

Governance Analytics Final Project

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Governance Analytics Final Project - Alex Woodward

Executive Summary:

Here I will add a description for the executive summary. xx

Getting the Data

Explain the data and where it came from.

```
# Libraries
library(readxl)

# This is the link to the first dataset. Washington State School District Graduation and Drop Out Rates

temp = tempfile(fileext = ".xlsx")
dataURL <- "https://github.com/awood59/PROJECT/raw/master/DropOut.xlsx"
download.file(dataURL, destfile=temp, mode='wb')

# now get it:
DropOut = read_excel(temp, sheet =1)
```

```
## Warning in strptime(x, format, tz = tz): unknown timezone 'zone/tz/2018c.
## 1.0/zoneinfo/America/Los_Angeles'
```

```
head(DropOut,2)
```

```
## # A tibble: 2 x 3
##   `District Code` `Adjusted 5-Year Cohort Graduation ~ `Cohort dropout ra~
##   <chr>          <chr>                                <chr>
## 1 14005          77.685950413223139          16.528925619834713
## 2 21226          91.111111111111114          8.8888888888888893
```

Now I will retrieve a second data file with information about Washington State Enrollment Statistics.

```
temp = tempfile(fileext = ".xlsx")
dataURL <- "https://github.com/awood59/PROJECT/raw/master/EnrollmentWA.xlsx"
download.file(dataURL, destfile=temp, mode='wb')
EnrollmentWA = read_excel(temp, sheet =1)
head(EnrollmentWA,2)
```

```
## # A tibble: 2 x 20
##   `School Year` State `District Code` `District Name`      `K-12 Total`
##   <dbl> <chr> <chr>          <chr>                                <dbl>
## 1      2015. WA   14005      Aberdeen School Distri~      3221.
## 2      2015. WA   21226      Adna School District      608.
## # ... with 15 more variables: `PK Total` <dbl>, `Full K Total` <dbl>,
## #   `Half K Total` <dbl>, `Gr 1 Total` <dbl>, `Gr 2 Total` <dbl>, `Gr 3
```

```
## # Total` <dbl>, `Gr 4 Total` <dbl>, `Gr 5 Total` <dbl>, `Gr 6
## # Total` <dbl>, `Gr 7 Total` <dbl>, `Gr 8 Total` <dbl>, `Gr 9
## # Total` <dbl>, `Gr 10 Total` <dbl>, `Gr 11 Total` <dbl>, `Gr 12
## # Total` <dbl>
```

Finally, one last data file. This is a file with financial statistics per school district. I will clean this data as the district names are coded with an attached number, which I need to remove before merging with the other files. In the end, I cleaned the file with Excel, but I will include information for cleaning via R below.

```
temp = tempfile(fileext = ".xlsx")
dataURL <- "https://github.com/awood59/PROJECT/raw/master/WAFinance1.xlsx"
download.file(dataURL, destfile=temp, mode='wb')
WAFinance1 = read_excel(temp, sheet =1)
head(WAFinance1,2)
```

```
## # A tibble: 2 x 6
## State `District Name` Year `Total Revenue` `State Revenue`
## <chr> <chr> <dbl> <dbl> <dbl>
## 1 Washington Benge School District 2015. 391. 314.
## 2 Washington Lind School District 2015. 4267. 2946.
## # ... with 1 more variable: `Local Revenue` <dbl>
```

Data Cleaning

For the purpose of data cleaning, first download the original data file. This data file has a school district column that includes numbers. In order to merge the datasets, the data is cleaned to remove the numbers from the column.

```
dataLink='https://raw.githubusercontent.com/awood59/data/gh-pages/SchoolFinanceEdit.csv'
```

```
# Now read the data.
```

```
theData=read.csv(dataLink,stringsAsFactors = F,strip.white = T)
```

```
# Check the names of the columns.
```

```
names(theData)
```

```
## [1] "STATE" "NAME" "YRDATA" "TOTALREV" "TFEDREV" "TSTREV"
## [7] "TLOCREV" "TOTALEXP" "TCURELSC" "TCURINST" "TCURSSVC" "TCUROTH"
## [13] "NONELSEC" "TCAPOUT"
```

Now let's view the data counts per state.

```
table(theData$STATE)
```

```
##
## Alabama Alaska Arizona
## 134 53 237
## Arkansas California Colorado
## 251 1057 196
## Connecticut Delaware District of Columbia
## 174 19 1
## Florida Georgia Hawaii
## 67 196 1
## Idaho Illinois Indiana
## 116 992 313
## Iowa Kansas Kentucky
## 347 286 173
```

##	Louisiana	Maine	Maryland
##	70	247	24
##	Massachusetts	Michigan	Minnesota
##	323	601	391
##	Mississippi	Missouri	Montana
##	146	520	432
##	Nebraska	Nevada	New Hampshire
##	262	17	175
##	New Jersey	New Mexico	New York
##	588	89	682
##	North Carolina	North Dakota	Ohio
##	115	204	733
##	Oklahoma	Oregon	Pennsylvania
##	522	216	596
##	Rhode Island	South Carolina	South Dakota
##	40	89	159
##	Tennessee	Texas	Utah
##	142	1046	41
##	Vermont	Virginia	Washington
##	318	133	304
##	West Virginia	Wisconsin	Wyoming
##	63	427	48

Now we remove data that isn't from Washington.

```
WData=theData[theData$STATE=='Washington',]
row.names(WData)=NULL
```

Now we can look at the Washington names.

```
WData$NAME
```

```
## [1] "BENGE SCHOOL DISTRICT 122"
## [2] "LIND SCHOOL DISTRICT 158"
## [3] "OTHELLO SCHOOL DISTRICT 147 163-55"
## [4] "RITZVILLE SCHOOL DISTRICT 160-67"
## [5] "WASHTUCNA SCHOOL DISTRICT 109-43"
## [6] "ASOTIN ANATONE SCHOOL DISTRICT 420"
## [7] "CLARKSTON SCHOOL DISTRICT J250-185"
## [8] "KENNEWICK SCHOOL DISTRICT 17"
## [9] "KIONA BENTON SCHOOL DISTRICT 52"
## [10] "PATERSON SCHOOL DISTRICT 50"
## [11] "PROSSER SCHOOL DISTRICT 116"
## [12] "RICHLAND SCHOOL DISTRICT 400"
## [13] "FINLEY SCHOOL DISTRICT 53"
## [14] "CASHMERE SCHOOL DISTRICT 222"
## [15] "LAKE CHELAN SCH DIST 129"
## [16] "ENTIAT SCHOOL DISTRICT 127"
## [17] "MANSON SCHOOL DISTRICT 19"
## [18] "CASCADE SCHOOL DISTRICT 228"
## [19] "STEHEKIN SCHOOL DISTRICT 69"
## [20] "WENATCHEE SCHOOL DISTRICT 246"
## [21] "NORTH CENTRAL EDUCATIONAL SERVICE DISTRICT"
## [22] "CAPE FLATTERY SCHOOL DISTRICT 401"
## [23] "CRESCENT SCHOOL DISTRICT 313"
## [24] "PORT ANGELES SCHOOL DISTRICT 121"
```

[25] "QUILLAYUTE VALLEY SCHOOL DISTRICT"
 ## [26] "SEQUIM SCHOOL DISTRICT 323"
 ## [27] "BATTLE GROUND SCHOOL DISTRICT 119"
 ## [28] "CAMAS SCHOOL DISTRICT 117"
 ## [29] "EVERGREEN SCHOOL DISTRICT 114"
 ## [30] "GREEN MOUNTAIN SCHOOL DISTRICT 103"
 ## [31] "HOCKINSON SCHOOL DISTRICT 98"
 ## [32] "LA CENTER SCHOOL DISTRICT 101"
 ## [33] "RIDGEFIELD SCHOOL DISTRICT 122"
 ## [34] "VANCOUVER SCHOOL DISTRICT 37"
 ## [35] "WASHOUGAL SCHOOL DISTRICT 112-6"
 ## [36] "EDUCATIONAL SERVICE DISTRICT 112"
 ## [37] "DAYTON SCHOOL DISTRICT 2"
 ## [38] "STARBUCK SCHOOL DISTRICT 35"
 ## [39] "CASTLE ROCK SCHOOL DISTRICT 401"
 ## [40] "KALAMA SCHOOL DISTRICT 402"
 ## [41] "KELSO SCHOOL DISTRICT 458"
 ## [42] "LONGVIEW SCHOOL DISTRICT 122"
 ## [43] "TOUTLE LAKE SCHOOL DISTRICT 130"
 ## [44] "WOODLAND SCHOOL DISTRICT 404"
 ## [45] "BRIDGEPORT SCHOOL DISTRICT 75"
 ## [46] "EASTMONT SCHOOL DISTRICT 206"
 ## [47] "MANSFIELD SCHOOL DISTRICT 207"
 ## [48] "ORONDO SCHOOL DISTRICT 13"
 ## [49] "PALISADES SCHOOL DISTRICT 102"
 ## [50] "WATERVILLE SCHOOL DISTRICT 209"
 ## [51] "CURLEW CONSOLIDATED SCHOOL DISTRICT 50"
 ## [52] "INCHELIUM SCHOOL DISTRICT 70"
 ## [53] "KELLER SCHOOL DISTRICT 3"
 ## [54] "ORIENT SCHOOL DISTRICT 65"
 ## [55] "REPUBLIC SCHOOL DISTRICT 309"
 ## [56] "KAHLOTUS SCHOOL DISTRICT 56"
 ## [57] "PASCO SCHOOL DISTRICT 1"
 ## [58] "STAR SCHOOL DISTRICT 54"
 ## [59] "NORTH FRANKLIN SCHOOL DISTRICT J51-162"
 ## [60] "POMEROY SCHOOL DISTRICT 110"
 ## [61] "COULEE HARTLINE SCHOOL DISTRICT 151"
 ## [62] "EPHRATA SCHOOL DISTRICT 165"
 ## [63] "GRAND COULEE DAM SCHOOL DISTRICT 301J"
 ## [64] "ROYAL SCHOOL DISTRICT 160"
 ## [65] "MOSES LAKE SCHOOL DISTRICT 161"
 ## [66] "QUINCY SCHOOL DISTRICT 144-101"
 ## [67] "SOAP LAKE SCHOOL DISTRICT 156"
 ## [68] "WARDEN SCHOOL DISTRICT 146-161"
 ## [69] "WILSON CREEK JOINT CONSOLIDATED SCHOOL DISTRICT 167 202"
 ## [70] "WAHLUKE SCHOOL DISTRICT 73"
 ## [71] "ABERDEEN SCHOOL DISTRICT 5"
 ## [72] "COSMOPOLIS SCHOOL DISTRICT 99"
 ## [73] "ELMA SCHOOL DISTRICT 68"
 ## [74] "HOQUIAM SCHOOL DISTRICT 28"
 ## [75] "MCCLEARY SCHOOL DISTRICT 65"
 ## [76] "MONTESANO SCHOOL DISTRICT 66"
 ## [77] "OAKVILLE SCHOOL DISTRICT 400"
 ## [78] "OCOSTA SCHOOL DISTRICT 172"

[79] "QUINALT SCHOOL DISTRICT 97"
 ## [80] "SATSOP SCHOOL DISTRICT 104"
 ## [81] "TAHOLAH SCHOOL DISTRICT 77"
 ## [82] "WISHKAH VALLEY SCHOOL DISTRICT 117"
 ## [83] "NORTH BEACH SCHOOL DISTRICT 64"
 ## [84] "COUPEVILLE SCHOOL DISTRICT 204"
 ## [85] "OAK HARBOR SCHOOL DISTRICT 201"
 ## [86] "SOUTH WHIDBEY SCHOOL DISTRICT 206"
 ## [87] "BRINNON SCHOOL DISTRICT 46"
 ## [88] "CHIMACUM SCHOOL DISTRICT 49"
 ## [89] "PORT TOWNSEND SCHOOL DISTRICT 50"
 ## [90] "QUEETS CLEARWATER SCHOOL DISTRICT 20"
 ## [91] "QUILCENE SCHOOL DISTRICT 48"
 ## [92] "AUBURN SCHOOL DISTRICT 408"
 ## [93] "BELLEVUE SCHOOL DISTRICT 405"
 ## [94] "NORTHSHORE SCHOOL DISTRICT 417"
 ## [95] "ENUMCLAW SCHOOL DISTRICT 216"
 ## [96] "FEDERAL WAY SCHOOL DISTRICT 210"
 ## [97] "HIGHLINE SCHOOL DISTRICT 401"
 ## [98] "ISSAQUAH SCHOOL DISTRICT 411"
 ## [99] "KENT SCHOOL DISTRICT 415"
 ## [100] "LAKE WASHINGTON SCHOOL DISTRICT 414"
 ## [101] "RIVERVIEW SCHOOL DISTRICT 407"
 ## [102] "MERCER ISLAND SCHOOL DISTRICT 400"
 ## [103] "RENTON SCHOOL DISTRICT 403"
 ## [104] "SEATTLE SCHOOL DISTRICT 1"
 ## [105] "SHORELINE SCHOOL DISTRICT 412"
 ## [106] "SKYKOMISH SCHOOL DISTRICT 404"
 ## [107] "SNOQUALMIE VALLEY SCHOOL DISTRICT 410"
 ## [108] "TUKWILA SCHOOL DISTRICT 406"
 ## [109] "TAHOMA SCHOOL DISTRICT 409"
 ## [110] "VASHON ISLAND SCHOOL DISTRICT 402"
 ## [111] "PUGET SOUND EDUCATIONAL SERVICE DISTRICT"
 ## [112] "BAINBRIDGE ISLAND SCHOOL DISTRICT 303"
 ## [113] "BREMERTON SCHOOL DISTRICT 100 C"
 ## [114] "CENTRAL KITSAP SCHOOL DISTRICT 401"
 ## [115] "NORTH KITSAP SCHOOL DISTRICT 400"
 ## [116] "SOUTH KITSAP SCHOOL DISTRICT 402"
 ## [117] "OLYMPIC EDUCATIONAL SERVICE DISTRICT 114"
 ## [118] "CLEELUM ROSLYN SCHOOL DISTRICT 404"
 ## [119] "DAMMAN SCHOOL DISTRICT 7"
 ## [120] "EASTON SCHOOL DISTRICT 28"
 ## [121] "ELLENSBURG SCHOOL DISTRICT 401"
 ## [122] "KITITITAS SCHOOL DISTRICT 403"
 ## [123] "THORP SCHOOL DISTRICT 400"
 ## [124] "BICKLETON SCHOOL DISTRICT 203"
 ## [125] "CENTERVILLE SCHOOL DISTRICT 215"
 ## [126] "GLENWOOD CONSOLIDATED SCHOOL DISTRICT 401"
 ## [127] "GOLDENDALE SCHOOL DISTRICT 404"
 ## [128] "KLICKITAT SCHOOL DISTRICT 402"
 ## [129] "LYLE SCHOOL DISTRICT 406"
 ## [130] "ROOSEVELT SCHOOL DISTRICT 403"
 ## [131] "TROUT LAKE SCHOOL DISTRICT 400"
 ## [132] "WHITE SALMON SCHOOL DISTRICT 405-17"

[133] "WISHRAM SCHOOL DISTRICT 94"
 ## [134] "ADNA SCHOOL DISTRICT 226"
 ## [135] "BOISTFORT SCHOOL DISTRICT 234"
 ## [136] "CENTRALIA SCHOOL DISTRICT 401"
 ## [137] "CHEHALIS SCHOOL DISTRICT 302"
 ## [138] "EVALINE SCHOOL DISTRICT 36"
 ## [139] "MORTON SCHOOL DISTRICT 214"
 ## [140] "MOSSYROCK SCHOOL DISTRICT 206"
 ## [141] "NAPAVINE SCHOOL DISTRICT 14"
 ## [142] "ONALASKA SCHOOL DISTRICT 300"
 ## [143] "PE ELL SCHOOL DISTRICT 301"
 ## [144] "TOLEDO SCHOOL DISTRICT 237"
 ## [145] "WHITE PASS SCHOOL DISTRICT 303"
 ## [146] "WINLOCK SCHOOL DISTRICT 232"
 ## [147] "ALMIRA SCHOOL DISTRICT 17"
 ## [148] "CRESTON CONSOLIDATED SCHOOL DISTRICT 73"
 ## [149] "DAVENPORT SCHOOL DISTRICT 207"
 ## [150] "HARRINGTON SCHOOL DISTRICT 204"
 ## [151] "ODESSA SCHOOL DISTRICT 105-157-166J"
 ## [152] "REARDAN-EDWALL SCHOOL DISTRICT 9"
 ## [153] "SPRAGUE CONSOLIDATED SCHOOL DISTRICT 8"
 ## [154] "WILBUR CONSOLIDATED SCHOOL DISTRICT 200"
 ## [155] "NORTH MASON SCHOOL DISTRICT 403"
 ## [156] "GRAPEVIEW SCHOOL DISTRICT 54"
 ## [157] "HOOD CANAL CONSOLIDATED SCHOOL DISTRICT 404"
 ## [158] "MARY M KNIGHT SCHOOL DISTRICT 311"
 ## [159] "PIONEER SCHOOL DISTRICT 402"
 ## [160] "SHELTON SCHOOL DISTRICT 309"
 ## [161] "SOUTHSIDE SCHOOL DISTRICT 42"
 ## [162] "BREWSTER SCHOOL DISTRICT 111"
 ## [163] "NESPELEM SCHOOL DISTRICT 14"
 ## [164] "OKANOGAN SCHOOL DISTRICT 105"
 ## [165] "OMAK SCHOOL DISTRICT 19"
 ## [166] "OROVILLE SCHOOL DISTRICT 410"
 ## [167] "PATEROS SCHOOL DISTRICT 122"
 ## [168] "TONASKET SCHOOL DISTRICT 404"
 ## [169] "METHOW VALLEY SCHOOL DISTRICT 350"
 ## [170] "OCEAN BEACH SCHOOL DISTRICT 101"
 ## [171] "NASELLE GRAYS RIVER VALLEY SCHOOL DISTRICT 155"
 ## [172] "NORTH RIVER SCHOOL DISTRICT 200"
 ## [173] "RAYMOND SCHOOL DISTRICT 116"
 ## [174] "SOUTH BEND SCHOOL DISTRICT 118"
 ## [175] "WILLAPA VAL SCHOOL DISTRICT 160"
 ## [176] "CUSICK CONSOLIDATED SCHOOL DISTRICT 59"
 ## [177] "NEWPORT SCHOOL DISTRICT 56-415"
 ## [178] "SELKIRK SCHOOL DISTRICT 70"
 ## [179] "BETHEL SCHOOL DISTRICT 403"
 ## [180] "CARBONADO SCHOOL DISTRICT 19"
 ## [181] "CLOVER PARK SCHOOL DISTRICT 400"
 ## [182] "DIERINGER SCHOOL DISTRICT 343"
 ## [183] "EATONVILLE SCHOOL DISTRICT 404"
 ## [184] "FIFE SCHOOL DISTRICT 417"
 ## [185] "FRANKLIN PIERCE SCHOOL DISTRICT 402"
 ## [186] "ORTING SCHOOL DISTRICT 344"

[187] "PENINSULA SCHOOL DISTRICT 401"
 ## [188] "PUYALLUP SCHOOL DISTRICT 3"
 ## [189] "STEILACOOM HISTORICAL SCHOOL DISTRICT 1"
 ## [190] "SUMNER SCHOOL DISTRICT 320"
 ## [191] "TACOMA SCHOOL DISTRICT 10"
 ## [192] "UNIVERSITY PLACE SCH DIST 83"
 ## [193] "WHITE RIVER SCHOOL DISTRICT 416"
 ## [194] "LOPEZ ISLAND SCHOOL DISTRICT 144"
 ## [195] "ORCAS ISLAND SCHOOL DISTRICT 137"
 ## [196] "SAN JUAN ISLAND SCHOOL DISTRICT 149"
 ## [197] "SHAW ISLAND SCHOOL DISTRICT 10"
 ## [198] "ANACORTES SCHOOL DISTRICT 103"
 ## [199] "BURLINGTON EDISON SCHOOL DISTRICT 100"
 ## [200] "CONCRETE SCHOOL DISTRICT 11"
 ## [201] "CONWAY SCHOOL DISTRICT 317"
 ## [202] "LA CONNER SCHOOL DISTRICT 311"
 ## [203] "MT VERNON SCHOOL DISTRICT 320"
 ## [204] "SEDRO WOOLLEY SCHOOL DISTRICT 101"
 ## [205] "NORTHWEST EDUCATIONAL SERVICE DISTRICT 189"
 ## [206] "MILL A SCHOOL DISTRICT 31"
 ## [207] "MT PLEASANT SCHOOL DISTRICT 29-93"
 ## [208] "SKAMANIA SCHOOL DISTRICT 2"
 ## [209] "STEVENSON-CARSON SCHOOL DISTRICT 303"
 ## [210] "ARLINGTON SCHOOL DISTRICT 16"
 ## [211] "DARRINGTON CONSOLIDATED SCHOOL DISTRICT 330"
 ## [212] "EDMONDS SCHOOL DISTRICT 15"
 ## [213] "EVERETT SCHOOL DISTRICT 2"
 ## [214] "GRANITE FALLS SCHOOL DISTRICT 332"
 ## [215] "INDEX SCHOOL DISTRICT 63"
 ## [216] "LAKE STEVENS SCHOOL DISTRICT 4"
 ## [217] "LAKEWOOD SCHOOL DISTRICT 306"
 ## [218] "MARYSVILLE SCHOOL DISTRICT 25"
 ## [219] "MONROE SCHOOL DISTRICT 103"
 ## [220] "MUKILTEO SCHOOL DISTRICT 6"
 ## [221] "SNOHOMISH SCHOOL DISTRICT 201"
 ## [222] "SULTAN SCHOOL DISTRICT 311"
 ## [223] "STANWOOD SCHOOL DISTRICT 401"
 ## [224] "CENTRAL VALLEY SCHOOL DISTRICT 356"
 ## [225] "CHENEY SCHOOL DISTRICT 360"
 ## [226] "DEER PARK SCHOOL DISTRICT 414"
 ## [227] "LIBERTY SCHOOL DISTRICT 362"
 ## [228] "FREEMAN SCHOOL DISTRICT 358"
 ## [229] "MEAD CONSOLIDATED SCHOOL DISTRICT 354"
 ## [230] "MEDICAL LAKE SCHOOL DISTRICT 326"
 ## [231] "NINE MILE FALLS SCHOOL DISTRICT 325"
 ## [232] "ORCHARD PRAIRIE SCHOOL DISTRICT 123"
 ## [233] "RIVERSIDE SCHOOL DISTRICT 416"
 ## [234] "SPOKANE SCHOOL DISTRICT 81"
 ## [235] "WEST VALLEY SCHOOL DISTRICT 363"
 ## [236] "EDUCATIONAL SERVICE DISTRICT 101"
 ## [237] "EAST VALLEY SCHOOL DISTRICT 361"
 ## [238] "GREAT NORTHERN SCHOOL DISTRICT 312"
 ## [239] "CHEWELAH SCHOOL DISTRICT 36"
 ## [240] "COLVILLE SCHOOL DISTRICT 115"

[241] "COLUMBIA SCHOOL DISTRICT 206"
 ## [242] "EVERGREEN SCHOOL DISTRICT 205"
 ## [243] "KETTLE FALLS SCHOOL DISTRICT 212"
 ## [244] "LOON LAKE SCHOOL DISTRICT 183"
 ## [245] "NORTHPORT SCHOOL DISTRICT 211"
 ## [246] "ONION CREEK SCHOOL DISTRICT 30"
 ## [247] "MARY WALKER SCHOOL DISTRICT 207"
 ## [248] "SUMMIT VALLEY SCHOOL DISTRICT 202"
 ## [249] "VALLEY SCHOOL DISTRICT 70"
 ## [250] "WELLPINIT SCHOOL DISTRICT 49"
 ## [251] "GRIFFIN SCHOOL DISTRICT 324"
 ## [252] "NORTH THURSTON SCHOOL DISTRICT 3"
 ## [253] "OLYMPIA SCHOOL DISTRICT 111"
 ## [254] "RAINIER SCHOOL DISTRICT 307"
 ## [255] "ROCHESTER SCHOOL DISTRICT 401"
 ## [256] "TENINO SCHOOL DISTRICT 402"
 ## [257] "TUMWATER SCHOOL DISTRICT 33"
 ## [258] "YELM SCHOOL DISTRICT 2"
 ## [259] "EDUCATIONAL SERVICE DISTRICT 113"
 ## [260] "WAHKIAKUM SCHOOL DISTRICT 200"
 ## [261] "COLLEGE PLACE SCHOOL DISTRICT 250"
 ## [262] "COLUMBIA SCHOOL DISTRICT 400"
 ## [263] "DIXIE SCHOOL DISTRICT 101"
 ## [264] "PRESCOTT SCHOOL DISTRICT 402 37"
 ## [265] "TOUCHET SCHOOL DISTRICT 300"
 ## [266] "WAITSBURG SCHOOL DISTRICT 401-100"
 ## [267] "WALLA WALLA SCHOOL DISTRICT 140"
 ## [268] "EDUCATIONAL SERVICE DISTRICT 123"
 ## [269] "BELLINGHAM SCHOOL DISTRICT 501"
 ## [270] "BLAINE SCHOOL DISTRICT 503"
 ## [271] "FERNDAL SCHOOL DISTRICT 502"
 ## [272] "LYNDEN SCHOOL DISTRICT 504"
 ## [273] "MERIDIAN SCHOOL DISTRICT 505"
 ## [274] "MOUNT BAKER SCHOOL DISTRICT 507"
 ## [275] "NOOKSACK VALLEY SCHOOL DISTRICT 506"
 ## [276] "COLFAX SCHOOL DISTRICT 300"
 ## [277] "COLTON SCHOOL DISTRICT 306"
 ## [278] "ENDICOTT SCHOOL DISTRICT 308"
 ## [279] "GARFIELD SCHOOL DISTRICT 302"
 ## [280] "LACROSSE SCHOOL DISTRICT 126"
 ## [281] "LAMONT SCHOOL DISTRICT 264"
 ## [282] "OAKESDALE SCHOOL DISTRICT 324"
 ## [283] "PALOUSE SCHOOL DISTRICT 301"
 ## [284] "PULLMAN SCHOOL DISTRICT 267"
 ## [285] "ROSALIA SCHOOL DISTRICT 320"
 ## [286] "ST JOHN SCHOOL DISTRICT 322"
 ## [287] "STEPTOE SCHOOL DISTRICT 304"
 ## [288] "TEKOA SCHOOL DISTRICT 265"
 ## [289] "GRANDVIEW SCHOOL DISTRICT 116-200"
 ## [290] "GRANGER SCHOOL DISTRICT 204"
 ## [291] "HIGHLAND SCHOOL DISTRICT 203"
 ## [292] "MABTON SCHOOL DISTRICT 120"
 ## [293] "EAST VALLEY SCHOOL DISTRICT 90"
 ## [294] "NACHES VALLEY JOINT SCHOOL DISTRICT 3"


```
## [295] "SELAH SCHOOL DISTRICT 119"
## [296] "SUNNYSIDE SCHOOL DISTRICT 201"
## [297] "TOPPENISH SCHOOL DISTRICT 202"
## [298] "UNION GAP SCHOOL DISTRICT 2"
## [299] "WAPATO SCHOOL DISTRICT 207"
## [300] "WEST VALLEY SCHOOL DISTRICT 208"
## [301] "YAKIMA SCHOOL DISTRICT 7"
## [302] "ZILLAH SCHOOL DISTRICT 205"
## [303] "EDUCATIONAL SERVICE DISTRICT 105"
## [304] "MOUNT ADAMS SCHOOL DISTRICT 209"
```

Next remove the unnecessary numbers

```
library(stringr)
```

```
## Warning: package 'stringr' was built under R version 3.4.3
```

```
(WAData$NAMEbad=unlist(lapply(WAData$NAME,word,-1)))
```

```
## [1] "122" "158" "163-55" "160-67"
## [5] "109-43" "420" "J250-185" "17"
## [9] "52" "50" "116" "400"
## [13] "53" "222" "129" "127"
## [17] "19" "228" "69" "246"
## [21] "DISTRICT" "401" "313" "121"
## [25] "DISTRICT" "323" "119" "117"
## [29] "114" "103" "98" "101"
## [33] "122" "37" "112-6" "112"
## [37] "2" "35" "401" "402"
## [41] "458" "122" "130" "404"
## [45] "75" "206" "207" "13"
## [49] "102" "209" "50" "70"
## [53] "3" "65" "309" "56"
## [57] "1" "54" "J51-162" "110"
## [61] "151" "165" "301J" "160"
## [65] "161" "144-101" "156" "146-161"
## [69] "202" "73" "5" "99"
## [73] "68" "28" "65" "66"
## [77] "400" "172" "97" "104"
## [81] "77" "117" "64" "204"
## [85] "201" "206" "46" "49"
## [89] "50" "20" "48" "408"
## [93] "405" "417" "216" "210"
## [97] "401" "411" "415" "414"
## [101] "407" "400" "403" "1"
## [105] "412" "404" "410" "406"
## [109] "409" "402" "DISTRICT" "303"
## [113] "C" "401" "400" "402"
## [117] "114" "404" "7" "28"
## [121] "401" "403" "400" "203"
## [125] "215" "401" "404" "402"
## [129] "406" "403" "400" "405-17"
## [133] "94" "226" "234" "401"
## [137] "302" "36" "214" "206"
## [141] "14" "300" "301" "237"
## [145] "303" "232" "17" "73"
```

```
## [149] "207"      "204"      "105-157-166J" "9"
## [153] "8"        "200"      "403"          "54"
## [157] "404"      "311"      "402"          "309"
## [161] "42"       "111"      "14"           "105"
## [165] "19"       "410"      "122"          "404"
## [169] "350"      "101"      "155"          "200"
## [173] "116"      "118"      "160"          "59"
## [177] "56-415"   "70"       "403"          "19"
## [181] "400"      "343"      "404"          "417"
## [185] "402"      "344"      "401"          "3"
## [189] "1"        "320"      "10"           "83"
## [193] "416"      "144"      "137"          "149"
## [197] "10"       "103"      "100"          "11"
## [201] "317"      "311"      "320"          "101"
## [205] "189"      "31"       "29-93"        "2"
## [209] "303"      "16"       "330"          "15"
## [213] "2"        "332"      "63"           "4"
## [217] "306"      "25"       "103"          "6"
## [221] "201"      "311"      "401"          "356"
## [225] "360"      "414"      "362"          "358"
## [229] "354"      "326"      "325"          "123"
## [233] "416"      "81"       "363"          "101"
## [237] "361"      "312"      "36"           "115"
## [241] "206"      "205"      "212"          "183"
## [245] "211"      "30"       "207"          "202"
## [249] "70"       "49"       "324"          "3"
## [253] "111"      "307"      "401"          "402"
## [257] "33"       "2"        "113"          "200"
## [261] "250"      "400"      "101"          "37"
## [265] "300"      "401-100"  "140"          "123"
## [269] "501"      "503"      "502"          "504"
## [273] "505"      "507"      "506"          "300"
## [277] "306"      "308"      "302"          "126"
## [281] "264"      "324"      "301"          "267"
## [285] "320"      "322"      "304"          "265"
## [289] "116-200"  "204"      "203"          "120"
## [293] "90"       "3"        "119"          "201"
## [297] "202"      "2"        "207"          "208"
## [301] "7"        "205"      "105"          "209"
```

Conintue with the rest of data cleaning.

```
WData$NAMEOK=NA
for (pos in 1:nrow(WData)){
  if(WData$NAMEbad[pos]!="DISTRICT"){
    cleanValue=sub(WData$NAMEbad[pos],',',WData$NAME[pos])
    WData$NAMEOK[pos]=trimws(cleanValue)
  }else{WData$NAMEOK[pos]=WData$NAME[pos]}}

table(unlist(lapply(WData$NAMEOK,word,-1)))
```

```
##
##      147      167      402      C      DIST DISTRICT
##      1        1        1        1        2      298
```

```

WData[word(WData$NAMEOK,-1)=='DIST',]

##          STATE                                NAME YRDATA TOTALREV TFEDREV TSTREV
## 15  Washington      LAKE CHELAN SCH DIST 129   2015    18058    1502  11433
## 192 Washington UNIVERSITY PLACE SCH DIST 83   2015    64898    3559  39937
##      TLOCREV TOTALEXP TCURELSC TCURINST TCURSSVC TCUROTH NONELSEC TCAPOUT
## 15      5123    19158    16240     9258     6039     943        9    2885
## 192    21402    60766    56274    31799    21704    2771         0    1355
##      NAMEbad                                NAMEOK
## 15      129      LAKE CHELAN SCH DIST
## 192      83 UNIVERSITY PLACE SCH DIST

WData$NAMEbad=unlist(lapply(WData$NAMEOK,word,-1))

for (pos in 1:nrow(WData)){
  if (WData$NAMEbad[pos]=='DIST'){
    cleanValue=sub("DIST", 'DISTRICT',WData$NAMEOK[pos])
    WData$NAMEOK[pos]=trimws(cleanValue)}

table(unlist(lapply(WData$NAMEOK,word,-1)))

##
##      147      167      402      C DISTRICT
##      1        1        1        1      300

(lastBad=names(table(unlist(lapply(WData$NAMEOK,word,-1))))[-c(4,5)])

## [1] "147" "167" "402"

for (pos in 1:nrow(WData)){
  if (WData$NAMEbad[pos]%in% lastBad){
    cleanValue=sub(WData$NAMEbad[pos], '',WData$NAMEOK[pos])
    WData$NAMEOK[pos]=trimws(cleanValue) }}

table(unlist(lapply(WData$NAMEOK,word,-1)))

##
##      C DISTRICT
##      1      303

WData[word(WData$NAMEOK,-1)=='C',]

##          STATE                                NAME YRDATA TOTALREV TFEDREV
## 113 Washington BREMERTON SCHOOL DISTRICT 100 C   2015    65743    6250
##      TSTREV TLOCREV TOTALEXP TCURELSC TCURINST TCURSSVC TCUROTH NONELSEC
## 113  40421  19072    61934    56699    32267    22048    2384    599
##      TCAPOUT NAMEbad                                NAMEOK
## 113    2811      C BREMERTON SHOOL DISTRICT 100 C

WData[word(WData$NAMEOK,-1)=='C',]$NAMEOK='BREMERTON SCHOOL DISTRICT'

table(unlist(lapply(WData$NAMEOK,word,-1)))

##
## DISTRICT
##      304

length(WData$NAMEOK)

```

```
## [1] 304
length(unique(WAData$NAMEOK))

## [1] 296
names(WAData)

## [1] "STATE"      "NAME"      "YRDATA"    "TOTALREV"  "TFEDREV"   "TSTREV"
## [7] "TLOCREV"    "TOTALEXP"  "TCURELSC"  "TCURINST"  "TCURSSVC"  "TCUROTH"
## [13] "NONESEC"    "TCAPOUT"   "NAMEbad"   "NAMEOK"

numericColumns =names(WAData)[4:14]
aggregateBY='NAMEOK'
(cleanWA=aggregate(WAData[,numericColumns], by=list(WAData[,aggregateBY]), sum ))
```

Merging the Data

As the Enrollment and Drop Out Rate datasets both had district codes, merge via “District Code”.

```
gradenr=merge(EnrollmentWA,DropOut,by.x='District Code',by.y="District Code" )

DropOutData <- merge(DropOut, EnrollmentWA, by="District Code")
```

As the Financials and the new datasets both had district codes, merge via “District Name”.

```
FullData <- merge(WAFinance1, DropOutData, by="District Name")
```

Now we can take a look at the data frame variable.

```
str(FullData)

## 'data.frame':    210 obs. of  27 variables:
## $ District Name      : chr  "Aberdeen School District" "Adna School District" "A
## $ State.x            : chr  "Washington" "Washington" "Washington" "Washington"
## $ Year               : num  2015 2015 2015 2015 2015 ...
## $ Total Revenue      : num  42595 6316 33541 60963 207809 ...
## $ State Revenue      : num  28758 4670 18256 38934 127492 ...
## $ Local Revenue      : num  9145 1140 13808 19327 65340 ...
## $ District Code      : chr  "14005" "21226" "29103" "31016" ...
## $ Adjusted 5-Year Cohort Graduation Rate: chr  "77.685950413223139" "91.11111111111114" "87.053571
## $ Cohort dropout rate: chr  "16.528925619834713" "8.8888888888888893" "10.714285
## $ School Year        : num  2015 2015 2015 2015 2015 ...
## $ State.y            : chr  "WA" "WA" "WA" "WA" ...
## $ K-12 Total         : num  3221 608 2721 5479 15222 ...
## $ PK Total           : num  49 4 31 56 226 49 87 118 68 243 ...
## $ Full K Total       : num  266 0 192 71 1200 ...
## $ Half K Total       : num  0 42 4 285 16 ...
## $ Gr 1 Total         : num  265 47 210 368 1202 ...
## $ Gr 2 Total         : num  264 34 218 424 1181 ...
## $ Gr 3 Total         : num  257 42 196 397 1134 ...
## $ Gr 4 Total         : num  202 35 209 392 1157 ...
## $ Gr 5 Total         : num  236 42 185 424 1122 ...
## $ Gr 6 Total         : num  240 51 218 411 1058 ...
## $ Gr 7 Total         : num  217 47 222 440 1090 ...
## $ Gr 8 Total         : num  235 56 202 437 1085 ...
## $ Gr 9 Total         : num  248 48 189 436 1278 ...
```

```
## $ Gr 10 Total          : num  266 61 214 443 1168 ...
## $ Gr 11 Total          : num  227 60 235 475 1205 ...
## $ Gr 12 Total          : num  298 43 227 476 1326 ...
```

Now we can look at a summary of the data.

```
summary(FullData)
```

```
## District Name          State.x          Year          Total Revenue
## Length:210             Length:210       Min.   :2015     Min.   : 1694
## Class :character       Class :character 1st Qu.:2015     1st Qu.: 7496
## Mode  :character       Mode  :character Median :2015     Median : 17644
##                               Mean   :2015     Mean   : 52931
##                               3rd Qu.:2015     3rd Qu.: 53008
##                               Max.   :2015     Max.   :415924
## State Revenue          Local Revenue      District Code
## Min.   : 504           Min.   : 74         Length:210
## 1st Qu.: 4841          1st Qu.: 1541       Class :character
## Median : 12090          Median : 3850       Mode  :character
## Mean   : 32659          Mean   : 16428
## 3rd Qu.: 36285          3rd Qu.: 16189
## Max.   :263848          Max.   :169681
## Adjusted 5-Year Cohort Graduation Rate Cohort dropout rate School Year
## Length:210                                Length:210       Min.   :2015
## Class :character                          Class :character 1st Qu.:2015
## Mode  :character                          Mode  :character Median :2015
##                                                    Mean   :2015
##                                                    3rd Qu.:2015
##                                                    Max.   :2015
## State.y          K-12 Total          PK Total          Full K Total
## Length:210       Min.   : 44.0       Min.   : 0.0       Min.   : 0.00
## Class :character 1st Qu.: 566.2       1st Qu.: 5.0       1st Qu.: 14.25
## Mode  :character Median : 1521.5       Median : 17.0       Median : 60.50
##                               Mean   : 4208.6       Mean   : 51.0       Mean   : 214.14
##                               3rd Qu.: 4400.2       3rd Qu.: 55.5       3rd Qu.: 196.25
##                               Max.   :29851.0       Max.   :464.0       Max.   :2479.00
## Half K Total      Gr 1 Total          Gr 2 Total          Gr 3 Total
## Min.   : 0.00      Min.   : 0.00       Min.   : 2.0       Min.   : 1.00
## 1st Qu.: 0.00      1st Qu.: 41.25       1st Qu.: 39.0       1st Qu.: 39.25
## Median : 2.00      Median : 106.50       Median : 108.0       Median : 105.00
## Mean   : 104.80     Mean   : 330.68       Mean   : 330.5       Mean   : 321.32
## 3rd Qu.: 77.75     3rd Qu.: 352.75       3rd Qu.: 341.2       3rd Qu.: 348.00
## Max.   :2005.00     Max.   :2567.00       Max.   :2573.0       Max.   :2445.00
## Gr 4 Total        Gr 5 Total          Gr 6 Total          Gr 7 Total
## Min.   : 1.0       Min.   : 3.0         Min.   : 0.0       Min.   : 0.00
## 1st Qu.: 40.0       1st Qu.: 39.5         1st Qu.: 41.0       1st Qu.: 39.25
## Median : 108.5       Median : 106.0         Median : 117.5       Median : 115.00
## Mean   : 314.5       Mean   : 315.2         Mean   : 312.7       Mean   : 311.75
## 3rd Qu.: 342.2       3rd Qu.: 342.2         3rd Qu.: 350.8       3rd Qu.: 349.25
## Max.   :2266.0       Max.   :2252.0         Max.   :2225.0       Max.   :2227.00
## Gr 8 Total        Gr 9 Total          Gr 10 Total         Gr 11 Total
## Min.   : 2.0       Min.   : 1.00        Min.   : 1.0       Min.   : 1.00
## 1st Qu.: 42.0       1st Qu.: 41.25        1st Qu.: 44.0       1st Qu.: 39.25
## Median : 125.0       Median : 128.50        Median : 125.0       Median : 124.50
## Mean   : 319.2       Mean   : 335.70        Mean   : 328.0       Mean   : 324.31
```

```
## 3rd Qu.: 362.5    3rd Qu.: 388.75    3rd Qu.: 369.8    3rd Qu.: 381.50
## Max.    :2200.0    Max.    :2489.00    Max.    :2238.0    Max.    :2107.00
## Gr 12 Total
## Min.    :    2.00
## 1st Qu.:   40.25
## Median :  125.50
## Mean    :  345.78
## 3rd Qu.:  415.50
## Max.    :2330.00
```

Now we see if the updated data set has any missing values.

```
table(is.na(FullData))
```

```
##
## FALSE
## 5670
```

Now let's remove NA's.

```
FullData <- na.omit(FullData)
```

Perfect, and now I want to set the graduation and dropout rates to numeric values.

```
FullData$`Adjusted 5-Year Cohort Graduation Rate` <- as.numeric(as.character(FullData$`Adjusted 5-Year Cohort Graduation Rate`))
```

```
## Warning: NAs introduced by coercion
```

```
FullData$`Cohort dropout rate` <- as.numeric(as.character(FullData$`Cohort dropout rate`))
```

```
## Warning: NAs introduced by coercion
```

Good, no missing values. Now let's see which districts have the highest and lowest Local, State, and Total Revenues

```
FullData[which.max(FullData$`State Revenue`),]
```

```
##           District Name      State.x Year Total Revenue State Revenue
## 170 Spokane School District Washington 2015      403857      263848
##      Local Revenue District Code Adjusted 5-Year Cohort Graduation Rate
## 170      105747      32081      86.41783
##      Cohort dropout rate School Year State.y K-12 Total PK Total
## 170      11.76776      2015      WA      29851      464
##      Full K Total Half K Total Gr 1 Total Gr 2 Total Gr 3 Total Gr 4 Total
## 170      2479      76      2544      2559      2394      2266
##      Gr 5 Total Gr 6 Total Gr 7 Total Gr 8 Total Gr 9 Total Gr 10 Total
## 170      2192      2225      2227      2200      2254      2169
##      Gr 11 Total Gr 12 Total
## 170      2107      2159
```

```
FullData[which.max(FullData$`Total Revenue`),]
```

```
##           District Name      State.x Year Total Revenue State Revenue
## 175 Tacoma School District Washington 2015      415924      223785
##      Local Revenue District Code Adjusted 5-Year Cohort Graduation Rate
## 175      154048      27010      82.46753
##      Cohort dropout rate School Year State.y K-12 Total PK Total
## 175      15.36797      2015      WA      29144      264
##      Full K Total Half K Total Gr 1 Total Gr 2 Total Gr 3 Total Gr 4 Total
## 175      1799      657      2567      2573      2445      2266
```

```
##      Gr 5 Total Gr 6 Total Gr 7 Total Gr 8 Total Gr 9 Total Gr 10 Total
## 175      2223      1996      2085      1998      2124      2080
##      Gr 11 Total Gr 12 Total
## 175      2001      2330
```

```
FullData[which.max(FullData$`Local Revenue`),]
```

```
##      District Name      State.x Year Total Revenue State Revenue
## 8 Bellevue School District Washington 2015      307196      127047
##      Local Revenue District Code Adjusted 5-Year Cohort Graduation Rate
## 8      169681      17405      94.89933
##      Cohort dropout rate School Year State.y K-12 Total PK Total Full K Total
## 8      4.295302      2015      WA      19362      118      93
##      Half K Total Gr 1 Total Gr 2 Total Gr 3 Total Gr 4 Total Gr 5 Total
## 8      1296      1368      1534      1458      1415      1454
##      Gr 6 Total Gr 7 Total Gr 8 Total Gr 9 Total Gr 10 Total Gr 11 Total
## 8      1488      1498      1457      1589      1545      1585
##      Gr 12 Total
## 8      1582
```

```
FullData[which.min(FullData$`State Revenue`),]
```

```
##      District Name      State.x Year Total Revenue
## 205 Wishkah Valley School District Washington 2015      2241
##      State Revenue Local Revenue District Code
## 205      504      1634      14117
##      Adjusted 5-Year Cohort Graduation Rate Cohort dropout rate School Year
## 205      95.2381      4.761905      2015
##      State.y K-12 Total PK Total Full K Total Half K Total Gr 1 Total
## 205      WA      148      0      9      0      10
##      Gr 2 Total Gr 3 Total Gr 4 Total Gr 5 Total Gr 6 Total Gr 7 Total
## 205      9      8      14      13      19      16
##      Gr 8 Total Gr 9 Total Gr 10 Total Gr 11 Total Gr 12 Total
## 205      6      8      13      9      14
```

```
FullData[which.min(FullData$`Total Revenue`),]
```

```
##      District Name      State.x Year Total Revenue
## 112 North River School District Washington 2015      1694
##      State Revenue Local Revenue District Code
## 112      1554      89      25200
##      Adjusted 5-Year Cohort Graduation Rate Cohort dropout rate School Year
## 112      NA      NA      2015
##      State.y K-12 Total PK Total Full K Total Half K Total Gr 1 Total
## 112      WA      52      0      0      5      0
##      Gr 2 Total Gr 3 Total Gr 4 Total Gr 5 Total Gr 6 Total Gr 7 Total
## 112      3      4      1      3      2      6
##      Gr 8 Total Gr 9 Total Gr 10 Total Gr 11 Total Gr 12 Total
## 112      3      7      3      10      5
```

```
FullData[which.min(FullData$`Local Revenue`),]
```

```
##      District Name      State.x Year Total Revenue State Revenue
## 206 Wishram School District Washington 2015      1898      1701
##      Local Revenue District Code Adjusted 5-Year Cohort Graduation Rate
## 206      74      20094      NA
##      Cohort dropout rate School Year State.y K-12 Total PK Total
```

```
## 206          NA      2015      WA      85      1
## Full K Total Half K Total Gr 1 Total Gr 2 Total Gr 3 Total Gr 4 Total
## 206          7          0          6          5          5          6
## Gr 5 Total Gr 6 Total Gr 7 Total Gr 8 Total Gr 9 Total Gr 10 Total
## 206          7          8          5          9          8          8
## Gr 11 Total Gr 12 Total
## 206          4          7
```

We can see

Ok, now let's look at the districts with the lowest graduation rates.

```
FullData[which.min(FullData$`Adjusted 5-Year Cohort Graduation Rate`),]
```

```
##          District Name      State.x Year Total Revenue State Revenue
## 166 Soap Lake School District Washington 2015          6389          4429
## Local Revenue District Code Adjusted 5-Year Cohort Graduation Rate
## 166          1063          13156          38.88889
## Cohort dropout rate School Year State.y K-12 Total PK Total
## 166          55.55556          2015      WA          440          6
## Full K Total Half K Total Gr 1 Total Gr 2 Total Gr 3 Total Gr 4 Total
## 166          26          0          34          28          33          30
## Gr 5 Total Gr 6 Total Gr 7 Total Gr 8 Total Gr 9 Total Gr 10 Total
## 166          33          29          33          32          39          37
## Gr 11 Total Gr 12 Total
## 166          37          49
```

```
FullData[order(FullData$`Adjusted 5-Year Cohort Graduation Rate`),]
```

```
##          District Name      State.x Year Total Revenue
## 166 Soap Lake School District Washington 2015          6389
## 176 Taholah School District Washington 2015          4624
## 183 Toppenish School District Washington 2015          45050
## 121 Okanogan School District Washington 2015          12532
## 75 Klickitat School District Washington 2015          3086
## 27 Clarkston School District Washington 2015          29235
## 101 Mount Adams School District Washington 2015          13810
## 33 Concrete School District Washington 2015          7179
## 187 Tukwila School District Washington 2015          45517
## 117 Oakville School District Washington 2015          3950
## 178 Tekoa School District Washington 2015          3245
## 201 Wenatchee School District Washington 2015          92265
## 193 Wahluke School District Washington 2015          25240
## 50 Ferndale School District Washington 2015          57235
## 63 Highline School District Washington 2015          248401
## 208 Yakima School District Washington 2015          213556
## 195 Wapato School District Washington 2015          40180
## 57 Grand Coulee Dam School District Washington 2015          12915
## 58 Grandview School District Washington 2015          38912
## 84 Lyle School District Washington 2015          4350
## 142 Quillayute Valley School District Washington 2015          26614
## 83 Longview School District Washington 2015          78721
## 128 Othello School District Washington 2015          47232
## 105 Newport School District Washington 2015          13213
## 19 Castle Rock School District Washington 2015          13683
## 181 Toledo School District Washington 2015          7878
```


## 60	Granite Falls School District	Washington	2015	26846
## 65	Hoquiam School District	Washington	2015	21174
## 99	Moses Lake School District	Washington	2015	94144
## 86	Mabton School District	Washington	2015	10591
## 143	Quincy School District	Washington	2015	32975
## 119	Ocosta School District	Washington	2015	9613
## 1	Aberdeen School District	Washington	2015	42595
## 91	Marysville School District	Washington	2015	137969
## 130	Pasco School District	Washington	2015	236614
## 7	Battle Ground School District	Washington	2015	142945
## 98	Morton School District	Washington	2015	4898
## 111	North Mason School District	Washington	2015	25988
## 202	White Pass School District	Washington	2015	7167
## 22	Centralia School District	Washington	2015	39625
## 188	Tumwater School District	Washington	2015	80477
## 190	Vancouver School District	Washington	2015	269135
## 151	Ritzville School District	Washington	2015	4769
## 179	Tenino School District	Washington	2015	12756
## 207	Woodland School District	Washington	2015	40236
## 107	Nooksack Valley School District	Washington	2015	19280
## 171	Stevenson-Carson School District	Washington	2015	11197
## 154	Rochester School District	Washington	2015	26046
## 156	Royal School District	Washington	2015	24706
## 5	Auburn School District	Washington	2015	207809
## 49	Federal Way School District	Washington	2015	278629
## 12	Blaine School District	Washington	2015	27894
## 28	Clover Park School District	Washington	2015	194044
## 23	Chehalis School District	Washington	2015	33044
## 138	Prosser School District	Washington	2015	31140
## 9	Bellingham School District	Washington	2015	146654
## 168	South Kitsap School District	Washington	2015	101567
## 14	Bridgeport School District	Washington	2015	8943
## 118	Ocean Beach School District	Washington	2015	15007
## 175	Tacoma School District	Washington	2015	415924
## 147	Renton School District	Washington	2015	218285
## 135	Port Angeles School District	Washington	2015	42680
## 34	Coupeville School District	Washington	2015	11764
## 71	Kennewick School District	Washington	2015	197862
## 32	Colville School District	Washington	2015	19649
## 209	Yelm School District	Washington	2015	61637
## 197	Washougal School District	Washington	2015	36063
## 158	Selah School District	Washington	2015	54181
## 123	Omak School District	Washington	2015	44368
## 39	Eastmont School District	Washington	2015	67670
## 149	Richland School District	Washington	2015	151245
## 124	Onalaska School District	Washington	2015	8519
## 152	Riverside School District	Washington	2015	17210
## 160	Sequim School District	Washington	2015	29253
## 96	Monroe School District	Washington	2015	78025
## 161	Shelton School District	Washington	2015	51449
## 102	Mount Baker School District	Washington	2015	24235
## 25	Chewelah School District	Washington	2015	9527
## 72	Kent School District	Washington	2015	324455
## 46	Enumclaw School District	Washington	2015	48679

## 56	Goldendale School District	Washington 2015	11581
## 26	Chimacum School District	Washington 2015	13555
## 141	Quilcene School District	Washington 2015	5514
## 43	Ellensburg School District	Washington 2015	34769
## 16	Cape Flattery School District	Washington 2015	8808
## 62	Highland School District	Washington 2015	14023
## 59	Granger School District	Washington 2015	17474
## 103	Mukilteo School District	Washington 2015	184170
## 13	Brewster School District	Washington 2015	11581
## 110	North Kitsap School District	Washington 2015	74997
## 45	Entiat School District	Washington 2015	6271
## 145	Raymond School District	Washington 2015	8245
## 4	Arlington School District	Washington 2015	60963
## 170	Spokane School District	Washington 2015	403857
## 169	South Whidbey School District	Washington 2015	17814
## 77	La Conner School District	Washington 2015	13340
## 90	Mary Walker School District	Washington 2015	6322
## 136	Port Townsend School District	Washington 2015	15156
## 42	Edmonds School District	Washington 2015	269240
## 174	Sunnyside School District	Washington 2015	77509
## 53	Franklin Pierce School District	Washington 2015	98705
## 85	Lynden School District	Washington 2015	28724
## 173	Sumner School District	Washington 2015	106380
## 74	Kittitas School District	Washington 2015	7951
## 10	Bethel School District	Washington 2015	228415
## 20	Central Kitsap School District	Washington 2015	140263
## 3	Anacortes School District	Washington 2015	33541
## 51	Fife School District	Washington 2015	41583
## 76	La Center School District	Washington 2015	16020
## 157	San Juan Island School District	Washington 2015	10389
## 133	Peninsula School District	Washington 2015	97503
## 35	Crescent School District	Washington 2015	3380
## 94	Meridian School District	Washington 2015	18976
## 164	Snohomish School District	Washington 2015	129135
## 52	Finley School District	Washington 2015	10780
## 196	Warden School District	Washington 2015	11704
## 80	Lakewood School District	Washington 2015	28273
## 70	Kelso School District	Washington 2015	53366
## 41	Eatonville School District	Washington 2015	21503
## 24	Cheney School District	Washington 2015	51936
## 125	Orcas Island School District	Washington 2015	10345
## 204	Winlock School District	Washington 2015	8093
## 108	North Beach School District	Washington 2015	9115
## 38	Deer Park School District	Washington 2015	27191
## 97	Montesano School District	Washington 2015	15636
## 172	Sultan School District	Washington 2015	21918
## 140	Puyallup School District	Washington 2015	252248
## 92	Medical Lake School District	Washington 2015	21235
## 127	Orting School District	Washington 2015	27091
## 203	White River School District	Washington 2015	45854
## 122	Olympia School District	Washington 2015	124664
## 69	Kalama School District	Washington 2015	8939
## 185	Toutle Lake School District	Washington 2015	6793
## 109	North Franklin School District	Washington 2015	24371

## 162	Shoreline School District	Washington	2015	127624
## 2	Adna School District	Washington	2015	6316
## 100	Mossyrock School District	Washington	2015	7066
## 104	Napavine School District	Washington	2015	8052
## 29	Colfax School District	Washington	2015	7489
## 165	Snoqualmie Valley School District	Washington	2015	76110
## 44	Elma School District	Washington	2015	17451
## 153	Riverview School District	Washington	2015	39050
## 21	Central Valley School District	Washington	2015	146436
## 115	Oak Harbor School District	Washington	2015	63483
## 64	Hockinson School District	Washington	2015	20855
## 191	Vashon Island School District	Washington	2015	22726
## 47	Ephrata School District	Washington	2015	25806
## 167	South Bend School District	Washington	2015	8481
## 132	Pe Ell School District	Washington	2015	4173
## 200	Wellpinit School District	Washington	2015	8603
## 177	Tahoma School District	Washington	2015	99295
## 126	Oroville School District	Washington	2015	7517
## 17	Cascade School District	Washington	2015	15997
## 150	Ridgefield School District	Washington	2015	26791
## 114	Northshore School District	Washington	2015	266155
## 79	Lake Washington School District	Washington	2015	347870
## 67	Issaquah School District	Washington	2015	246417
## 18	Cashmere School District	Washington	2015	17142
## 93	Mercer Island School District	Washington	2015	60785
## 182	Tonasket School District	Washington	2015	12408
## 89	Mary M Knight School District	Washington	2015	3246
## 210	Zillah School District	Washington	2015	14040
## 31	Colton School District	Washington	2015	5808
## 139	Pullman School District	Washington	2015	29734
## 48	Everett School District	Washington	2015	248748
## 194	Waitsburg School District	Washington	2015	4232
## 78	Lake Stevens School District	Washington	2015	90036
## 8	Bellevue School District	Washington	2015	307196
## 205	Wishkah Valley School District	Washington	2015	2241
## 6	Bainbridge Island School District	Washington	2015	50391
## 144	Rainier School District	Washington	2015	9614
## 148	Republic School District	Washington	2015	4368
## 36	Davenport School District	Washington	2015	7780
## 199	Waterville School District	Washington	2015	4288
## 15	Camas School District	Washington	2015	78015
## 95	Methow Valley School District	Washington	2015	7969
## 106	Nine Mile Falls School District	Washington	2015	16573
## 73	Kettle Falls School District	Washington	2015	9383
## 134	Pomeroy School District	Washington	2015	5057
## 184	Touchet School District	Washington	2015	4961
## 81	Liberty School District	Washington	2015	6222
## 37	Dayton School District	Washington	2015	6197
## 54	Freeman School District	Washington	2015	10831
## 88	Manson School District	Washington	2015	9465
## 120	Odessa School District	Washington	2015	3799
## 129	Palouse School District	Washington	2015	2736
## 131	Pateros School District	Washington	2015	6284
## 137	Prescott School District	Washington	2015	5016

## 146	Reardan-Edwall School District	Washington	2015	6955
## 155	Rosalia School District	Washington	2015	3886
## 159	Selkirk School District	Washington	2015	4750
## 192	Wahkiakum School District	Washington	2015	5888
## 11	Bickleton School District	Washington	2015	3407
## 30	College Place School District	Washington	2015	24958
## 40	Easton School District	Washington	2015	2666
## 55	Garfield School District	Washington	2015	2519
## 61	Harrington School District	Washington	2015	2485
## 66	Inchelium School District	Washington	2015	4321
## 68	Kahlotus School District	Washington	2015	1973
## 82	Lind School District	Washington	2015	4267
## 87	Mansfield School District	Washington	2015	2123
## 112	North River School District	Washington	2015	1694
## 113	Northport School District	Washington	2015	3411
## 116	Oakesdale School District	Washington	2015	2628
## 163	Skykomish School District	Washington	2015	2158
## 180	Thorp School District	Washington	2015	2499
## 186	Trout Lake School District	Washington	2015	3005
## 189	Valley School District	Washington	2015	10253
## 198	Washtucna School District	Washington	2015	2097
## 206	Wishram School District	Washington	2015	1898
##	State Revenue	Local Revenue	District Code	
## 166	4429	1063	13156	
## 176	2371	260	14077	
## 183	35179	2446	39202	
## 121	9160	2083	24105	
## 75	2245	162	20402	
## 27	20690	5895	02250	
## 101	7857	916	39209	
## 33	4703	1741	29011	
## 187	22232	17736	17406	
## 117	2629	410	14400	
## 178	2651	434	38265	
## 201	63995	19520	04246	
## 193	18237	2976	13073	
## 50	34794	18541	37502	
## 63	144694	79360	17401	
## 208	163171	25149	39007	
## 195	29194	2686	39207	
## 57	9170	1458	13301	
## 58	29943	3671	39200	
## 84	2621	1213	20406	
## 142	23046	2097	05402	
## 83	48576	23504	08122	
## 128	36654	5950	01147	
## 105	8429	2784	26056	
## 19	9950	2610	08401	
## 181	5917	1300	21237	
## 60	16617	9026	31332	
## 65	13780	5043	14028	
## 99	67763	19759	13161	
## 86	8365	555	39120	
## 143	21080	8698	13144	

## 119	5125	3605	14172
## 1	28758	9145	14005
## 91	88554	39642	31025
## 130	182516	38391	11001
## 7	97371	38527	06119
## 98	3120	1269	21214
## 111	16153	8080	23403
## 202	3776	2838	21303
## 22	28855	6790	21401
## 188	48414	28590	34033
## 190	172414	78524	06037
## 151	2768	1743	01160
## 179	8515	3387	34402
## 207	30099	8514	08404
## 107	12655	5116	37506
## 171	6565	2656	30303
## 154	18019	6281	34401
## 156	19780	2887	13160
## 5	127492	65340	17408
## 49	168792	89037	17210
## 12	15314	11008	37503
## 28	111752	30739	27400
## 23	23074	7486	21302
## 138	23489	4611	03116
## 9	79572	59434	37501
## 168	68533	26519	18402
## 14	6973	518	09075
## 118	7882	6131	25101
## 175	223785	154048	27010
## 147	109635	92672	17403
## 135	28289	10840	05121
## 34	6290	4915	15204
## 71	144979	38419	03017
## 32	14651	3283	33115
## 209	40955	16656	34002
## 197	22639	11506	06112
## 158	43294	8259	39119
## 123	38108	3250	24019
## 39	45347	16078	09206
## 149	103767	38583	03400
## 124	6091	1520	21300
## 152	12016	3795	32416
## 160	19701	7593	05323
## 96	50585	24522	31103
## 161	34342	13040	23309
## 102	14596	7626	37507
## 25	7021	1480	33036
## 72	193893	106928	17415
## 46	29386	16818	17216
## 56	6915	3715	20404
## 26	7939	4701	16049
## 141	4356	852	16048
## 43	21454	10931	19401
## 16	5146	895	05401

## 62	10039	2424	39203
## 59	13435	1125	39204
## 103	112858	60165	31006
## 13	7945	1356	24111
## 110	42129	28140	18400
## 45	4673	1194	04127
## 145	5704	1913	25116
## 4	38934	19327	31016
## 170	263848	105747	32081
## 169	10397	6579	15206
## 77	6432	3833	29311
## 90	4824	726	33207
## 136	8506	5323	16050
## 42	145808	111061	31015
## 174	60825	3261	39201
## 53	60933	28536	27402
## 85	20198	6676	37504
## 173	61838	39157	27320
## 74	5166	2314	19403
## 10	152462	62230	27403
## 20	82894	37549	18401
## 3	18256	13808	29103
## 51	24361	14648	27417
## 76	10918	4771	06101
## 157	5907	4001	28149
## 133	61804	31716	27401
## 35	2456	591	05313
## 94	12163	5791	37505
## 164	71637	52797	31201
## 52	7666	2128	03053
## 196	8077	2133	13146
## 80	16421	10714	31306
## 70	37707	11425	08458
## 41	13235	7205	27404
## 24	32349	15594	32360
## 125	6328	3571	28137
## 204	5712	1515	21232
## 108	5188	3320	14064
## 38	19671	5887	32414
## 97	9664	5050	14066
## 172	15346	5216	31311
## 140	159061	82867	27003
## 92	14481	3299	32326
## 127	17143	8845	27344
## 203	25835	17998	27416
## 122	74176	45223	34111
## 69	5891	2688	08402
## 185	4893	1616	08130
## 109	17647	3750	11051
## 162	67014	55418	17412
## 2	4670	1140	21226
## 100	4670	1790	21206
## 104	5850	1612	21014
## 29	4675	2419	38300

## 165	42096	31870	17410
## 44	12189	3868	14068
## 153	21607	16226	17407
## 21	97279	41439	32356
## 115	39113	15838	15201
## 64	12746	7442	06098
## 191	11302	9627	17402
## 47	18911	4679	13165
## 167	6120	1648	25118
## 132	3032	785	21301
## 200	4992	221	33049
## 177	59707	36095	17409
## 126	4562	2074	24410
## 17	9470	5582	04228
## 150	16768	9409	06122
## 114	141061	114501	17417
## 79	172776	161630	17414
## 67	120607	119613	17411
## 18	11410	4572	04222
## 93	28428	31158	17400
## 182	8996	2041	24404
## 89	2235	736	23311
## 210	10551	2228	39205
## 31	4745	963	38306
## 139	17007	11385	38267
## 48	145326	89368	31002
## 194	2930	1031	36401
## 78	61304	25199	31004
## 8	127047	169681	17405
## 205	504	1634	14117
## 6	25609	22458	18303
## 144	6251	2814	34307
## 148	3049	644	10309
## 36	5309	2026	22207
## 199	2731	1307	09209
## 15	45362	30658	06117
## 95	4816	2731	24350
## 106	11011	4852	32325
## 73	7133	1484	33212
## 134	2933	1807	12110
## 184	3366	1412	36300
## 81	3756	2110	32362
## 37	3908	1905	07002
## 54	6952	3535	32358
## 88	6398	2058	04019
## 120	2546	995	22105
## 129	1981	603	38301
## 131	4072	1736	24122
## 137	3495	1079	36402
## 146	4982	1518	22009
## 155	2441	1156	38320
## 159	2734	1641	26070
## 192	4038	1507	35200
## 11	1743	1603	20203

## 30	18192	5631	36250
## 40	1691	887	19028
## 55	2012	369	38302
## 61	1803	579	22204
## 66	2634	160	10070
## 68	1721	170	11056
## 82	2946	1070	01158
## 87	1828	175	09207
## 112	1554	89	25200
## 113	2593	501	33211
## 116	1910	627	38324
## 163	1501	579	17404
## 180	1645	741	19400
## 186	2283	622	20400
## 189	6634	3204	33070
## 198	1840	201	01109
## 206	1701	74	20094

##	Adjusted 5-Year Cohort Graduation Rate	Cohort dropout rate	School Year
## 166	38.88889	55.555556	2015
## 176	54.54545	36.363636	2015
## 183	55.16129	36.774194	2015
## 121	57.54717	32.075472	2015
## 75	64.28571	35.714286	2015
## 27	65.00000	28.750000	2015
## 101	67.56757	25.675676	2015
## 33	68.75000	31.250000	2015
## 187	68.84422	29.145729	2015
## 117	69.23077	23.076923	2015
## 178	70.00000	30.000000	2015
## 201	70.26087	25.739130	2015
## 193	70.86614	26.771654	2015
## 50	72.19101	23.595506	2015
## 63	72.29978	22.556943	2015
## 208	73.47866	24.523161	2015
## 195	73.68421	24.812030	2015
## 57	74.41860	20.930233	2015
## 58	75.00000	20.588235	2015
## 84	75.00000	18.750000	2015
## 142	75.00000	17.708333	2015
## 83	75.15030	18.837675	2015
## 128	75.41667	22.916667	2015
## 105	76.00000	23.000000	2015
## 19	76.31579	20.175439	2015
## 181	76.31579	21.052632	2015
## 60	76.92308	16.410256	2015
## 65	76.98413	22.222222	2015
## 99	77.04348	18.956522	2015
## 86	77.04918	19.672131	2015
## 143	77.24868	22.751323	2015
## 119	77.58621	20.689655	2015
## 1	77.68595	16.528926	2015
## 91	78.38150	17.456647	2015
## 130	78.43719	17.804154	2015
## 7	78.49246	16.984925	2015

## 98	78.57143	21.428571	2015
## 111	78.57143	20.918367	2015
## 202	78.57143	21.428571	2015
## 22	78.62903	18.951613	2015
## 188	79.06198	19.262982	2015
## 190	79.08654	16.766827	2015
## 151	79.31034	20.689655	2015
## 179	79.34783	20.652174	2015
## 207	79.67914	17.112299	2015
## 107	80.35714	16.964286	2015
## 171	80.45977	17.241379	2015
## 154	80.91603	12.977099	2015
## 156	81.13208	16.981132	2015
## 5	81.51042	15.711806	2015
## 49	81.63636	16.060606	2015
## 12	81.69935	16.339869	2015
## 28	81.92771	14.056225	2015
## 23	81.93833	15.418502	2015
## 138	82.05128	14.871795	2015
## 9	82.09607	15.502183	2015
## 168	82.14748	12.807245	2015
## 14	82.25806	16.129032	2015
## 118	82.35294	15.686275	2015
## 175	82.46753	15.367965	2015
## 147	82.54122	14.936954	2015
## 135	82.58065	15.483871	2015
## 34	82.85714	17.142857	2015
## 71	82.98246	14.649123	2015
## 32	83.05085	15.819209	2015
## 209	83.29356	14.319809	2015
## 197	83.33333	15.000000	2015
## 158	83.61345	13.025210	2015
## 123	83.65385	16.346154	2015
## 39	83.67347	14.795918	2015
## 149	83.75000	11.562500	2015
## 124	84.09091	11.363636	2015
## 152	84.09091	12.878788	2015
## 160	84.09091	14.545455	2015
## 96	84.09704	13.746631	2015
## 161	84.25414	13.812155	2015
## 102	84.56790	14.197531	2015
## 25	84.61538	14.102564	2015
## 72	84.71233	12.821918	2015
## 46	84.74576	14.124294	2015
## 56	84.84848	15.151515	2015
## 26	84.88372	15.116279	2015
## 141	85.00000	10.000000	2015
## 43	85.04274	14.102564	2015
## 16	85.29412	11.764706	2015
## 62	85.39326	14.606742	2015
## 59	85.57692	13.461538	2015
## 103	85.63485	10.750695	2015
## 13	85.71429	12.698413	2015
## 110	86.17886	10.772358	2015

## 45	86.20690	13.793103	2015
## 145	86.27451	11.764706	2015
## 4	86.29442	11.421320	2015
## 170	86.41783	11.767755	2015
## 169	86.52482	12.765957	2015
## 77	86.53846	9.615385	2015
## 90	86.53846	13.461538	2015
## 136	86.60714	13.392857	2015
## 42	86.66237	10.695876	2015
## 174	86.66667	11.904762	2015
## 53	86.81733	10.546139	2015
## 85	86.81818	8.636364	2015
## 173	86.90476	10.863095	2015
## 74	86.95652	13.043478	2015
## 10	87.01634	10.748065	2015
## 20	87.02929	10.146444	2015
## 3	87.05357	10.714286	2015
## 51	87.05882	11.372549	2015
## 76	87.12121	11.363636	2015
## 157	87.17949	8.974359	2015
## 133	87.29947	10.695187	2015
## 35	87.50000	12.500000	2015
## 94	87.61905	12.380952	2015
## 164	87.73585	9.080189	2015
## 52	87.80488	12.195122	2015
## 196	88.05970	10.447761	2015
## 80	88.39779	9.944751	2015
## 70	88.49315	10.684932	2015
## 41	88.57143	10.000000	2015
## 24	88.62069	9.655172	2015
## 125	88.88889	7.407407	2015
## 204	89.09091	9.090909	2015
## 108	89.18919	8.108108	2015
## 38	89.37198	10.628019	2015
## 97	89.41176	8.235294	2015
## 172	89.83051	8.474576	2015
## 140	89.91860	8.829054	2015
## 92	89.92806	7.913669	2015
## 127	89.94413	9.497207	2015
## 203	89.96656	8.361204	2015
## 122	89.97253	8.104396	2015
## 69	90.00000	8.750000	2015
## 185	90.56604	7.547170	2015
## 109	90.66667	9.333333	2015
## 162	90.90909	7.451565	2015
## 2	91.11111	8.888889	2015
## 100	91.17647	8.823529	2015
## 104	91.30435	4.347826	2015
## 29	91.48936	8.510638	2015
## 165	91.75532	6.648936	2015
## 44	91.80328	8.196721	2015
## 153	91.82692	6.730769	2015
## 21	91.83908	6.321839	2015
## 115	92.00000	5.230769	2015

## 64	92.12121	7.272727	2015
## 191	92.12598	7.086614	2015
## 47	92.13483	5.617978	2015
## 167	92.50000	5.000000	2015
## 132	92.59259	7.407407	2015
## 200	92.85714	7.142857	2015
## 177	92.94756	5.424955	2015
## 126	93.02326	4.651163	2015
## 17	93.26923	3.846154	2015
## 150	93.28859	5.369128	2015
## 114	93.30176	4.330176	2015
## 79	93.35022	5.256491	2015
## 67	93.36456	5.620609	2015
## 18	93.40659	5.494505	2015
## 93	93.43284	4.179104	2015
## 182	93.47826	6.521739	2015
## 89	93.75000	6.250000	2015
## 210	93.93939	4.040404	2015
## 31	94.11765	0.000000	2015
## 139	94.26752	3.821656	2015
## 48	94.46254	3.338762	2015
## 194	94.73684	0.000000	2015
## 78	94.75728	5.242718	2015
## 8	94.89933	4.295302	2015
## 205	95.23810	4.761905	2015
## 6	95.38905	4.034582	2015
## 144	95.45455	3.030303	2015
## 148	95.45455	0.000000	2015
## 36	95.55556	2.222222	2015
## 199	95.65217	4.347826	2015
## 15	95.80713	3.563941	2015
## 95	96.15385	3.846154	2015
## 106	96.22642	3.773585	2015
## 73	96.29630	3.703704	2015
## 134	96.55172	3.448276	2015
## 184	96.96970	3.030303	2015
## 81	97.14286	2.857143	2015
## 37	100.00000	0.000000	2015
## 54	100.00000	0.000000	2015
## 88	100.00000	0.000000	2015
## 120	100.00000	0.000000	2015
## 129	100.00000	0.000000	2015
## 131	100.00000	0.000000	2015
## 137	100.00000	0.000000	2015
## 146	100.00000	0.000000	2015
## 155	100.00000	0.000000	2015
## 159	100.00000	0.000000	2015
## 192	100.00000	0.000000	2015
## 11	NA	NA	2015
## 30	NA	NA	2015
## 40	NA	NA	2015
## 55	NA	NA	2015
## 61	NA	NA	2015
## 66	NA	NA	2015

## 68	NA	NA	2015
## 82	NA	NA	2015
## 87	NA	NA	2015
## 112	NA	NA	2015
## 113	NA	NA	2015
## 116	NA	NA	2015
## 163	NA	NA	2015
## 180	NA	NA	2015
## 186	NA	NA	2015
## 189	NA	NA	2015
## 198	NA	NA	2015
## 206	NA	NA	2015

##	State.y	K-12 Total	PK Total	Full K Total	Half K Total	Gr 1 Total
## 166	WA	440	6	26	0	34
## 176	WA	186	3	23	0	11
## 183	WA	4248	52	350	0	320
## 121	WA	1059	14	65	0	68
## 75	WA	80	0	0	2	8
## 27	WA	2639	38	186	0	200
## 101	WA	959	4	81	0	86
## 33	WA	530	3	41	0	28
## 187	WA	3059	0	275	1	241
## 117	WA	224	6	20	0	14
## 178	WA	191	2	8	0	12
## 201	WA	7899	88	593	15	623
## 193	WA	2308	22	197	0	234
## 50	WA	4888	64	345	7	334
## 63	WA	19136	239	1616	0	1721
## 208	WA	15818	285	1338	0	1329
## 195	WA	3326	34	259	1	290
## 57	WA	730	12	48	0	67
## 58	WA	3630	33	320	1	321
## 84	WA	221	3	21	0	17
## 142	WA	3068	15	95	5	79
## 83	WA	6595	124	521	2	550
## 128	WA	4049	48	349	1	397
## 105	WA	1063	17	78	0	61
## 19	WA	1245	10	99	0	114
## 181	WA	732	4	41	0	51
## 60	WA	2041	23	0	133	121
## 65	WA	1646	18	116	0	116
## 99	WA	8221	134	686	0	657
## 86	WA	938	6	89	0	82
## 143	WA	2874	42	249	0	261
## 119	WA	622	2	43	0	42
## 1	WA	3221	49	266	0	265
## 91	WA	11289	148	468	345	961
## 130	WA	16987	118	881	565	1485
## 7	WA	13465	87	124	664	947
## 98	WA	300	6	22	0	14
## 111	WA	2106	53	159	2	144
## 202	WA	415	3	24	0	22
## 22	WA	3628	77	322	2	283
## 188	WA	6153	73	187	198	379

## 190	WA	23294	186	1823	18	1889
## 151	WA	357	7	0	26	26
## 179	WA	1206	18	95	0	86
## 207	WA	2253	14	145	3	154
## 107	WA	1585	41	140	0	148
## 171	WA	941	21	68	0	73
## 154	WA	2217	33	170	1	163
## 156	WA	1660	19	158	0	166
## 5	WA	15222	226	1200	16	1202
## 49	WA	22211	331	1651	0	1799
## 12	WA	2157	49	0	155	160
## 28	WA	12346	337	910	383	1288
## 23	WA	3002	16	189	0	203
## 138	WA	2807	30	209	0	199
## 9	WA	11060	68	791	0	887
## 168	WA	9559	98	537	189	695
## 14	WA	828	14	75	0	87
## 118	WA	986	20	76	0	82
## 175	WA	29144	264	1799	657	2567
## 147	WA	15331	260	1286	48	1338
## 135	WA	3752	52	254	2	293
## 34	WA	909	16	0	49	60
## 71	WA	17187	187	162	1245	1372
## 32	WA	1779	35	118	1	132
## 209	WA	5570	68	416	2	437
## 197	WA	3148	21	222	0	231
## 158	WA	3511	32	261	4	264
## 123	WA	5325	46	151	209	390
## 39	WA	5772	64	417	1	487
## 149	WA	12471	161	70	836	940
## 124	WA	744	9	54	11	55
## 152	WA	1435	15	83	3	93
## 160	WA	2860	52	0	170	197
## 96	WA	7250	62	194	287	469
## 161	WA	4161	107	292	0	259
## 102	WA	1863	32	59	93	151
## 25	WA	856	9	47	0	41
## 72	WA	27439	264	2067	9	2111
## 46	WA	4055	40	4	295	297
## 56	WA	917	9	64	0	59
## 26	WA	1069	16	74	2	72
## 141	WA	332	0	0	10	23
## 43	WA	3102	56	248	6	259
## 16	WA	446	10	30	0	42
## 62	WA	1191	11	81	0	87
## 59	WA	1496	27	120	0	137
## 103	WA	15012	127	0	1078	1231
## 13	WA	980	24	98	0	89
## 110	WA	5997	117	248	180	432
## 45	WA	351	4	31	0	31
## 145	WA	639	6	27	0	48
## 4	WA	5479	56	71	285	368
## 170	WA	29851	464	2479	76	2544
## 169	WA	1463	10	1	77	71

## 77	WA	622	5	0	31	45
## 90	WA	501	3	33	5	31
## 136	WA	1223	17	56	26	88
## 42	WA	20570	340	1037	544	1634
## 174	WA	6615	50	533	21	550
## 53	WA	7500	84	625	2	615
## 85	WA	2886	54	0	221	231
## 173	WA	8914	79	319	323	662
## 74	WA	637	9	46	0	38
## 10	WA	18234	243	1314	85	1460
## 20	WA	10970	116	42	723	839
## 3	WA	2721	31	192	4	210
## 51	WA	3595	57	301	0	268
## 76	WA	1621	10	105	2	108
## 157	WA	795	6	0	48	43
## 133	WA	8852	116	0	533	513
## 35	WA	285	0	12	14	26
## 94	WA	1738	27	0	129	137
## 164	WA	10100	94	0	620	639
## 52	WA	906	9	68	0	62
## 196	WA	989	14	85	0	82
## 80	WA	2345	27	19	131	215
## 70	WA	4912	31	363	2	359
## 41	WA	1891	16	121	3	107
## 24	WA	4362	103	262	104	370
## 125	WA	885	7	0	69	71
## 204	WA	649	10	44	0	51
## 108	WA	667	8	50	0	57
## 38	WA	2403	17	127	21	171
## 97	WA	1281	24	23	55	90
## 172	WA	2021	23	50	96	153
## 140	WA	21339	310	1608	0	1554
## 92	WA	1876	35	67	88	151
## 127	WA	2402	34	192	1	191
## 203	WA	3603	38	237	83	259
## 122	WA	9601	156	416	251	670
## 69	WA	927	7	0	58	70
## 185	WA	611	9	40	0	46
## 109	WA	2082	34	174	0	148
## 162	WA	9213	118	654	40	734
## 2	WA	608	4	0	42	47
## 100	WA	532	2	41	0	48
## 104	WA	784	8	39	17	66
## 29	WA	591	5	0	39	39
## 165	WA	6571	114	263	271	530
## 44	WA	1469	32	104	0	93
## 153	WA	3238	44	44	166	226
## 21	WA	12810	101	545	347	981
## 115	WA	5558	120	155	321	495
## 64	WA	1896	12	0	126	129
## 191	WA	1562	10	0	85	90
## 47	WA	2400	18	174	2	185
## 167	WA	544	13	39	0	49
## 132	WA	259	0	21	0	19

## 200	WA	557	3	47	0	29
## 177	WA	7984	77	169	423	613
## 126	WA	560	11	47	0	42
## 17	WA	1295	10	0	90	102
## 150	WA	2312	18	19	160	185
## 114	WA	20653	228	0	1475	1662
## 79	WA	26934	236	0	2005	2289
## 67	WA	19184	238	915	474	1493
## 18	WA	1547	10	0	124	119
## 93	WA	4413	36	190	59	290
## 182	WA	1087	11	90	1	81
## 89	WA	172	2	12	0	13
## 210	WA	1332	9	97	0	95
## 31	WA	163	3	0	13	8
## 139	WA	2632	53	0	204	236
## 48	WA	19372	244	1176	379	1685
## 194	WA	295	2	18	0	17
## 78	WA	8354	76	219	434	673
## 8	WA	19362	118	93	1296	1368
## 205	WA	148	0	9	0	10
## 6	WA	3851	49	87	84	257
## 144	WA	823	9	61	3	55
## 148	WA	304	4	13	1	22
## 36	WA	585	5	47	1	47
## 199	WA	265	1	14	0	14
## 15	WA	6566	50	0	392	448
## 95	WA	630	8	0	46	45
## 106	WA	1468	20	0	78	83
## 73	WA	922	6	60	0	54
## 134	WA	314	3	23	0	23
## 184	WA	234	4	20	0	12
## 81	WA	412	5	32	0	29
## 37	WA	436	7	38	0	31
## 54	WA	913	7	0	56	55
## 88	WA	663	5	55	0	64
## 120	WA	220	3	20	0	13
## 129	WA	175	3	6	0	18
## 131	WA	295	0	17	0	24
## 137	WA	337	4	27	0	32
## 146	WA	589	7	40	0	40
## 155	WA	199	3	10	0	15
## 159	WA	242	5	15	1	21
## 192	WA	455	5	33	0	31
## 11	WA	88	1	0	7	7
## 30	WA	1101	8	113	0	106
## 40	WA	109	2	8	0	8
## 55	WA	102	0	0	8	10
## 61	WA	90	1	5	0	5
## 66	WA	226	6	15	0	19
## 68	WA	44	3	2	0	1
## 82	WA	176	3	15	0	14
## 87	WA	87	0	2	5	3
## 112	WA	52	0	0	5	0
## 113	WA	250	0	17	0	15

## 116	WA	93	0	0	6	4
## 163	WA	44	0	0	6	3
## 180	WA	81	0	9	0	12
## 186	WA	219	1	0	16	14
## 189	WA	689	5	21	35	54
## 198	WA	46	1	0	2	1
## 206	WA	85	1	7	0	6
##	Gr 2 Total	Gr 3 Total	Gr 4 Total	Gr 5 Total	Gr 6 Total	Gr 7 Total
## 166	28	33	30	33	29	33
## 176	12	16	11	16	15	11
## 183	309	323	298	294	317	305
## 121	92	68	84	83	80	99
## 75	6	8	5	6	0	10
## 27	192	211	187	186	180	203
## 101	83	83	85	85	69	69
## 33	42	42	28	39	52	37
## 187	243	232	237	219	237	244
## 117	17	17	24	17	12	12
## 178	9	16	17	19	21	12
## 201	558	612	575	564	554	587
## 193	213	216	216	176	173	139
## 50	342	362	330	362	371	359
## 63	1593	1496	1432	1389	1310	1368
## 208	1361	1250	1163	1178	1102	1127
## 195	273	303	274	258	281	260
## 57	63	56	48	55	51	53
## 58	302	326	265	284	276	277
## 84	16	16	19	17	14	11
## 142	96	88	99	80	83	87
## 83	519	519	487	492	471	491
## 128	355	352	334	307	301	295
## 105	75	82	65	84	92	81
## 19	74	108	102	79	95	94
## 181	39	49	53	45	48	46
## 60	142	130	120	158	142	136
## 65	129	114	125	113	118	140
## 99	645	630	669	592	610	622
## 86	78	84	62	75	62	71
## 143	222	235	184	221	193	201
## 119	48	49	48	41	53	51
## 1	264	257	202	236	240	217
## 91	886	848	827	817	801	825
## 130	1487	1416	1380	1319	1313	1210
## 7	943	956	946	1010	1030	1040
## 98	29	17	26	27	26	33
## 111	140	153	139	144	128	147
## 202	23	34	40	24	25	39
## 22	284	280	263	235	255	275
## 188	383	400	433	445	467	475
## 190	1965	1847	1775	1754	1689	1689
## 151	32	30	19	20	21	30
## 179	103	93	105	99	78	106
## 207	185	151	176	173	176	166
## 107	133	117	115	103	121	117

## 171	76	75	59	57	67	73
## 154	186	164	168	170	187	150
## 156	117	139	116	141	122	117
## 5	1181	1134	1157	1122	1058	1090
## 49	1675	1636	1578	1669	1684	1579
## 12	178	153	171	146	153	185
## 28	1227	1122	1040	941	902	830
## 23	187	183	201	213	205	224
## 138	224	188	200	203	215	222
## 9	767	816	837	774	816	785
## 168	711	700	719	748	726	726
## 14	74	64	68	60	52	60
## 118	84	78	72	74	84	83
## 175	2573	2445	2266	2223	1996	2085
## 147	1326	1251	1177	1104	1078	1059
## 135	292	284	257	287	261	293
## 34	76	59	73	72	66	81
## 71	1414	1380	1273	1278	1300	1256
## 32	132	106	127	127	132	123
## 209	422	387	409	400	432	407
## 197	229	233	266	219	241	249
## 158	268	247	247	289	237	281
## 123	351	416	407	450	421	565
## 39	446	449	414	425	442	424
## 149	960	953	856	965	991	930
## 124	55	62	61	60	45	45
## 152	108	112	90	106	110	130
## 160	195	194	195	223	207	209
## 96	503	479	493	471	480	485
## 161	267	307	274	277	259	251
## 102	142	132	156	142	140	115
## 25	55	53	54	54	53	64
## 72	2175	2055	1935	2102	2006	2091
## 46	286	288	283	301	288	292
## 56	66	64	69	70	67	68
## 26	70	77	68	84	89	75
## 141	46	26	27	32	25	27
## 43	243	224	222	236	227	224
## 16	33	34	26	32	40	27
## 62	88	91	92	103	77	85
## 59	117	111	122	120	117	95
## 103	1239	1200	1141	1227	1133	1145
## 13	82	89	62	73	65	80
## 110	423	450	430	438	452	450
## 45	30	22	25	19	26	32
## 145	33	41	37	47	73	64
## 4	424	397	392	424	411	440
## 170	2559	2394	2266	2192	2225	2227
## 169	97	100	107	106	102	115
## 77	49	44	44	50	51	40
## 90	42	32	32	39	34	49
## 136	75	90	110	80	89	76
## 42	1568	1486	1459	1493	1520	1468
## 174	592	520	542	522	483	474

## 53	609	601	538	546	540	538
## 85	211	264	206	209	217	194
## 173	638	647	602	613	624	642
## 74	42	49	43	59	58	63
## 10	1491	1414	1392	1352	1370	1330
## 20	788	805	800	847	841	848
## 3	218	196	209	185	218	222
## 51	300	273	259	275	289	272
## 76	108	104	111	127	128	118
## 157	50	58	65	56	51	66
## 133	567	619	644	631	650	684
## 35	27	20	27	25	17	24
## 94	157	134	133	144	117	152
## 164	683	618	749	695	792	744
## 52	62	56	68	71	60	79
## 196	78	86	59	69	65	64
## 80	183	184	168	178	174	182
## 70	339	380	379	346	387	372
## 41	137	122	145	139	144	144
## 24	353	336	345	331	320	320
## 125	76	74	94	73	93	71
## 204	38	59	53	47	45	47
## 108	54	48	46	62	39	45
## 38	196	179	204	191	184	200
## 97	115	76	103	106	108	113
## 172	154	137	149	126	155	158
## 140	1627	1537	1513	1564	1603	1605
## 92	173	136	151	131	133	138
## 127	183	193	166	173	174	184
## 203	245	247	242	265	243	268
## 122	702	681	699	697	682	656
## 69	68	69	82	77	65	73
## 185	38	45	45	43	52	46
## 109	165	152	177	162	160	150
## 162	752	686	661	746	672	692
## 2	34	42	35	42	51	47
## 100	43	39	41	35	27	39
## 104	60	72	56	57	65	52
## 29	38	44	53	32	47	40
## 165	557	517	509	541	514	483
## 44	90	99	97	75	115	113
## 153	234	261	268	235	264	237
## 21	977	975	981	970	1005	959
## 115	462	437	409	410	372	415
## 64	119	129	126	137	131	160
## 191	99	98	115	79	127	118
## 47	188	207	173	148	186	176
## 167	39	50	64	37	41	36
## 132	19	18	19	27	18	16
## 200	35	25	36	22	26	25
## 177	645	600	625	579	642	622
## 126	55	36	40	46	41	34
## 17	96	85	74	91	101	101
## 150	182	186	169	184	182	176

## 114	1622	1667	1603	1551	1577	1502
## 79	2284	2266	2256	2252	2123	2018
## 67	1552	1480	1545	1554	1513	1497
## 18	119	119	105	105	129	118
## 93	318	320	364	360	361	360
## 182	83	100	93	84	78	85
## 89	10	7	14	18	15	12
## 210	82	103	91	108	119	96
## 31	9	11	8	13	16	13
## 139	241	199	202	203	206	206
## 48	1619	1533	1506	1552	1402	1370
## 194	17	26	28	17	14	30
## 78	659	604	707	630	652	615
## 8	1534	1458	1415	1454	1488	1498
## 205	9	8	14	13	19	16
## 6	247	260	288	313	312	316
## 144	64	57	57	67	56	59
## 148	27	24	24	29	19	23
## 36	43	32	45	45	43	59
## 199	19	12	14	15	20	17
## 15	437	527	470	504	570	536
## 95	55	40	53	58	46	37
## 106	92	88	92	112	133	107
## 73	55	50	44	60	48	59
## 134	22	26	21	18	20	27
## 184	14	20	16	17	15	14
## 81	30	39	27	36	28	35
## 37	35	36	32	34	30	20
## 54	64	55	55	61	77	88
## 88	52	51	56	45	56	47
## 120	18	18	22	15	18	22
## 129	13	11	17	16	12	10
## 131	21	23	19	24	23	19
## 137	29	38	23	19	23	25
## 146	46	38	40	48	36	54
## 155	10	12	21	17	19	11
## 159	15	12	23	11	13	24
## 192	27	36	40	32	38	30
## 11	7	4	6	4	5	6
## 30	94	102	84	103	92	100
## 40	11	11	2	14	10	11
## 55	9	8	7	8	8	9
## 61	4	4	12	5	12	0
## 66	26	25	20	14	18	15
## 68	4	7	5	4	3	5
## 82	18	11	9	15	13	18
## 87	8	9	9	6	6	8
## 112	3	4	1	3	2	6
## 113	29	15	19	17	20	16
## 116	7	6	7	8	5	12
## 163	4	3	1	3	4	2
## 180	9	4	7	12	9	6
## 186	24	15	16	21	28	15
## 189	83	71	75	70	75	81

## 198	2	1	3	6	7	5
## 206	5	5	6	7	8	5
##	Gr 8 Total	Gr 9 Total	Gr 10 Total	Gr 11 Total	Gr 12 Total	
## 166	32	39	37	37	49	
## 176	17	12	16	11	15	
## 183	286	353	335	336	422	
## 121	80	71	91	89	89	
## 75	8	4	6	8	9	
## 27	168	220	224	227	255	
## 101	66	70	51	50	81	
## 33	43	50	49	49	30	
## 187	208	239	226	208	249	
## 117	13	17	18	19	24	
## 178	12	12	22	13	18	
## 201	652	642	572	650	702	
## 193	156	168	138	158	124	
## 50	384	449	414	433	396	
## 63	1272	1653	1491	1359	1436	
## 208	1156	1183	1172	1102	1357	
## 195	254	243	185	218	227	
## 57	59	63	50	50	67	
## 58	259	255	241	227	276	
## 84	19	26	21	12	12	
## 142	83	250	460	581	982	
## 83	484	529	501	494	535	
## 128	280	258	288	258	274	
## 105	71	93	101	85	95	
## 19	94	95	93	92	106	
## 181	66	65	68	82	79	
## 60	153	146	219	177	264	
## 65	136	161	138	124	116	
## 99	598	627	626	588	671	
## 86	67	73	59	62	74	
## 143	213	233	195	216	251	
## 119	57	37	41	59	53	
## 1	235	248	266	227	298	
## 91	867	863	926	867	988	
## 130	1294	1182	1140	1176	1139	
## 7	1088	1246	1188	1137	1146	
## 98	20	21	20	26	19	
## 111	156	177	186	194	237	
## 202	42	39	44	34	25	
## 22	265	316	284	265	299	
## 188	525	532	535	550	644	
## 190	1762	1795	1788	1643	1857	
## 151	19	38	33	31	32	
## 179	84	88	99	87	83	
## 207	172	169	183	177	223	
## 107	102	132	109	122	126	
## 171	74	80	88	70	81	
## 154	191	174	168	153	172	
## 156	133	125	119	119	88	
## 5	1085	1278	1168	1205	1326	
## 49	1657	1711	1883	1793	1896	

## 12	158	168	184	167	179
## 28	823	774	777	681	648
## 23	217	233	254	304	389
## 138	211	223	230	251	232
## 9	832	889	939	919	1008
## 168	775	716	701	741	875
## 14	62	62	47	61	56
## 118	68	73	62	81	69
## 175	1998	2124	2080	2001	2330
## 147	1115	1117	1132	1066	1234
## 135	283	277	300	314	355
## 34	73	77	75	73	75
## 71	1230	1370	1333	1235	1339
## 32	136	144	153	144	204
## 209	436	408	468	466	480
## 197	249	274	238	239	258
## 158	288	290	301	260	274
## 123	689	396	351	305	224
## 39	452	430	447	475	463
## 149	926	1071	981	975	1017
## 124	55	64	56	66	55
## 152	136	128	110	107	119
## 160	227	231	275	265	272
## 96	502	630	587	559	1111
## 161	284	432	418	408	433
## 102	161	130	152	137	153
## 25	74	85	84	88	104
## 72	2080	2489	2238	2091	1990
## 46	324	342	320	360	375
## 56	72	89	76	75	78
## 26	92	92	92	97	85
## 141	25	21	23	27	20
## 43	233	258	235	237	250
## 16	31	42	38	37	34
## 62	106	67	87	108	119
## 59	126	122	107	101	101
## 103	1107	1119	1143	1123	1126
## 13	73	73	64	63	69
## 110	503	476	484	493	538
## 45	24	24	29	22	36
## 145	86	40	43	57	43
## 4	437	436	443	475	476
## 170	2200	2254	2169	2107	2159
## 169	115	129	129	154	160
## 77	41	62	69	58	38
## 90	44	40	42	44	34
## 136	82	98	121	107	125
## 42	1473	1625	1578	1686	1999
## 174	519	491	447	477	444
## 53	544	578	584	576	604
## 85	238	219	213	222	241
## 173	677	876	867	741	683
## 74	50	60	58	31	40
## 10	1422	1454	1308	1364	1478

## 20	839	876	893	884	945
## 3	202	189	214	235	227
## 51	270	310	247	271	260
## 76	146	159	134	140	131
## 157	66	65	70	76	81
## 133	713	769	792	879	858
## 35	16	23	22	14	18
## 94	134	136	110	125	130
## 164	775	943	938	910	994
## 52	69	88	81	72	70
## 196	78	86	86	86	65
## 80	175	168	196	184	188
## 70	388	413	376	383	425
## 41	158	173	171	179	148
## 24	328	346	309	313	325
## 125	66	52	55	57	34
## 204	52	50	59	55	49
## 108	47	44	57	60	58
## 38	189	177	180	205	179
## 97	72	132	110	83	95
## 172	152	182	172	140	197
## 140	1724	1728	1735	1771	1770
## 92	140	120	146	149	153
## 127	205	187	187	182	184
## 203	289	297	294	296	338
## 122	716	873	830	841	887
## 69	71	81	70	74	69
## 185	41	48	61	54	52
## 109	154	156	172	155	157
## 162	703	813	735	726	599
## 2	56	48	61	60	43
## 100	42	32	45	48	52
## 104	66	66	55	48	65
## 29	41	70	41	56	51
## 165	508	489	469	459	461
## 44	99	115	143	146	180
## 153	264	274	250	246	269
## 21	1048	1042	985	969	1026
## 115	401	413	397	408	463
## 64	140	189	147	188	175
## 191	143	164	158	145	141
## 47	188	192	195	197	189
## 167	43	41	32	39	34
## 132	22	22	19	19	20
## 200	34	45	44	62	127
## 177	618	626	581	606	635
## 126	40	54	52	35	38
## 17	103	113	100	126	113
## 150	190	167	189	166	157
## 114	1571	1510	1616	1551	1746
## 79	2060	1935	1852	1827	1767
## 67	1442	1532	1395	1447	1345
## 18	124	122	131	114	118
## 93	374	364	334	377	342

## 182	81	78	72	68	93
## 89	16	13	13	10	19
## 210	101	116	111	107	106
## 31	18	15	13	9	17
## 139	203	204	181	175	172
## 48	1448	1444	1408	1408	1442
## 194	23	27	32	22	24
## 78	708	619	611	614	609
## 8	1457	1589	1545	1585	1582
## 205	6	8	13	9	14
## 6	280	367	347	345	348
## 144	73	71	66	75	59
## 148	20	29	24	25	24
## 36	47	53	45	39	39
## 199	27	32	21	34	26
## 15	541	567	553	513	508
## 95	54	47	48	45	56
## 106	128	143	134	139	139
## 73	54	113	118	82	125
## 134	33	22	25	24	30
## 184	17	27	22	24	16
## 81	35	34	31	27	29
## 37	37	29	45	28	41
## 54	75	84	86	76	81
## 88	44	41	62	40	50
## 120	15	13	18	13	15
## 129	14	20	7	14	17
## 131	24	20	29	21	31
## 137	23	18	26	27	27
## 146	35	55	49	48	60
## 155	16	21	8	20	19
## 159	27	22	20	26	12
## 192	34	33	31	35	55
## 11	5	12	11	8	6
## 30	82	118	18	39	50
## 40	8	12	8	3	3
## 55	9	6	9	1	10
## 61	8	10	8	10	7
## 66	18	17	13	16	10
## 68	4	3	1	2	3
## 82	18	13	10	16	6
## 87	9	6	6	4	6
## 112	3	7	3	10	5
## 113	20	22	20	17	23
## 116	13	6	8	8	3
## 163	3	5	4	4	2
## 180	2	1	2	4	4
## 186	14	15	13	15	13
## 189	95	9	10	5	5
## 198	4	2	5	3	5
## 206	9	8	8	4	7

I am curious what the order of School Districts with highest revenue rates looks like.

```
FullData[order(-FullData$`Total Revenue`),]
```

##		District Name	State.x	Year	Total Revenue
## 175	Tacoma	School District	Washington	2015	415924
## 170	Spokane	School District	Washington	2015	403857
## 79	Lake Washington	School District	Washington	2015	347870
## 72	Kent	School District	Washington	2015	324455
## 8	Bellevue	School District	Washington	2015	307196
## 49	Federal Way	School District	Washington	2015	278629
## 42	Edmonds	School District	Washington	2015	269240
## 190	Vancouver	School District	Washington	2015	269135
## 114	Northshore	School District	Washington	2015	266155
## 140	Puyallup	School District	Washington	2015	252248
## 48	Everett	School District	Washington	2015	248748
## 63	Highline	School District	Washington	2015	248401
## 67	Issaquah	School District	Washington	2015	246417
## 130	Pasco	School District	Washington	2015	236614
## 10	Bethel	School District	Washington	2015	228415
## 147	Renton	School District	Washington	2015	218285
## 208	Yakima	School District	Washington	2015	213556
## 5	Auburn	School District	Washington	2015	207809
## 71	Kennewick	School District	Washington	2015	197862
## 28	Clover Park	School District	Washington	2015	194044
## 103	Mukilteo	School District	Washington	2015	184170
## 149	Richland	School District	Washington	2015	151245
## 9	Bellingham	School District	Washington	2015	146654
## 21	Central Valley	School District	Washington	2015	146436
## 7	Battle Ground	School District	Washington	2015	142945
## 20	Central Kitsap	School District	Washington	2015	140263
## 91	Marysville	School District	Washington	2015	137969
## 164	Snohomish	School District	Washington	2015	129135
## 162	Shoreline	School District	Washington	2015	127624
## 122	Olympia	School District	Washington	2015	124664
## 173	Sumner	School District	Washington	2015	106380
## 168	South Kitsap	School District	Washington	2015	101567
## 177	Tahoma	School District	Washington	2015	99295
## 53	Franklin Pierce	School District	Washington	2015	98705
## 133	Peninsula	School District	Washington	2015	97503
## 99	Moses Lake	School District	Washington	2015	94144
## 201	Wenatchee	School District	Washington	2015	92265
## 78	Lake Stevens	School District	Washington	2015	90036
## 188	Tumwater	School District	Washington	2015	80477
## 83	Longview	School District	Washington	2015	78721
## 96	Monroe	School District	Washington	2015	78025
## 15	Camas	School District	Washington	2015	78015
## 174	Sunnyside	School District	Washington	2015	77509
## 165	Snoqualmie Valley	School District	Washington	2015	76110
## 110	North Kitsap	School District	Washington	2015	74997
## 39	Eastmont	School District	Washington	2015	67670
## 115	Oak Harbor	School District	Washington	2015	63483
## 209	Yelm	School District	Washington	2015	61637
## 4	Arlington	School District	Washington	2015	60963
## 93	Mercer Island	School District	Washington	2015	60785
## 50	Ferndale	School District	Washington	2015	57235

## 158	Selah School District	Washington	2015	54181
## 70	Kelso School District	Washington	2015	53366
## 24	Cheney School District	Washington	2015	51936
## 161	Shelton School District	Washington	2015	51449
## 6	Bainbridge Island School District	Washington	2015	50391
## 46	Enumclaw School District	Washington	2015	48679
## 128	Othello School District	Washington	2015	47232
## 203	White River School District	Washington	2015	45854
## 187	Tukwila School District	Washington	2015	45517
## 183	Toppenish School District	Washington	2015	45050
## 123	Omak School District	Washington	2015	44368
## 135	Port Angeles School District	Washington	2015	42680
## 1	Aberdeen School District	Washington	2015	42595
## 51	Fife School District	Washington	2015	41583
## 207	Woodland School District	Washington	2015	40236
## 195	Wapato School District	Washington	2015	40180
## 22	Centralia School District	Washington	2015	39625
## 153	Riverview School District	Washington	2015	39050
## 58	Grandview School District	Washington	2015	38912
## 197	Washougal School District	Washington	2015	36063
## 43	Ellensburg School District	Washington	2015	34769
## 3	Anacortes School District	Washington	2015	33541
## 23	Chehalis School District	Washington	2015	33044
## 143	Quincy School District	Washington	2015	32975
## 138	Prosser School District	Washington	2015	31140
## 139	Pullman School District	Washington	2015	29734
## 160	Sequim School District	Washington	2015	29253
## 27	Clarkston School District	Washington	2015	29235
## 85	Lynden School District	Washington	2015	28724
## 80	Lakewood School District	Washington	2015	28273
## 12	Blaine School District	Washington	2015	27894
## 38	Deer Park School District	Washington	2015	27191
## 127	Orting School District	Washington	2015	27091
## 60	Granite Falls School District	Washington	2015	26846
## 150	Ridgefield School District	Washington	2015	26791
## 142	Quillayute Valley School District	Washington	2015	26614
## 154	Rochester School District	Washington	2015	26046
## 111	North Mason School District	Washington	2015	25988
## 47	Ephrata School District	Washington	2015	25806
## 193	Wahluke School District	Washington	2015	25240
## 30	College Place School District	Washington	2015	24958
## 156	Royal School District	Washington	2015	24706
## 109	North Franklin School District	Washington	2015	24371
## 102	Mount Baker School District	Washington	2015	24235
## 191	Vashon Island School District	Washington	2015	22726
## 172	Sultan School District	Washington	2015	21918
## 41	Eatonville School District	Washington	2015	21503
## 92	Medical Lake School District	Washington	2015	21235
## 65	Hoquiam School District	Washington	2015	21174
## 64	Hockinson School District	Washington	2015	20855
## 32	Colville School District	Washington	2015	19649
## 107	Nooksack Valley School District	Washington	2015	19280
## 94	Meridian School District	Washington	2015	18976
## 169	South Whidbey School District	Washington	2015	17814

## 59	Granger School District	Washington	2015	17474
## 44	Elma School District	Washington	2015	17451
## 152	Riverside School District	Washington	2015	17210
## 18	Cashmere School District	Washington	2015	17142
## 106	Nine Mile Falls School District	Washington	2015	16573
## 76	La Center School District	Washington	2015	16020
## 17	Cascade School District	Washington	2015	15997
## 97	Montesano School District	Washington	2015	15636
## 136	Port Townsend School District	Washington	2015	15156
## 118	Ocean Beach School District	Washington	2015	15007
## 210	Zillah School District	Washington	2015	14040
## 62	Highland School District	Washington	2015	14023
## 101	Mount Adams School District	Washington	2015	13810
## 19	Castle Rock School District	Washington	2015	13683
## 26	Chimacum School District	Washington	2015	13555
## 77	La Conner School District	Washington	2015	13340
## 105	Newport School District	Washington	2015	13213
## 57	Grand Coulee Dam School District	Washington	2015	12915
## 179	Tenino School District	Washington	2015	12756
## 121	Okanogan School District	Washington	2015	12532
## 182	Tonasket School District	Washington	2015	12408
## 34	Coupeville School District	Washington	2015	11764
## 196	Warden School District	Washington	2015	11704
## 13	Brewster School District	Washington	2015	11581
## 56	Goldendale School District	Washington	2015	11581
## 171	Stevenson-Carson School District	Washington	2015	11197
## 54	Freeman School District	Washington	2015	10831
## 52	Finley School District	Washington	2015	10780
## 86	Mabton School District	Washington	2015	10591
## 157	San Juan Island School District	Washington	2015	10389
## 125	Orcas Island School District	Washington	2015	10345
## 189	Valley School District	Washington	2015	10253
## 144	Rainier School District	Washington	2015	9614
## 119	Ocosta School District	Washington	2015	9613
## 25	Chewelah School District	Washington	2015	9527
## 88	Manson School District	Washington	2015	9465
## 73	Kettle Falls School District	Washington	2015	9383
## 108	North Beach School District	Washington	2015	9115
## 14	Bridgeport School District	Washington	2015	8943
## 69	Kalama School District	Washington	2015	8939
## 16	Cape Flattery School District	Washington	2015	8808
## 200	Wellpinit School District	Washington	2015	8603
## 124	Onalaska School District	Washington	2015	8519
## 167	South Bend School District	Washington	2015	8481
## 145	Raymond School District	Washington	2015	8245
## 204	Winlock School District	Washington	2015	8093
## 104	Napavine School District	Washington	2015	8052
## 95	Methow Valley School District	Washington	2015	7969
## 74	Kittitas School District	Washington	2015	7951
## 181	Toledo School District	Washington	2015	7878
## 36	Davenport School District	Washington	2015	7780
## 126	Oroville School District	Washington	2015	7517
## 29	Colfax School District	Washington	2015	7489
## 33	Concrete School District	Washington	2015	7179

## 202	White Pass School District	Washington	2015	7167
## 100	Mossyrock School District	Washington	2015	7066
## 146	Reardan-Edwall School District	Washington	2015	6955
## 185	Toutle Lake School District	Washington	2015	6793
## 166	Soap Lake School District	Washington	2015	6389
## 90	Mary Walker School District	Washington	2015	6322
## 2	Adna School District	Washington	2015	6316
## 131	Pateros School District	Washington	2015	6284
## 45	Entiat School District	Washington	2015	6271
## 81	Liberty School District	Washington	2015	6222
## 37	Dayton School District	Washington	2015	6197
## 192	Wahkiakum School District	Washington	2015	5888
## 31	Colton School District	Washington	2015	5808
## 141	Quilcene School District	Washington	2015	5514
## 134	Pomeroy School District	Washington	2015	5057
## 137	Prescott School District	Washington	2015	5016
## 184	Touchet School District	Washington	2015	4961
## 98	Morton School District	Washington	2015	4898
## 151	Ritzville School District	Washington	2015	4769
## 159	Selkirk School District	Washington	2015	4750
## 176	Taholah School District	Washington	2015	4624
## 148	Republic School District	Washington	2015	4368
## 84	Lyle School District	Washington	2015	4350
## 66	Inchelium School District	Washington	2015	4321
## 199	Waterville School District	Washington	2015	4288
## 82	Lind School District	Washington	2015	4267
## 194	Waitsburg School District	Washington	2015	4232
## 132	Pe Ell School District	Washington	2015	4173
## 117	Oakville School District	Washington	2015	3950
## 155	Rosalia School District	Washington	2015	3886
## 120	Odessa School District	Washington	2015	3799
## 113	Northport School District	Washington	2015	3411
## 11	Bickleton School District	Washington	2015	3407
## 35	Crescent School District	Washington	2015	3380
## 89	Mary M Knight School District	Washington	2015	3246
## 178	Tekoa School District	Washington	2015	3245
## 75	Klickitat School District	Washington	2015	3086
## 186	Trout Lake School District	Washington	2015	3005
## 129	Palouse School District	Washington	2015	2736
## 40	Easton School District	Washington	2015	2666
## 116	Oakesdale School District	Washington	2015	2628
## 55	Garfield School District	Washington	2015	2519
## 180	Thorp School District	Washington	2015	2499
## 61	Harrington School District	Washington	2015	2485
## 205	Wishkah Valley School District	Washington	2015	2241
## 163	Skykomish School District	Washington	2015	2158
## 87	Mansfield School District	Washington	2015	2123
## 198	Washtucna School District	Washington	2015	2097
## 68	Kahlotus School District	Washington	2015	1973
## 206	Wishram School District	Washington	2015	1898
## 112	North River School District	Washington	2015	1694
##	State Revenue Local Revenue District Code			
## 175	223785	154048	27010	
## 170	263848	105747	32081	

## 79	172776	161630	17414
## 72	193893	106928	17415
## 8	127047	169681	17405
## 49	168792	89037	17210
## 42	145808	111061	31015
## 190	172414	78524	06037
## 114	141061	114501	17417
## 140	159061	82867	27003
## 48	145326	89368	31002
## 63	144694	79360	17401
## 67	120607	119613	17411
## 130	182516	38391	11001
## 10	152462	62230	27403
## 147	109635	92672	17403
## 208	163171	25149	39007
## 5	127492	65340	17408
## 71	144979	38419	03017
## 28	111752	30739	27400
## 103	112858	60165	31006
## 149	103767	38583	03400
## 9	79572	59434	37501
## 21	97279	41439	32356
## 7	97371	38527	06119
## 20	82894	37549	18401
## 91	88554	39642	31025
## 164	71637	52797	31201
## 162	67014	55418	17412
## 122	74176	45223	34111
## 173	61838	39157	27320
## 168	68533	26519	18402
## 177	59707	36095	17409
## 53	60933	28536	27402
## 133	61804	31716	27401
## 99	67763	19759	13161
## 201	63995	19520	04246
## 78	61304	25199	31004
## 188	48414	28590	34033
## 83	48576	23504	08122
## 96	50585	24522	31103
## 15	45362	30658	06117
## 174	60825	3261	39201
## 165	42096	31870	17410
## 110	42129	28140	18400
## 39	45347	16078	09206
## 115	39113	15838	15201
## 209	40955	16656	34002
## 4	38934	19327	31016
## 93	28428	31158	17400
## 50	34794	18541	37502
## 158	43294	8259	39119
## 70	37707	11425	08458
## 24	32349	15594	32360
## 161	34342	13040	23309
## 6	25609	22458	18303

## 46	29386	16818	17216
## 128	36654	5950	01147
## 203	25835	17998	27416
## 187	22232	17736	17406
## 183	35179	2446	39202
## 123	38108	3250	24019
## 135	28289	10840	05121
## 1	28758	9145	14005
## 51	24361	14648	27417
## 207	30099	8514	08404
## 195	29194	2686	39207
## 22	28855	6790	21401
## 153	21607	16226	17407
## 58	29943	3671	39200
## 197	22639	11506	06112
## 43	21454	10931	19401
## 3	18256	13808	29103
## 23	23074	7486	21302
## 143	21080	8698	13144
## 138	23489	4611	03116
## 139	17007	11385	38267
## 160	19701	7593	05323
## 27	20690	5895	02250
## 85	20198	6676	37504
## 80	16421	10714	31306
## 12	15314	11008	37503
## 38	19671	5887	32414
## 127	17143	8845	27344
## 60	16617	9026	31332
## 150	16768	9409	06122
## 142	23046	2097	05402
## 154	18019	6281	34401
## 111	16153	8080	23403
## 47	18911	4679	13165
## 193	18237	2976	13073
## 30	18192	5631	36250
## 156	19780	2887	13160
## 109	17647	3750	11051
## 102	14596	7626	37507
## 191	11302	9627	17402
## 172	15346	5216	31311
## 41	13235	7205	27404
## 92	14481	3299	32326
## 65	13780	5043	14028
## 64	12746	7442	06098
## 32	14651	3283	33115
## 107	12655	5116	37506
## 94	12163	5791	37505
## 169	10397	6579	15206
## 59	13435	1125	39204
## 44	12189	3868	14068
## 152	12016	3795	32416
## 18	11410	4572	04222
## 106	11011	4852	32325

## 76	10918	4771	06101
## 17	9470	5582	04228
## 97	9664	5050	14066
## 136	8506	5323	16050
## 118	7882	6131	25101
## 210	10551	2228	39205
## 62	10039	2424	39203
## 101	7857	916	39209
## 19	9950	2610	08401
## 26	7939	4701	16049
## 77	6432	3833	29311
## 105	8429	2784	26056
## 57	9170	1458	13301
## 179	8515	3387	34402
## 121	9160	2083	24105
## 182	8996	2041	24404
## 34	6290	4915	15204
## 196	8077	2133	13146
## 13	7945	1356	24111
## 56	6915	3715	20404
## 171	6565	2656	30303
## 54	6952	3535	32358
## 52	7666	2128	03053
## 86	8365	555	39120
## 157	5907	4001	28149
## 125	6328	3571	28137
## 189	6634	3204	33070
## 144	6251	2814	34307
## 119	5125	3605	14172
## 25	7021	1480	33036
## 88	6398	2058	04019
## 73	7133	1484	33212
## 108	5188	3320	14064
## 14	6973	518	09075
## 69	5891	2688	08402
## 16	5146	895	05401
## 200	4992	221	33049
## 124	6091	1520	21300
## 167	6120	1648	25118
## 145	5704	1913	25116
## 204	5712	1515	21232
## 104	5850	1612	21014
## 95	4816	2731	24350
## 74	5166	2314	19403
## 181	5917	1300	21237
## 36	5309	2026	22207
## 126	4562	2074	24410
## 29	4675	2419	38300
## 33	4703	1741	29011
## 202	3776	2838	21303
## 100	4670	1790	21206
## 146	4982	1518	22009
## 185	4893	1616	08130
## 166	4429	1063	13156

## 90	4824	726	33207
## 2	4670	1140	21226
## 131	4072	1736	24122
## 45	4673	1194	04127
## 81	3756	2110	32362
## 37	3908	1905	07002
## 192	4038	1507	35200
## 31	4745	963	38306
## 141	4356	852	16048
## 134	2933	1807	12110
## 137	3495	1079	36402
## 184	3366	1412	36300
## 98	3120	1269	21214
## 151	2768	1743	01160
## 159	2734	1641	26070
## 176	2371	260	14077
## 148	3049	644	10309
## 84	2621	1213	20406
## 66	2634	160	10070
## 199	2731	1307	09209
## 82	2946	1070	01158
## 194	2930	1031	36401
## 132	3032	785	21301
## 117	2629	410	14400
## 155	2441	1156	38320
## 120	2546	995	22105
## 113	2593	501	33211
## 11	1743	1603	20203
## 35	2456	591	05313
## 89	2235	736	23311
## 178	2651	434	38265
## 75	2245	162	20402
## 186	2283	622	20400
## 129	1981	603	38301
## 40	1691	887	19028
## 116	1910	627	38324
## 55	2012	369	38302
## 180	1645	741	19400
## 61	1803	579	22204
## 205	504	1634	14117
## 163	1501	579	17404
## 87	1828	175	09207
## 198	1840	201	01109
## 68	1721	170	11056
## 206	1701	74	20094
## 112	1554	89	25200
##	Adjusted 5-Year Cohort Graduation Rate	Cohort dropout rate	School Year
## 175		82.46753	15.367965 2015
## 170		86.41783	11.767755 2015
## 79		93.35022	5.256491 2015
## 72		84.71233	12.821918 2015
## 8		94.89933	4.295302 2015
## 49		81.63636	16.060606 2015
## 42		86.66237	10.695876 2015

## 190	79.08654	16.766827	2015
## 114	93.30176	4.330176	2015
## 140	89.91860	8.829054	2015
## 48	94.46254	3.338762	2015
## 63	72.29978	22.556943	2015
## 67	93.36456	5.620609	2015
## 130	78.43719	17.804154	2015
## 10	87.01634	10.748065	2015
## 147	82.54122	14.936954	2015
## 208	73.47866	24.523161	2015
## 5	81.51042	15.711806	2015
## 71	82.98246	14.649123	2015
## 28	81.92771	14.056225	2015
## 103	85.63485	10.750695	2015
## 149	83.75000	11.562500	2015
## 9	82.09607	15.502183	2015
## 21	91.83908	6.321839	2015
## 7	78.49246	16.984925	2015
## 20	87.02929	10.146444	2015
## 91	78.38150	17.456647	2015
## 164	87.73585	9.080189	2015
## 162	90.90909	7.451565	2015
## 122	89.97253	8.104396	2015
## 173	86.90476	10.863095	2015
## 168	82.14748	12.807245	2015
## 177	92.94756	5.424955	2015
## 53	86.81733	10.546139	2015
## 133	87.29947	10.695187	2015
## 99	77.04348	18.956522	2015
## 201	70.26087	25.739130	2015
## 78	94.75728	5.242718	2015
## 188	79.06198	19.262982	2015
## 83	75.15030	18.837675	2015
## 96	84.09704	13.746631	2015
## 15	95.80713	3.563941	2015
## 174	86.66667	11.904762	2015
## 165	91.75532	6.648936	2015
## 110	86.17886	10.772358	2015
## 39	83.67347	14.795918	2015
## 115	92.00000	5.230769	2015
## 209	83.29356	14.319809	2015
## 4	86.29442	11.421320	2015
## 93	93.43284	4.179104	2015
## 50	72.19101	23.595506	2015
## 158	83.61345	13.025210	2015
## 70	88.49315	10.684932	2015
## 24	88.62069	9.655172	2015
## 161	84.25414	13.812155	2015
## 6	95.38905	4.034582	2015
## 46	84.74576	14.124294	2015
## 128	75.41667	22.916667	2015
## 203	89.96656	8.361204	2015
## 187	68.84422	29.145729	2015
## 183	55.16129	36.774194	2015

## 123	83.65385	16.346154	2015
## 135	82.58065	15.483871	2015
## 1	77.68595	16.528926	2015
## 51	87.05882	11.372549	2015
## 207	79.67914	17.112299	2015
## 195	73.68421	24.812030	2015
## 22	78.62903	18.951613	2015
## 153	91.82692	6.730769	2015
## 58	75.00000	20.588235	2015
## 197	83.33333	15.000000	2015
## 43	85.04274	14.102564	2015
## 3	87.05357	10.714286	2015
## 23	81.93833	15.418502	2015
## 143	77.24868	22.751323	2015
## 138	82.05128	14.871795	2015
## 139	94.26752	3.821656	2015
## 160	84.09091	14.545455	2015
## 27	65.00000	28.750000	2015
## 85	86.81818	8.636364	2015
## 80	88.39779	9.944751	2015
## 12	81.69935	16.339869	2015
## 38	89.37198	10.628019	2015
## 127	89.94413	9.497207	2015
## 60	76.92308	16.410256	2015
## 150	93.28859	5.369128	2015
## 142	75.00000	17.708333	2015
## 154	80.91603	12.977099	2015
## 111	78.57143	20.918367	2015
## 47	92.13483	5.617978	2015
## 193	70.86614	26.771654	2015
## 30	NA	NA	2015
## 156	81.13208	16.981132	2015
## 109	90.66667	9.333333	2015
## 102	84.56790	14.197531	2015
## 191	92.12598	7.086614	2015
## 172	89.83051	8.474576	2015
## 41	88.57143	10.000000	2015
## 92	89.92806	7.913669	2015
## 65	76.98413	22.222222	2015
## 64	92.12121	7.272727	2015
## 32	83.05085	15.819209	2015
## 107	80.35714	16.964286	2015
## 94	87.61905	12.380952	2015
## 169	86.52482	12.765957	2015
## 59	85.57692	13.461538	2015
## 44	91.80328	8.196721	2015
## 152	84.09091	12.878788	2015
## 18	93.40659	5.494505	2015
## 106	96.22642	3.773585	2015
## 76	87.12121	11.363636	2015
## 17	93.26923	3.846154	2015
## 97	89.41176	8.235294	2015
## 136	86.60714	13.392857	2015
## 118	82.35294	15.686275	2015

## 210	93.93939	4.040404	2015
## 62	85.39326	14.606742	2015
## 101	67.56757	25.675676	2015
## 19	76.31579	20.175439	2015
## 26	84.88372	15.116279	2015
## 77	86.53846	9.615385	2015
## 105	76.00000	23.000000	2015
## 57	74.41860	20.930233	2015
## 179	79.34783	20.652174	2015
## 121	57.54717	32.075472	2015
## 182	93.47826	6.521739	2015
## 34	82.85714	17.142857	2015
## 196	88.05970	10.447761	2015
## 13	85.71429	12.698413	2015
## 56	84.84848	15.151515	2015
## 171	80.45977	17.241379	2015
## 54	100.00000	0.000000	2015
## 52	87.80488	12.195122	2015
## 86	77.04918	19.672131	2015
## 157	87.17949	8.974359	2015
## 125	88.88889	7.407407	2015
## 189	NA	NA	2015
## 144	95.45455	3.030303	2015
## 119	77.58621	20.689655	2015
## 25	84.61538	14.102564	2015
## 88	100.00000	0.000000	2015
## 73	96.29630	3.703704	2015
## 108	89.18919	8.108108	2015
## 14	82.25806	16.129032	2015
## 69	90.00000	8.750000	2015
## 16	85.29412	11.764706	2015
## 200	92.85714	7.142857	2015
## 124	84.09091	11.363636	2015
## 167	92.50000	5.000000	2015
## 145	86.27451	11.764706	2015
## 204	89.09091	9.090909	2015
## 104	91.30435	4.347826	2015
## 95	96.15385	3.846154	2015
## 74	86.95652	13.043478	2015
## 181	76.31579	21.052632	2015
## 36	95.55556	2.222222	2015
## 126	93.02326	4.651163	2015
## 29	91.48936	8.510638	2015
## 33	68.75000	31.250000	2015
## 202	78.57143	21.428571	2015
## 100	91.17647	8.823529	2015
## 146	100.00000	0.000000	2015
## 185	90.56604	7.547170	2015
## 166	38.88889	55.555556	2015
## 90	86.53846	13.461538	2015
## 2	91.11111	8.888889	2015
## 131	100.00000	0.000000	2015
## 45	86.20690	13.793103	2015
## 81	97.14286	2.857143	2015

## 37	100.00000	0.000000	2015
## 192	100.00000	0.000000	2015
## 31	94.11765	0.000000	2015
## 141	85.00000	10.000000	2015
## 134	96.55172	3.448276	2015
## 137	100.00000	0.000000	2015
## 184	96.96970	3.030303	2015
## 98	78.57143	21.428571	2015
## 151	79.31034	20.689655	2015
## 159	100.00000	0.000000	2015
## 176	54.54545	36.363636	2015
## 148	95.45455	0.000000	2015
## 84	75.00000	18.750000	2015
## 66	NA	NA	2015
## 199	95.65217	4.347826	2015
## 82	NA	NA	2015
## 194	94.73684	0.000000	2015
## 132	92.59259	7.407407	2015
## 117	69.23077	23.076923	2015
## 155	100.00000	0.000000	2015
## 120	100.00000	0.000000	2015
## 113	NA	NA	2015
## 11	NA	NA	2015
## 35	87.50000	12.500000	2015
## 89	93.75000	6.250000	2015
## 178	70.00000	30.000000	2015
## 75	64.28571	35.714286	2015
## 186	NA	NA	2015
## 129	100.00000	0.000000	2015
## 40	NA	NA	2015
## 116	NA	NA	2015
## 55	NA	NA	2015
## 180	NA	NA	2015
## 61	NA	NA	2015
## 205	95.23810	4.761905	2015
## 163	NA	NA	2015
## 87	NA	NA	2015
## 198	NA	NA	2015
## 68	NA	NA	2015
## 206	NA	NA	2015
## 112	NA	NA	2015

##	State.y	K-12 Total	PK Total	Full K Total	Half K Total	Gr 1 Total
## 175	WA	29144	264	1799	657	2567
## 170	WA	29851	464	2479	76	2544
## 79	WA	26934	236	0	2005	2289
## 72	WA	27439	264	2067	9	2111
## 8	WA	19362	118	93	1296	1368
## 49	WA	22211	331	1651	0	1799
## 42	WA	20570	340	1037	544	1634
## 190	WA	23294	186	1823	18	1889
## 114	WA	20653	228	0	1475	1662
## 140	WA	21339	310	1608	0	1554
## 48	WA	19372	244	1176	379	1685
## 63	WA	19136	239	1616	0	1721

## 67	WA	19184	238	915	474	1493
## 130	WA	16987	118	881	565	1485
## 10	WA	18234	243	1314	85	1460
## 147	WA	15331	260	1286	48	1338
## 208	WA	15818	285	1338	0	1329
## 5	WA	15222	226	1200	16	1202
## 71	WA	17187	187	162	1245	1372
## 28	WA	12346	337	910	383	1288
## 103	WA	15012	127	0	1078	1231
## 149	WA	12471	161	70	836	940
## 9	WA	11060	68	791	0	887
## 21	WA	12810	101	545	347	981
## 7	WA	13465	87	124	664	947
## 20	WA	10970	116	42	723	839
## 91	WA	11289	148	468	345	961
## 164	WA	10100	94	0	620	639
## 162	WA	9213	118	654	40	734
## 122	WA	9601	156	416	251	670
## 173	WA	8914	79	319	323	662
## 168	WA	9559	98	537	189	695
## 177	WA	7984	77	169	423	613
## 53	WA	7500	84	625	2	615
## 133	WA	8852	116	0	533	513
## 99	WA	8221	134	686	0	657
## 201	WA	7899	88	593	15	623
## 78	WA	8354	76	219	434	673
## 188	WA	6153	73	187	198	379
## 83	WA	6595	124	521	2	550
## 96	WA	7250	62	194	287	469
## 15	WA	6566	50	0	392	448
## 174	WA	6615	50	533	21	550
## 165	WA	6571	114	263	271	530
## 110	WA	5997	117	248	180	432
## 39	WA	5772	64	417	1	487
## 115	WA	5558	120	155	321	495
## 209	WA	5570	68	416	2	437
## 4	WA	5479	56	71	285	368
## 93	WA	4413	36	190	59	290
## 50	WA	4888	64	345	7	334
## 158	WA	3511	32	261	4	264
## 70	WA	4912	31	363	2	359
## 24	WA	4362	103	262	104	370
## 161	WA	4161	107	292	0	259
## 6	WA	3851	49	87	84	257
## 46	WA	4055	40	4	295	297
## 128	WA	4049	48	349	1	397
## 203	WA	3603	38	237	83	259
## 187	WA	3059	0	275	1	241
## 183	WA	4248	52	350	0	320
## 123	WA	5325	46	151	209	390
## 135	WA	3752	52	254	2	293
## 1	WA	3221	49	266	0	265
## 51	WA	3595	57	301	0	268
## 207	WA	2253	14	145	3	154

## 195	WA	3326	34	259	1	290
## 22	WA	3628	77	322	2	283
## 153	WA	3238	44	44	166	226
## 58	WA	3630	33	320	1	321
## 197	WA	3148	21	222	0	231
## 43	WA	3102	56	248	6	259
## 3	WA	2721	31	192	4	210
## 23	WA	3002	16	189	0	203
## 143	WA	2874	42	249	0	261
## 138	WA	2807	30	209	0	199
## 139	WA	2632	53	0	204	236
## 160	WA	2860	52	0	170	197
## 27	WA	2639	38	186	0	200
## 85	WA	2886	54	0	221	231
## 80	WA	2345	27	19	131	215
## 12	WA	2157	49	0	155	160
## 38	WA	2403	17	127	21	171
## 127	WA	2402	34	192	1	191
## 60	WA	2041	23	0	133	121
## 150	WA	2312	18	19	160	185
## 142	WA	3068	15	95	5	79
## 154	WA	2217	33	170	1	163
## 111	WA	2106	53	159	2	144
## 47	WA	2400	18	174	2	185
## 193	WA	2308	22	197	0	234
## 30	WA	1101	8	113	0	106
## 156	WA	1660	19	158	0	166
## 109	WA	2082	34	174	0	148
## 102	WA	1863	32	59	93	151
## 191	WA	1562	10	0	85	90
## 172	WA	2021	23	50	96	153
## 41	WA	1891	16	121	3	107
## 92	WA	1876	35	67	88	151
## 65	WA	1646	18	116	0	116
## 64	WA	1896	12	0	126	129
## 32	WA	1779	35	118	1	132
## 107	WA	1585	41	140	0	148
## 94	WA	1738	27	0	129	137
## 169	WA	1463	10	1	77	71
## 59	WA	1496	27	120	0	137
## 44	WA	1469	32	104	0	93
## 152	WA	1435	15	83	3	93
## 18	WA	1547	10	0	124	119
## 106	WA	1468	20	0	78	83
## 76	WA	1621	10	105	2	108
## 17	WA	1295	10	0	90	102
## 97	WA	1281	24	23	55	90
## 136	WA	1223	17	56	26	88
## 118	WA	986	20	76	0	82
## 210	WA	1332	9	97	0	95
## 62	WA	1191	11	81	0	87
## 101	WA	959	4	81	0	86
## 19	WA	1245	10	99	0	114
## 26	WA	1069	16	74	2	72

## 77	WA	622	5	0	31	45
## 105	WA	1063	17	78	0	61
## 57	WA	730	12	48	0	67
## 179	WA	1206	18	95	0	86
## 121	WA	1059	14	65	0	68
## 182	WA	1087	11	90	1	81
## 34	WA	909	16	0	49	60
## 196	WA	989	14	85	0	82
## 13	WA	980	24	98	0	89
## 56	WA	917	9	64	0	59
## 171	WA	941	21	68	0	73
## 54	WA	913	7	0	56	55
## 52	WA	906	9	68	0	62
## 86	WA	938	6	89	0	82
## 157	WA	795	6	0	48	43
## 125	WA	885	7	0	69	71
## 189	WA	689	5	21	35	54
## 144	WA	823	9	61	3	55
## 119	WA	622	2	43	0	42
## 25	WA	856	9	47	0	41
## 88	WA	663	5	55	0	64
## 73	WA	922	6	60	0	54
## 108	WA	667	8	50	0	57
## 14	WA	828	14	75	0	87
## 69	WA	927	7	0	58	70
## 16	WA	446	10	30	0	42
## 200	WA	557	3	47	0	29
## 124	WA	744	9	54	11	55
## 167	WA	544	13	39	0	49
## 145	WA	639	6	27	0	48
## 204	WA	649	10	44	0	51
## 104	WA	784	8	39	17	66
## 95	WA	630	8	0	46	45
## 74	WA	637	9	46	0	38
## 181	WA	732	4	41	0	51
## 36	WA	585	5	47	1	47
## 126	WA	560	11	47	0	42
## 29	WA	591	5	0	39	39
## 33	WA	530	3	41	0	28
## 202	WA	415	3	24	0	22
## 100	WA	532	2	41	0	48
## 146	WA	589	7	40	0	40
## 185	WA	611	9	40	0	46
## 166	WA	440	6	26	0	34
## 90	WA	501	3	33	5	31
## 2	WA	608	4	0	42	47
## 131	WA	295	0	17	0	24
## 45	WA	351	4	31	0	31
## 81	WA	412	5	32	0	29
## 37	WA	436	7	38	0	31
## 192	WA	455	5	33	0	31
## 31	WA	163	3	0	13	8
## 141	WA	332	0	0	10	23
## 134	WA	314	3	23	0	23

## 137	WA	337	4	27	0	32
## 184	WA	234	4	20	0	12
## 98	WA	300	6	22	0	14
## 151	WA	357	7	0	26	26
## 159	WA	242	5	15	1	21
## 176	WA	186	3	23	0	11
## 148	WA	304	4	13	1	22
## 84	WA	221	3	21	0	17
## 66	WA	226	6	15	0	19
## 199	WA	265	1	14	0	14
## 82	WA	176	3	15	0	14
## 194	WA	295	2	18	0	17
## 132	WA	259	0	21	0	19
## 117	WA	224	6	20	0	14
## 155	WA	199	3	10	0	15
## 120	WA	220	3	20	0	13
## 113	WA	250	0	17	0	15
## 11	WA	88	1	0	7	7
## 35	WA	285	0	12	14	26
## 89	WA	172	2	12	0	13
## 178	WA	191	2	8	0	12
## 75	WA	80	0	0	2	8
## 186	WA	219	1	0	16	14
## 129	WA	175	3	6	0	18
## 40	WA	109	2	8	0	8
## 116	WA	93	0	0	6	4
## 55	WA	102	0	0	8	10
## 180	WA	81	0	9	0	12
## 61	WA	90	1	5	0	5
## 205	WA	148	0	9	0	10
## 163	WA	44	0	0	6	3
## 87	WA	87	0	2	5	3
## 198	WA	46	1	0	2	1
## 68	WA	44	3	2	0	1
## 206	WA	85	1	7	0	6
## 112	WA	52	0	0	5	0
##	Gr 2 Total	Gr 3 Total	Gr 4 Total	Gr 5 Total	Gr 6 Total	Gr 7 Total
## 175	2573	2445	2266	2223	1996	2085
## 170	2559	2394	2266	2192	2225	2227
## 79	2284	2266	2256	2252	2123	2018
## 72	2175	2055	1935	2102	2006	2091
## 8	1534	1458	1415	1454	1488	1498
## 49	1675	1636	1578	1669	1684	1579
## 42	1568	1486	1459	1493	1520	1468
## 190	1965	1847	1775	1754	1689	1689
## 114	1622	1667	1603	1551	1577	1502
## 140	1627	1537	1513	1564	1603	1605
## 48	1619	1533	1506	1552	1402	1370
## 63	1593	1496	1432	1389	1310	1368
## 67	1552	1480	1545	1554	1513	1497
## 130	1487	1416	1380	1319	1313	1210
## 10	1491	1414	1392	1352	1370	1330
## 147	1326	1251	1177	1104	1078	1059
## 208	1361	1250	1163	1178	1102	1127

## 5	1181	1134	1157	1122	1058	1090
## 71	1414	1380	1273	1278	1300	1256
## 28	1227	1122	1040	941	902	830
## 103	1239	1200	1141	1227	1133	1145
## 149	960	953	856	965	991	930
## 9	767	816	837	774	816	785
## 21	977	975	981	970	1005	959
## 7	943	956	946	1010	1030	1040
## 20	788	805	800	847	841	848
## 91	886	848	827	817	801	825
## 164	683	618	749	695	792	744
## 162	752	686	661	746	672	692
## 122	702	681	699	697	682	656
## 173	638	647	602	613	624	642
## 168	711	700	719	748	726	726
## 177	645	600	625	579	642	622
## 53	609	601	538	546	540	538
## 133	567	619	644	631	650	684
## 99	645	630	669	592	610	622
## 201	558	612	575	564	554	587
## 78	659	604	707	630	652	615
## 188	383	400	433	445	467	475
## 83	519	519	487	492	471	491
## 96	503	479	493	471	480	485
## 15	437	527	470	504	570	536
## 174	592	520	542	522	483	474
## 165	557	517	509	541	514	483
## 110	423	450	430	438	452	450
## 39	446	449	414	425	442	424
## 115	462	437	409	410	372	415
## 209	422	387	409	400	432	407
## 4	424	397	392	424	411	440
## 93	318	320	364	360	361	360
## 50	342	362	330	362	371	359
## 158	268	247	247	289	237	281
## 70	339	380	379	346	387	372
## 24	353	336	345	331	320	320
## 161	267	307	274	277	259	251
## 6	247	260	288	313	312	316
## 46	286	288	283	301	288	292
## 128	355	352	334	307	301	295
## 203	245	247	242	265	243	268
## 187	243	232	237	219	237	244
## 183	309	323	298	294	317	305
## 123	351	416	407	450	421	565
## 135	292	284	257	287	261	293
## 1	264	257	202	236	240	217
## 51	300	273	259	275	289	272
## 207	185	151	176	173	176	166
## 195	273	303	274	258	281	260
## 22	284	280	263	235	255	275
## 153	234	261	268	235	264	237
## 58	302	326	265	284	276	277
## 197	229	233	266	219	241	249

## 43	243	224	222	236	227	224
## 3	218	196	209	185	218	222
## 23	187	183	201	213	205	224
## 143	222	235	184	221	193	201
## 138	224	188	200	203	215	222
## 139	241	199	202	203	206	206
## 160	195	194	195	223	207	209
## 27	192	211	187	186	180	203
## 85	211	264	206	209	217	194
## 80	183	184	168	178	174	182
## 12	178	153	171	146	153	185
## 38	196	179	204	191	184	200
## 127	183	193	166	173	174	184
## 60	142	130	120	158	142	136
## 150	182	186	169	184	182	176
## 142	96	88	99	80	83	87
## 154	186	164	168	170	187	150
## 111	140	153	139	144	128	147
## 47	188	207	173	148	186	176
## 193	213	216	216	176	173	139
## 30	94	102	84	103	92	100
## 156	117	139	116	141	122	117
## 109	165	152	177	162	160	150
## 102	142	132	156	142	140	115
## 191	99	98	115	79	127	118
## 172	154	137	149	126	155	158
## 41	137	122	145	139	144	144
## 92	173	136	151	131	133	138
## 65	129	114	125	113	118	140
## 64	119	129	126	137	131	160
## 32	132	106	127	127	132	123
## 107	133	117	115	103	121	117
## 94	157	134	133	144	117	152
## 169	97	100	107	106	102	115
## 59	117	111	122	120	117	95
## 44	90	99	97	75	115	113
## 152	108	112	90	106	110	130
## 18	119	119	105	105	129	118
## 106	92	88	92	112	133	107
## 76	108	104	111	127	128	118
## 17	96	85	74	91	101	101
## 97	115	76	103	106	108	113
## 136	75	90	110	80	89	76
## 118	84	78	72	74	84	83
## 210	82	103	91	108	119	96
## 62	88	91	92	103	77	85
## 101	83	83	85	85	69	69
## 19	74	108	102	79	95	94
## 26	70	77	68	84	89	75
## 77	49	44	44	50	51	40
## 105	75	82	65	84	92	81
## 57	63	56	48	55	51	53
## 179	103	93	105	99	78	106
## 121	92	68	84	83	80	99

## 182	83	100	93	84	78	85
## 34	76	59	73	72	66	81
## 196	78	86	59	69	65	64
## 13	82	89	62	73	65	80
## 56	66	64	69	70	67	68
## 171	76	75	59	57	67	73
## 54	64	55	55	61	77	88
## 52	62	56	68	71	60	79
## 86	78	84	62	75	62	71
## 157	50	58	65	56	51	66
## 125	76	74	94	73	93	71
## 189	83	71	75	70	75	81
## 144	64	57	57	67	56	59
## 119	48	49	48	41	53	51
## 25	55	53	54	54	53	64
## 88	52	51	56	45	56	47
## 73	55	50	44	60	48	59
## 108	54	48	46	62	39	45
## 14	74	64	68	60	52	60
## 69	68	69	82	77	65	73
## 16	33	34	26	32	40	27
## 200	35	25	36	22	26	25
## 124	55	62	61	60	45	45
## 167	39	50	64	37	41	36
## 145	33	41	37	47	73	64
## 204	38	59	53	47	45	47
## 104	60	72	56	57	65	52
## 95	55	40	53	58	46	37
## 74	42	49	43	59	58	63
## 181	39	49	53	45	48	46
## 36	43	32	45	45	43	59
## 126	55	36	40	46	41	34
## 29	38	44	53	32	47	40
## 33	42	42	28	39	52	37
## 202	23	34	40	24	25	39
## 100	43	39	41	35	27	39
## 146	46	38	40	48	36	54
## 185	38	45	45	43	52	46
## 166	28	33	30	33	29	33
## 90	42	32	32	39	34	49
## 2	34	42	35	42	51	47
## 131	21	23	19	24	23	19
## 45	30	22	25	19	26	32
## 81	30	39	27	36	28	35
## 37	35	36	32	34	30	20
## 192	27	36	40	32	38	30
## 31	9	11	8	13	16	13
## 141	46	26	27	32	25	27
## 134	22	26	21	18	20	27
## 137	29	38	23	19	23	25
## 184	14	20	16	17	15	14
## 98	29	17	26	27	26	33
## 151	32	30	19	20	21	30
## 159	15	12	23	11	13	24

## 176	12	16	11	16	15	11
## 148	27	24	24	29	19	23
## 84	16	16	19	17	14	11
## 66	26	25	20	14	18	15
## 199	19	12	14	15	20	17
## 82	18	11	9	15	13	18
## 194	17	26	28	17	14	30
## 132	19	18	19	27	18	16
## 117	17	17	24	17	12	12
## 155	10	12	21	17	19	11
## 120	18	18	22	15	18	22
## 113	29	15	19	17	20	16
## 11	7	4	6	4	5	6
## 35	27	20	27	25	17	24
## 89	10	7	14	18	15	12
## 178	9	16	17	19	21	12
## 75	6	8	5	6	0	10
## 186	24	15	16	21	28	15
## 129	13	11	17	16	12	10
## 40	11	11	2	14	10	11
## 116	7	6	7	8	5	12
## 55	9	8	7	8	8	9
## 180	9	4	7	12	9	6
## 61	4	4	12	5	12	0
## 205	9	8	14	13	19	16
## 163	4	3	1	3	4	2
## 87	8	9	9	6	6	8
## 198	2	1	3	6	7	5
## 68	4	7	5	4	3	5
## 206	5	5	6	7	8	5
## 112	3	4	1	3	2	6
##	Gr 8 Total	Gr 9 Total	Gr 10 Total	Gr 11 Total	Gr 12 Total	
## 175	1998	2124	2080	2001	2330	
## 170	2200	2254	2169	2107	2159	
## 79	2060	1935	1852	1827	1767	
## 72	2080	2489	2238	2091	1990	
## 8	1457	1589	1545	1585	1582	
## 49	1657	1711	1883	1793	1896	
## 42	1473	1625	1578	1686	1999	
## 190	1762	1795	1788	1643	1857	
## 114	1571	1510	1616	1551	1746	
## 140	1724	1728	1735	1771	1770	
## 48	1448	1444	1408	1408	1442	
## 63	1272	1653	1491	1359	1436	
## 67	1442	1532	1395	1447	1345	
## 130	1294	1182	1140	1176	1139	
## 10	1422	1454	1308	1364	1478	
## 147	1115	1117	1132	1066	1234	
## 208	1156	1183	1172	1102	1357	
## 5	1085	1278	1168	1205	1326	
## 71	1230	1370	1333	1235	1339	
## 28	823	774	777	681	648	
## 103	1107	1119	1143	1123	1126	
## 149	926	1071	981	975	1017	

## 9	832	889	939	919	1008
## 21	1048	1042	985	969	1026
## 7	1088	1246	1188	1137	1146
## 20	839	876	893	884	945
## 91	867	863	926	867	988
## 164	775	943	938	910	994
## 162	703	813	735	726	599
## 122	716	873	830	841	887
## 173	677	876	867	741	683
## 168	775	716	701	741	875
## 177	618	626	581	606	635
## 53	544	578	584	576	604
## 133	713	769	792	879	858
## 99	598	627	626	588	671
## 201	652	642	572	650	702
## 78	708	619	611	614	609
## 188	525	532	535	550	644
## 83	484	529	501	494	535
## 96	502	630	587	559	1111
## 15	541	567	553	513	508
## 174	519	491	447	477	444
## 165	508	489	469	459	461
## 110	503	476	484	493	538
## 39	452	430	447	475	463
## 115	401	413	397	408	463
## 209	436	408	468	466	480
## 4	437	436	443	475	476
## 93	374	364	334	377	342
## 50	384	449	414	433	396
## 158	288	290	301	260	274
## 70	388	413	376	383	425
## 24	328	346	309	313	325
## 161	284	432	418	408	433
## 6	280	367	347	345	348
## 46	324	342	320	360	375
## 128	280	258	288	258	274
## 203	289	297	294	296	338
## 187	208	239	226	208	249
## 183	286	353	335	336	422
## 123	689	396	351	305	224
## 135	283	277	300	314	355
## 1	235	248	266	227	298
## 51	270	310	247	271	260
## 207	172	169	183	177	223
## 195	254	243	185	218	227
## 22	265	316	284	265	299
## 153	264	274	250	246	269
## 58	259	255	241	227	276
## 197	249	274	238	239	258
## 43	233	258	235	237	250
## 3	202	189	214	235	227
## 23	217	233	254	304	389
## 143	213	233	195	216	251
## 138	211	223	230	251	232

## 139	203	204	181	175	172
## 160	227	231	275	265	272
## 27	168	220	224	227	255
## 85	238	219	213	222	241
## 80	175	168	196	184	188
## 12	158	168	184	167	179
## 38	189	177	180	205	179
## 127	205	187	187	182	184
## 60	153	146	219	177	264
## 150	190	167	189	166	157
## 142	83	250	460	581	982
## 154	191	174	168	153	172
## 111	156	177	186	194	237
## 47	188	192	195	197	189
## 193	156	168	138	158	124
## 30	82	118	18	39	50
## 156	133	125	119	119	88
## 109	154	156	172	155	157
## 102	161	130	152	137	153
## 191	143	164	158	145	141
## 172	152	182	172	140	197
## 41	158	173	171	179	148
## 92	140	120	146	149	153
## 65	136	161	138	124	116
## 64	140	189	147	188	175
## 32	136	144	153	144	204
## 107	102	132	109	122	126
## 94	134	136	110	125	130
## 169	115	129	129	154	160
## 59	126	122	107	101	101
## 44	99	115	143	146	180
## 152	136	128	110	107	119
## 18	124	122	131	114	118
## 106	128	143	134	139	139
## 76	146	159	134	140	131
## 17	103	113	100	126	113
## 97	72	132	110	83	95
## 136	82	98	121	107	125
## 118	68	73	62	81	69
## 210	101	116	111	107	106
## 62	106	67	87	108	119
## 101	66	70	51	50	81
## 19	94	95	93	92	106
## 26	92	92	92	97	85
## 77	41	62	69	58	38
## 105	71	93	101	85	95
## 57	59	63	50	50	67
## 179	84	88	99	87	83
## 121	80	71	91	89	89
## 182	81	78	72	68	93
## 34	73	77	75	73	75
## 196	78	86	86	86	65
## 13	73	73	64	63	69
## 56	72	89	76	75	78

## 171	74	80	88	70	81
## 54	75	84	86	76	81
## 52	69	88	81	72	70
## 86	67	73	59	62	74
## 157	66	65	70	76	81
## 125	66	52	55	57	34
## 189	95	9	10	5	5
## 144	73	71	66	75	59
## 119	57	37	41	59	53
## 25	74	85	84	88	104
## 88	44	41	62	40	50
## 73	54	113	118	82	125
## 108	47	44	57	60	58
## 14	62	62	47	61	56
## 69	71	81	70	74	69
## 16	31	42	38	37	34
## 200	34	45	44	62	127
## 124	55	64	56	66	55
## 167	43	41	32	39	34
## 145	86	40	43	57	43
## 204	52	50	59	55	49
## 104	66	66	55	48	65
## 95	54	47	48	45	56
## 74	50	60	58	31	40
## 181	66	65	68	82	79
## 36	47	53	45	39	39
## 126	40	54	52	35	38
## 29	41	70	41	56	51
## 33	43	50	49	49	30
## 202	42	39	44	34	25
## 100	42	32	45	48	52
## 146	35	55	49	48	60
## 185	41	48	61	54	52
## 166	32	39	37	37	49
## 90	44	40	42	44	34
## 2	56	48	61	60	43
## 131	24	20	29	21	31
## 45	24	24	29	22	36
## 81	35	34	31	27	29
## 37	37	29	45	28	41
## 192	34	33	31	35	55
## 31	18	15	13	9	17
## 141	25	21	23	27	20
## 134	33	22	25	24	30
## 137	23	18	26	27	27
## 184	17	27	22	24	16
## 98	20	21	20	26	19
## 151	19	38	33	31	32
## 159	27	22	20	26	12
## 176	17	12	16	11	15
## 148	20	29	24	25	24
## 84	19	26	21	12	12
## 66	18	17	13	16	10
## 199	27	32	21	34	26

## 82	18	13	10	16	6
## 194	23	27	32	22	24
## 132	22	22	19	19	20
## 117	13	17	18	19	24
## 155	16	21	8	20	19
## 120	15	13	18	13	15
## 113	20	22	20	17	23
## 11	5	12	11	8	6
## 35	16	23	22	14	18
## 89	16	13	13	10	19
## 178	12	12	22	13	18
## 75	8	4	6	8	9
## 186	14	15	13	15	13
## 129	14	20	7	14	17
## 40	8	12	8	3	3
## 116	13	6	8	8	3
## 55	9	6	9	1	10
## 180	2	1	2	4	4
## 61	8	10	8	10	7
## 205	6	8	13	9	14
## 163	3	5	4	4	2
## 87	9	6	6	4	6
## 198	4	2	5	3	5
## 68	4	3	1	2	3
## 206	9	8	8	4	7
## 112	3	7	3	10	5

Now I'd like to see descriptive statistics for total revenue.

```
summary(FullData$`Total Revenue`)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      1694   7496   17644   52931   53008   415924
```

Standard deviation:

```
library(DescTools)
```

```
## Warning: package 'DescTools' was built under R version 3.4.3
```

```
sd(FullData$`Total Revenue`,na.rm = T)
```

```
## [1] 80461.45
```

Coefficient of Variation

```
sd(FullData$`Total Revenue`,na.rm = T)/mean(FullData$`Total Revenue`,na.rm = T)
```

```
## [1] 1.520114
```

Skewness

```
Skew(FullData$`State Revenue`,na.rm = T)
```

```
## [1] 2.246316
```

Kurtosis

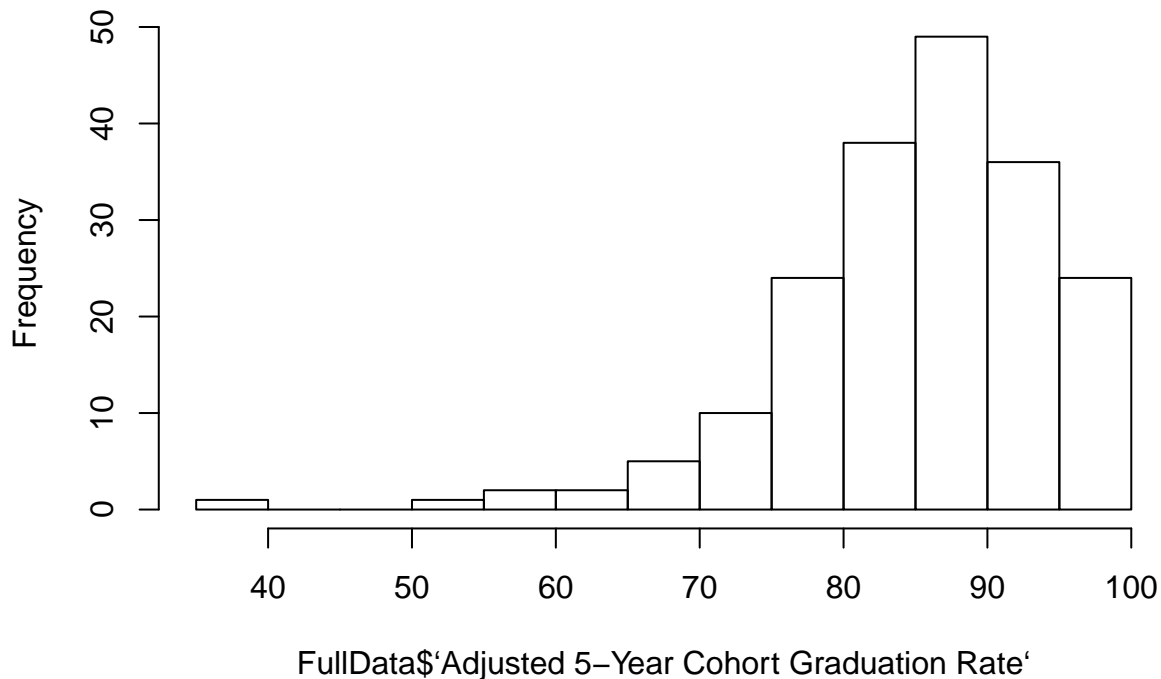
```
Kurt(FullData$`State Revenue`,na.rm = T)
```

```
## [1] 4.856858
```

Now let's look start creating a correlation.

```
data=FullData[is.finite(FullData$`Adjusted 5-Year Cohort Graduation Rate`),]  
hist(FullData$`Adjusted 5-Year Cohort Graduation Rate`)
```

Histogram of FullData\$`Adjusted 5-Year Cohort Graduation Rate`



```
explanans=names(FullData)[c(3,4,9)]  
for (x in explanans){  
  par=cbind(FullData[,x],FullData$`Adjusted 5-Year Cohort Graduation Rate`)  
  p=cor.test(FullData[,x],FullData$`Adjusted 5-Year Cohort Graduation Rate`)  
  print(paste("Pearson:",p$estimate," - Is significant?",p$p.value<0.05))  
}
```

```
## Warning in cor(x, y): the standard deviation is zero
```

```
## [1] "Pearson: NA - Is significant? NA"  
## [1] "Pearson: -0.0304517916739964 - Is significant? FALSE"  
## [1] "Pearson: -0.980426774306284 - Is significant? TRUE"
```

```
cor(FullData[explanans])
```

```
## Warning in cor(FullData[explanans]): the standard deviation is zero
```

```
##  
##           Year Total Revenue Cohort dropout rate  
## Year           1           NA           NA  
## Total Revenue  NA           1           NA  
## Cohort dropout rate  NA           NA           1
```

```
row.names(FullData)=FullData$`District Name`
```

```
names(FullData)
```

```
## [1] "District Name"  
## [2] "State.x"
```



```
## [3] "Year"
## [4] "Total Revenue"
## [5] "State Revenue"
## [6] "Local Revenue"
## [7] "District Code"
## [8] "Adjusted 5-Year Cohort Graduation Rate"
## [9] "Cohort dropout rate"
## [10] "School Year"
## [11] "State.y"
## [12] "K-12 Total"
## [13] "PK Total"
## [14] "Full K Total"
## [15] "Half K Total"
## [16] "Gr 1 Total"
## [17] "Gr 2 Total"
## [18] "Gr 3 Total"
## [19] "Gr 4 Total"
## [20] "Gr 5 Total"
## [21] "Gr 6 Total"
## [22] "Gr 7 Total"
## [23] "Gr 8 Total"
## [24] "Gr 9 Total"
## [25] "Gr 10 Total"
## [26] "Gr 11 Total"
## [27] "Gr 12 Total"
```

Let's run a linear regression to see if there are any correlations.

```
LinRegEPI = lm(`Adjusted 5-Year Cohort Graduation Rate` ~ `Total Revenue` + `State Revenue` + `Local Revenue` + `K-12 Total`,
               data = FullData)
```

Now we can view a summary.

```
summary(LinRegEPI)
```

```
##
## Call:
## lm(formula = `Adjusted 5-Year Cohort Graduation Rate` ~ `Total Revenue` +
##     `State Revenue` + `Local Revenue` + `K-12 Total`, data = FullData)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -46.967  -4.647   0.633   5.933  14.122
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   86.1761798   0.8172087  105.452  <2e-16 ***
## `Total Revenue` -0.0003388   0.0001880   -1.801   0.0732 .
## `State Revenue`  0.0003606   0.0002604    1.385   0.1678
## `Local Revenue`  0.0005006   0.0001998    2.506   0.0131 *
## `K-12 Total`   -0.0006479   0.0011588   -0.559   0.5767
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 9 on 187 degrees of freedom
## (18 observations deleted due to missingness)
```

```
## Multiple R-squared:  0.07621,    Adjusted R-squared:  0.05645
## F-statistic: 3.857 on 4 and 187 DF,  p-value: 0.004909
```

Now we will collect the results of the regression.

```
results=coef(summary(LinRegEPI))

data.frame(Coefficient=results[,1],Significant=results[,4]<0.05)
```

```
##              Coefficient Significant
## (Intercept)   86.1761797589      TRUE
## `Total Revenue` -0.0003387524     FALSE
## `State Revenue`  0.0003605731     FALSE
## `Local Revenue`  0.0005006454      TRUE
## `K-12 Total`   -0.0006479249     FALSE
```

```
summary(LinRegEPI)$adj.r.squared
```

```
## [1] 0.0564482
```

Let's develop scatter plots. First, we need to assign variables.

```
var2=data$`State Revenue`

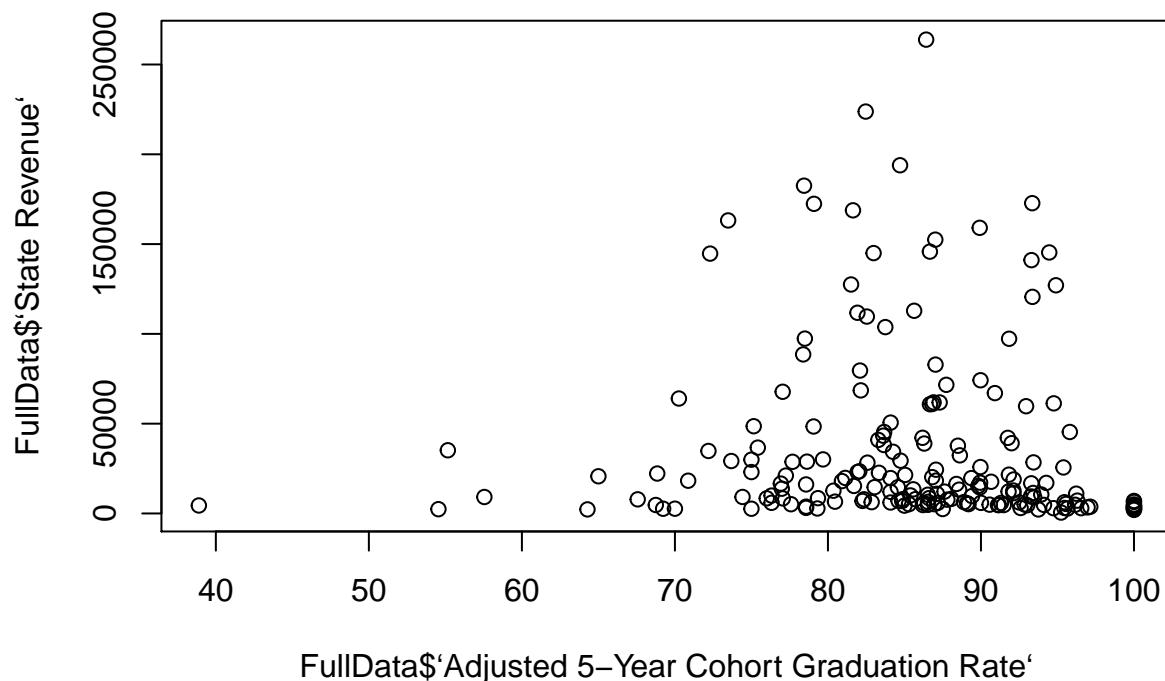
# Saving mean and sd:

mnVar2=mean(var2,na.rm = T)
sdVar2=sd(var2,na.rm = T)

library(ggplot2)

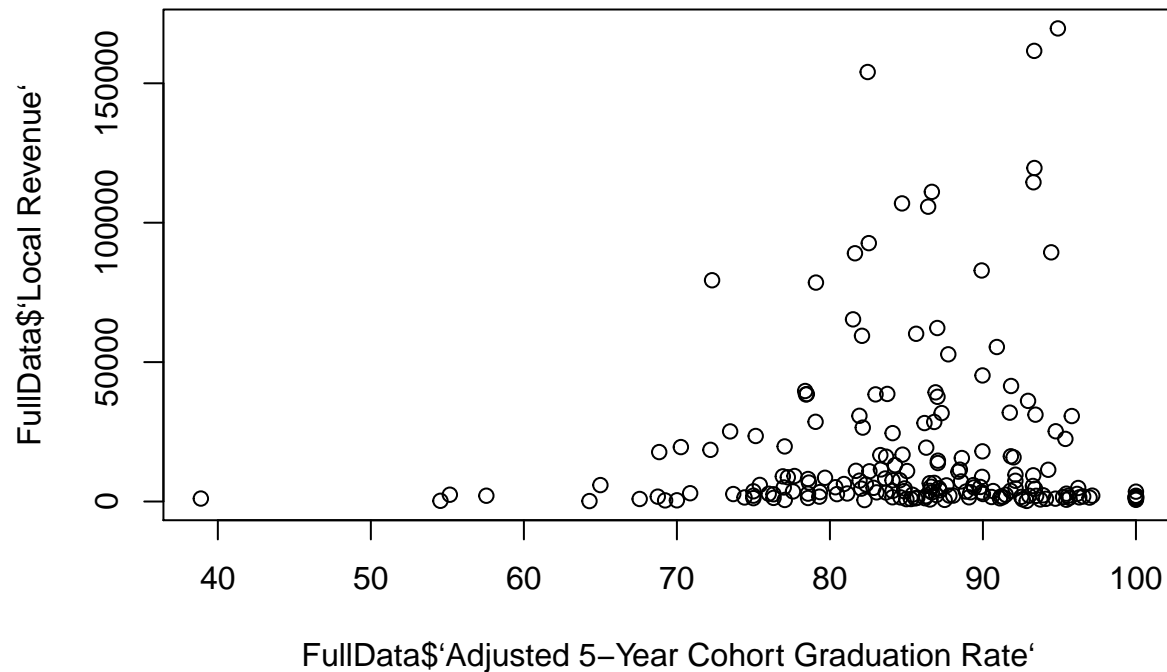
#Multivariate Scatter Plot State Revenue.

plot(x=FullData$`Adjusted 5-Year Cohort Graduation Rate`,y=FullData$`State Revenue`)
```



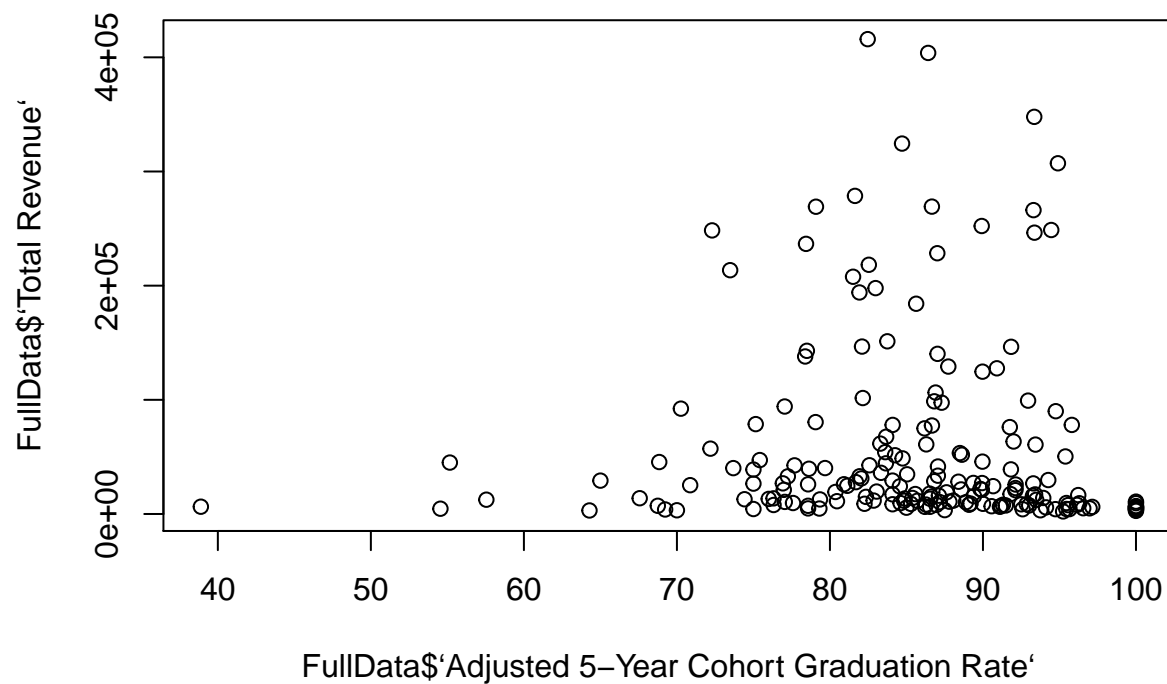
```
#Multivariate Scatter Plot Local Revenue.
```

```
plot(x=FullData$`Adjusted 5-Year Cohort Graduation Rate`,y=FullData$`Local Revenue`)
```



```
#Multivariate Scatter Plot Total Revenue.
```

```
plot(x=FullData$`Adjusted 5-Year Cohort Graduation Rate`,y=FullData$`Total Revenue`)
```



Now plot a histogram of Graduation Rates.

```
data=FullData[is.finite(FullData$`State Revenue`),]
```

```
var=data$`Adjusted 5-Year Cohort Graduation Rate`
```

```
mnVar=mean(var,na.rm = T)
```

```
sdVar=sd(var,na.rm = T)
```

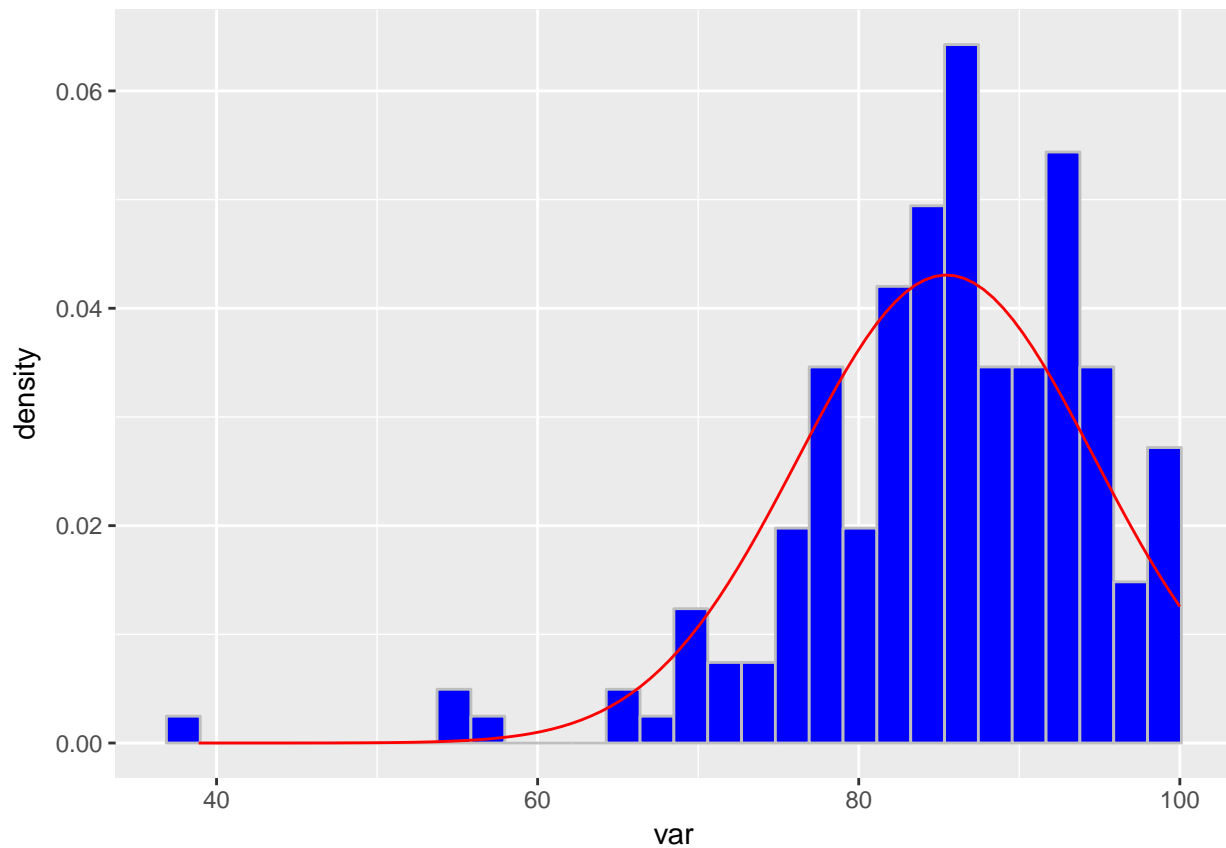
```
base = ggplot(data, aes(x=var))
hist = base + geom_histogram(fill="blue",
                             color='grey',
                             aes(y=..density..))
```

```
histAndNormal = hist + stat_function(fun=dnorm,
                                     color="red",
                                     args=list(mean=mnVar,sd=sdVar))
```

```
histAndNormal
```

```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```

```
## Warning: Removed 18 rows containing non-finite values (stat_bin).
```



Import Washington State School Districts Map

```
# Import Map Files
```

```
compressedMap= 'https://github.com/awood59/PROJECT/raw/master/WAOFM%20-%20GIS%20-%20School%20District%20Map%20Files.zip'
```

```

library(utils)
temp=tempfile()
download.file(compressedMap, temp)
unzip(temp)

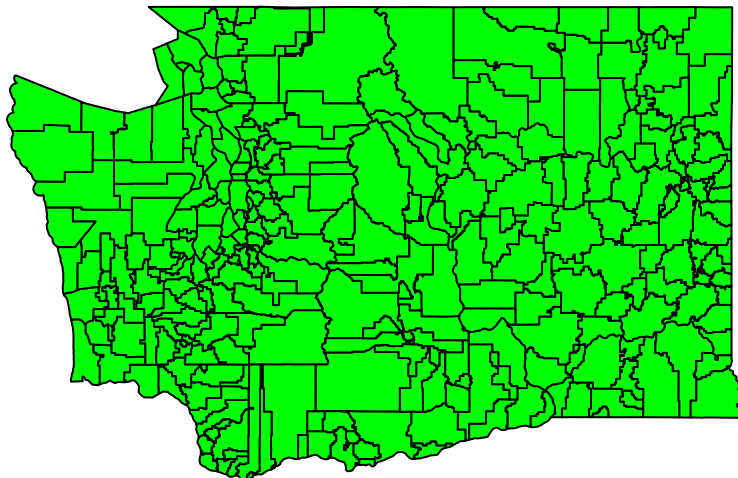
(maps=list.files(pattern = 'shp'))

## [1] "geo_export_4f6f751a-05f3-48de-adf9-962964ba024e.shp"
library(rgdal)

## Warning: package 'rgdal' was built under R version 3.4.3
## Loading required package: sp
## Warning: package 'sp' was built under R version 3.4.3
## rgdal: version: 1.2-16, (SVN revision 701)
## Geospatial Data Abstraction Library extensions to R successfully loaded
## Loaded GDAL runtime: GDAL 2.1.3, released 2017/20/01
## Path to GDAL shared files: /Library/Frameworks/R.framework/Versions/3.4/Resources/library/rgdal/gdal
## GDAL binary built with GEOS: FALSE
## Loaded PROJ.4 runtime: Rel. 4.9.3, 15 August 2016, [PJ_VERSION: 493]
## Path to PROJ.4 shared files: /Library/Frameworks/R.framework/Versions/3.4/Resources/library/rgdal/pj
## Linking to sp version: 1.2-5
wazipMap <- rgdal::readOGR("geo_export_4f6f751a-05f3-48de-adf9-962964ba024e.shp",stringsAsFactors=F)

## OGR data source with driver: ESRI Shapefile
## Source: "geo_export_4f6f751a-05f3-48de-adf9-962964ba024e.shp", layer: "geo_export_4f6f751a-05f3-48de
## with 295 features
## It has 7 fields
plot(wazipMap,col='green')

```



Next Step

I will follow up by linking the map and plotting graduation rates via district.

I need to see which columns can be connected in the data and the map. We can see we have the column 'name'.

```
names(wazipMap)
```

```
## [1] "ccddd"      "et_id"      "esd"        "cenid"      "longitude"  "latitude"
## [7] "name"
```

Fortunately, they are the same as the District Name in the Data file.

```
list(wazipMap@data$name)
```

```
## [[1]]
## [1] "Aberdeen School District"
## [2] "Adna School District"
## [3] "Almira School District"
## [4] "Anacortes School District"
## [5] "Arlington School District"
## [6] "Asotin-Anatone School District"
## [7] "Auburn School District"
## [8] "Bainbridge Island School District"
## [9] "Battle Ground School District"
## [10] "Bellevue School District"
## [11] "Bellingham School District"
## [12] "Benge School District"
## [13] "Bethel School District"
## [14] "Bickleton School District"
## [15] "Blaine School District"
## [16] "Boistfort School District"
## [17] "Bremerton School District"
## [18] "Brewster School District"
## [19] "Bridgeport School District"
## [20] "Brinnon School District"
## [21] "Burlington-Edison School District"
## [22] "Camas School District"
## [23] "Cape Flattery School District"
## [24] "Carbonado School District"
## [25] "Cascade School District"
## [26] "Cashmere School District"
## [27] "Castle Rock School District"
## [28] "Centerville School District"
## [29] "Central Kitsap School District"
## [30] "Central Valley School District"
## [31] "Centralia School District"
## [32] "Chehalis School District"
## [33] "Cheney School District"
## [34] "Chewelah School District"
## [35] "Chimacum School District"
## [36] "Clarkston School District"
## [37] "Cle Elum-Roslyn School District"
## [38] "Clover Park School District"
## [39] "Colfax School District"
## [40] "College Place School District"
## [41] "Colton School District"
## [42] "Columbia School District (Stevens)"
```

```

## [43] "Columbia School District (Walla Walla)"
## [44] "Colville School District"
## [45] "Concrete School District"
## [46] "Conway School District"
## [47] "Cosmopolis School District"
## [48] "Coulee-Hartline School District"
## [49] "Coupeville School District"
## [50] "Crescent School District"
## [51] "Creston School District"
## [52] "Curlew School District"
## [53] "Cusick School District"
## [54] "Damman School District"
## [55] "Darrington School District"
## [56] "Davenport School District"
## [57] "Dayton School District"
## [58] "Deer Park School District"
## [59] "Dieringer School District"
## [60] "Dixie School District"
## [61] "East Valley School District (Spokane)"
## [62] "East Valley School District (Yakima)"
## [63] "Eastmont School District"
## [64] "Easton School District"
## [65] "Eatonville School District"
## [66] "Edmonds School District"
## [67] "Ellensburg School District"
## [68] "Elma School District"
## [69] "Endicott School District"
## [70] "Entiat School District"
## [71] "Enumclaw School District"
## [72] "Ephrata School District"
## [73] "Evaline School District"
## [74] "Everett School District"
## [75] "Evergreen School District (Clark)"
## [76] "Evergreen School District (Stevens)"
## [77] "Federal Way School District"
## [78] "Ferndale School District"
## [79] "Fife Public Schools"
## [80] "Finley School District"
## [81] "Franklin Pierce School District"
## [82] "Freeman School District"
## [83] "Garfield School District"
## [84] "Glenwood School District"
## [85] "Goldendale School District"
## [86] "Grand Coulee Dam School District"
## [87] "Grandview School District"
## [88] "Granger School District"
## [89] "Granite Falls School District"
## [90] "Grapeview School District"
## [91] "Great Northern School District"
## [92] "Green Mountain School District"
## [93] "Griffin School District"
## [94] "Harrington School District"
## [95] "Highland School District"
## [96] "Highline School District"

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[97] "Hockinson School District"
[98] "Hood Canal School District"
[99] "Hoquiam School District"
[100] "Inchelium School District"
[101] "Index School District"
[102] "Issaquah School District"
[103] "Kahlotus School District"
[104] "Kalama School District"
[105] "Keller School District"
[106] "Kelso School District"
[107] "Kennewick School District"
[108] "Kent School District"
[109] "Kettle Falls School District"
[110] "Kiona-Benton School District"
[111] "Kittitas School District"
[112] "Klickitat School District"
[113] "La Center School District"
[114] "La Conner School District"
[115] "LaCrosse School District"
[116] "Lake Chelan School District"
[117] "Lake Quinalt School District"
[118] "Lake Stevens School District"
[119] "Lake Washington School District"
[120] "Lakewood School District"
[121] "Lamont School District"
[122] "Liberty School District"
[123] "Lind School District"
[124] "Longview Public Schools"
[125] "Loon Lake School District"
[126] "Lopez School District"
[127] "Lyle School District"
[128] "Lynden School District"
[129] "Mabton School District"
[130] "Mansfield School District"
[131] "Manson School District"
[132] "Mary M. Knight School District"
[133] "Mary Walker School District"
[134] "Marysville School District"
[135] "McCleary School District"
[136] "Mead School District"
[137] "Medical Lake School District"
[138] "Mercer Island School District"
[139] "Meridian School District"
[140] "Methow Valley School District"
[141] "Mill A School District"
[142] "Monroe School District"
[143] "Montesano School District"
[144] "Morton School District"
[145] "Moses Lake School District"
[146] "Mosseyrock School District"
[147] "Mount Adams School District"
[148] "Mount Baker School District"
[149] "Mount Pleasant School District"
[150] "Mount Vernon School District"

[151] "Mukilteo School District"
 ## [152] "Naches Valley School District"
 ## [153] "Napavine School District"
 ## [154] "Naselle-Grays River Valley School District"
 ## [155] "Nespelem School District"
 ## [156] "Newport School District"
 ## [157] "Nine Mile Falls School District"
 ## [158] "Nooksack Valley School District"
 ## [159] "North Beach School District"
 ## [160] "North Franklin School District"
 ## [161] "North Kitsap School District"
 ## [162] "North Mason School District"
 ## [163] "North River School District"
 ## [164] "North Thurston Public Schools"
 ## [165] "Northport School District"
 ## [166] "Northshore School District"
 ## [167] "Oak Harbor School District"
 ## [168] "Oakesdale School District"
 ## [169] "Oakville School District"
 ## [170] "Ocean Beach School District"
 ## [171] "Ocosta School District"
 ## [172] "Odessa School District"
 ## [173] "Okanogan School District"
 ## [174] "Olympia School District"
 ## [175] "Omak School District"
 ## [176] "Onalaska School District"
 ## [177] "Onion Creek School District"
 ## [178] "Orcas Island School District"
 ## [179] "Orchard Prairie School District"
 ## [180] "Orient School District"
 ## [181] "Orondo School District"
 ## [182] "Oroville School District"
 ## [183] "Orting School District"
 ## [184] "Othello School District"
 ## [185] "Palisades School District"
 ## [186] "Palouse School District"
 ## [187] "Pasco School District"
 ## [188] "Pateros School District"
 ## [189] "Paterson School District"
 ## [190] "Pe Ell School District"
 ## [191] "Peninsula School District"
 ## [192] "Pioneer School District"
 ## [193] "Pomeroy School District"
 ## [194] "Port Angeles School District"
 ## [195] "Port Townsend School District"
 ## [196] "Prescott School District"
 ## [197] "Prosser School District"
 ## [198] "Pullman School District"
 ## [199] "Puyallup School District"
 ## [200] "Queets-Clearwater School District"
 ## [201] "Quilcene School District"
 ## [202] "Quillayute Valley School District"
 ## [203] "Quincy School District"
 ## [204] "Rainier School District"

[205] "Raymond School District"
 ## [206] "Reardan-Edwall School District"
 ## [207] "Renton School District"
 ## [208] "Republic School District"
 ## [209] "Richland School District"
 ## [210] "Ridgefield School District"
 ## [211] "Ritzville School District"
 ## [212] "Riverside School District"
 ## [213] "Riverview School District"
 ## [214] "Rochester School District"
 ## [215] "Roosevelt School District"
 ## [216] "Rosalia School District"
 ## [217] "Royal School District"
 ## [218] "San Juan Island School District"
 ## [219] "Satsop School District"
 ## [220] "Seattle School District"
 ## [221] "Sedro-Woolley School District"
 ## [222] "Selah School District"
 ## [223] "Selkirk School District"
 ## [224] "Sequim School District"
 ## [225] "Shaw Island School District"
 ## [226] "Shelton School District"
 ## [227] "Shoreline School District"
 ## [228] "Skamania School District"
 ## [229] "Skykomish School District"
 ## [230] "Snohomish School District"
 ## [231] "Snoqualmie Valley School District"
 ## [232] "Soap Lake School District"
 ## [233] "South Bend School District"
 ## [234] "South Kitsap School District"
 ## [235] "South Whidbey School District"
 ## [236] "Southside School District"
 ## [237] "Spokane Public Schools"
 ## [238] "Sprague School District"
 ## [239] "St. John School District"
 ## [240] "Stanwood-Camano School District"
 ## [241] "Star School District"
 ## [242] "Starbuck School District"
 ## [243] "Stehekin School District"
 ## [244] "Steilacoom Historical School District"
 ## [245] "Steptoe School District"
 ## [246] "Stevenson-Carson School District"
 ## [247] "Sultan School District"
 ## [248] "Summit Valley School District"
 ## [249] "Sumner School District"
 ## [250] "Sunnyside School District"
 ## [251] "Tacoma Public Schools"
 ## [252] "Taholah School District"
 ## [253] "Tahoma School District"
 ## [254] "Tekoa School District"
 ## [255] "Tenino School District"
 ## [256] "Thorp School District"
 ## [257] "Toledo School District"
 ## [258] "Tonasket School District"

```

## [259] "Toppenish School District"
## [260] "Touchet School District"
## [261] "Toutle Lake School District"
## [262] "Trout Lake School District"
## [263] "Tukwila School District"
## [264] "Tumwater School District"
## [265] "Union Gap School District"
## [266] "University Place School District"
## [267] "Valley School District"
## [268] "Vancouver Public Schools"
## [269] "Vashon Island School District"
## [270] "Wahkiakum School District"
## [271] "Wahluke School District"
## [272] "Waitsburg School District"
## [273] "Walla Walla School District"
## [274] "Wapato School District"
## [275] "Warden School District"
## [276] "Washougal School District"
## [277] "Washtucna School District"
## [278] "Waterville School District"
## [279] "Wellpinit School District"
## [280] "Wenatchee School District"
## [281] "West Valley School District (Spokane)"
## [282] "West Valley School District (Yakima)"
## [283] "White Pass School District"
## [284] "White River School District"
## [285] "White Salmon Valley School District"
## [286] "Wilbur School District"
## [287] "Willapa Valley School District"
## [288] "Wilson Creek School District"
## [289] "Winlock School District"
## [290] "Wishkah Valley School District"
## [291] "Wishram School District"
## [292] "Woodland School District"
## [293] "Yakima School District"
## [294] "Yelm Community Schools"
## [295] "Zillah School District"

```

We can check that to verify.

```
names(FullData)
```

```

## [1] "District Name"
## [2] "State.x"
## [3] "Year"
## [4] "Total Revenue"
## [5] "State Revenue"
## [6] "Local Revenue"
## [7] "District Code"
## [8] "Adjusted 5-Year Cohort Graduation Rate"
## [9] "Cohort dropout rate"
## [10] "School Year"
## [11] "State.y"
## [12] "K-12 Total"
## [13] "PK Total"

```

```
## [14] "Full K Total"
## [15] "Half K Total"
## [16] "Gr 1 Total"
## [17] "Gr 2 Total"
## [18] "Gr 3 Total"
## [19] "Gr 4 Total"
## [20] "Gr 5 Total"
## [21] "Gr 6 Total"
## [22] "Gr 7 Total"
## [23] "Gr 8 Total"
## [24] "Gr 9 Total"
## [25] "Gr 10 Total"
## [26] "Gr 11 Total"
## [27] "Gr 12 Total"

# Let's run one last string to be absolutely sure.

str(wazipMap$name)

## chr [1:295] "Aberdeen School District" "Adna School District" ...
str(FullData$`District Name`)

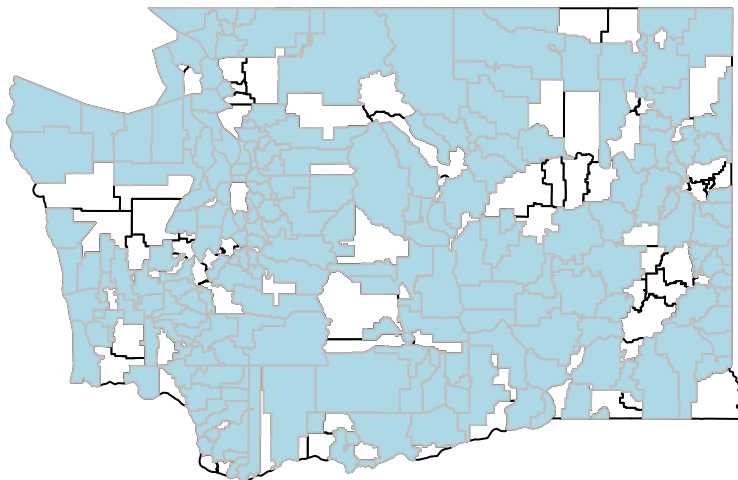
## chr [1:210] "Aberdeen School District" "Adna School District" ...
## Everything looks good. Now we merge the map file with the data file by District Name.

contribWAmapi=merge(wazipMap,FullData, by.x='name', by.y='District Name',all.x=F)

# I want to see the number of rows in the new map.
nrow(contribWAmapi)

## [1] 203
## Now we plot the map to see that we are representing missing data correctly.

plot(wazipMap,col='white')
plot(contribWAmapi,col='light blue',border='grey',add=T)
```



```
## We need to install the correct libraries.

library(RColorBrewer)
```

```

library(classInt)

## Next we assign the variable for plotting.

varToPlot=contribWAmap$`Adjusted 5-Year Cohort Graduation Rate`

numberOfClasses = 7
colorForScale='YlGnBu'
colors = brewer.pal(numberOfClasses, colorForScale)
intervals <- classIntervals(varToPlot, numberOfClasses,
                             style = "quantile",
                             dataPrecision=2)

## Warning in classIntervals(varToPlot, numberOfClasses, style = "quantile", :
## var has missing values, omitted in finding classes

colorPalette <- findColours(intervals, colors)

## This code is used to assign legend text, colors, and location.

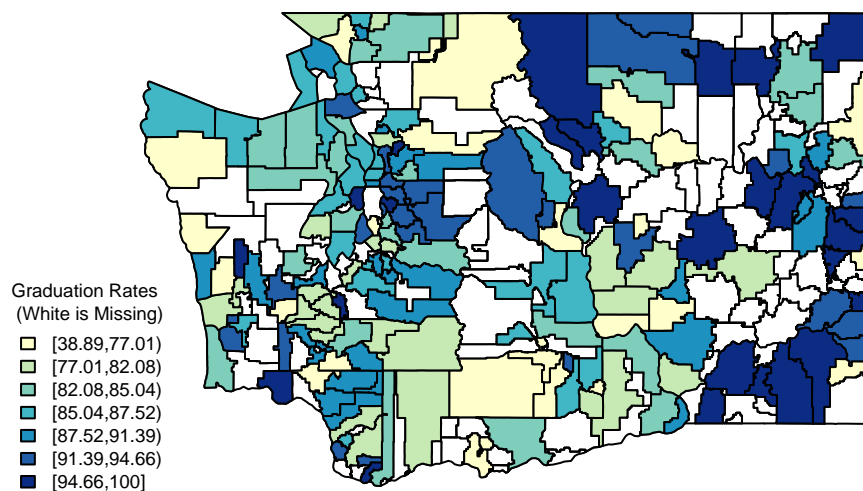
legendText="Graduation Rates \n (White is Missing)"
shrinkLegend=0.6
title="Graduation Rates Via School District in Washington State 2015"

plot(wazipMap,col='white',main=title)

# Second change: col = colors[varToPlot]
plot(contribWAmap, col = colorPalette,border='black',add=TRUE)
legend('bottomleft', legend = names(attr(colorPalette, "table")),
      fill = attr(colorPalette, "palette"), cex = shrinkLegend,
      bty = "n",
      title=legendText)

```

Graduation Rates Via School District in Washington State 2015



Now I want to see a map of Local Revenue. We create a new variable to plot. I also chose to change th

```
varToPlot2=contribWAmap$`Local Revenue`
```

```

numberOfClasses = 7
colorForScale='YlOrRd'
colors = brewer.pal(numberOfClasses, colorForScale)
intervals <- classIntervals(varToPlot2, numberOfClasses,
                             style = "quantile",
                             dataPrecision=2)
colorPalette <- findColours(intervals, colors)

legendText="Total Revenue \n (White is Missing)"
shrinkLegend=0.6
title="Local Revenue Via School District in Washington State 2015"

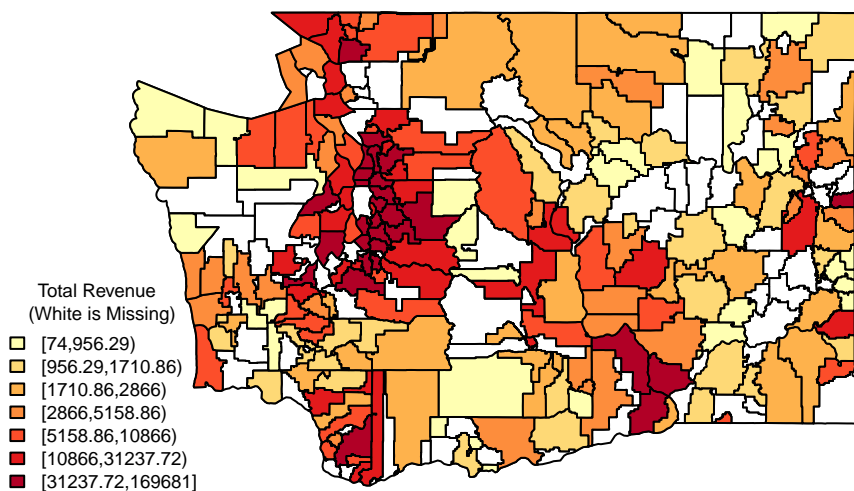
```

```

plot(wazipMap,col='white',main=title)
# second change: col = colors[varToPlot]
plot(contribWAmay, col = colorPalette,border='black',add=TRUE)
legend('bottomleft', legend = names(attr(colorPalette, "table")),
      fill = attr(colorPalette, "palette"), cex = shrinkLegend,
      bty = "n",
      title=legendText)

```

Local Revenue Via School District in Washington State 2015



Lastly, I wanted to see a map of Total Revenue. Again, we create a new variable, and rerun the map.

```

varToPlot3=contribWAmay$`Total Revenue`

numberOfClasses = 7
colorForScale='YlGnBu'
colors = brewer.pal(numberOfClasses, colorForScale)
intervals <- classIntervals(varToPlot3, numberOfClasses,
                             style = "quantile",
                             dataPrecision=2)
colorPalette <- findColours(intervals, colors)

legendText="Total Revenue \n (White is Missing)"
shrinkLegend=0.6

```

```
title="Total Revenue Via School District in Washington State 2015"
```

```
plot(wazipMap,col='white',main=title)
```

```
# second change: col = colors[varToPlot]
```

```
plot(contribWAmmap, col = colorPallette,border='black',add=TRUE)  
legend('bottomleft', legend = names(attr(colorPallette, "table")),  
      fill = attr(colorPallette, "palette"), cex = shrinkLegend,  
      bty = "n",  
      title=legendText)
```

Total Revenue Via School District in Washington State 2015

