibble [5~ <S3: ts> <S3: et~ <S3: forecast>   
## 2 EASTERN <tibble [5~ <S3: ts> <S3: et~ <S3: forecast>   
## 3 EASTERN.CORNBELT <tibble [5~ <S3: ts> <S3: et~ <S3: forecast>   
## 4 SOUTH <tibble [5~ <S3: ts> <S3: et~ <S3: forecast>   
## 5 WEST <tibble [5~ <S3: ts> <S3: et~ <S3: forecast>   
## 6 WESTERN.CORNBELT <tibble [5~ <S3: ts> <S3: et~ <S3: forecast>

## # A tibble: 6 x 5  
## Region.x data.tbl plant.vehix.data~ fit.ets fcast.delivery.~  
## <fct> <list> <list> <list> <list>   
## 1 CENTRAL.CORNBELT <tibble [5~ <S3: ts> <S3: et~ <S3: forecast>   
## 2 EASTERN <tibble [5~ <S3: ts> <S3: et~ <S3: forecast>   
## 3 EASTERN.CORNBELT <tibble [5~ <S3: ts> <S3: et~ <S3: forecast>   
## 4 SOUTH <tibble [5~ <S3: ts> <S3: et~ <S3: forecast>   
## 5 WEST <tibble [5~ <S3: ts> <S3: et~ <S3: forecast>   
## 6 WESTERN.CORNBELT <tibble [5~ <S3: ts> <S3: et~ <S3: forecast>

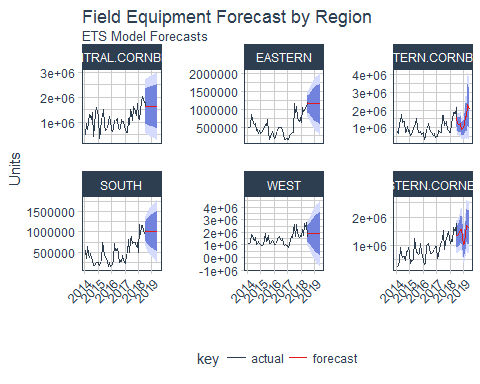
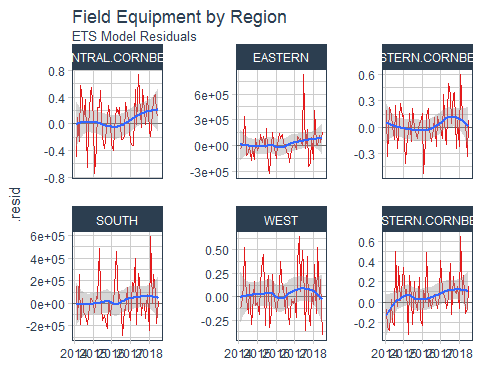
## # A tibble: 396 x 8  
## Region.x index key X538004...R.M.Deli~ lo.80 lo.95 hi.80 hi.95  
## <fct> <date> <chr> <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 CENTRAL.C~ 2014-01-31 actu~ 1190587 NA NA NA NA  
## 2 CENTRAL.C~ 2014-02-28 actu~ 1243586 NA NA NA NA  
## 3 CENTRAL.C~ 2014-03-31 actu~ 1527040 NA NA NA NA  
## 4 CENTRAL.C~ 2014-04-30 actu~ 1549945 NA NA NA NA  
## 5 CENTRAL.C~ 2014-05-31 actu~ 1837431 NA NA NA NA  
## 6 CENTRAL.C~ 2014-06-30 actu~ 1126727 NA NA NA NA  
## 7 CENTRAL.C~ 2014-07-31 actu~ 1108259 NA NA NA NA  
## 8 CENTRAL.C~ 2014-08-31 actu~ 900842 NA NA NA NA  
## 9 CENTRAL.C~ 2014-09-30 actu~ 1342239 NA NA NA NA  
## 10 CENTRAL.C~ 2014-10-31 actu~ 1350924 NA NA NA NA  
## # ... with 386 more rows

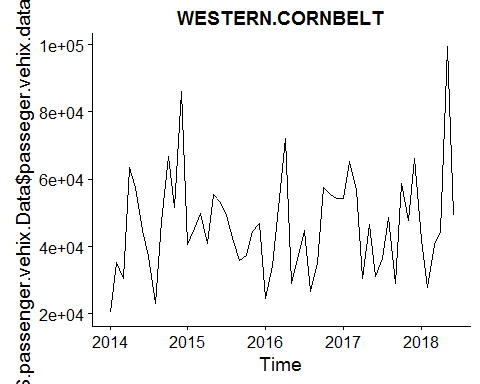
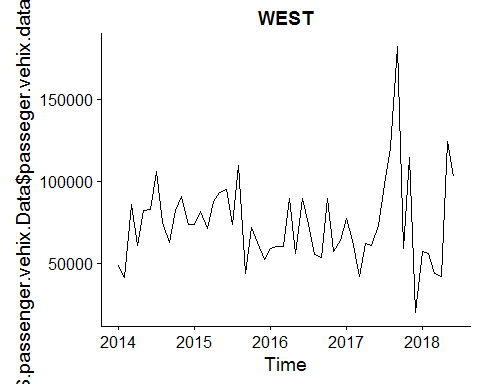
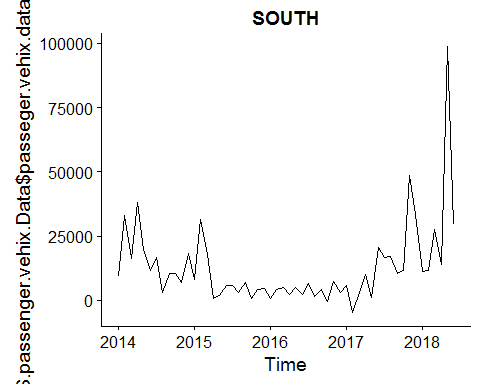
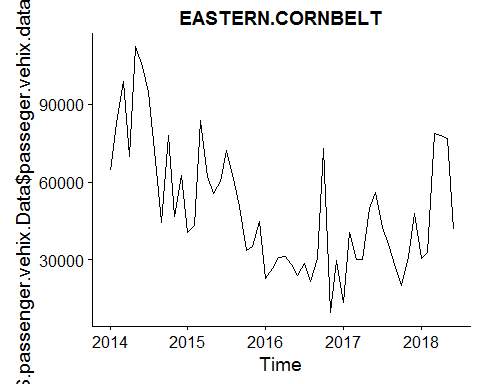
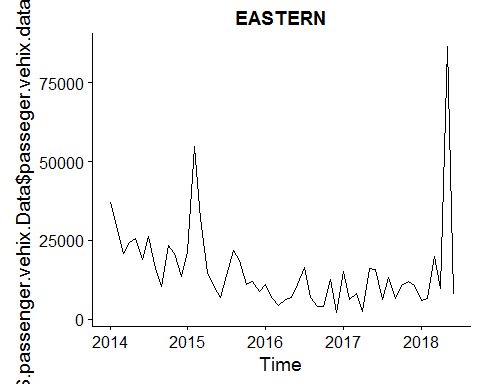
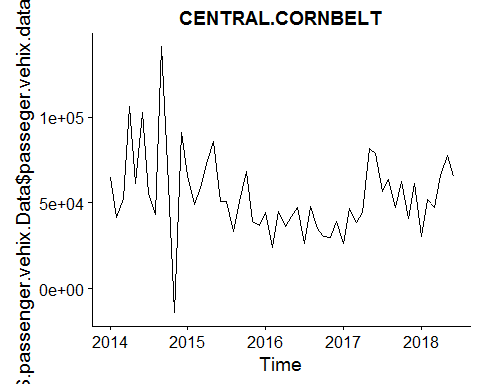




## # A tibble: 14 x 7  
## term CENTRAL.CORNBELT EASTERN EASTERN.CORNBELT SOUTH WEST  
## <chr> <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 alpha 0.212 0.700 0.436 5.60e-1 6.89e-1  
## 2 gamma NA NA 0.000101 NA NA   
## 3 l 974989 521666 981944 3.93e+5 1.29e+6  
## 4 s0 NA NA 0.691 NA NA   
## 5 s1 NA NA 0.658 NA NA   
## 6 s10 NA NA 0.876 NA NA   
## 7 s2 NA NA 0.881 NA NA   
## 8 s3 NA NA 0.838 NA NA   
## 9 s4 NA NA 0.869 NA NA   
## 10 s5 NA NA 1.11 NA NA   
## 11 s6 NA NA 1.46 NA NA   
## 12 s7 NA NA 1.63 NA NA   
## 13 s8 NA NA 1.12 NA NA   
## 14 s9 NA NA 1.16 NA NA   
## # ... with 1 more variable: WESTERN.CORNBELT <dbl>

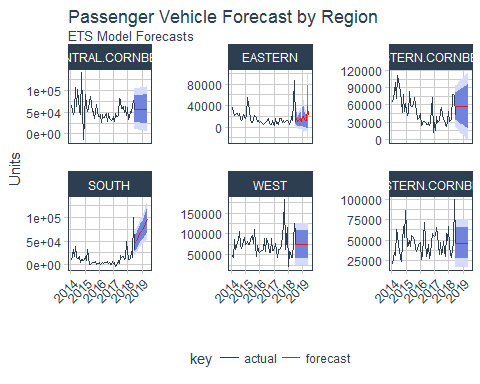
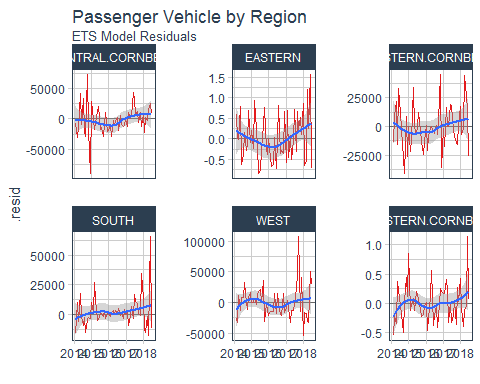
## # A tibble: 6 x 13  
## Region.x model.desc sigma logLik AIC BIC ME RMSE MAE MPE  
## <fct> <chr> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 CENTRAL~ ETS(M,N,N) 3.36e-1 -796 1597 1603 57517 343445 285529 -9.51  
## 2 EASTERN ETS(A,N,N) 1.78e+5 -760 1527 1533 16548 177833 115761 -7.70  
## 3 EASTERN~ ETS(M,N,M) 2.29e-1 -770 1570 1600 17835 238973 178138 -2.98  
## 4 SOUTH ETS(A,N,N) 1.86e+5 -763 1532 1538 20791 185814 137639 -9.57  
## 5 WEST ETS(M,N,N) 2.61e-1 -799 1604 1610 16513 410148 316488 -3.05  
## 6 WESTERN~ ETS(M,N,A) 2.17e-1 -756 1543 1573 45735 167826 128969 2.11  
## # ... with 3 more variables: MAPE <dbl>, MASE <dbl>, ACF1 <dbl>

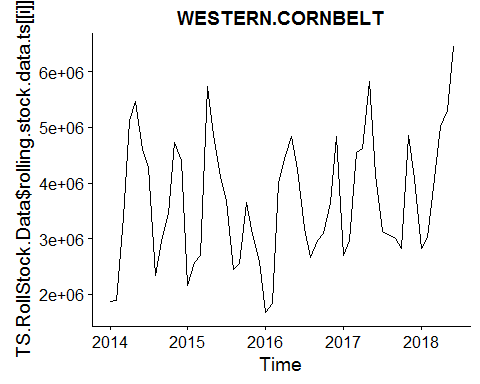
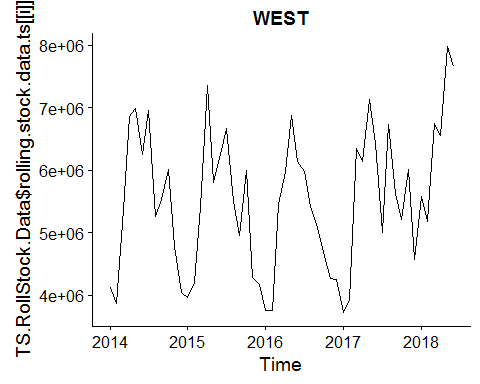
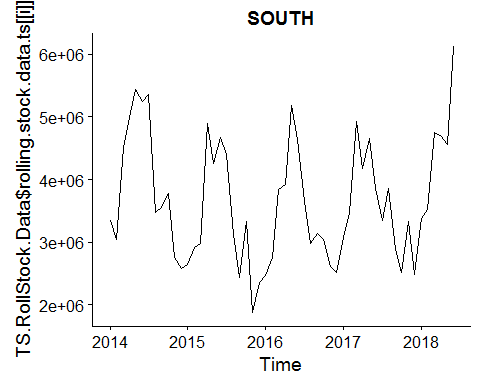
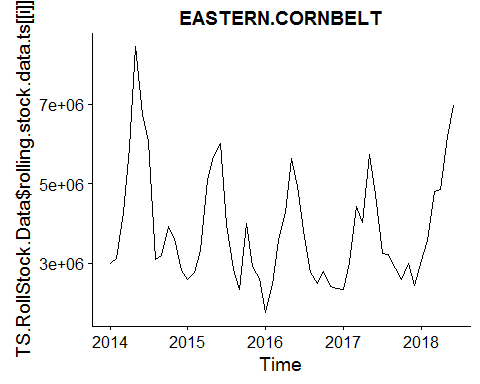
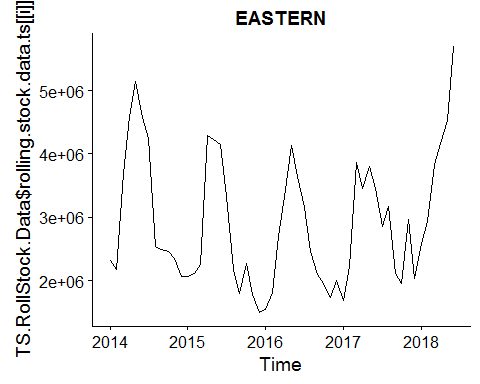
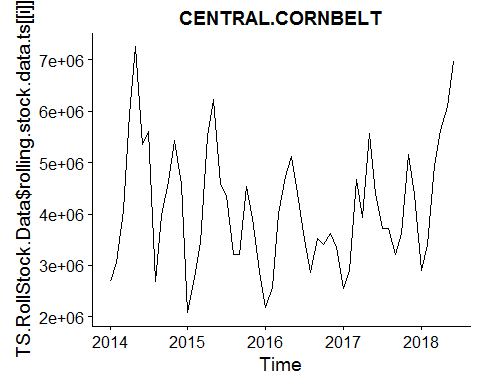




## # A tibble: 16 x 7  
## term CENTRAL.CORNBELT EASTERN EASTERN.CORNBELT SOUTH WEST  
## <chr> <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 alpha 0.145 2.80e-1 0.395 4.91e-2 1.00e-4  
## 2 b NA NA NA - 6.85e+2 NA   
## 3 beta NA NA NA 4.91e-2 NA   
## 4 gamma NA 1.00e-4 NA NA NA   
## 5 l 73074 2.08e+4 78420 2.62e+4 7.42e+4  
## 6 s0 NA 4.76e-1 NA NA NA   
## 7 s1 NA 9.43e-1 NA NA NA   
## 8 s10 NA 1.21e+0 NA NA NA   
## 9 s2 NA 6.85e-1 NA NA NA   
## 10 s3 NA 5.72e-1 NA NA NA   
## 11 s4 NA 9.77e-1 NA NA NA   
## 12 s5 NA 1.04e+0 NA NA NA   
## 13 s6 NA 1.26e+0 NA NA NA   
## 14 s7 NA 2.28e+0 NA NA NA   
## 15 s8 NA 5.62e-1 NA NA NA   
## 16 s9 NA 8.77e-1 NA NA NA   
## # ... with 1 more variable: WESTERN.CORNBELT <dbl>

## # A tibble: 6 x 13  
## Region.x model.desc sigma logLik AIC BIC ME RMSE MAE  
## <fct> <chr> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 CENTRAL.COR~ ETS(A,N,N) 2.37e+4 -652 1309 1315 -2.02e+3 23694 17144  
## 2 EASTERN ETS(M,N,M) 5.64e-1 -592 1214 1244 -1.49e+3 14603 8713  
## 3 EASTERN.COR~ ETS(A,N,N) 1.83e+4 -638 1282 1288 -9.81e+2 18345 13795  
## 4 SOUTH ETS(A,A,N) 1.32e+4 -620 1250 1260 1.96e+3 13179 7774  
## 5 WEST ETS(A,N,N) 2.62e+4 -657 1320 1326 -3.34e+0 26150 19407  
## 6 WESTERN.COR~ ETS(M,N,N) 3.25e-1 -627 1260 1266 -8.59e-1 15055 11392  
## # ... with 4 more variables: MPE <dbl>, MAPE <dbl>, MASE <dbl>, ACF1 <dbl>





## # A tibble: 16 x 7  
## term CENTRAL.CORNBELT EASTERN EASTERN.CORNBELT SOUTH WEST  
## <chr> <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 alpha 0.272 2.22e-1 0.249 1.83e-1 5.94e-2  
## 2 b NA NA NA NA -6.67e+3  
## 3 beta NA NA NA NA 5.94e-2  
## 4 gamma 0.000105 5.08e-4 0.000385 1.00e-4 1.01e-4  
## 5 l 4205896 2.92e+6 4060418 3.66e+6 5.52e+6  
## 6 s0 0.925 6.76e-1 0.679 6.77e-1 -1.24e+6  
## 7 s1 1.10 7.88e-1 0.774 7.66e-1 -6.41e+5  
## 8 s10 0.713 7.67e-1 0.788 8.63e-1 -1.33e+6  
## 9 s2 0.994 7.50e-1 0.877 8.68e-1 4.65e+3  
## 10 s3 0.849 7.49e-1 0.717 8.30e-1 -1.55e+5  
## 11 s4 0.803 9.36e-1 0.808 9.20e-1 2.97e+5  
## 12 s5 1.06 1.17e+0 1.13 1.16e+0 7.53e+5  
## 13 s6 1.23 1.48e+0 1.52 1.34e+0 9.27e+5  
## 14 s7 1.46 1.49e+0 1.67 1.33e+0 1.28e+6  
## 15 s8 1.25 1.35e+0 1.26 1.25e+0 1.18e+6  
## 16 s9 1.02 1.15e+0 1.09 1.17e+0 4.20e+5  
## # ... with 1 more variable: WESTERN.CORNBELT <dbl>

## # A tibble: 6 x 13  
## Region.x model.desc sigma logLik AIC BIC ME RMSE MAE MPE  
## <fct> <chr> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 CENTRAL~ ETS(M,N,M) 0.128 -817 1664 1694 43624 529450 419860 -0.592  
## 2 EASTERN ETS(M,N,M) 0.139 -802 1634 1664 36438 399938 307088 -0.538  
## 3 EASTERN~ ETS(M,N,M) 0.131 -814 1657 1687 7692 505491 387326 -1.48   
## 4 SOUTH ETS(M,N,M) 0.130 -812 1654 1684 23079 485284 383346 -1.05   
## 5 WEST ETS(M,A,A) 0.0872 -813 1660 1694 34119 500069 382097 0.168  
## 6 WESTERN~ ETS(M,N,A) 0.149 -818 1667 1696 57331 560650 423099 -0.676  
## # ... with 3 more variables: MAPE <dbl>, MASE <dbl>, ACF1 <dbl>

