MuS10

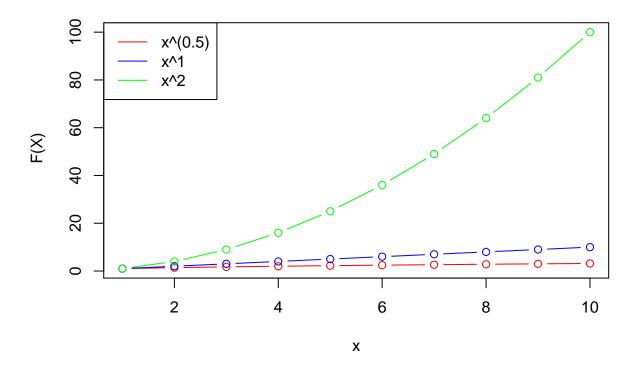
Tanja Hunsinger, Irene MÃ ¼ller-Benz
7 Januar 2018

Problem 10.1: Graphical presentation of data sets

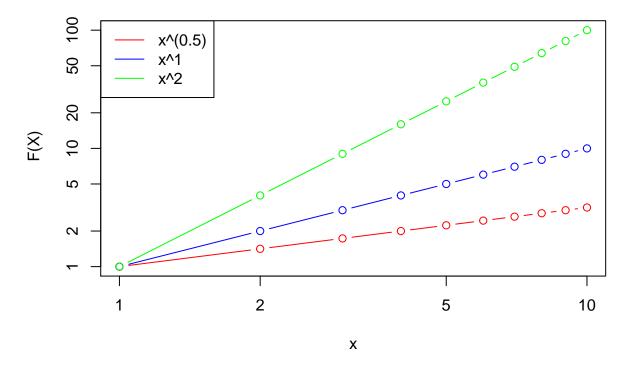
1. We define three functions $F_i(\mathbf{x}) = x^i$ by choosing $i \in 0.5; 1; 2$. Plot the three functions for $x: 1 <= x <= 10 und x \in \mathbb{Z}$ with a linear and a logarithmic scaling for both the x- and the y-axis in two different diagrams! Assign meaningful labels to the axes and the curves and explain the observed effects! [15 Points]

```
#Wertebereich x von 1 bis 10
x < -c(1:10)
#definintion der funtionen
function_1<-x^{(0.5)}
function_2<-x^1
function_3<-x^2
# plot linear scaling:
plot(range(x), range(floor(min(function_1,function_2,function_3)):
              ceiling(max(function_1,function_2,function_3))),
              type = "n", ylab = "F(X)", xlab = "x",
              main = "lineares caling")
lines(x, function_1, type = "b", col = "red")
lines(x, function_2, type = "b", col = "blue")
lines(x, function_3, type = "b", col = "green")
legend("topleft", legend = c("x^(0.5)", "x^1", "x^2"),
              col = c("red","blue","green"), lty = "solid")
```

lineares caling



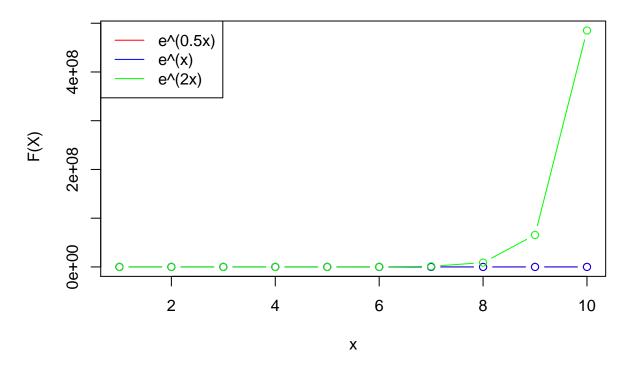
logarithmisches scaling



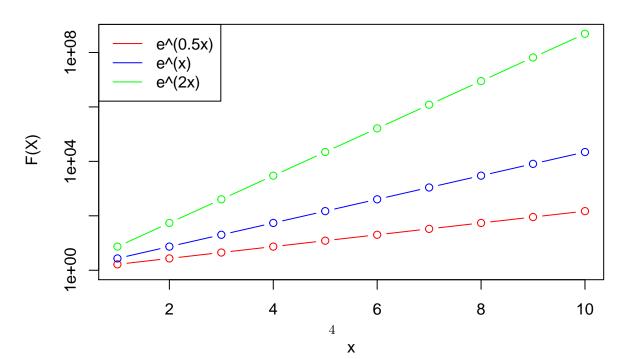
Vergleicht man die lineare mit der Logarithmischen Darstellung, so erkennt man, dass man mit der logarithmische Darstellung eine bessere Aussage über das Verhalten der Funktionen treffen kann. Da die logarithmische Darstellung vor allem dann hilfreich ist, wenn der Wertebereich der dargestellten Daten viele Größenordnungen umfasst. Durch die logarithmische Darstellung werden Zusammenhänge im Bereich der kleinen Werte besser überschaubar. Verschiedene mathematische Zusammenhänge können durch die logarithmische Darstellung somit erkennbar bzw. verdeutlicht werden.

2. We define three functions $F_i(x) = e^{i*x}$ by choosing $\mathbf{i} \in \{0.5; \ 1; \ 2\}$. Plot the three functions for $x: 1 <= x <= 10 und x \in \mathbb{Z}$ with a linear,linear and a linear,logarithmic scaling for the x- and the y-axis in two different diagrams! Assign meaningful labels to the axes and the curves and explain the observed effects! [15 Punkte]

x-Achse und y-Achse linear scaliert



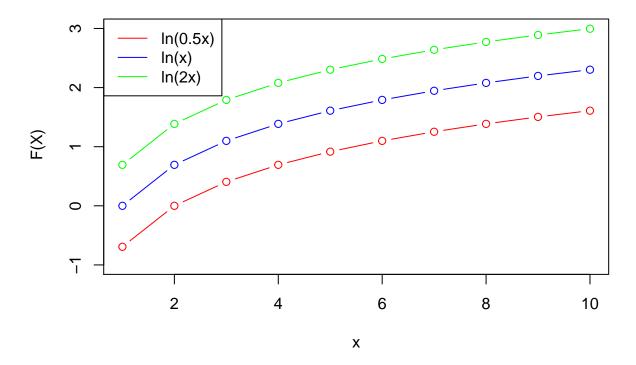
x-Achse linear und y-Achse logarithmisch scaliert



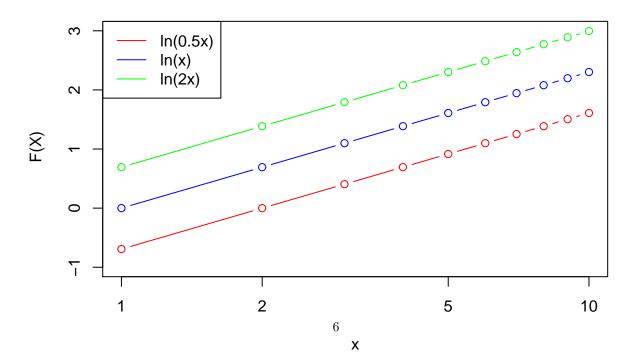
Auch hier ist deutlich zu erkennen, dass sich , wenn sowohl x als auch y-Achse linear skaliert sind, keine direkten Aussagen über das Verhalten der Funktionen machen lässt. Die rote und blaue Kurve überschneiden sich, sodass die ote nicht im Schaubild zu erkennen ist. Auch zu beginn überlagern sich die grüne, blaue und rote Kurve, sodass nur die grüne angezeigt wird. Logarithmiert man jetzt die y Achse, so werden besonders die kleinen Werte besser überschaubar, sodass alle Kurven gesondert betrachtet werden können ohne Überlagerungen, und somit lässt sich über jede Funktion (Kurve) Aussagen treffen.

3. We define three functions F_i (x) = $\ln(i^*x)$ by choosing $i \in \{0.5; 1; 2\}$. Plot the three functions for $x: 1 <= x <= 10 und x \in \mathbb{Z}$ with a linear, linear and a logarithmic, linear scaling for the x-and the y-axis in two different diagrams! Assign meaningful labels to the axes and the curves and explain the observed effects! [15 Points]

x-Achse und y-Achse linear scaliert



x-Achse logartithmisch und y-Achse linear scaliert



Da die Funktionen bereits durch das "ln" logaritmiert sind, zeigen beide Plots keine großen Unterschiede bzw Überlagerungen auf.

Problem 10.2: Data Analysis

The provided file US_States_Production.csv contains 816 regional observations describing capital productivity key figures in the Contiguous United States between 1970 and 1986, which were used as statistical base for two scientific publications in the ???eld of econometry. Each observation contains the following variables:

```
var0 the US state
var1 the year of the observation
var2 private capital
var3 highway and street capital
var4 water utility capital
var5 utility capital (other public buildings and structures)
var6 public capital
var7 gross state product
var8 employment
var9 unemployment rate
```

Perform a fundamental data analysis by following the steps below:

1. Import the data set! Choose appropriate labels for the columns and apply the changes to the data frame! [5 Points]

```
#import data
us_states_productions <- read.csv("US_States_Production.csv")
names(us_states_productions)[2] <- "state"
names(us_states_productions)[3] <- "year"
names(us_states_productions)[4] <- "privat_capital"
names(us_states_productions)[5] <- "street_capital"
names(us_states_productions)[6] <- "water_capital"
names(us_states_productions)[7] <- "utility_capital"
names(us_states_productions)[8] <- "public_capital"
names(us_states_productions)[9] <- "state_product"
names(us_states_productions)[10] <- "employment"
names(us_states_productions)[11] <- "unemployment_rate"
us_states_productions</pre>
```

```
## obsNr state year privat_capital street_capital water_capital ## 1 1 ALABAMA 1970 15032.67 7325.80 1655.68 ## 2 2 ALABAMA 1971 15501.94 7525.94 1721.02
```

| ## | 3 | 3 | ALABAMA | 1972 | 15972.41 | 7765.42 | 1764.75 |
|----------|----|------------------|----------------------|------|--------------------|--------------------|------------------|
| ## | 4 | 4 | ALABAMA | 1973 | 16406.26 | 7907.66 | 1742.41 |
| ## | 5 | 5 | ALABAMA | 1974 | 16762.67 | 8025.52 | 1734.85 |
| ## | 6 | 6 | ALABAMA | 1975 | 17316.26 | 8158.23 | 1752.27 |
| ## | 7 | 7 | ALABAMA | 1976 | 17732.86 | 8228.19 | 1799.74 |
| ## | 8 | 8 | ALABAMA | 1977 | 18111.93 | 8365.67 | 1845.11 |
| ## | 9 | 9 | ALABAMA | 1978 | 18479.74 | 8510.64 | 1960.51 |
| ## | 10 | 10 | ALABAMA | 1979 | 18881.49 | 8640.61 | 2081.91 |
| ## | 11 | 11 | ALABAMA | 1980 | 19012.34 | 8663.50 | 2138.52 |
| ## | 12 | 12 | ALABAMA | 1981 | 19118.52 | 8628.83 | 2218.91 |
| ## | 13 | 13 | ALABAMA | 1982 | 19118.25 | 8645.14 | 2215.84 |
| ## | 14 | 14 | ALABAMA | 1983 | 19122.00 | 8612.47 | 2230.91 |
| ## | 15 | 15 | ALABAMA | 1984 | 19257.47 | 8655.94 | 2235.16 |
| ## | 16 | 16 | ALABAMA | 1985 | 19433.36 | 8726.24 | 2253.03 |
| ## | | 17 | ALABAMA | | 19723.37 | 8813.24 | 2308.99 |
| ## | 18 | 18 | ARIZONA | | 10148.42 | 4556.81 | 1627.87 |
| | 19 | 19 | ARIZONA | | 10560.54 | 4701.97 | 1627.34 |
| ## | | 20 | ARIZONA | | 10977.53 | 4847.84 | 1614.58 |
| ## | | 21 | ARIZONA | | 11598.26 | 4963.46 | 1647.88 |
| ## | | 22 | ARIZONA | | 12129.06 | 5071.38 | 1678.00 |
| ## | | 23 | ARIZONA | | 12929.06 | 5163.41 | 1764.87 |
| ## | | 24 | ARIZONA | | 13603.89 | 5249.82 | 1910.43 |
| ## | | 25 | ARIZONA | | 14175.42 | 5358.45 | 1973.48 |
| ## | | 26 | ARIZONA | | 14812.04 | 5470.00 | 2038.30 |
| ## | | 27 | ARIZONA | | 15547.62 | 5603.12 | 2132.49 |
| ## | | 28 | ARIZONA | | 16344.90 | 5720.38 | 2165.64 |
| ## | | 29 | ARIZONA | | 17088.30 | 5816.05 | 2265.42 |
| | 30 | 30 | ARIZONA | | 17650.57 | 5918.50 | 2377.20 |
| ## | | 31 | ARIZONA | | 18108.24 | 6019.87 | 2513.38 |
| ## | | 32 | ARIZONA | | 18792.09 | 6101.45 | 2574.78 |
| ## | | 33 | ARIZONA | | 19414.85 | 6282.51 | 2737.37 |
| ## | | 34 | ARIZONA | | 20212.42 | 6553.40 | 2923.15 |
| ## ## | 36 | 35 36 | ARKANSAS ARKANSAS | | 7613.26 7982.03 | 3647.73 3686.95 | 644.99 651.63 |
| ## | | 36 37 | ARKANSAS | | 8309.01 | 3780.05 | 668.50 |
| | 38 | 3 <i>1</i> 38 | ARKANSAS | | 8399.59 | 3894.77 | 691.76 |
| ## | | 39 | ARKANSAS | | 8512.05 | 3985.99 | 726.62 |
| ## | | 40 | ARKANSAS | | 8651.26 | 4051.66 | 742.50 |
| ## | | 41 | ARKANSAS | | 8921.91 | 4185.40 | 761.38 |
| ## | | 42 | ARKANSAS | | 9234.85 | 4316.52 | 793.54 |
| ## | | 43 | ARKANSAS | | 9374.54 | 4405.68 | 821.01 |
| ## | | 44 | ARKANSAS | | 9554.83 | 4483.21 | 859.23 |
| ## | | 45 | ARKANSAS | | 9705.24 | 4531.36 | 890.41 |
| ## | | 46 | ARKANSAS | | 9872.87 | 4608.72 | 916.68 |
| ## | | 47 | ARKANSAS | | 9919.35 | 4681.50 | 905.92 |
| ## | | 48 | ARKANSAS | | 9861.76 | 4662.68 | 934.14 |
| ## | | 49 | ARKANSAS | | 9754.55 | 4654.37 | 934.60 |
| ## | | 50 | ARKANSAS | | 9675.47 | 4639.30 | 947.04 |
| ## | | 51 | ARKANSAS | | 9787.20 | 4652.71 | 960.66 |
| ## | | 52 | CALIFORNIA | | 128545.36 | 42961.31 | 17837.26 |
| ## | | 53 | CALIFORNIA | | 132263.33 | 44768.37 | 18448.04 |
| ## | | 54 | CALIFORNIA | | 134451.52 | 46045.52 | 18813.82 |
| ## | | 55 | CALIFORNIA | | 135988.40 | 47064.46 | 19084.52 |
| ## | 56 | 56 | CALIFORNIA | | 136827.29 | 47572.52 | 19092.78 |
| | | | | | | | |

| ## | 57 | 57 | CALIFORNIA | 1975 | 138487.39 | 47699.42 | 19654.53 |
|----------|-----|----------|-------------------------|------|----------------------|--------------------|--------------------|
| ## | | 58 | CALIFORNIA | | 139514.18 | 47568.65 | 20346.64 |
| | 59 | 59 | CALIFORNIA | | 139910.22 | 47137.99 | 21014.45 |
| | 60 | 60 | CALIFORNIA | | 139408.84 | 46472.40 | 21556.85 |
| ## | | 61 | CALIFORNIA | | 140217.32 | 46132.47 | 22297.31 |
| | 62 | 62 | CALIFORNIA | | 139776.97 | 45597.88 | 22925.93 |
| ## | | 63 | CALIFORNIA | | 139662.44 | 45042.91 | 23291.36 |
| ## | | 64 | CALIFORNIA | | 139232.39 | 44490.48 | 23502.43 |
| ## | 65 | 65 | CALIFORNIA | 1983 | 138535.66 | 44027.17 | 23828.67 |
| ## | 66 | 66 | CALIFORNIA | 1984 | 138101.55 | 43826.52 | 23841.32 |
| ## | 67 | 67 | CALIFORNIA | 1985 | 138170.93 | 43566.26 | 24121.33 |
| ## | 68 | 68 | CALIFORNIA | 1986 | 139042.68 | 43350.54 | 24592.33 |
| ## | 69 | 69 | COLORADO | 1970 | 11402.52 | 4403.21 | 2165.03 |
| ## | 70 | 70 | COLORADO | 1971 | 11682.06 | 4535.52 | 2166.21 |
| ## | 71 | 71 | COLORADO | 1972 | 12010.91 | 4757.59 | 2133.49 |
| ## | 72 | 72 | COLORADO | 1973 | 12473.28 | 4982.21 | 2206.43 |
| ## | 73 | 73 | COLORADO | 1974 | 12964.14 | 5143.73 | 2312.49 |
| ## | 74 | 74 | COLORADO | 1975 | 13483.92 | 5223.11 | 2464.28 |
| ## | 75 | 75 | COLORADO | 1976 | 14090.24 | 5318.10 | 2617.61 |
| ## | 76 | 76 | COLORADO | 1977 | 14736.89 | 5463.79 | 2747.31 |
| ## | 77 | 77 | COLORADO | 1978 | 15240.49 | 5598.49 | 2887.92 |
| ## | 78 | 78 | COLORADO | 1979 | 15711.11 | 5705.99 | 3078.37 |
| ## | 79 | 79 | COLORADO | 1980 | 16272.57 | 5766.89 | 3274.49 |
| ## | 80 | 80 | COLORADO | 1981 | 16692.71 | 5820.52 | 3564.34 |
| ## | 81 | 81 | COLORADO | 1982 | 17027.51 | 5846.02 | 3719.04 |
| ## | 82 | 82 | COLORADO | 1983 | 17388.99 | 5877.85 | 3898.86 |
| ## | | 83 | COLORADO | | 17785.25 | 5942.80 | 4000.29 |
| ## | | 84 | COLORADO | | 18327.11 | 6057.50 | 4153.07 |
| ## | | 85 | COLORADO | | 18889.54 | 6148.80 | 4340.24 |
| ## | | 86 | CONNECTICUT | | 15865.66 | 7237.14 | 2208.10 |
| ## | | 87 | CONNECTICUT | | 16559.99 | 7312.24 | 2406.84 |
| ## | | 88 | CONNECTICUT | | 17346.79 | 7407.46 | 2642.54 |
| ## | | 89 | CONNECTICUT | | 17803.12 | 7492.12 | 2741.16 |
| ## | | 90 | CONNECTICUT | | 18225.20 | 7550.75 | 2881.00 |
| ## | | 91 | CONNECTICUT | | 18686.78 | 7585.56 | 3027.33 |
| | 92 | 92 | CONNECTICUT | | 18871.06 | 7587.34 | 3104.13 |
| ## | | 93 | CONNECTICUT | | 18798.54 | 7501.72 | 3166.91 |
| ## ## | | 94 95 | CONNECTICUT CONNECTICUT | | 18566.24 18487.06 | 7352.08 7274.07 | 3194.03 3294.94 |
| ## | | 96 | CONNECTICUT | | 18385.98 | 7192.00 | 3387.26 |
| ## | | 97 | CONNECTICUT | | 18271.34 | 7103.85 | 3396.82 |
| ## | | 98 | CONNECTICUT | | 18030.08 | 7017.05 | 3371.93 |
| ## | | 99 | CONNECTICUT | | 17739.88 | 6959.31 | 3332.92 |
| | 100 | 100 | CONNECTICUT | | 17494.36 | 6890.73 | 3300.44 |
| | 101 | 101 | CONNECTICUT | | 17317.13 | 6861.64 | 3313.05 |
| | 102 | 102 | CONNECTICUT | | 17290.61 | 6878.14 | 3314.55 |
| | 103 | 103 | DELAWARE | | 4250.95 | 2078.95 | 234.23 |
| ## | 104 | 104 | DELAWARE | 1971 | 4405.91 | 2076.73 | 230.51 |
| ## | 105 | 105 | DELAWARE | 1972 | 4560.71 | 2105.30 | 233.59 |
| ## | 106 | 106 | DELAWARE | 1973 | 4725.12 | 2125.88 | 283.84 |
| ## | 107 | 107 | DELAWARE | 1974 | 4927.52 | 2195.49 | 324.32 |
| ## | 108 | 108 | DELAWARE | 1975 | 4988.37 | 2197.46 | 349.68 |
| | 109 | 109 | DELAWARE | | 4959.87 | 2161.42 | 358.60 |
| ## | 110 | 110 | DELAWARE | 1977 | 4958.47 | 2158.95 | 400.11 |

| | 111 | 111 | DELAWARE | | 4954.21 | 2134.89 | 440.95 |
|----|-----|-----|----------|------|----------|----------|---------|
| | 112 | 112 | DELAWARE | | 4936.91 | 2103.91 | 482.11 |
| | 113 | 113 | DELAWARE | | 4868.74 | 2071.23 | 488.36 |
| | 114 | 114 | DELAWARE | | 4825.97 | 2050.14 | 491.43 |
| | 115 | 115 | DELAWARE | | 4786.37 | 2038.78 | 487.77 |
| | 116 | 116 | DELAWARE | | 4768.17 | 2029.77 | 482.47 |
| | 117 | 117 | DELAWARE | | 4743.86 | 2037.26 | 483.30 |
| | 118 | 118 | DELAWARE | | 4731.49 | 2043.62 | 490.68 |
| | 119 | 119 | DELAWARE | | 4716.73 | 2052.16 | 492.03 |
| | 120 | 120 | FLORIDA | | 29696.86 | 12622.30 | 4174.89 |
| | 121 | 121 | FLORIDA | | 30683.09 | 12873.62 | 4282.97 |
| | 122 | 122 | FLORIDA | | 32089.12 | 13424.21 | 4318.05 |
| | 123 | 123 | FLORIDA | | 33480.99 | 13999.70 | 4268.38 |
| | 124 | 124 | FLORIDA | | 34650.29 | 14586.91 | 4281.73 |
| | 125 | 125 | FLORIDA | | 36103.75 | 15075.13 | 4446.11 |
| | 126 | 126 | FLORIDA | | 37942.61 | 15538.54 | 4726.01 |
| | 127 | 127 | FLORIDA | | 39393.89 | 15790.70 | 5404.47 |
| | 128 | 128 | FLORIDA | | 40859.40 | 15985.09 | 6123.84 |
| | 129 | 129 | FLORIDA | | 42107.13 | 16220.82 | 6625.71 |
| | 130 | 130 | FLORIDA | | 43192.98 | 16457.76 | 6998.35 |
| | 131 | 131 | FLORIDA | | 44311.68 | 16724.87 | 7430.67 |
| | 132 | 132 | FLORIDA | | 45492.00 | 16952.95 | 7814.59 |
| | 133 | 133 | FLORIDA | | 47116.82 | 17282.36 | 8183.58 |
| | 134 | 134 | FLORIDA | | 48538.98 | 17597.76 | 8483.89 |
| | 135 | 135 | FLORIDA | | 50336.63 | 17888.08 | 8767.52 |
| | 136 | 136 | FLORIDA | | 52309.37 | 18290.06 | 9172.05 |
| | 137 | 137 | GEORGIA | | 18270.44 | 7999.19 | 2092.77 |
| | 138 | 138 | GEORGIA | | 19275.62 | 8213.17 | 2148.43 |
| | 139 | 139 | GEORGIA | | 20167.45 | 8433.38 | 2165.53 |
| | 140 | 140 | GEORGIA | | 21015.05 | 8676.01 | 2267.56 |
| | 141 | 141 | GEORGIA | | 21882.27 | 9004.13 | 2519.94 |
| | 142 | 142 | GEORGIA | | 22713.54 | 9192.85 | 2797.47 |
| | 143 | 143 | GEORGIA | | 23556.37 | 9445.52 | 3029.37 |
| | 144 | 144 | GEORGIA | | 24124.15 | 9623.51 | 3177.03 |
| | 145 | 145 | GEORGIA | | 24622.13 | 9745.86 | 3240.48 |
| | 146 | 146 | GEORGIA | | 25631.20 | 10054.77 | 3347.57 |
| | 147 | 147 | GEORGIA | | 26685.37 | 10289.71 | 3461.48 |
| | 148 | 148 | GEORGIA | | 27546.85 | 10501.58 | 3574.39 |
| | 149 | 149 | GEORGIA | | 28209.03 | 10620.04 | 3669.58 |
| | 150 | 150 | GEORGIA | | 28996.86 | 10985.78 | 3808.70 |
| | 151 | 151 | GEORGIA | | 29702.75 | 11236.24 | 3896.84 |
| | 152 | 152 | GEORGIA | | 30068.26 | 11292.92 | 3926.96 |
| | 153 | 153 | GEORGIA | | 30991.33 | 11563.64 | 4024.23 |
| | 154 | 154 | IDAHO | | 3410.22 | 2193.99 | 267.56 |
| | 155 | 155 | IDAHO | | 3579.67 | 2276.68 | 256.47 |
| | 156 | 156 | IDAHO | | 3676.22 | 2353.72 | 247.87 |
| | 157 | 157 | IDAHO | | 3737.66 | 2399.18 | 236.98 |
| | 158 | 158 | IDAHO | | 3813.94 | 2467.04 | 228.46 |
| | 159 | 159 | IDAHO | | 3942.37 | 2531.40 | 229.86 |
| | 160 | 160 | IDAHO | | 4105.58 | 2563.07 | 249.94 |
| | 161 | 161 | IDAHO | | 4255.84 | 2606.65 | 271.88 |
| | 162 | 162 | IDAHO | | 4398.05 | 2674.18 | 289.18 |
| | 163 | 163 | IDAHO | | 4522.19 | 2724.98 | 298.74 |
| ## | 164 | 164 | IDAHO | 1980 | 4605.70 | 2740.64 | 324.21 |

| | 165 | 165 | IDAHO | | 4667.31 | 2753.25 | 337.06 |
|----|-----|-----|----------|------|----------|----------|----------|
| | 166 | 166 | IDAHO | | 4699.95 | 2749.25 | 347.34 |
| | 167 | 167 | IDAHO | | 4710.03 | 2756.72 | 359.68 |
| | 168 | 168 | IDAHO | | 4769.76 | 2794.78 | 376.04 |
| | 169 | 169 | IDAHO | | 4819.32 | 2838.03 | 382.94 |
| | 170 | 170 | IDAHO | | 4890.92 | 2886.07 | 406.41 |
| | 171 | 171 | ILLINOIS | | 52197.49 | 23582.87 | 6361.94 |
| | 172 | 172 | ILLINOIS | | 53805.62 | 23841.66 | 6579.10 |
| | 173 | 173 | ILLINOIS | | 55540.36 | 24602.76 | 6675.74 |
| | 174 | 174 | ILLINOIS | | 57288.30 | 25448.17 | 6807.99 |
| | 175 | 175 | ILLINOIS | | 58984.18 | 25806.09 | 7107.00 |
| | 176 | 176 | ILLINOIS | | 60139.25 | 26068.87 | 7342.22 |
| | 177 | 177 | ILLINOIS | | 61104.40 | 26325.26 | 7522.85 |
| | 178 | 178 | ILLINOIS | | 62200.83 | 26835.52 | 7669.60 |
| | 179 | 179 | ILLINOIS | | 63096.48 | 27300.22 | 8004.98 |
| | 180 | 180 | ILLINOIS | | 63642.81 | 27247.22 | 8491.35 |
| | 181 | 181 | ILLINOIS | | 64003.03 | 27237.54 | 9047.41 |
| | 182 | 182 | ILLINOIS | | 64549.30 | 27406.33 | 9523.64 |
| | 183 | 183 | ILLINOIS | | 65064.20 | 27568.50 | 10218.00 |
| | 184 | 184 | ILLINOIS | | 64751.99 | 27483.00 | 10436.04 |
| | 185 | 185 | ILLINOIS | | 64460.25 | 27590.53 | 10485.73 |
| | 186 | 186 | ILLINOIS | | 64487.38 | 27811.57 | 10532.95 |
| | 187 | 187 | ILLINOIS | | 64726.05 | 28101.57 | 10577.77 |
| | 188 | 188 | INDIANA | | 20813.65 | 8904.96 | 2814.86 |
| | 189 | 189 | INDIANA | | 21665.60 | 9140.25 | 2919.60 |
| | 190 | 190 | INDIANA | | 22368.04 | 9391.29 | 2929.94 |
| | 191 | 191 | INDIANA | | 23230.94 | 9696.29 | 2947.49 |
| | 192 | 192 | INDIANA | | 23652.30 | 9913.98 | 2918.14 |
| | 193 | 193 | INDIANA | | 23945.55 | 10038.12 | 2932.54 |
| | 194 | 194 | INDIANA | | 24259.12 | 10178.36 | 3017.66 |
| | 195 | 195 | INDIANA | | 24506.31 | 10409.08 | 3014.11 |
| | 196 | 196 | INDIANA | | 24639.62 | 10518.94 | 3026.38 |
| | 197 | 197 | INDIANA | | 24744.99 | 10536.00 | 3082.76 |
| | 198 | 198 | INDIANA | | 24799.68 | 10574.03 | 3142.24 |
| | 199 | 199 | INDIANA | | 24976.64 | 10619.58 | 3210.15 |
| ## | 200 | 200 | INDIANA | | 25108.79 | 10618.71 | 3297.40 |
| | 201 | 201 | INDIANA | | 24983.98 | 10558.11 | 3284.13 |
| | 202 | 202 | INDIANA | | 24835.60 | 10481.99 | 3311.04 |
| | 203 | 203 | INDIANA | | 24905.94 | 10532.65 | 3376.20 |
| | 204 | 204 | INDIANA | | 24924.85 | 10567.20 | 3377.17 |
| | 205 | 205 | AWOI | | 14728.51 | 8684.87 | 1377.50 |
| | 206 | 206 | IOWA | | 15311.03 | 8926.99 | 1451.36 |
| | 207 | 207 | IOWA | | 15657.48 | 9144.08 | 1508.06 |
| | 208 | 208 | AWOI | | 16006.47 | 9424.40 | 1508.45 |
| | 209 | 209 | AWOI | | 16159.20 | 9571.66 | 1518.00 |
| | 210 | 210 | AWOI | | 16414.32 | 9677.48 | 1567.76 |
| | 211 | 211 | AWOI | | 16766.52 | 9770.03 | 1682.16 |
| | 212 | 212 | AWOI | | 17166.76 | 9948.06 | 1822.71 |
| | 213 | 213 | AWOI | | 17407.43 | 10038.99 | 1972.05 |
| | 214 | 214 | AWOI | | 17722.68 | 10112.22 | 2114.49 |
| | 215 | 215 | AWOI | | 17928.92 | 10183.36 | 2148.16 |
| | 216 | 216 | AWOI | | 18050.52 | 10188.72 | 2154.55 |
| | 217 | 217 | AWOI | | 18141.76 | 10187.89 | 2132.80 |
| ## | 218 | 218 | IOWA | 1983 | 18240.50 | 10187.06 | 2184.02 |

| ## | 219 | 219 | IOWA | 1984 | 18203.48 | 10197.84 | 2252.53 |
|----|-----|-----|-----------|------|----------------------|----------|---------|
| | 220 | 220 | IOWA | | 18288.61 | 10286.39 | 2319.88 |
| | 221 | 221 | IOWA | | 18436.18 | 10397.50 | 2393.84 |
| | 222 | 222 | KANSAS | | 11115.57 | 5988.83 | 1449.42 |
| | 223 | 223 | KANSAS | | 11595.03 | 6098.10 | 1515.59 |
| | 224 | 224 | KANSAS | | 11854.06 | 6226.46 | 1527.80 |
| | 225 | 225 | KANSAS | | 12137.40 | 6368.52 | 1513.71 |
| | 226 | 226 | KANSAS | | 12412.46 | 6488.52 | 1542.50 |
| | 227 | 227 | KANSAS | | 12792.34 | 6542.80 | 1599.35 |
| | 228 | 228 | KANSAS | | 13023.89 | 6628.42 | 1632.99 |
| | 229 | 229 | KANSAS | | 13386.60 | 6753.55 | 1691.70 |
| | 230 | 230 | KANSAS | | 13726.24 | 6830.98 | 1757.29 |
| | 231 | | | | | | |
| | 232 | 231 | KANSAS | | 14157.68 14479.94 | 6863.58 | 1838.20 |
| | | 232 | KANSAS | | | 6919.83 | 1889.43 |
| | 233 | 233 | KANSAS | | 14855.02 | 7018.71 | 1953.03 |
| | 234 | 234 | KANSAS | | 15082.15 | 7104.16 | 2018.15 |
| | 235 | 235 | KANSAS | | 15062.88 | 7150.68 | 2053.86 |
| | 236 | 236 | KANSAS | | 15116.06 | 7177.68 | 2121.44 |
| | 237 | 237 | KANSAS | | 15145.49 | 7222.85 | 2181.94 |
| | 238 | 238 | KANSAS | | 15216.66 | 7310.79 | 2232.58 |
| | 239 | 239 | KENTUCKY | | 16035.09 | 9021.31 | 1706.76 |
| | 240 | 240 | KENTUCKY | | 16706.92 | 9280.45 | 1711.30 |
| | 241 | 241 | KENTUCKY | | 17169.23 | 9606.59 | 1708.68 |
| | 242 | 242 | KENTUCKY | | 17697.13 | 10008.41 | 1723.18 |
| | 243 | 243 | KENTUCKY | | 18263.75 | 10372.71 | 1773.45 |
| | 244 | 244 | KENTUCKY | | 18624.45 | 10505.77 | 1906.71 |
| | 245 | 245 | KENTUCKY | | 18945.26 | 10588.00 | 2019.97 |
| | 246 | 246 | KENTUCKY | | 19294.60 | 10701.70 | 2124.99 |
| | 247 | 247 | KENTUCKY | | 19572.86 | 10809.85 | 2169.76 |
| | 248 | 248 | KENTUCKY | | 19948.68 | 11017.87 | 2246.22 |
| | 249 | 249 | KENTUCKY | | 20585.01 | 11367.36 | 2363.19 |
| | 250 | 250 | KENTUCKY | | 21116.39 | 11721.16 | 2400.49 |
| | 251 | 251 | KENTUCKY | | 21308.34 | 11933.89 | 2390.23 |
| | 252 | 252 | KENTUCKY | 1983 | 21162.34 | 12008.09 | 2365.05 |
| | 253 | 253 | KENTUCKY | | 21032.34 | 12056.30 | 2350.25 |
| | 254 | 254 | KENTUCKY | 1985 | 21052.49 | 12171.63 | 2355.38 |
| ## | 255 | 255 | KENTUCKY | 1986 | 20959.34 | 12139.07 | 2338.37 |
| ## | 256 | 256 | LOUISIANA | | 19638.31 | 9891.38 | 2660.82 |
| ## | 257 | 257 | LOUISIANA | 1971 | 20066.64 | 10162.65 | 2734.98 |
| ## | 258 | 258 | LOUISIANA | 1972 | 20887.68 | 10392.20 | 2770.17 |
| ## | 259 | 259 | LOUISIANA | 1973 | 21408.20 | 10606.21 | 2733.22 |
| ## | 260 | 260 | LOUISIANA | 1974 | 21787.15 | 10805.89 | 2713.92 |
| ## | 261 | 261 | LOUISIANA | 1975 | 22175.86 | 10983.60 | 2721.50 |
| ## | 262 | 262 | LOUISIANA | 1976 | 22682.17 | 11273.56 | 2819.43 |
| ## | 263 | 263 | LOUISIANA | 1977 | 23389.41 | 11634.15 | 2937.22 |
| ## | 264 | 264 | LOUISIANA | 1978 | 24102.46 | 11981.51 | 3051.01 |
| ## | 265 | 265 | LOUISIANA | 1979 | 24446.12 | 12128.07 | 3108.48 |
| ## | 266 | 266 | LOUISIANA | 1980 | 24568.45 | 12107.67 | 3093.48 |
| ## | 267 | 267 | LOUISIANA | 1981 | 24789.76 | 12157.90 | 3067.08 |
| ## | 268 | 268 | LOUISIANA | 1982 | 25087.00 | 12262.86 | 3102.91 |
| ## | 269 | 269 | LOUISIANA | 1983 | 25422.96 | 12448.15 | 3123.98 |
| ## | 270 | 270 | LOUISIANA | 1984 | 25932.73 | 12825.32 | 3144.81 |
| ## | 271 | 271 | LOUISIANA | 1985 | 26477.79 | 13131.09 | 3213.47 |
| ## | 272 | 272 | LOUISIANA | 1986 | 26617.47 | 13271.71 | 3275.03 |
| | | | | | | | |

| ## | 273 | 273 | MAINE | 1970 | 3868.87 | 2206.79 | 482.69 |
|----|------------|------------|----------------------|------|----------------------|--------------------|--------------------|
| ## | 274 | 274 | MAINE | 1971 | 3999.86 | 2256.43 | 494.98 |
| ## | 275 | 275 | MAINE | 1972 | 4167.61 | 2335.08 | 505.60 |
| ## | 276 | 276 | MAINE | 1973 | 4272.26 | 2427.57 | 515.68 |
| ## | 277 | 277 | MAINE | 1974 | 4394.33 | 2485.16 | 549.75 |
| ## | 278 | 278 | MAINE | 1975 | 4529.86 | 2515.26 | 579.48 |
| ## | 279 | 279 | MAINE | 1976 | 4593.66 | 2518.41 | 610.57 |
| ## | 280 | 280 | MAINE | 1977 | 4662.84 | 2521.78 | 673.27 |
| | 281 | 281 | MAINE | 1978 | 4813.68 | 2531.39 | 862.79 |
| | 282 | 282 | MAINE | 1979 | 4931.13 | 2541.84 | 983.92 |
| | 283 | 283 | MAINE | 1980 | 4991.87 | 2553.75 | 1023.49 |
| ## | 284 | 284 | MAINE | 1981 | 5009.05 | 2559.10 | 1040.72 |
| ## | 285 | 285 | MAINE | 1982 | 4976.60 | 2536.96 | 1032.93 |
| ## | 286 | 286 | MAINE | 1983 | 4952.99 | 2540.19 | 1023.46 |
| ## | 287 | 287 | MAINE | | 4941.74 | 2536.66 | 1017.56 |
| ## | 288 | 288 | MAINE | | 4942.55 | 2526.87 | 1037.07 |
| ## | 289 | 289 | MAINE | | 4939.70 | 2535.26 | 1044.48 |
| | 290 | 290 | MARYLAND | | 19145.01 | 7466.91 | 4107.45 |
| | 291 | 291 | MARYLAND | | 20023.61 | 7761.21 | 4151.61 |
| | 292 | 292 | MARYLAND | | 21126.69 | 8191.56 | 4165.89 |
| | 293 | 293 | MARYLAND | | 22060.79 | 8386.45 | 4296.63 |
| | 294 | 294 | MARYLAND | | 23017.84 | 8733.95 | 4422.23 |
| | 295 | 295 | MARYLAND | | 24189.50 | 9088.64 | 4637.77 |
| | 296 | 296 | MARYLAND | | 25322.85 | 9328.20 | 4974.62 |
| | 297 | 297 | MARYLAND | | 26238.15 | 9610.83 | 5189.16 |
| ## | 298 299 | 298 299 | MARYLAND MARYLAND | | 26910.22 27644.44 | 9813.67 9951.82 | 5266.61 5454.99 |
| ## | 300 | 300 | MARYLAND | | 28081.96 | 10018.00 | 5557.20 |
| ## | 301 | 301 | MARYLAND | | 28715.84 | 10118.32 | 5713.03 |
| ## | 302 | 301 | MARYLAND | | 28850.43 | 10110.32 | 5787.90 |
| ## | 303 | 303 | MARYLAND | | 29101.83 | 10461.03 | 5776.88 |
| ## | 304 | 304 | MARYLAND | | 29214.12 | 10668.97 | 5683.73 |
| ## | 305 | 305 | MARYLAND | | 29451.52 | 10845.28 | 5946.06 |
| ## | 306 | 306 | MARYLAND | | 29577.46 | 10983.19 | 5892.33 |
| | 307 | 307 | MASSACHUSETTS | | 21923.28 | 8541.89 | 2240.20 |
| ## | 308 | 308 | MASSACHUSETTS | | 23177.83 | 8871.26 | 2363.06 |
| ## | 309 | 309 | MASSACHUSETTS | | 24385.09 | 9022.56 | 2540.81 |
| ## | 310 | 310 | MASSACHUSETTS | 1973 | 25765.21 | 9033.16 | 2755.10 |
| ## | 311 | 311 | MASSACHUSETTS | | 27100.33 | 9074.66 | 2863.37 |
| ## | 312 | 312 | MASSACHUSETTS | 1975 | 28204.28 | 9114.56 | 2980.54 |
| ## | 313 | 313 | MASSACHUSETTS | 1976 | 28752.82 | 9101.40 | 3198.66 |
| ## | 314 | 314 | MASSACHUSETTS | 1977 | 29171.97 | 9098.10 | 3366.41 |
| ## | 315 | 315 | MASSACHUSETTS | 1978 | 29202.12 | 9123.64 | 3466.10 |
| ## | 316 | 316 | MASSACHUSETTS | 1979 | 29455.50 | 9169.85 | 3718.09 |
| ## | 317 | 317 | MASSACHUSETTS | 1980 | 29999.21 | 9146.15 | 4015.43 |
| ## | 318 | 318 | MASSACHUSETTS | 1981 | 30166.12 | 9094.17 | 4216.05 |
| ## | 319 | 319 | MASSACHUSETTS | 1982 | 30190.87 | 9076.55 | 4277.85 |
| ## | 320 | 320 | MASSACHUSETTS | 1983 | 30221.77 | 9034.17 | 4320.64 |
| ## | 321 | 321 | MASSACHUSETTS | 1984 | 30352.69 | 9031.48 | 4381.02 |
| ## | 322 | 322 | MASSACHUSETTS | 1985 | 30497.51 | 9004.18 | 4451.55 |
| | 323 | 323 | MASSACHUSETTS | | 30795.56 | 8984.76 | 4558.94 |
| | 324 | 324 | MICHIGAN | | 44684.82 | 17924.92 | 8380.48 |
| | 325 | 325 | MICHIGAN | | 45993.77 | 18238.74 | 8564.69 |
| ## | 326 | 326 | MICHIGAN | 1972 | 46772.91 | 18423.57 | 8947.32 |

| ## | 327 | 327 | MICHIGAN | 1973 | 47923.55 | 18834.46 | 9556.35 |
|----|------------|------------------------|----------------------------|------|----------------------|----------------------|--------------------|
| | 328 | 328 | MICHIGAN | | 48793.43 | 19160.95 | 9887.32 |
| ## | 329 | 329 | MICHIGAN | | 49789.59 | 19397.17 | 10081.01 |
| ## | 330 | 330 | MICHIGAN | | 50687.49 | 19591.79 | 10233.82 |
| ## | 331 | 331 | MICHIGAN | | 51302.34 | 19800.72 | 10369.21 |
| ## | 332 | 332 | MICHIGAN | | 51494.34 | 19980.26 | 10350.29 |
| ## | 333 | 333 | MICHIGAN | | 51707.36 | 20002.83 | 10486.26 |
| ## | 334 | 334 | MICHIGAN | | 51922.35 | 19996.38 | 10440.20 |
| ## | 335 | 335 | MICHIGAN | | 52276.40 | 20024.11 | 10900.24 |
| ## | 336 | 336 | MICHIGAN | | 51955.88 | 19881.31 | 10758.53 |
| ## | 337 | 337 | MICHIGAN | | 51305.62 | 19714.51 | 10578.52 |
| | 338 | 338 | MICHIGAN | | 50724.55 | 19505.44 | 10584.32 |
| | 339 | 339 | MICHIGAN | | 50392.79 | 19397.92 | 10390.41 |
| | 340 | 340 | MICHIGAN | | 49879.29 | 19397.92 | 10178.05 |
| | 341 | 341 | MINNESOTA | | 21948.43 | 10284.33 | 3682.74 |
| | 342 | 342 | MINNESOTA | | 23056.36 | 10735.90 | 3740.41 |
| | 343 | 343 | MINNESOTA | | 24023.53 | 11014.64 | 3790.75 |
| | 344 | 344 | MINNESOTA | | 24731.18 | 11172.43 | 3809.76 |
| | 345 | 345 | MINNESOTA | | 25333.93 | 11172.43 | 3945.05 |
| | 346 | 346 | MINNESOTA | | 25910.97 | 11557.22 | 3999.70 |
| | 347 | 347 | MINNESOTA | | 26485.99 | 11620.28 | 4141.07 |
| | 348 | 348 | MINNESOTA | | 27080.21 | 11748.50 | 4290.67 |
| | 349 | 349 | MINNESOTA | | 27464.67 | 11880.62 | 4455.08 |
| | 350 | 350 | MINNESOTA | | | | |
| | 351 | 351 | MINNESOTA | | 27832.95 | 11985.82 12074.92 | 4611.99 4721.44 |
| | 352 | 352 | MINNESOTA | | 28055.27 28460.94 | | 4721.44 |
| | 353 | 352 353 | | | | 12164.09 | |
| | 354 | 354 | MINNESOTA | | 28590.72 | 12212.26 12279.25 | 4834.17 |
| | 355 | 35 4 355 | MINNESOTA | | 28694.10 | | 4914.92 |
| | 356 | 356 | MINNESOTA | | 28718.02 | 12413.96 | 4898.92 |
| | 357 | 357 | MINNESOTA | | 28959.43 29241.00 | 12569.74 | 4852.34 |
| | | | MINNESOTA | | | 12752.43 | 4809.57 |
| | 358 | 358 | MISSISSIPPI | | 10016.07 | 4936.56 | 824.65 |
| | 359 | 359 | MISSISSIPPI | | 10497.82 | 5114.50 | 861.51 |
| | 360 | 360 | MISSISSIPPI | | 10844.14 | 5323.04 | 887.66 |
| | 361 | 361 | MISSISSIPPI | | 11076.23 | 5491.42 | 923.12 |
| ## | 362 | 362 | MISSISSIPPI | | 11239.45 | 5639.29 | 951.12 |
| | 363 | 363 | MISSISSIPPI | | 11515.56 | 5738.05 | 1011.40 |
| | 364 | 364 | MISSISSIPPI | | 11799.74 | 5844.97 | 1072.13 |
| | 365 | 365 366 | MISSISSIPPI MISSISSIPPI | | 12061.45 12274.39 | 6029.90 | 1100.06 |
| | 366 | 367 | MISSISSIPPI | | | 6182.76 | 1101.60 |
| | 367 368 | 368 | MISSISSIPPI | | 12384.91 | 6224.01 | 1135.35 |
| | | | MISSISSIPPI | | 12454.04 | 6267.28 | 1122.82 |
| | 369 | 369 370 | | | 12547.36 | 6352.24 | 1111.96 |
| | 370 371 | | MISSISSIPPI MISSISSIPPI | | 12603.35 12613.88 | 6422.29 | 1117.05 |
| | 372 | 371 372 | | | 12513.88 | 6517.93 | 1129.55 |
| | 373 | 373 | MISSISSIPPI | | | 6583.29 | 1117.48 |
| | 374 | 373 374 | MISSISSIPPI | | 12430.11 | 6621.01 6654.31 | 1108.22 |
| | | | MISSISSIPPI | | 12411.36 | | 1138.91 |
| | 375 | 375 276 | MISSOURI | | 19464.98 | 9512.80 | 2571.06 |
| | 376 | 376 277 | MISSOURI | | 20393.17 | 9928.55 | 2701.12 |
| | 377 | 377 378 | MISSOURI | | 21288.19 22079.10 | 10282.11 | 2803.23 |
| | 378 379 | 378 270 | MISSOURI | | | 10518.19 | 2798.25 |
| | | 379 | MISSOURI | | 22475.35 | 10658.22 | 2787.58 |
| ## | 380 | 380 | MISSOURI | 19/5 | 22839.32 | 10880.54 | 2774.79 |

| | 381 | 381 | MISSOURI | | 23032.56 | 10949.45 | 2804.81 |
|----|------------|------------|------------------|------|--------------------|--------------------|------------------|
| | 382 | 382 | MISSOURI | | 23236.14 | 11026.81 | 2899.28 |
| | 383 | 383 | MISSOURI | | 23393.53 | 11140.36 | 3006.60 |
| | 384 | 384 | MISSOURI | | 23545.20 | 11165.62 | 3174.40 |
| | 385 | 385 | MISSOURI | | 23670.64 | 11257.64 | 3244.45 |
| ## | 386 | 386 | MISSOURI | 1981 | 23947.15 | 11287.89 | 3375.57 |
| | 387 | 387 | MISSOURI | | 24084.48 | 11257.30 | 3526.02 |
| | 388 | 388 | MISSOURI | | 23957.04 | 11186.57 | 3560.48 |
| | 389 | 389 | MISSOURI | | 23782.61 | 11168.62 | 3544.61 |
| | 390 | 390 | MISSOURI | | 23761.70 | 11134.25 | 3572.77 |
| | 391 | 391 | MISSOURI | | 23855.97 | 11224.66 | 3593.45 |
| | 392 | 392 | MONTANA | | 4782.64 | 3372.27 | 366.92 |
| | 393 | 393 | MONTANA | | 4956.96 | 3517.01 | 371.39 |
| | 394 | 394 | MONTANA | | 5095.70 | 3657.76 | 368.85 |
| | 395 | 395 | MONTANA | | 5241.43 | 3786.46 | 360.64 |
| | 396 | 396 | MONTANA | | 5420.38 | 3881.28 | 406.51 |
| | 397 | 397 | MONTANA | | 5487.68 | 3885.38 | 428.87 |
| | 398 | 398 | MONTANA | | 5536.46 | 3863.19 | 459.07 |
| | 399 | 399 | MONTANA | | 5628.09 | 3886.33 | 497.77 |
| | 400 | 400 | MONTANA | | 5756.96 | 3964.73 | 519.63 |
| | 401 | 401 | MONTANA | | 5871.16 | 3999.93 | 530.18 |
| | 402 | 402 | MONTANA | | 5945.22 | 3997.37 | 533.84 |
| | 403 | 403 | MONTANA | | 6004.93 | 4003.21 | 534.09 |
| | 404 | 404 | MONTANA | | 6027.25 | 4030.51 | 531.54 |
| | 405 | 405 | MONTANA | | 5967.63 | 4007.25 | 530.62 |
| | 406 | 406 | MONTANA | | 5957.83 | 4013.08 | 533.75 |
| | 407 | 407 | MONTANA | | 6024.85 | 4046.68 | 553.46 |
| | 408 | 408 | MONTANA | | 6117.91 | 4085.04 | 575.89 |
| | 409 | 409 | NEBRASKA | | 9235.03 | 4134.55 | 1065.95 |
| | 410 | 410 | NEBRASKA | | 9759.43 | 4227.15 | 1071.08 |
| | 411 | 411 | NEBRASKA | | 10291.33 | 4373.59 | 1042.10 |
| | 412 | 412 | NEBRASKA | | 10785.36 | 4469.52 | 1042.23 |
| | 413 | 413 | NEBRASKA | | 11293.48 | 4574.39 | 1082.39 |
| | 414 | 414 | NEBRASKA | | 11814.03 | 4667.10 | 1136.50 |
| | 415 | 415 | NEBRASKA | | 12436.57 | 4740.46 | 1263.78 |
| | 416 | 416 | NEBRASKA | | 12902.62 | 4831.06 | 1277.91 |
| | 417 | 417 | NEBRASKA | | 13482.42 | 4911.27 | 1301.78 |
| | 418 | 418 | NEBRASKA | | 14181.26 | 4985.51 | 1374.67 |
| | 419 | 419 | NEBRASKA | | 14619.96 | 5048.29 | 1407.61 |
| | 420 | 420 | NEBRASKA | | 14897.42 | 5106.40 | 1449.25 |
| | 421 | 421 | NEBRASKA | | 15039.75 | 5138.40 | 1440.27 |
| | 422 | 422 | NEBRASKA | | 15088.99 | 5188.05 | 1442.72 |
| | 423 | 423 | NEBRASKA | | 15027.98 | 5215.73 | 1422.43 |
| | 424 | 424 | NEBRASKA | | 14981.50 | 5281.80 | 1408.58 |
| | 425 | 425 | NEBRASKA | | 14974.69 | 5344.81 | 1399.20 |
| | 426 | 426 | NEVADA | | 3768.60 | 1993.17 | 464.21 |
| | 427 | 427 | NEVADA | | 3877.35 | 2042.40 | 481.20 |
| | 428 | 428 | NEVADA | | 4033.14 | 2094.25 | 508.15 |
| | 429 | 429 430 | NEVADA | | 4160.79 | 2116.82 | 508.31 |
| | 430 | 430 431 | NEVADA | | 4296.97 | 2155.53 | 513.74 514.36 |
| | 431 432 | 431 432 | NEVADA NEVADA | | 4402.10 4500.21 | 2158.46 2165.37 | 514.36 538.63 |
| | 432 | 432 | NEVADA NEVADA | | 4574.27 | 2174.66 | 572.23 |
| | 434 | 434 | NEVADA NEVADA | | 4646.28 | 2174.86 | 606.32 |
| ## | ±04 | 404 | NEVADA | 1310 | 4040.20 | 2130.02 | 000.32 |

| 435 | 435 | NEVADA | | 4766.05 | 2243.79 | 616.74 |
|------------|------------|--------------------------|-----|----------------------|----------------------|--------------------|
| 436 | 436 | NEVADA | | 4935.36 | 2276.73 | 711.72 |
| 437 | 437 | NEVADA | | 5188.56 | 2321.80 | 839.08 |
| 438 | 438 | NEVADA | | 5381.96 | 2368.03 | 886.05 |
| 439 | 439 | NEVADA | | 5500.17 | 2389.52 | 918.29 |
| 440 | 440 | NEVADA | | 5695.00 | 2455.39 | 997.68 |
| 441 | 441 | NEVADA | | 5856.90 | 2508.07 | 1049.48 |
| 442 | 442 | NEVADA | | 6003.00 | 2574.74 | 1082.71 |
| 443 | 443 | NEW_HAMPSHIRE | | 3085.49 | 1889.29 | 254.57 |
| 444 | 444 | NEW_HAMPSHIRE | | 3247.53 | 1943.53 | 275.04 |
| 445 | 445 | NEW_HAMPSHIRE | | 3419.24 | 2008.20 | 302.67 |
| 446 | 446 | NEW_HAMPSHIRE | | 3559.45 | 2057.30 | 322.28 |
| 447 | 447 | NEW_HAMPSHIRE | | 3688.39 | 2124.83 | 372.70 |
| 448 | 448 | NEW_HAMPSHIRE | | 3783.91 | 2167.52 | 397.66 |
| 449 | 449 | NEW_HAMPSHIRE | | 3915.38 | 2214.32 | 428.63 |
| 450 | 450 | NEW_HAMPSHIRE | | 4084.04 | 2257.39 | 476.30 |
| 451 | 451 | NEW_HAMPSHIRE | | 4223.59 | 2301.79 | 511.67 |
| 452 | 452 | NEW_HAMPSHIRE | | 4329.97 | 2333.25 | 567.87 |
| 453 | 453 | NEW_HAMPSHIRE | | 4348.94 | 2342.18 | 560.20 |
| 454 | 454 | NEW_HAMPSHIRE | | 4369.35 | 2344.09 | 578.84 |
| 455 | 455 | NEW_HAMPSHIRE | | 4353.02 | 2330.25 | 607.17 |
| 456 | 456 | NEW_HAMPSHIRE | | 4333.41 | 2314.90 | 622.69 |
| 457 | 457 | NEW_HAMPSHIRE | | 4324.98 | 2327.25 | 624.39 |
| 458 | 458 | NEW_HAMPSHIRE | | 4316.63 | 2337.76 | 633.79 |
| 459 | 459 | NEW_HAMPSHIRE | | 4331.54 | 2350.11 | 637.52 |
| 460 | 460 | NEW_JERSEY | | 24857.74 | 10385.59 | 3963.35 |
| 461 | 461 | NEW_JERSEY | | 26627.68 | 11262.24 | 4101.37 |
| 462 | 462 | NEW_JERSEY | | 28256.83 | 12060.09 | 4189.13 |
| 463 | 463 | NEW_JERSEY | | 29544.99 | 12813.13 | 4386.79 |
| 464 | 464 | NEW_JERSEY | | 30629.69 | 13495.55 | 4408.03 |
| 465 | 465 | NEW_JERSEY | | 31830.65 | 13945.50 | 4522.40 |
| 466 | 466 | NEW_JERSEY | | 32396.14 | 14014.03 | 4615.85 |
| 467 | 467 | NEW_JERSEY | | 32775.77 | 13955.12 | 4803.28 |
| 468 | 468 | NEW_JERSEY | | 33066.76 | 13788.65 | 5095.30 |
| 469 470 | 469 470 | NEW_JERSEY | | 33268.60 | 13644.05 | 5404.27 |
| | 471 | NEW_JERSEY | | 33625.27 | 13558.33 | 5776.42 6029.86 |
| 471 472 | 472 | NEW_JERSEY NEW_JERSEY | | 33794.24 34144.85 | 13439.86 13293.91 | 6255.30 |
| | | NEW_JERSEY | | | 13343.43 | |
| 473 474 | 473 474 | NEW_JERSEY | | 34320.27 34385.92 | 13415.00 | 6279.97 6284.28 |
| 475 | 475 | NEW_JERSEY | | 34528.53 | 13486.99 | 6391.51 |
| 476 | 476 | NEW_JERSEY | | 34675.69 | 13719.05 | 6368.17 |
| 477 | 477 | NEW_SERSET | | 6082.20 | 3256.77 | 802.99 |
| 478 | 478 | NEW_MEXICO | | 6195.50 | 3341.90 | 824.19 |
| 479 | 479 | NEW_MEXICO | | 6238.49 | 3385.03 | 800.31 |
| 480 | 480 | NEW_MEXICO | | 6326.03 | 3442.98 | 779.31 |
| 481 | 481 | NEW_MEXICO | | 6367.27 | 3446.34 | 784.57 |
| 482 | 482 | NEW_MEXICO | | 6447.38 | 3460.85 | 808.88 |
| 483 | 483 | NEW_MEXICO | | 6606.97 | 3474.94 | 883.33 |
| 484 | 484 | NEW_MEXICO | | 6724.71 | 3501.57 | 890.22 |
| 485 | 485 | NEW_MEXICO | | 6786.25 | 3494.83 | 896.99 |
| 486 | 486 | NEW_MEXICO | | 6902.83 | 3515.79 | 923.86 |
| 487 | 487 | NEW_MEXICO | | 7104.70 | 3579.76 | 972.35 |
| 488 | 488 | NEW_MEXICO | | 7296.53 | 3615.48 | 1017.38 |
| - | | _ | - ' | - | | |

| ## | 489 | 489 | NEW_MEXICO | 1982 | 7402.21 | 3631.09 | 1039.88 |
|----|------------|------------|------------------------------|------|--------------------|--------------------|------------------|
| | 490 | 490 | NEW_MEXICO | | 7634.64 | 3739.57 | 1071.49 |
| ## | 491 | 491 | NEW_MEXICO | | 7904.32 | 3877.09 | 1117.34 |
| | 492 | 492 | NEW_MEXICO | | 8228.31 | 4028.10 | 1150.52 |
| | 493 | 493 | NEW MEXICO | | 8483.37 | 4096.28 | 1198.64 |
| | 494 | 494 | NEW_YORK | | 106893.49 | 34674.49 | 10536.87 |
| | 495 | 495 | NEW_YORK | | 110931.96 | 35397.65 | 11005.89 |
| | 496 | 496 | NEW_YORK | | 115957.66 | 36040.10 | 11844.87 |
| ## | 497 | 497 | NEW_YORK | | 121450.05 | 36678.41 | 12806.81 |
| ## | 498 | 498 | NEW_YORK | | 126498.16 | 36709.33 | 14026.58 |
| | 499 | 499 | NEW_YORK | | 131097.03 | 36931.52 | 15461.48 |
| | 500 | 500 | NEW_YORK | | 134166.03 | 36848.64 | 16674.44 |
| ## | 501 | 501 | NEW_YORK | 1977 | 134701.89 | 36486.69 | 17487.05 |
| ## | 502 | 502 | NEW_YORK | 1978 | 134632.83 | 36064.57 | 18001.42 |
| ## | 503 | 503 | NEW_YORK | 1979 | 134765.25 | 35899.56 | 18904.65 |
| ## | 504 | 504 | NEW_YORK | 1980 | 134166.71 | 35837.95 | 19440.64 |
| ## | 505 | 505 | NEW_YORK | 1981 | 133207.70 | 35638.22 | 20032.22 |
| ## | 506 | 506 | NEW_YORK | 1982 | 132189.18 | 35797.68 | 20063.48 |
| ## | 507 | 507 | NEW_YORK | 1983 | 131808.83 | 35777.56 | 20119.85 |
| ## | 508 | 508 | NEW_YORK | 1984 | 131365.12 | 35970.24 | 20223.34 |
| ## | 509 | 509 | NEW_YORK | 1985 | 131529.92 | 36063.88 | 20459.67 |
| ## | 510 | 510 | NEW_YORK | 1986 | 132203.02 | 36270.34 | 20695.61 |
| ## | 511 | 511 | NORTH_CAROLINA | 1970 | 16840.00 | 7670.09 | 2354.23 |
| ## | 512 | 512 | NORTH_CAROLINA | 1971 | 17688.47 | 8035.21 | 2409.62 |
| ## | 513 | 513 | NORTH_CAROLINA | 1972 | 18419.02 | 8433.57 | 2437.58 |
| ## | 514 | | NORTH_CAROLINA | | 19081.72 | 8810.08 | 2458.58 |
| ## | 515 | | NORTH_CAROLINA | | 19701.02 | 9185.20 | 2511.72 |
| ## | 516 | | NORTH_CAROLINA | | 20334.13 | 9347.54 | 2626.44 |
| | 517 | | NORTH_CAROLINA | | 21062.44 | 9478.41 | 2794.70 |
| | 518 | | NORTH_CAROLINA | | 22029.51 | 9749.47 | 3027.51 |
| | 519 | | NORTH_CAROLINA | | 22652.00 | 9915.07 | 3236.38 |
| | 520 | | NORTH_CAROLINA | | 23305.83 | 10151.65 | 3386.90 |
| | 521 | | NORTH_CAROLINA | | 24164.71 | 10342.92 | 3529.30 |
| | 522 | | NORTH_CAROLINA | | 24576.10 | 10401.46 | 3674.75 |
| | 523 | | NORTH_CAROLINA | | 24698.58 | 10322.00 | 3776.84 |
| | 524 | | NORTH_CAROLINA | | 24700.31 | 10211.41 | 3848.75 |
| | 525 | | NORTH_CAROLINA | | 24674.17 | 10160.18 | 3881.92 |
| | 526 | | NORTH_CAROLINA | | 24744.19 | 10119.46 | 3934.05 |
| | 527 | | NORTH_CAROLINA | | 25179.37 | 10143.70 | 4011.37 |
| | 528 529 | 528 529 | NORTH_DAKOTA NORTH DAKOTA | | 4173.07 | 2716.99 | 307.77 |
| | 530 | 530 | NORTH_DAKOTA | | 4226.31 4302.57 | 2740.92 2816.25 | 312.24 312.10 |
| | 531 | 531 | NORTH DAKOTA | | 4330.52 | 2834.21 | 309.31 |
| | 532 | 532 | NORTH_DAKOTA | | 4404.40 | 2888.67 | 324.15 |
| | 533 | 533 | NORTH_DAKOTA | | 4458.28 | 2903.68 | 331.88 |
| | 534 | 534 | NORTH_DAKOTA | | 4492.23 | 2903.34 | 348.23 |
| | 535 | 535 | NORTH_DAKOTA | | 4573.94 | 2943.62 | 369.74 |
| | 536 | 536 | NORTH_DAKOTA | | 4628.15 | 2985.13 | 393.92 |
| | 537 | 537 | NORTH_DAKOTA | | 4704.64 | 3011.56 | 431.75 |
| | 538 | 538 | NORTH_DAKOTA | | 4798.61 | 3050.67 | 465.06 |
| | 539 | 539 | NORTH_DAKOTA | | 4888.20 | 3070.19 | 499.31 |
| | 540 | 540 | NORTH_DAKOTA | | 4893.00 | 3065.00 | 509.81 |
| ## | 541 | 541 | NORTH_DAKOTA | | 4929.21 | 3061.18 | 523.49 |
| ## | 542 | 542 | NORTH_DAKOTA | 1984 | 4929.23 | 3054.36 | 531.07 |
| | | | | | | | |

| ## | 543 | 543 | NORTH_DAKOTA | 1985 | 4968.32 | 3087.35 | 540.84 |
|----|------------|------------|----------------------|------|----------------------|--------------------|--------------------|
| | 544 | 544 | NORTH_DAKOTA | | 5014.77 | 3125.82 | 545.24 |
| | 545 | 545 | OHIO | | 48317.68 | 23653.22 | 8042.87 |
| ## | 546 | 546 | OHIO | 1971 | 50241.05 | 24331.77 | 8185.73 |
| ## | 547 | 547 | OHIO | 1972 | 51395.75 | 24733.59 | 8222.16 |
| ## | 548 | 548 | OHIO | 1973 | 52356.39 | 24882.94 | 8181.22 |
| ## | 549 | 549 | OHIO | 1974 | 52834.75 | 24967.19 | 8073.31 |
| ## | 550 | 550 | OHIO | 1975 | 53464.68 | 25063.58 | 8154.51 |
| ## | 551 | 551 | OHIO | 1976 | 54188.05 | 24980.44 | 8182.63 |
| ## | 552 | 552 | OHIO | 1977 | 54969.48 | 24924.30 | 8163.67 |
| ## | 553 | 553 | OHIO | 1978 | 55391.11 | 24781.45 | 8188.06 |
| ## | 554 | 554 | OHIO | 1979 | 56115.22 | 24696.32 | 8735.81 |
| ## | 555 | 555 | OHIO | 1980 | 56513.62 | 24562.73 | 9220.96 |
| | 556 | 556 | OHIO | | 56980.17 | 24343.52 | 9746.70 |
| | 557 | 557 | OHIO | | 57101.01 | 24029.59 | 10083.59 |
| | 558 | 558 | OHIO | | 56929.04 | 23773.55 | 10340.46 |
| | 559 | 559 | OHIO | | 56648.46 | 23606.36 | 10301.22 |
| | 560 | 560 | OHIO | | 56463.31 | 23826.13 | 10347.15 |
| | 561 | 561 | OHIO | | 56283.12 | 23755.80 | 10438.18 |
| | 562 | 562 | OKLAHOMA | | 11168.19 | 5732.80 | 1486.50 |
| | 563 | 563 | OKLAHOMA | | 11478.15 | 5929.05 | 1490.06 |
| | 564 | 564 | OKLAHOMA | | 11680.58 | 5994.30 | 1490.32 |
| | 565 | 565 566 | OKLAHOMA | | 11832.90 12026.61 | 5697.07 | 1502.23 1504.27 |
| | 566 567 | 566 567 | OKLAHOMA OKLAHOMA | | 12396.49 | 5821.31 5890.24 | 1563.42 |
| | 568 | 568 | OKLAHOMA | | 12730.82 | 5926.67 | 1582.08 |
| | 569 | 569 | OKLAHOMA | | 12979.01 | 5936.34 | 1660.13 |
| | 570 | 570 | OKLAHOMA | | 13229.51 | 5972.49 | 1772.14 |
| | 571 | 571 | OKLAHOMA | | 13492.11 | 6001.28 | 1874.55 |
| | 572 | 572 | OKLAHOMA | | 13835.66 | 6039.31 | 1978.89 |
| | 573 | 573 | OKLAHOMA | | 14248.02 | 6072.15 | 2074.79 |
| | 574 | 574 | OKLAHOMA | | 14564.32 | 6131.31 | 2093.83 |
| ## | 575 | 575 | OKLAHOMA | 1983 | 14766.51 | 6159.51 | 2107.75 |
| ## | 576 | 576 | OKLAHOMA | 1984 | 15088.88 | 6263.83 | 2163.79 |
| ## | 577 | 577 | OKLAHOMA | 1985 | 15480.80 | 6331.49 | 2296.72 |
| ## | 578 | 578 | OKLAHOMA | 1986 | 15891.09 | 6405.81 | 2469.94 |
| ## | 579 | 579 | OREGON | 1970 | 11143.64 | 5522.14 | 1700.12 |
| ## | 580 | 580 | OREGON | 1971 | 11481.58 | 5641.79 | 1727.20 |
| ## | 581 | 581 | OREGON | 1972 | 11830.75 | 5868.40 | 1804.21 |
| ## | 582 | 582 | OREGON | 1973 | 12150.51 | 6085.11 | 1824.76 |
| ## | 583 | 583 | OREGON | 1974 | 12912.83 | 6313.44 | 1862.00 |
| ## | 584 | 584 | OREGON | 1975 | 13214.80 | 6322.44 | 1964.90 |
| | 585 | 585 | OREGON | | 13671.14 | 6354.98 | 2114.32 |
| | 586 | 586 | OREGON | | 13976.13 | 6408.58 | 2228.32 |
| | 587 | 587 | OREGON | | 14350.99 | 6376.73 | 2333.49 |
| | 588 | 588 | OREGON | | 14724.22 | 6372.79 | 2486.81 |
| | 589 | 589 | OREGON | | 15020.05 | 6373.70 | 2595.82 |
| | 590 | 590 | OREGON | | 15420.55 | 6437.47 | 2735.99 |
| | 591 | 591 | OREGON | | 15666.86 | 6498.98 | 2809.85 |
| | 592 | 592 | OREGON | | 15743.83 | 6563.95 | 2871.30 |
| | 593 504 | 593 | OREGON | | 15759.04 | 6589.36 | 2876.97 |
| | 594 505 | 594 | OREGON | | 15844.49 | 6639.98 | 2914.08 |
| | 595 506 | 595 | OREGON DENNSYLVANIA | | 15947.63 | 6716.47 | 2930.22 |
| ## | 596 | 596 | PENNSYLVANIA | 19/0 | 50428.35 | 21507.10 | 6873.42 |

| | 597 | 597 | PENNSYLVANIA | | 53374.91 | 22873.38 | 7025.09 |
|----|-----|-----|----------------|------|----------|----------|---------|
| | 598 | 598 | PENNSYLVANIA | | 56250.56 | 24070.94 | 7202.57 |
| | 599 | 599 | PENNSYLVANIA | | 58090.06 | 24636.92 | 7318.54 |
| | 600 | 600 | PENNSYLVANIA | | 59430.51 | 25171.81 | 7373.42 |
| | 601 | 601 | PENNSYLVANIA | | 60860.60 | 25623.54 | 7590.82 |
| | 602 | 602 | PENNSYLVANIA | | 61871.02 | 26024.77 | 7755.33 |
| | 603 | 603 | PENNSYLVANIA | | 62830.91 | 26341.98 | 7927.55 |
| | 604 | 604 | PENNSYLVANIA | | 62861.36 | 26307.55 | 8126.83 |
| | 605 | 605 | PENNSYLVANIA | | 62652.44 | 26037.41 | 8359.35 |
| | 606 | 606 | PENNSYLVANIA | | 62617.53 | 25614.52 | 8656.53 |
| | 607 | 607 | PENNSYLVANIA | | 62440.58 | 25108.39 | 8987.35 |
| | 608 | 608 | PENNSYLVANIA | | 62061.65 | 24753.64 | 9231.40 |
| ## | 609 | 609 | PENNSYLVANIA | 1983 | 61479.97 | 24476.17 | 9208.68 |
| ## | 610 | 610 | PENNSYLVANIA | 1984 | 61158.43 | 24200.25 | 9085.60 |
| ## | 611 | 611 | PENNSYLVANIA | 1985 | 60661.77 | 23961.42 | 8915.94 |
| ## | 612 | 612 | PENNSYLVANIA | 1986 | 60244.69 | 23854.84 | 8826.75 |
| ## | 613 | 613 | RHODE_ISLAND | | 4310.22 | 2264.59 | 572.26 |
| ## | 614 | 614 | RHODE_ISLAND | | 4451.24 | 2278.20 | 591.72 |
| ## | 615 | 615 | RHODE_ISLAND | 1972 | 4493.55 | 2224.36 | 571.84 |
| ## | 616 | 616 | RHODE_ISLAND | 1973 | 4498.12 | 2179.26 | 563.72 |
| ## | 617 | 617 | RHODE_ISLAND | 1974 | 4490.52 | 2164.89 | 555.89 |
| ## | 618 | 618 | RHODE_ISLAND | 1975 | 4463.83 | 2139.15 | 554.58 |
| ## | 619 | 619 | RHODE_ISLAND | 1976 | 4437.89 | 2095.73 | 561.10 |
| ## | 620 | 620 | RHODE_ISLAND | 1977 | 4443.85 | 2052.80 | 589.14 |
| ## | 621 | 621 | RHODE_ISLAND | 1978 | 4442.70 | 2016.80 | 656.02 |
| ## | 622 | 622 | RHODE_ISLAND | 1979 | 4430.52 | 1988.83 | 693.61 |
| ## | 623 | 623 | RHODE_ISLAND | 1980 | 4411.81 | 1959.41 | 727.15 |
| ## | 624 | 624 | RHODE_ISLAND | 1981 | 4396.28 | 1928.90 | 754.45 |
| ## | 625 | 625 | RHODE_ISLAND | 1982 | 4342.85 | 1906.68 | 765.37 |
| ## | 626 | 626 | RHODE_ISLAND | 1983 | 4302.36 | 1878.80 | 769.74 |
| ## | 627 | 627 | RHODE_ISLAND | 1984 | 4251.45 | 1860.02 | 761.93 |
| ## | 628 | 628 | RHODE_ISLAND | 1985 | 4230.74 | 1860.07 | 779.73 |
| ## | 629 | 629 | RHODE_ISLAND | 1986 | 4254.36 | 1884.02 | 800.83 |
| ## | 630 | 630 | SOUTH_CAROLINA | 1970 | 8250.43 | 4003.53 | 1094.79 |
| ## | 631 | 631 | SOUTH_CAROLINA | 1971 | 8694.41 | 4102.90 | 1188.11 |
| ## | 632 | 632 | SOUTH_CAROLINA | 1972 | 9115.22 | 4235.03 | 1352.97 |
| ## | 633 | 633 | SOUTH_CAROLINA | 1973 | 9554.06 | 4348.79 | 1474.87 |
| ## | 634 | 634 | SOUTH_CAROLINA | 1974 | 10014.14 | 4508.21 | 1562.14 |
| ## | 635 | 635 | SOUTH_CAROLINA | 1975 | 10637.46 | 4644.35 | 1639.24 |
| ## | 636 | 636 | SOUTH_CAROLINA | 1976 | 11097.59 | 4728.06 | 1665.89 |
| ## | 637 | 637 | SOUTH_CAROLINA | 1977 | 11500.56 | 4766.46 | 1673.79 |
| ## | 638 | 638 | SOUTH_CAROLINA | 1978 | 11653.18 | 4715.39 | 1676.79 |
| ## | 639 | 639 | SOUTH_CAROLINA | 1979 | 11911.50 | 4700.13 | 1744.90 |
| ## | 640 | 640 | SOUTH_CAROLINA | 1980 | 12263.76 | 4689.82 | 1804.03 |
| ## | 641 | 641 | SOUTH_CAROLINA | 1981 | 12577.08 | 4671.24 | 1838.99 |
| ## | 642 | 642 | SOUTH_CAROLINA | 1982 | 12972.01 | 4633.78 | 1932.60 |
| ## | 643 | 643 | SOUTH_CAROLINA | 1983 | 13110.97 | 4522.20 | 1997.51 |
| ## | 644 | 644 | SOUTH_CAROLINA | 1984 | 13172.84 | 4448.16 | 2086.57 |
| ## | 645 | 645 | SOUTH_CAROLINA | 1985 | 13211.81 | 4462.60 | 2131.34 |
| ## | 646 | 646 | SOUTH_CAROLINA | 1986 | 13391.24 | 4491.38 | 2181.72 |
| | 647 | 647 | SOUTH_DAKOTA | | 4173.17 | 3034.09 | 258.85 |
| ## | 648 | 648 | SOUTH_DAKOTA | | 4261.98 | 3081.08 | 268.64 |
| ## | 649 | 649 | SOUTH_DAKOTA | | 4333.46 | 3131.49 | 261.19 |
| ## | 650 | 650 | SOUTH_DAKOTA | 1973 | 4407.53 | 3145.05 | 270.82 |
| | | | | | | | |

| ## | 651 | 651 | SOUTH_DAKOTA | 1974 | 4501.83 | 3195.26 | 272.96 |
|----|-----|-----|--------------|------|----------|----------|----------|
| | 652 | 652 | SOUTH_DAKOTA | | 4630.20 | 3238.72 | 279.35 |
| | 653 | 653 | SOUTH_DAKOTA | | 4732.91 | 3256.92 | 287.71 |
| | 654 | 654 | SOUTH_DAKOTA | | 4840.82 | 3291.01 | 286.76 |
| | 655 | 655 | SOUTH_DAKOTA | | 4895.63 | 3274.12 | 290.55 |
| ## | 656 | 656 | SOUTH_DAKOTA | | 4998.02 | 3263.74 | 308.57 |
| ## | 657 | 657 | SOUTH_DAKOTA | | 5067.50 | 3244.97 | 327.55 |
| | 658 | 658 | SOUTH_DAKOTA | | 5125.45 | 3228.59 | 349.02 |
| | 659 | 659 | SOUTH_DAKOTA | | 5178.56 | 3222.48 | 372.98 |
| | 660 | 660 | SOUTH_DAKOTA | | 5162.24 | 3201.09 | 394.14 |
| | 661 | 661 | SOUTH_DAKOTA | | 5146.61 | 3199.35 | 406.21 |
| | 662 | 662 | SOUTH_DAKOTA | | 5148.18 | 3211.40 | 422.71 |
| | 663 | 663 | SOUTH_DAKOTA | | 5281.22 | 3231.13 | 523.95 |
| | 664 | 664 | TENNESSE | 1970 | 20949.51 | 9280.24 | 2787.57 |
| | 665 | 665 | TENNESSE | 1971 | 21687.41 | 9506.84 | 2869.86 |
| | 666 | 666 | TENNESSE | | 22448.25 | 9660.19 | 3084.42 |
| | 667 | 667 | TENNESSE | | 22886.75 | 9744.11 | 3117.33 |
| | 668 | 668 | TENNESSE | | 23184.46 | 9861.13 | 3152.00 |
| | 669 | 669 | TENNESSE | 1975 | 23972.49 | 9981.10 | 3422.44 |
| | 670 | 670 | TENNESSE | 1976 | 24632.07 | 10093.20 | 3612.72 |
| | 671 | 671 | TENNESSE | 1977 | 25153.79 | 10262.04 | 3728.89 |
| | 672 | 672 | TENNESSE | 1978 | 25444.07 | 10346.22 | 3836.06 |
| | 673 | 673 | TENNESSE | 1979 | 25820.64 | 10412.39 | 3996.54 |
| | 674 | 674 | TENNESSE | 1980 | 26011.90 | 10468.24 | 4055.87 |
| | 675 | 675 | TENNESSE | 1981 | 26321.05 | 10514.67 | 4196.88 |
| | 676 | 676 | TENNESSE | | 26467.14 | 10529.66 | 4342.69 |
| ## | 677 | 677 | TENNESSE | 1983 | 26394.65 | 10509.67 | 4476.56 |
| | 678 | 678 | TENNESSE | 1984 | 26261.07 | 10523.47 | 4538.01 |
| | 679 | 679 | TENNESSE | 1985 | 26236.06 | 10639.21 | 4527.33 |
| | 680 | 680 | TENNESSE | | 26281.46 | 10744.85 | 4533.62 |
| | 681 | 681 | TEXAS | 1970 | 53639.88 | 25941.91 | 8352.71 |
| | 682 | 682 | TEXAS | | 55700.45 | 26813.21 | 8689.06 |
| | 683 | 683 | TEXAS | 1972 | 57213.27 | 27558.66 | 8884.14 |
| | 684 | 684 | TEXAS | 1973 | 59134.01 | 28414.53 | 8972.86 |
| ## | 685 | 685 | TEXAS | | 60974.12 | 28683.18 | 9108.26 |
| ## | 686 | 686 | | 1975 | 62734.61 | 28964.12 | 9410.71 |
| ## | 687 | 687 | TEXAS | | 64422.93 | 29304.44 | 9852.87 |
| | 688 | 688 | TEXAS | | 65863.92 | 29426.06 | 10229.27 |
| | 689 | 689 | TEXAS | | 67133.78 | 29487.23 | 10579.21 |
| | 690 | 690 | TEXAS | | 69034.04 | 29851.00 | 11113.25 |
| | 691 | 691 | TEXAS | | 71409.31 | 30308.65 | 11992.75 |
| | 692 | 692 | TEXAS | | 74168.05 | 30933.18 | 12624.39 |
| | 693 | 693 | TEXAS | | 76260.44 | 31570.69 | 13030.77 |
| | 694 | 694 | TEXAS | | 78159.02 | 32349.61 | 13466.37 |
| | 695 | 695 | TEXAS | | 80067.98 | 32880.15 | 13775.33 |
| | 696 | 696 | TEXAS | | 82196.09 | 33234.72 | 14101.13 |
| | 697 | 697 | TEXAS | | 84303.17 | 33451.67 | 14704.89 |
| | 698 | 698 | UTAH | | 6494.16 | 3117.57 | 652.40 |
| | 699 | 699 | UTAH | | 6666.03 | 3281.38 | 639.42 |
| | 700 | 700 | UTAH | | 6773.32 | 3381.43 | 626.52 |
| | 701 | 701 | UTAH | | 6928.74 | 3497.85 | 599.48 |
| | 702 | 702 | UTAH | | 7072.53 | 3583.37 | 592.91 |
| | 703 | 703 | UTAH | | 7239.52 | 3626.31 | 599.94 |
| ## | 704 | 704 | UTAH | 1976 | 7373.63 | 3624.95 | 606.43 |

| | 705 | 705 | UTAH | | 7547.71 | 3670.07 | 608.15 |
|----|-----|-----|------------|------|----------|----------|---------|
| | 706 | 706 | UTAH | | 7716.92 | 3711.33 | 632.13 |
| | 707 | 707 | UTAH | | 7893.14 | 3721.36 | 672.08 |
| | 708 | 708 | UTAH | | 8057.45 | 3734.37 | 706.28 |
| | 709 | 709 | UTAH | | 8334.41 | 3801.07 | 723.09 |
| ## | 710 | 710 | UTAH | 1982 | 8606.09 | 3841.88 | 727.72 |
| | 711 | 711 | UTAH | 1983 | 8908.45 | 3867.21 | 731.40 |
| | 712 | 712 | UTAH | | 9453.63 | 3925.74 | 746.32 |
| ## | 713 | 713 | UTAH | 1985 | 10311.40 | 4014.23 | 807.78 |
| | 714 | 714 | UTAH | 1986 | 11392.00 | 4150.02 | 867.39 |
| ## | 715 | 715 | VERMONT | 1970 | 2627.12 | 1827.14 | 261.49 |
| ## | 716 | 716 | VERMONT | 1971 | 2756.19 | 1881.33 | 256.48 |
| ## | 717 | 717 | VERMONT | 1972 | 2894.58 | 1940.72 | 264.67 |
| ## | 718 | 718 | VERMONT | 1973 | 2967.25 | 1965.24 | 272.79 |
| ## | 719 | 719 | VERMONT | 1974 | 3025.15 | 2004.94 | 276.93 |
| ## | 720 | 720 | VERMONT | 1975 | 3083.07 | 2014.34 | 276.54 |
| ## | 721 | 721 | VERMONT | 1976 | 3075.61 | 2009.05 | 268.07 |
| ## | 722 | 722 | VERMONT | 1977 | 3055.26 | 1998.08 | 262.76 |
| ## | 723 | 723 | VERMONT | 1978 | 3019.42 | 1989.61 | 255.73 |
| ## | 724 | 724 | VERMONT | 1979 | 3020.06 | 1968.36 | 261.21 |
| ## | 725 | 725 | VERMONT | 1980 | 3032.36 | 1941.41 | 269.08 |
| ## | 726 | 726 | VERMONT | 1981 | 3016.79 | 1912.68 | 280.15 |
| ## | 727 | 727 | VERMONT | 1982 | 2983.19 | 1875.51 | 287.47 |
| ## | 728 | 728 | VERMONT | 1983 | 2950.98 | 1857.38 | 292.00 |
| ## | 729 | 729 | VERMONT | 1984 | 2927.85 | 1847.43 | 304.49 |
| ## | 730 | 730 | VERMONT | 1985 | 2925.39 | 1838.69 | 323.36 |
| ## | 731 | 731 | VERMONT | 1986 | 2936.44 | 1830.16 | 335.51 |
| ## | 732 | 732 | VIRGINIA | 1970 | 20732.56 | 11264.21 | 2677.11 |
| ## | 733 | 733 | VIRGINIA | 1971 | 21582.28 | 11608.60 | 2716.73 |
| ## | 734 | 734 | VIRGINIA | 1972 | 22348.28 | 11917.89 | 2788.37 |
| ## | 735 | 735 | VIRGINIA | 1973 | 22927.00 | 12172.65 | 2853.28 |
| ## | 736 | 736 | VIRGINIA | 1974 | 23570.72 | 12581.86 | 2903.27 |
| ## | 737 | 737 | VIRGINIA | 1975 | 24524.64 | 13035.16 | 3042.39 |
| ## | 738 | 738 | VIRGINIA | 1976 | 25440.39 | 13397.64 | 3306.99 |
| ## | 739 | 739 | VIRGINIA | 1977 | 26020.05 | 13663.61 | 3556.38 |
| ## | 740 | 740 | VIRGINIA | 1978 | 26621.80 | 13983.04 | 3787.02 |
| ## | 741 | 741 | VIRGINIA | 1979 | 27058.08 | 14155.94 | 3969.02 |
| ## | 742 | 742 | VIRGINIA | 1980 | 27606.76 | 14326.92 | 4212.09 |
| ## | 743 | 743 | VIRGINIA | 1981 | 27993.19 | 14398.22 | 4404.46 |
| ## | 744 | 744 | VIRGINIA | 1982 | 28206.71 | 14410.54 | 4615.59 |
| ## | 745 | 745 | VIRGINIA | 1983 | 28109.50 | 14296.38 | 4742.34 |
| ## | 746 | 746 | VIRGINIA | 1984 | 28031.46 | 14265.90 | 4743.87 |
| ## | 747 | 747 | VIRGINIA | 1985 | 27922.62 | 14248.70 | 4740.24 |
| ## | 748 | 748 | VIRGINIA | 1986 | 28000.68 | 14253.92 | 4786.93 |
| ## | 749 | 749 | WASHINGTON | 1970 | 25751.49 | 8657.13 | 3436.60 |
| ## | 750 | 750 | WASHINGTON | 1971 | 26775.46 | 9022.43 | 3514.56 |
| ## | 751 | 751 | WASHINGTON | 1972 | 27853.91 | 9398.12 | 3556.74 |
| ## | 752 | 752 | WASHINGTON | 1973 | 28392.60 | 9681.89 | 3549.61 |
| ## | 753 | 753 | WASHINGTON | 1974 | 29137.60 | 10078.96 | 3651.21 |
| ## | 754 | 754 | WASHINGTON | 1975 | 29497.89 | 10208.42 | 3728.15 |
| ## | 755 | 755 | WASHINGTON | 1976 | 29997.51 | 10297.58 | 3849.45 |
| ## | 756 | 756 | WASHINGTON | 1977 | 30862.78 | 10279.83 | 4336.53 |
| ## | 757 | 757 | WASHINGTON | 1978 | 31968.10 | 10394.74 | 4759.35 |
| ## | 758 | 758 | WASHINGTON | 1979 | 33454.73 | 10470.75 | 4823.12 |

| ## | 759 | 759 | WASHINGTON | 1980 | 35106.09 | 10631.04 | 4916.60 |
|----|-----|-----|---------------|------|----------|----------|---------|
| ## | 760 | 760 | WASHINGTON | 1981 | 36528.00 | 10769.82 | 4963.37 |
| ## | 761 | 761 | WASHINGTON | 1982 | 37941.50 | 10912.53 | 4852.84 |
| ## | 762 | 762 | WASHINGTON | 1983 | 39515.57 | 11058.86 | 4830.54 |
| ## | 763 | 763 | WASHINGTON | 1984 | 40454.47 | 11335.77 | 4817.01 |
| ## | 764 | 764 | WASHINGTON | 1985 | 40775.81 | 11478.52 | 4890.40 |
| ## | 765 | 765 | WASHINGTON | 1986 | 41136.36 | 11738.08 | 5042.96 |
| ## | 766 | 766 | WEST_VIRGINIA | | 6482.87 | 4049.12 | 594.58 |
| | 767 | 767 | WEST_VIRGINIA | | 7051.17 | 4439.47 | 573.20 |
| ## | 768 | 768 | WEST_VIRGINIA | | 7652.54 | 4937.39 | 568.23 |
| ## | 769 | 769 | WEST_VIRGINIA | | 8245.21 | 5519.66 | 562.16 |
| ## | 770 | 770 | WEST_VIRGINIA | | 8735.95 | 6023.03 | 552.03 |
| ## | 771 | 771 | WEST_VIRGINIA | | 9220.62 | 6401.46 | 555.39 |
| ## | 772 | 772 | WEST_VIRGINIA | | 9624.86 | 6667.31 | 571.10 |
| ## | 773 | 773 | WEST_VIRGINIA | | 9942.15 | 6874.36 | 571.08 |
| ## | 774 | 774 | WEST_VIRGINIA | | 10115.55 | 6973.03 | 577.99 |
| ## | 775 | 775 | WEST_VIRGINIA | 1979 | 10457.33 | 7117.63 | 598.26 |
| ## | 776 | 776 | WEST_VIRGINIA | | 10705.18 | 7254.08 | 607.48 |
| ## | 777 | 777 | WEST_VIRGINIA | 1981 | 10943.56 | 7400.82 | 636.76 |
| ## | 778 | 778 | WEST_VIRGINIA | | 11059.62 | 7502.31 | 686.36 |
| ## | 779 | 779 | WEST_VIRGINIA | 1983 | 11078.85 | 7550.99 | 756.21 |
| ## | 780 | 780 | WEST_VIRGINIA | 1984 | 11072.89 | 7561.72 | 808.86 |
| ## | 781 | 781 | WEST_VIRGINIA | 1985 | 11000.70 | 7542.71 | 821.89 |
| ## | 782 | 782 | WEST_VIRGINIA | 1986 | 10984.38 | 7544.99 | 834.01 |
| ## | 783 | 783 | WISCONSIN | 1970 | 23565.08 | 9690.08 | 3968.16 |
| ## | 784 | 784 | WISCONSIN | 1971 | 24271.67 | 9903.02 | 3987.80 |
| ## | 785 | 785 | WISCONSIN | 1972 | 24747.06 | 10041.03 | 3995.29 |
| ## | 786 | 786 | WISCONSIN | 1973 | 25226.91 | 10214.01 | 4078.00 |
| ## | 787 | 787 | WISCONSIN | 1974 | 25539.33 | 10420.38 | 4170.32 |
| ## | 788 | 788 | WISCONSIN | 1975 | 25799.34 | 10502.77 | 4290.18 |
| ## | 789 | 789 | WISCONSIN | 1976 | 25842.14 | 10498.44 | 4359.98 |
| ## | 790 | 790 | WISCONSIN | 1977 | 25945.01 | 10554.33 | 4401.65 |
| ## | 791 | 791 | WISCONSIN | 1978 | 25858.17 | 10580.21 | 4415.95 |
| ## | 792 | 792 | WISCONSIN | 1979 | 25885.94 | 10564.08 | 4500.91 |
| ## | 793 | 793 | WISCONSIN | 1980 | 25894.16 | 10593.25 | 4507.19 |
| ## | 794 | 794 | WISCONSIN | 1981 | 25984.74 | 10647.18 | 4586.04 |
| | 795 | 795 | WISCONSIN | | 26034.63 | 10705.66 | 4668.07 |
| ## | 796 | 796 | WISCONSIN | | 26289.52 | 10843.84 | 4789.47 |
| ## | 797 | 797 | WISCONSIN | | 26225.89 | 10830.84 | 4956.72 |
| ## | 798 | 798 | WISCONSIN | | 26304.98 | 10872.29 | 5140.45 |
| ## | 799 | 799 | WISCONSIN | | 26400.60 | 10848.68 | 5292.62 |
| | 800 | 800 | WYOMING | | 3674.01 | 2696.26 | 282.35 |
| | 801 | 801 | WYOMING | | 3701.91 | 2736.69 | 275.04 |
| | 802 | 802 | WYOMING | | 3701.91 | 2760.91 | 270.68 |
| | 803 | 803 | WYOMING | | 3722.93 | 2785.44 | 261.83 |
| | 804 | 804 | WYOMING | | 3732.09 | 2804.60 | 258.49 |
| | 805 | 805 | WYOMING | | 3772.46 | 2796.67 | 262.73 |
| | 806 | 806 | WYOMING | | 3884.01 | 2804.28 | 273.45 |
| | 807 | 807 | WYOMING | | 4037.03 | 2898.34 | 291.64 |
| | 808 | 808 | WYOMING | | 4115.61 | 2920.85 | 294.73 |
| | 809 | 809 | WYOMING | | 4268.71 | 2950.53 | 313.47 |
| | 810 | 810 | WYOMING | | 4399.69 | 2979.23 | 338.06 |
| | 811 | 811 | WYOMING | | 4572.67 | 3005.62 | 379.19 |
| ## | 812 | 812 | WYOMING | 1982 | 4731.98 | 3060.64 | 408.43 |

| | 813 | | YOMING 1983 | 4950.82 | 3119.98 | 445.59 |
|----|-----|---------|------------------|---------|---------|--------|
| | 814 | | YOMING 1984 | 5184.73 | 3195.68 | 476.57 |
| | 815 | | YOMING 1985 | 5448.38 | 3295.92 | 523.01 |
| | 816 | | YOMING 1986 | 5700.41 | 3400.96 | 565.58 |
| ## | | | l public_capital | = | | |
| ## | | 6051.2 | | 28418 | 1010.5 | |
| ## | | 6254.9 | 8 37299.91 | 29375 | 1021.9 | |
| ## | | 6442.2 | | 31303 | 1072.3 | |
| ## | | 6756.1 | | 33430 | 1135.5 | |
| ## | | 7002.2 | | 33749 | 1169.8 | |
| ## | | 7405.7 | | 33604 | 1155.4 | |
| ## | 7 | 7704.9 | 3 50221.57 | 35764 | 1207.0 | |
| ## | | 7901.1 | 5 51084.99 | 37463 | 1269.2 | |
| ## | 9 | 8008.5 | 9 52604.05 | 39964 | 1336.5 | |
| ## | 10 | 8158.9 | 7 54525.86 | 40979 | 1362.0 | |
| ## | 11 | 8210.3 | 3 56589.16 | 40380 | 1356.1 | |
| ## | 12 | 8270.7 | 9 56481.93 | 41105 | 1347.6 | |
| ## | 13 | 8257.2 | 6 58021.69 | 40328 | 1312.5 | |
| ## | 14 | 8278.6 | 3 58893.97 | 42245 | 1328.8 | |
| ## | 15 | 8366.3 | 7 59446.86 | 45118 | 1387.7 | |
| ## | 16 | 8454.0 | 9 60688.04 | 46849 | 1427.1 | |
| ## | 17 | 8601.1 | 4 61628.88 | 48409 | 1463.3 | |
| ## | 18 | 3963.7 | 5 23585.99 | 19288 | 547.4 | |
| ## | 19 | 4231.2 | 3 24924.82 | 21040 | 581.4 | |
| ## | 20 | 4515.1 | 1 26058.65 | 23289 | 646.3 | |
| ## | 21 | 4986.9 | 2 27304.64 | 25244 | 714.5 | |
| ## | 22 | 5379.6 | 9 28829.44 | 25698 | 746.0 | |
| ## | 23 | 6000.7 | 7 30243.29 | 24915 | 729.1 | |
| ## | 24 | 6443.6 | 3 29384.15 | 26041 | 758.7 | |
| ## | 25 | 6843.5 | 0 30072.60 | 28110 | 809.3 | |
| ## | 26 | 7303.7 | 3 31139.49 | 31062 | 895.4 | |
| ## | 27 | 7812.0 | 1 32377.41 | 33943 | 979.9 | |
| ## | 28 | 8458.8 | 8 33769.92 | 34708 | 1014.0 | |
| ## | 29 | 9006.8 | 4 36387.15 | 35244 | 1040.8 | |
| ## | 30 | 9354.8 | 7 37332.09 | 33603 | 1029.8 | |
| ## | | 9574.9 | | 35963 | 1077.8 | |
| ## | 32 | 10115.8 | 6 38330.02 | 40010 | 1181.9 | |
| ## | 33 | 10394.9 | 7 39246.83 | 43350 | 1278.6 | |
| ## | 34 | 10735.8 | 8 44189.19 | 46058 | 1337.8 | |
| ## | 35 | 3320.5 | | 15392 | 536.2 | |
| ## | 36 | 3643.4 | | 16177 | 551.0 | |
| ## | 37 | 3860.4 | | 17702 | 581.5 | |
| ## | 38 | 3813.0 | | 18825 | 614.5 | |
| ## | 39 | 3799.4 | 4 22635.84 | 19287 | 640.7 | |
| | 40 | 3857.1 | | 19024 | 623.8 | |
| | 41 | 3975.1 | | 20277 | 660.0 | |
| ## | 42 | 4124.7 | | 21410 | 695.6 | |
| | 43 | 4147.8 | | 23063 | 732.7 | |
| | 44 | 4212.4 | | 23501 | 749.4 | |
| | 45 | 4283.4 | | 23210 | 742.3 | |
| | 46 | 4347.4 | | 24134 | 740.1 | |
| | 47 | 4331.9 | | 23462 | 720.1 | |
| | 48 | 4264.9 | | 24415 | 741.3 | |
| | 49 | 4165.5 | | 26512 | 780.2 | |
| | - | 1200.0 | | | | |

| ## | 50 | 4089.13 | 33229.46 | 27159 | 797.1 |
|----------|-----|--------------------|----------------------|----------------|------------------|
| ## | | 4173.84 | 32889.30 | 28168 | 813.8 |
| ## | | 67746.79 | 172791.92 | 263933 | 6946.2 |
| ## | | 69046.92 | 180864.28 | 265600 | 6917.0 |
| ## | | 69592.17 | 187587.86 | 281159 | 7209.9 |
| ## | | 69839.43 | 193535.82 | 293735 | 7621.9 |
| ## | | 70162.00 | 204096.43 | 298408 | 7834.3 |
| ## | 57 | 71133.44 | 213216.84 | 304518 | 7847.2 |
| ## | | 71598.89 | 221958.93 | 320160 | 8154.2 |
| ## | 59 | 71757.78 | 226544.27 | 338040 | 8599.7 |
| ## | 60 | 71379.60 | 233936.43 | 359603 | 9199.8 |
| ## | 61 | 71787.54 | 243776.26 | 374928 | 9664.6 |
| ## | 62 | 71253.16 | 255305.95 | 380221 | 9848.8 |
| ## | 63 | 71328.17 | 286402.55 | 378436 | 9985.3 |
| ## | 64 | 71239.48 | 297844.03 | 372541 | 9810.3 |
| ## | 65 | 70679.82 | 305210.16 | 390528 | 9965.8 |
| ## | 66 | 70433.71 | 312008.57 | 420525 | 10574.0 |
| ## | 67 | 70483.33 | 324335.15 | 444082 | 10979.0 |
| ## | 68 | 71099.80 | 363779.70 | 464550 | 11258.0 |
| ## | 69 | 4834.28 | 23709.75 | 25689 | 750.2 |
| ## | 70 | 4980.33 | 25186.80 | 27341 | 787.0 |
| | 71 | 5119.84 | 26010.17 | 29624 | 869.4 |
| | 72 | 5284.65 | 27387.44 | 32417 | 936.0 |
| ## | 73 | 5507.92 | 28763.31 | 33039 | 959.7 |
| | 74 | 5796.53 | 29939.43 | 33593 | 963.5 |
| | 75 | 6154.52 | 34680.90 | 35223 | 1003.4 |
| | 76 | 6525.79 | 35116.03 | 37429 | 1058.1 |
| | 77 | 6754.09 | 36213.58 | 40522 | 1150.0 |
| | 78 | 6926.75 | 37674.72 | 42917 | 1218.0 |
| | 79 | 7231.19 | 39349.98 | 43888 | 1251.1 |
| ## | | 7307.84 | 45660.95 | 44695 | 1295.2 |
| ## | | 7462.46 | 47010.56 | 45252 | 1316.6 |
| ## | | 7612.28 | 47724.11 | 46523 | 1327.2 |
| ## | | 7842.15 | 48372.91 | 49332 | 1402.3 |
| ## | | 8116.55 | 49793.31 | 50820 | 1418.7 |
| ## ## | 85 | 8400.50 6420.42 | 47485.05 | 51781 | 1408.3 |
| | | | 24082.38 | 38880 | 1197.5 |
| ## | | 6840.91 7296.80 | 25147.44 | 38515 | 1164.3 |
| | 88 | 7569.84 | 26191.58 | 40037 | 1190.4 |
| ## ## | | 7793.45 | 27301.99 28832.91 | 42157 | 1238.7 1264.0 |
| ## | | 8073.90 | 30306.10 | 41827 39870 | 1204.0 |
| ## | | 8179.59 | 27628.42 | 41326 | 1239.7 |
| ## | | 8129.91 | 28268.33 | 42976 | 1282.3 |
| ## | 94 | 8020.13 | 29207.04 | 44844 | 1346.1 |
| ## | 95 | 7918.05 | 30449.45 | 46008 | 1398.0 |
| ## | 96 | 7806.72 | 31844.08 | 45949 | 1426.8 |
| ## | 97 | 7770.67 | 31895.65 | 47397 | 1438.7 |
| ## | 98 | 7641.11 | 32967.44 | 47241 | 1429.8 |
| ## | 99 | 7447.65 | 33668.53 | 50594 | 1446.5 |
| ## | 100 | 7303.19 | 34439.31 | 55117 | 1520.5 |
| ## | 101 | 7142.44 | 35816.37 | 58263 | 1562.3 |
| ## | 102 | 7097.92 | 40413.22 | 61750 | 1604.2 |
| ## | 103 | 1937.77 | 6108.14 | 6863 | 216.8 |
| | | | · | | |

| ## | 104 | 2098.67 | 6361.22 | 7399 | 224.9 |
|----|-----|----------|-----------|--------|--------|
| ## | 105 | 2221.82 | 6602.65 | 7829 | 232.4 |
| ## | 106 | 2315.40 | 6892.09 | 8604 | 239.4 |
| ## | 107 | 2407.71 | 7263.84 | 7777 | 233.1 |
| ## | 108 | 2441.23 | 7624.03 | 7625 | 229.9 |
| ## | 109 | 2439.86 | 7706.19 | 8061 | 236.7 |
| ## | 110 | 2399.41 | 7845.75 | 8313 | 238.8 |
| ## | 111 | 2378.38 | 8100.95 | 8390 | 247.8 |
| | 112 | 2350.89 | 8435.96 | 8360 | 256.7 |
| | 113 | 2309.14 | 8811.38 | 8200 | 259.2 |
| | 114 | 2284.40 | 9049.52 | 8344 | 259.2 |
| | 115 | 2259.82 | 9327.72 | 8435 | 259.2 |
| | 116 | 2255.93 | 9486.76 | 8883 | 266.1 |
| | 117 | 2223.30 | 9630.61 | 9347 | 280.0 |
| | 118 | 2197.20 | 9921.23 | 9699 | 293.4 |
| | 119 | 2172.53 | 10655.00 | 10072 | 303.2 |
| ## | 120 | 12899.67 | 57178.05 | 69641 | 2152.1 |
| | 121 | 13526.49 | 60238.01 | 73170 | 2276.4 |
| ## | 122 | 14346.86 | 62873.97 | 81313 | 2513.1 |
| ## | 123 | 15212.91 | 66432.27 | 90897 | 2778.6 |
| ## | 124 | 15781.65 | 70452.68 | 92163 | 2863.8 |
| ## | 125 | 16582.51 | 73809.64 | 89502 | 2746.4 |
| ## | 126 | 17678.06 | 87196.50 | 90957 | 2784.3 |
| | 127 | 18198.72 | 88699.63 | 95449 | 2933.2 |
| | 128 | 18750.48 | 91517.51 | 103064 | 3180.6 |
| | 129 | 19260.59 | 95108.50 | 109121 | 3381.2 |
| | 130 | 19736.88 | 99248.64 | 113857 | 3576.2 |
| | 131 | 20156.15 | 108486.86 | 118145 | 3736.0 |
| | 132 | 20724.45 | 111867.96 | 118301 | 3761.9 |
| | 133 | 21650.87 | 113951.55 | 126322 | 3905.4 |
| | 134 | 22457.33 | 116417.20 | 136572 | 4204.2 |
| | 135 | 23681.04 | 120719.68 | 145171 | 4410.0 |
| | 136 | 24847.26 | 135673.02 | 152269 | 4599.4 |
| | 137 | 8178.48 | 41597.80 | 43105 | 1557.5 |
| | 138 | 8914.03 | 43732.94 | 45438 | 1602.9 |
| | 139 | 9568.54 | 45402.82 | 49402 | 1695.2 |
| | 140 | 10071.47 | 47422.01 | 52824 | 1802.5 |
| | 141 | 10358.19 | 49969.83 | 52390 | 1827.5 |
| | 142 | 10723.22 | 52261.84 | 50900 | 1755.7 |
| | 143 | 11081.48 | 56287.82 | 54469 | 1839.1 |
| ## | 144 | 11323.60 | 56992.14 | 58085 | 1926.4 |
| ## | 145 | 11635.78 | 58642.67 | 61607 | 2050.1 |
| ## | 146 | 12228.86 | 60866.47 | 63825 | 2127.5 |
| ## | 147 | 12934.18 | 63341.08 | 64216 | 2159.4 |
| ## | 148 | 13470.89 | 67537.87 | 66352 | 2198.6 |
| ## | 149 | 13919.41 | 69347.75 | 66766 | 2201.5 |
| ## | 150 | 14202.38 | 70436.24 | 71485 | 2279.5 |
| ## | 151 | 14569.68 | 71624.33 | 78797 | 2448.7 |
| ## | 152 | 14848.38 | 73979.66 | 83461 | 2569.8 |
| ## | 153 | 15403.46 | 83458.28 | 88827 | 2672.4 |
| ## | 154 | 948.67 | 9202.07 | 7175 | 207.8 |
| ## | 155 | 1046.52 | 9488.47 | 7255 | 217.1 |
| ## | 156 | 1074.64 | 9756.40 | 7898 | 236.5 |
| ## | 157 | 1101.51 | 10251.95 | 8352 | 251.7 |

| | 158 | 1118.44 | 10725.66 | 8970 | 266.8 |
|----|-----|----------|-----------|--------|--------|
| | 159 | 1181.11 | 11134.59 | 9099 | 273.0 |
| | 160 | 1292.56 | 12401.79 | 9709 | 291.0 |
| | 161 | 1377.31 | 12498.22 | 9967 | 307.4 |
| | 162 | 1434.70 | 12813.38 | 10828 | 331.3 |
| | 163 | 1498.47 | 13264.09 | 10924 | 338.0 |
| | 164 | 1540.85 | 13771.17 | 11002 | 330.0 |
| | 165 | 1577.00 | 13808.97 | 10959 | 327.8 |
| | 166 | 1603.36 | 14020.30 | 10432 | 312.2 |
| | 167 | 1593.63 | 14028.64 | 10879 | 317.9 |
| | 168 | 1598.95 | 14049.02 | 11262 | 330.5 |
| | 169 | 1598.36 | 14290.67 | 11815 | 336.0 |
| | 170 | 1598.44 | 13612.16 | 11672 | 328.2 |
| | 171 | 22252.68 | 114860.83 | 145792 | 4345.6 |
| | 172 | 23384.86 | 119783.11 | 148503 | 4296.4 |
| | 173 | 24261.85 | 124239.59 | 154413 | 4314.8 |
| | 174 | 25032.14 | 129514.10 | 163125 | 4466.9 |
| | 175 | 26071.09 | 136292.35 | 161725 | 4545.7 |
| | 176 | 26728.17 | 142558.62 | 157366 | 4418.9 |
| | 177 | 27256.29 | 140831.43 | 163112 | 4565.7 |
| | 178 | 27695.71 | 146285.62 | 168627 | 4655.5 |
| | 179 | 27791.28 | 150855.46 | 173767 | 4788.8 |
| | 180 | 27904.24 | 156751.98 | 173817 | 4880.0 |
| | 181 | 27718.08 | 163355.48 | 165722 | 4850.3 |
| | 182 | 27619.33 | 150688.85 | 166029 | 4732.3 |
| | 183 | 27277.69 | 154806.13 | 159778 | 4593.3 |
| | 184 | 26832.94 | 157095.80 | 160856 | 4530.6 |
| | 185 | 26383.99 | 159388.00 | 173602 | 4672.3 |
| | 186 | 26142.86 | 164794.50 | 178493 | 4755.3 |
| | 187 | 26046.72 | 161198.99 | 183849 | 4790.7 |
| | 188 | 9093.83 | 63646.79 | 56769 | 1849.0 |
| ## | 189 | 9605.74 | 65528.57 | 58540 | 1841.1 |
| | 190 | 10046.81 | 67722.97 | 61613 | 1921.9 |
| | 191 | 10587.15 | 70189.83 | 66534 | 2028.1 |
| ## | 192 | 10820.17 | 73448.90 | 64313 | 2031.4 |
| ## | 193 | 10974.88 | 76823.26 | 61200 | 1941.7 |
| | 194 | 11063.10 | 74736.15 | 65479 | 2023.8 |
| | 195 | 11083.12 | 77477.95 | 68832 | 2114.0 |
| | 196 | 11094.31 | 79763.07 | 71717 | 2205.5 |
| | 197 | 11126.23 | 82742.13 | 72047 | 2236.3 |
| | 198 | 11083.41 | 86012.21 | 67930 | 2129.5 |
| | 199 | 11146.90 | 80364.43 | 68135 | 2114.4 |
| | 200 | 11192.68 | 82361.44 | 64042 | 2028.0 |
| ## | 201 | 11141.74 | 83359.59 | 65211 | 2029.5 |
| ## | 202 | 11042.58 | 83946.98 | 70975 | 2122.3 |
| ## | 203 | 10997.08 | 85849.71 | 73392 | 2168.6 |
| ## | 204 | 10980.47 | 87053.98 | 75924 | 2221.8 |
| ## | 205 | 4666.14 | 33400.46 | 29173 | 876.9 |
| ## | 206 | 4932.67 | 34819.44 | 29312 | 882.7 |
| ## | 207 | 5005.33 | 35846.90 | 31159 | 912.3 |
| ## | 208 | 5073.62 | 37693.89 | 33798 | 961.3 |
| | 209 | 5069.54 | 39460.57 | 33591 | 999.0 |
| | 210 | 5169.08 | 41068.52 | 34378 | 998.7 |
| ## | 211 | 5314.33 | 43868.88 | 35752 | 1036.9 |

| ## | 212 | 5395.98 | 46649.69 | 37277 | 1079.2 |
|----|-----|---------|-----------|-------|--------|
| ## | 213 | 5396.38 | 47977.54 | 39087 | 1119.2 |
| ## | 214 | 5495.97 | 49653.76 | 39863 | 1131.7 |
| ## | 215 | 5597.40 | 51530.31 | 38919 | 1109.9 |
| ## | 216 | 5707.25 | 47985.77 | 40630 | 1088.6 |
| ## | 217 | 5821.07 | 48698.55 | 37634 | 1041.9 |
| ## | 218 | 5869.42 | 48731.50 | 35937 | 1040.4 |
| ## | 219 | 5753.11 | 48741.81 | 38704 | 1074.7 |
| | 220 | 5682.34 | 49781.83 | 39344 | 1074.2 |
| | 221 | 5644.84 | 43209.95 | 40425 | 1073.8 |
| | 222 | 3677.32 | 33207.74 | 26311 | 678.8 |
| | 223 | 3981.34 | 34117.09 | 26950 | 677.8 |
| | 224 | 4099.80 | 34862.71 | 28330 | 717.5 |
| | 225 | 4255.17 | 36179.12 | 29486 | 763.3 |
| | 226 | 4381.44 | 37588.65 | 29506 | 790.0 |
| | 227 | 4650.19 | 38828.22 | 29530 | 801.2 |
| | 228 | 4762.47 | 41282.58 | 30655 | 834.8 |
| | 229 | 4941.35 | 41246.04 | 31032 | 871.0 |
| | 230 | 5137.97 | 42277.86 | 32232 | 912.5 |
| | 231 | 5455.90 | 43689.61 | 33680 | 946.8 |
| | 232 | 5670.69 | 45281.71 | 32844 | 944.7 |
| | 233 | 5883.27 | 47858.83 | 33707 | 949.7 |
| | 234 | 5959.84 | 49569.38 | 33287 | 921.4 |
| | 235 | 5858.35 | 49688.66 | 33638 | 921.4 |
| | 236 | 5816.94 | 49959.27 | 35582 | 960.8 |
| | 237 | 5740.71 | 51037.85 | 36560 | 967.9 |
| | 238 | 5673.29 | 51347.26 | 37783 | 984.8 |
| | 239 | 5307.01 | 30525.64 | 32182 | 910.1 |
| | 240 | 5715.17 | 31822.72 | 33276 | 931.5 |
| | 240 | 5853.96 | 32994.50 | 35351 | 988.3 |
| | | | | | |
| | 242 | 5965.55 | 34039.58 | 37305 | 1038.6 |
| | 243 | 6117.59 | 35741.89 | 37458 | 1065.9 |
| | 244 | 6211.97 | 37366.28 | 36717 | 1057.6 |
| | 245 | 6337.29 | 41587.55 | 39138 | 1103.1 |
| | 246 | 6467.91 | 42985.92 | 41137 | 1148.3 |
| | 247 | 6593.24 | 44402.66 | 43098 | 1209.9 |
| | 248 | 6684.60 | 46082.95 | 44188 | 1245.4 |
| | 249 | 6854.46 | 47878.44 | 42637 | 1210.0 |
| | 250 | 6994.74 | 47983.96 | 43595 | 1196.0 |
| | 251 | 6984.21 | 49141.96 | 42286 | 1160.7 |
| | 252 | 6789.20 | 49720.78 | 42668 | 1152.3 |
| | 253 | 6625.79 | 50066.78 | 45998 | 1213.8 |
| | 254 | 6525.48 | 51135.28 | 46753 | 1250.3 |
| | 255 | 6481.89 | 51911.38 | 47502 | 1274.1 |
| | 256 | 7086.12 | 97802.38 | 62666 | 1033.6 |
| | 257 | 7169.00 | 99483.90 | 64851 | 1055.9 |
| | 258 | 7725.31 | 100299.59 | 67439 | 1128.6 |
| | 259 | 8068.78 | 101336.45 | 67100 | 1176.1 |
| | 260 | 8267.34 | 103761.88 | 64919 | 1220.8 |
| ## | 261 | 8470.76 | 106564.55 | 63128 | 1249.5 |
| ## | 262 | 8589.19 | 100358.47 | 66338 | 1314.4 |
| | 263 | 8818.04 | 102931.73 | 68209 | 1364.6 |
| | 264 | 9069.94 | 106574.97 | 72221 | 1463.5 |
| ## | 265 | 9209.56 | 111082.30 | 73681 | 1517.4 |
| | | | | | |

| ## | 266 | 9367.30 | 117127.42 | 75312 | 1578.9 |
|-----|-----|----------|-----------|---------|--------|
| ## | 267 | 9564.78 | 117911.54 | 77342 | 1630.5 |
| ## | 268 | 9721.23 | 124453.54 | 75743 | 1607.0 |
| ## | 269 | 9850.82 | 128610.28 | 72535 | 1565.2 |
| ## | 270 | 9962.60 | 130129.72 | 75349 | 1601.5 |
| ## | 271 | 10133.22 | 133300.12 | 73777 | 1591.2 |
| ## | 272 | 10070.74 | 134624.42 | 68508 | 1518.5 |
| ## | 273 | 1179.39 | 9305.13 | 8844 | 332.2 |
| ## | 274 | 1248.46 | 9582.60 | 8958 | 332.3 |
| ## | 275 | 1326.92 | 9906.21 | 9449 | 343.7 |
| ## | 276 | 1329.01 | 10255.45 | 9949 | 354.8 |
| ## | 277 | 1359.42 | 10747.95 | 9976 | 361.5 |
| ## | 278 | 1435.12 | 11224.50 | 9672 | 356.9 |
| ## | 279 | 1464.69 | 11017.15 | 10555 | 375.3 |
| ## | 280 | 1467.79 | 11201.57 | 10916 | 387.8 |
| ## | 281 | 1419.50 | 11494.06 | 11434 | 405.6 |
| ## | 282 | 1405.36 | 11929.56 | 11765 | 415.9 |
| ## | 283 | 1414.64 | 12404.60 | 11731 | 418.3 |
| ## | 284 | 1409.24 | 11733.60 | 12013 | 419.2 |
| ## | 285 | 1406.72 | 12095.07 | 12099 | 415.5 |
| ## | 286 | 1389.35 | 12308.54 | 12813 | 425.0 |
| ## | 287 | 1387.53 | 12475.82 | 13652 | 445.7 |
| ## | 288 | 1378.60 | 12817.15 | 14238 | 458.4 |
| ## | 289 | 1359.97 | 13919.23 | 15056 | 477.4 |
| ## | 290 | 7570.64 | 29115.59 | 42971 | 1349.2 |
| ## | 291 | 8110.79 | 30631.20 | 44111 | 1371.5 |
| ## | 292 | 8769.25 | 31964.23 | 46121 | 1415.0 |
| ## | 293 | 9377.71 | 33413.53 | 48728 | 1471.5 |
| ## | 294 | 9861.66 | 35364.63 | 48514 | 1493.6 |
| ## | 295 | 10463.09 | 37135.88 | 47751 | 1479.3 |
| ## | 296 | 11020.03 | 35089.36 | 49228 | 1498.3 |
| ## | 297 | 11438.15 | 35875.05 | 50507 | 1545.6 |
| ## | 298 | 11829.94 | 37068.32 | 52317 | 1625.8 |
| ## | 299 | 12237.64 | 38627.83 | 52804 | 1691.3 |
| ## | 300 | 12506.75 | 40397.33 | 52361 | 1711.8 |
| | 301 | 12884.49 | 40578.02 | 53231 | 1715.8 |
| | 302 | 12901.82 | 41844.34 | 52583 | 1675.8 |
| | 303 | 12863.92 | 42589.53 | 55323 | 1724.1 |
| | 304 | 12861.42 | 43493.99 | 58925 | 1814.0 |
| | 305 | 12660.18 | 45119.15 | 62179 | 1887.8 |
| | 306 | 12701.94 | 49257.92 | 65408 | 1952.0 |
| | 307 | 11141.18 | 37917.57 | 64429 | 2243.5 |
| | 308 | 11943.51 | 39727.03 | 65276 | 2211.4 |
| | 309 | 12821.72 | 41461.37 | 68096 | 2251.7 |
| | 310 | 13976.94 | 43388.76 | 70876 | 2333.5 |
| | 311 | 15162.30 | 45943.04 | 68955 | 2353.7 |
| | 312 | 16109.18 | 48221.47 | 66448 | 2273.1 |
| | 313 | 16452.76 | 45024.55 | 68467 | 2323.5 |
| | 314 | 16707.46 | 46061.69 | 71258 | 2416.0 |
| | 315 | 16612.37 | 47564.53 | 73575 | 2526.3 |
| | 316 | 16567.56 | 49564.81 | 75180 | 2603.5 |
| | 317 | 16837.63 | 51862.37 | 75289 | 2652.2 |
| | 318 | 16855.91 | 54146.22 | 77490 | 2668.3 |
| | 319 | 16836.47 | 55990.97 | 77166 | 2638.0 |
| п.ш | 010 | 10000.11 | 2000.01 | . 1 100 | 2000.0 |

| ## | 320 | 16866.96 | 57244.08 | 82489 | 2692.5 |
|----|-----|----------|-----------|--------|--------|
| ## | 321 | 16940.19 | 58684.77 | 90684 | 2851.8 |
| ## | 322 | 17041.78 | 61180.21 | 96698 | 2926.0 |
| ## | 323 | 17251.86 | 69574.24 | 102279 | 2984.8 |
| ## | 324 | 18379.42 | 84755.95 | 102172 | 2999.0 |
| ## | 325 | 19190.33 | 87827.03 | 107116 | 2995.0 |
| ## | 326 | 19402.02 | 91039.26 | 113837 | 3118.9 |
| ## | 327 | 19532.75 | 94302.49 | 122991 | 3284.3 |
| ## | 328 | 19745.17 | 99072.42 | 115796 | 3277.6 |
| ## | 329 | 20311.41 | 103711.23 | 109217 | 3136.6 |
| ## | 330 | 20861.88 | 104330.83 | 119929 | 3283.0 |
| ## | 331 | 21132.41 | 106687.08 | 129279 | 3442.3 |
| ## | 332 | 21163.79 | 109995.68 | 135247 | 3609.4 |
| ## | 333 | 21218.27 | 114436.69 | 132845 | 3637.1 |
| ## | 334 | 21281.74 | 119398.08 | 121360 | 3442.8 |
| ## | 335 | 21352.04 | 112346.20 | 118356 | 3364.4 |
| ## | 336 | 21316.04 | 115911.34 | 108627 | 3193.3 |
| ## | 337 | 21012.58 | 118105.75 | 114259 | 3223.1 |
| ## | 338 | 20634.78 | 119778.97 | 123886 | 3381.0 |
| ## | 339 | 20604.47 | 123249.89 | 131417 | 3561.5 |
| ## | 340 | 20517.06 | 125148.83 | 136433 | 3657.3 |
| ## | 341 | 7981.36 | 43287.56 | 41734 | 1315.3 |
| ## | 342 | 8580.04 | 45132.89 | 42467 | 1310.2 |
| ## | 343 | 9218.14 | 46882.97 | 44123 | 1357.1 |
| ## | 344 | 9748.98 | 48841.94 | 47805 | 1436.1 |
| ## | 345 | 10021.65 | 51426.02 | 47482 | 1481.0 |
| ## | 346 | 10356.08 | 53798.39 | 46967 | 1474.4 |
| ## | 347 | 10724.65 | 49634.58 | 48795 | 1520.9 |
| ## | 348 | 11041.03 | 51784.08 | 51661 | 1597.3 |
| ## | 349 | 11128.96 | 53517.11 | 54138 | 1689.3 |
| ## | 350 | 11235.14 | 55679.83 | 56239 | 1767.0 |
| ## | 351 | 11258.90 | 58050.22 | 55874 | 1770.2 |
| ## | 352 | 11509.07 | 58041.33 | 56748 | 1761.3 |
| ## | 353 | 11544.29 | 59374.92 | 55919 | 1707.3 |
| ## | 354 | 11499.93 | 59871.42 | 57167 | 1718.4 |
| ## | 355 | 11405.14 | 60369.40 | 62730 | 1819.8 |
| ## | 356 | 11537.35 | 61935.21 | 65463 | 1864.8 |
| ## | 357 | 11679.01 | 60525.85 | 68117 | 1892.5 |
| ## | 358 | 4254.87 | 22569.14 | 17306 | 583.9 |
| ## | 359 | 4521.82 | 23557.96 | 18027 | 602.2 |
| ## | 360 | 4633.44 | 24157.50 | 19340 | 649.3 |
| ## | 361 | 4661.69 | 24473.04 | 20605 | 693.2 |
| ## | 362 | 4649.04 | 25485.57 | 20208 | 710.8 |
| ## | 363 | 4766.11 | 26426.83 | 20184 | 692.3 |
| ## | 364 | 4882.64 | 28130.16 | 22282 | 727.5 |
| ## | 365 | 4931.48 | 28447.98 | 23628 | 765.9 |
| ## | 366 | 4990.03 | 29243.06 | 24880 | 813.7 |
| ## | 367 | 5025.54 | 30326.78 | 25611 | 838.1 |
| ## | 368 | 5063.94 | 31541.40 | 25082 | 829.3 |
| ## | 369 | 5083.17 | 32193.92 | 26017 | 819.1 |
| ## | 370 | 5064.02 | 33198.66 | 25537 | 790.9 |
| | 371 | 4966.40 | 33751.34 | 25570 | 792.8 |
| ## | 372 | 4808.60 | 34052.06 | 27342 | 820.8 |
| ## | 373 | 4700.88 | 34822.24 | 27778 | 838.9 |

| ## | 374 | 4618.14 | 34116.19 | 27987 | 848.2 |
|----|-----|---------|----------|-------|--------|
| | 375 | | | | |
| | | 7381.12 | 43905.35 | 50196 | 1668.0 |
| | 376 | 7763.50 | 46044.28 | 51945 | 1660.8 |
| | 377 | 8202.85 | 47785.13 | 54198 | 1700.1 |
| | 378 | 8762.66 | 49585.63 | 56789 | 1770.6 |
| | 379 | 9029.55 | 52270.92 | 55056 | 1789.5 |
| | 380 | 9183.98 | 54632.86 | 53932 | 1740.6 |
| | 381 | 9278.30 | 54083.75 | 57183 | 1797.8 |
| | 382 | 9310.05 | 55279.22 | 60424 | 1861.8 |
| | 383 | 9246.57 | 56916.63 | 63375 | 1953.1 |
| | 384 | 9205.17 | 59048.79 | 64333 | 2011.1 |
| | 385 | 9168.55 | 61409.73 | 61574 | 1969.8 |
| ## | 386 | 9283.69 | 61738.44 | 62540 | 1956.3 |
| ## | 387 | 9301.16 | 63186.99 | 61226 | 1922.4 |
| ## | 388 | 9209.99 | 63907.08 | 63655 | 1937.0 |
| ## | 389 | 9069.39 | 64752.02 | 68490 | 2032.7 |
| ## | 390 | 9054.68 | 66783.29 | 70830 | 2094.7 |
| ## | 391 | 9037.86 | 68087.26 | 72629 | 2142.6 |
| ## | 392 | 1043.45 | 14320.39 | 7896 | 199.1 |
| ## | 393 | 1068.56 | 14461.39 | 7829 | 204.8 |
| ## | 394 | 1069.09 | 14730.06 | 8524 | 215.3 |
| ## | 395 | 1094.33 | 15347.47 | 8948 | 224.2 |
| ## | 396 | 1132.59 | 15871.08 | 9176 | 234.0 |
| ## | 397 | 1173.43 | 16347.55 | 9288 | 238.1 |
| ## | 398 | 1214.20 | 18140.99 | 9524 | 251.1 |
| ## | 399 | 1243.99 | 18199.92 | 9675 | 264.8 |
| ## | 400 | 1272.61 | 18653.37 | 10580 | 280.4 |
| ## | 401 | 1341.06 | 19264.06 | 10952 | 283.8 |
| ## | 402 | 1414.02 | 19941.84 | 11114 | 280.4 |
| ## | 403 | 1467.63 | 19265.48 | 11394 | 281.8 |
| ## | 404 | 1465.20 | 19724.98 | 11007 | 273.7 |
| ## | 405 | 1429.77 | 19877.97 | 10911 | 276.0 |
| | 406 | 1410.99 | 19888.70 | 10817 | 281.1 |
| | 407 | 1424.71 | 20199.10 | 10323 | 279.1 |
| | 408 | 1456.97 | 19414.55 | 10763 | 275.4 |
| | 409 | 4034.52 | 19160.51 | 16067 | 484.3 |
| | 410 | 4461.20 | 19747.34 | 16648 | 490.8 |
| | 411 | 4875.63 | 20268.79 | 17429 | 517.0 |
| | 412 | 5273.60 | 21324.54 | 18284 | 541.3 |
| | 413 | 5636.69 | 22286.74 | 18151 | 562.1 |
| | 414 | 6010.44 | 23106.64 | 18717 | 557.8 |
| | 415 | 6432.33 | 24592.23 | 19189 | 572.1 |
| | 416 | 6793.64 | 24992.27 | 19563 | 593.7 |
| | 417 | 7269.37 | 25629.40 | 20298 | 609.9 |
| | 418 | 7821.08 | 26477.07 | 20943 | 631.2 |
| | 419 | 8164.06 | 27424.29 | 20575 | 627.6 |
| | 420 | 8341.77 | 29177.88 | 21777 | 623.2 |
| | 421 | 8461.08 | 29566.74 | 21244 | 609.8 |
| | 422 | 8458.22 | 29555.66 | 20647 | 610.8 |
| | 423 | 8389.81 | 29573.43 | 22164 | 635.4 |
| | 424 | 8291.11 | 30189.60 | 23300 | 650.5 |
| | 425 | 8230.68 | 28468.92 | 23673 | 652.5 |
| | 426 | 1311.21 | 10805.73 | 7354 | 203.3 |
| | 427 | 1353.76 | 11252.01 | 7599 | 210.5 |
| ## | 421 | 1000.10 | 11202.01 | 1033 | 210.5 |

| ## | 428 | 1430.73 | 11706.31 | 8076 | 223.4 |
|----|------------|--------------------|--------------------|----------------|----------------|
| | 429 | 1535.66 | 12261.06 | 8774 | 244.6 |
| | 430 | 1627.70 | 12901.95 | 8861 | 256.1 |
| | 431 | 1729.28 | 13377.10 | 9084 | 263.1 |
| | 432 | 1796.21 | 15048.03 | 9720 | 279.8 |
| | 433 | 1827.37 | 15231.21 | 10673 | 308.2 |
| | 434 | 1844.14 | 15437.13 | 12233 | 350.3 |
| | 435 | 1905.53 | 15781.26 | 13343 | 383.7 |
| | 436 | 1946.91 | 16264.91 | 13991 | 399.9 |
| | 437 | 2027.68 | 17556.21 | 14365 | 411.2 |
| | 438 | 2127.88 | 17981.16 | 13796 | 401.1 |
| | 439 | 2192.36 | 18297.17 | 14103 | 402.8 |
| | 440 | 2241.92 | 18813.07 | 14790 | 426.0 |
| | 441 | 2299.35 | 19705.62 | 15474 | 446.4 |
| | 442 | 2345.55 | 22724.26 | 16092 | 468.1 |
| | 443 | 941.63 | 5957.55 | 6852 | 258.5 |
| | 444 | 1028.95 | 6436.54 | 7042 | 259.9 |
| | 445 | 1108.37 | 6680.89 | 7516 | 278.5 |
| | 446 | 1179.87 | 6965.50 | 8098 | 297.8 |
| | 447 | 1190.86 | 7332.32 | 8016 | 300.3 |
| | 448 449 | 1218.73 | 7671.07 | 7819 | 292.8 |
| | 449 450 | 1272.44 | 7536.15 7674.13 | 8470 | 313.4 |
| | 450 451 | 1350.35 | | 9084 | 337.1 359.6 |
| | 451 | 1410.14 1428.85 | 7886.88 8200.74 | 10002 10572 | 378.5 |
| | 452 | 1446.56 | 8562.82 | 10738 | 385.4 |
| | 454 | 1446.42 | 9134.69 | 11332 | 394.6 |
| | 455 | 1415.59 | 9412.72 | 11606 | 394.4 |
| | 456 | 1395.82 | 9575.38 | 12743 | 409.5 |
| | 457 | 1373.34 | 9751.27 | 14100 | 441.5 |
| | 458 | 1345.08 | 10057.05 | 15541 | 466.0 |
| | 459 | 1343.91 | 11863.55 | 17073 | 490.1 |
| | 460 | 10508.80 | 57996.40 | 86366 | 2606.2 |
| | 461 | 11264.07 | 59928.09 | 89073 | 2607.6 |
| | 462 | 12007.61 | 62437.39 | 93384 | 2672.5 |
| | 463 | 12345.07 | 65220.99 | 97847 | 2759.7 |
| | 464 | 12726.11 | 68911.99 | 94864 | 2783.0 |
| | 465 | 13362.75 | 72364.36 | 90693 | 2699.9 |
| | 466 | 13766.27 | 65688.10 | 94049 | 2753.7 |
| | 467 | 14017.37 | 67158.09 | 97370 | 2836.9 |
| | 468 | 14182.81 | 69360.18 | 101593 | 2961.9 |
| | 469 | 14220.29 | 72312.47 | 103350 | 3027.2 |
| | 470 | 14290.51 | 75670.48 | 102571 | 3060.4 |
| | 471 | 14324.53 | 77193.36 | 105835 | 3098.9 |
| ## | 472 | 14595.64 | 79782.27 | 106705 | 3092.8 |
| ## | 473 | 14696.88 | 81590.08 | 113408 | 3165.1 |
| ## | 474 | 14686.65 | 83749.02 | 121388 | 3329.2 |
| ## | 475 | 14650.02 | 87514.13 | 126460 | 3414.1 |
| | 476 | 14588.46 | 95540.08 | 133468 | 3489.9 |
| ## | 477 | 2022.44 | 18909.26 | 12837 | 292.6 |
| ## | 478 | 2029.41 | 19467.69 | 13284 | 305.7 |
| ## | 479 | 2053.14 | 19864.93 | 13874 | 327.5 |
| ## | 480 | 2103.74 | 20592.77 | 14588 | 346.0 |
| ## | 481 | 2136.37 | 21314.16 | 15247 | 360.2 |
| | | | | | |

| ## | 482 | 2177.66 | 21958.76 | 15541 | 370.2 |
|----|-----|---------------------|-----------|-----------------|--------|
| | 483 | 2248.71 | 23919.97 | 15932 | 390.0 |
| | 484 | 2332.92 | 24441.46 | 16932 | 415.4 |
| | 485 | 2394.43 | 25269.39 | 18122 | 444.3 |
| | 486 | 2463.18 | 26247.31 | 19078 | 461.0 |
| | 487 | 2552.60 | 27361.11 | 19664 | 465.4 |
| | 488 | 2663.68 | 26939.76 | 20265 | 475.5 |
| | 489 | 2731.23 | 28025.98 | 20023 | 473.6 |
| | 490 | 2823.58 | 28657.43 | 20283 | 479.5 |
| | 490 | 2909.89 | 28916.61 | 21331 | 502.8 |
| | 491 | 3049.69 | 29544.48 | 21741 | 520.2 |
| | 492 | | 30208.23 | | |
| | 493 | 3188.45 61682.14 | 136663.66 | 21154 242791 | 525.9 |
| | | | | | 7156.4 |
| | 495 | 64528.42 | 142795.91 | 245018 | 7011.4 |
| | 496 | 68072.70 | 149415.66 | 251249 | 7038.5 |
| | 497 | 71964.82 | 157017.53 | 258498 | 7132.2 |
| | 498 | 75762.25 | 166920.58 | 250208 | 7077.1 |
| | 499 | 78704.03 | 175080.71 | 242463 | 6829.9 |
| | 500 | 80642.95 | 153578.05 | 245161 | 6789.5 |
| | 501 | 80728.14 | 156804.67 | 251092 | 6857.6 |
| | 502 | 80566.85 | 162223.44 | 254194 | 7044.5 |
| | 503 | 79961.03 | 169324.73 | 254314 | 7179.4 |
| | 504 | 78888.13 | 177499.16 | 249770 | 7207.1 |
| | 505 | 77537.26 | 173471.27 | 256199 | 7287.3 |
| | 506 | 76328.03 | 179574.26 | 255686 | 7254.6 |
| | 507 | 75911.43 | 183921.34 | 267916 | 7313.3 |
| | 508 | 75171.54 | 189443.48 | 285080 | 7570.4 |
| | 509 | 75006.37 | 199426.84 | 296381 | 7751.3 |
| | 510 | 75237.07 | 199092.60 | 309273 | 7907.9 |
| | 511 | 6815.68 | 43497.41 | 48047 | 1782.7 |
| | 512 | 7243.65 | 46378.35 | 50127 | 1813.8 |
| | 513 | 7547.86 | 48129.87 | 54624 | 1911.9 |
| | 514 | 7813.07 | 49858.52 | 57975 | 2018.1 |
| | 515 | 8004.09 | 52460.28 | 57546 | 2048.2 |
| | 516 | 8360.16 | 54990.14 | 56288 | 1979.9 |
| | 517 | 8789.33 | 57959.71 | 59462 | 2082.7 |
| ## | 518 | 9252.54 | 59106.74 | 62681 | 2170.4 |
| | 519 | 9500.55 | 60848.16 | 66409 | 2277.4 |
| ## | 520 | 9767.29 | 63150.19 | 68039 | 2373.0 |
| ## | 521 | 10292.49 | 65641.48 | 68065 | 2380.0 |
| ## | 522 | 10499.90 | 67293.41 | 70395 | 2391.6 |
| ## | 523 | 10599.74 | 69071.06 | 69128 | 2347.0 |
| ## | 524 | 10640.14 | 70037.15 | 73553 | 2419.2 |
| ## | 525 | 10632.06 | 70834.50 | 80020 | 2565.2 |
| ## | 526 | 10690.68 | 72753.04 | 83170 | 2651.2 |
| ## | 527 | 11024.30 | 84000.92 | 87371 | 2744.1 |
| ## | 528 | 1148.30 | 11571.80 | 6024 | 163.6 |
| ## | 529 | 1173.15 | 11843.02 | 6551 | 167.0 |
| ## | 530 | 1174.22 | 12036.32 | 7015 | 176.1 |
| ## | 531 | 1187.01 | 12675.35 | 8120 | 183.9 |
| ## | 532 | 1191.58 | 13112.72 | 8000 | 193.8 |
| ## | 533 | 1222.72 | 13488.09 | 8267 | 203.6 |
| ## | 534 | 1240.67 | 15078.43 | 8167 | 215.0 |
| ## | 535 | 1260.58 | 15049.51 | 8077 | 221.1 |
| | | | | | |

| | F06 | 1010 10 | 45007 40 | 0000 | 004.0 |
|----|-----|----------|-----------|--------|--------|
| | 536 | 1249.10 | 15397.12 | 9020 | 234.0 |
| | 537 | 1261.33 | 15889.87 | 9562 | 244.2 |
| | 538 | 1282.89 | 16426.81 | 9525 | 245.2 |
| | 539 | 1318.70 | 20919.99 | 10532 | 249.4 |
| | 540 | 1318.18 | 21461.22 | 10293 | 249.7 |
| | 541 | 1344.54 | 21655.24 | 9700 | 250.6 |
| | 542 | 1343.81 | 21663.82 | 10043 | 252.5 |
| | 543 | 1340.13 | 22019.74 | 9884 | 252.0 |
| | 544 | 1343.70 | 21556.51 | 9806 | 249.9 |
| | 545 | 16621.59 | 106396.06 | 121293 | 3880.7 |
| | 546 | 17723.55 | 110274.99 | 122871 | 3839.6 |
| | 547 | 18440.00 | 114219.33 | 128649 | 3938.4 |
| | 548 | 19292.23 | 118487.46 | 137636 | 4112.9 |
| | 549 | 19794.25 | 124345.66 | 134923 | 4169.4 |
| | 550 | 20246.59 | 130164.06 | 127128 | 4016.2 |
| | 551 | 21024.99 | 123122.24 | 133697 | 4094.6 |
| | 552 | 21881.51 | 126663.68 | 140466 | 4230.1 |
| | 553 | 22421.61 | 130514.81 | 146947 | 4394.9 |
| | 554 | 22683.09 | 135552.69 | 147766 | 4484.8 |
| ## | 555 | 22729.93 | 141143.03 | 140782 | 4367.4 |
| ## | 556 | 22889.95 | 130138.76 | 141743 | 4317.7 |
| ## | 557 | 22987.83 | 133828.40 | 134204 | 4124.3 |
| ## | 558 | 22815.02 | 135942.45 | 137411 | 4092.5 |
| ## | 559 | 22740.88 | 137605.78 | 147979 | 4260.2 |
| ## | 560 | 22290.03 | 141449.34 | 152689 | 4372.9 |
| ## | 561 | 22089.14 | 139129.61 | 156541 | 4471.4 |
| ## | 562 | 3948.89 | 38990.92 | 33262 | 762.6 |
| ## | 563 | 4059.04 | 40190.70 | 33879 | 774.4 |
| ## | 564 | 4195.95 | 40932.34 | 35190 | 811.9 |
| ## | 565 | 4633.60 | 41815.94 | 36333 | 851.9 |
| ## | 566 | 4701.03 | 43288.99 | 36110 | 886.9 |
| ## | 567 | 4942.83 | 44637.52 | 35967 | 899.7 |
| ## | 568 | 5222.08 | 49044.39 | 37376 | 931.1 |
| ## | 569 | 5382.55 | 49679.55 | 39235 | 971.5 |
| ## | 570 | 5484.88 | 51180.23 | 41564 | 1035.7 |
| ## | 571 | 5616.29 | 53110.66 | 43535 | 1087.9 |
| ## | 572 | 5817.46 | 55318.19 | 44944 | 1138.1 |
| ## | 573 | 6101.08 | 63264.52 | 47236 | 1201.2 |
| ## | 574 | 6339.19 | 65824.58 | 48700 | 1216.9 |
| ## | 575 | 6499.26 | 67358.60 | 46425 | 1170.6 |
| ## | 576 | 6661.26 | 68096.06 | 47499 | 1180.3 |
| ## | 577 | 6852.59 | 69848.25 | 47178 | 1165.3 |
| ## | 578 | 7015.33 | 64625.86 | 45928 | 1124.4 |
| ## | 579 | 3921.39 | 22546.05 | 22350 | 710.5 |
| ## | 580 | 4112.59 | 23425.25 | 23280 | 729.1 |
| ## | 581 | 4158.15 | 24286.22 | 25356 | 774.7 |
| ## | 582 | 4240.64 | 25304.46 | 26976 | 816.2 |
| ## | 583 | 4737.40 | 26641.39 | 27744 | 838.2 |
| ## | 584 | 4927.46 | 27836.41 | 27474 | 837.4 |
| ## | 585 | 5201.85 | 30422.64 | 29559 | 878.5 |
| ## | 586 | 5339.24 | 31180.19 | 31397 | 936.9 |
| ## | 587 | 5640.77 | 32072.20 | 33793 | 1009.2 |
| ## | 588 | 5864.62 | 33272.01 | 35296 | 1056.0 |
| ## | 589 | 6050.53 | 34618.64 | 34762 | 1044.6 |

| ## | 590 | 6247.10 | 36469.81 | 33614 | 1018.7 |
|----|-----|----------|-----------|--------|--------|
| ## | 591 | 6358.04 | 37341.17 | 31148 | 961.1 |
| ## | 592 | 6308.57 | 37792.98 | 31899 | 966.7 |
| ## | 593 | 6292.70 | 38276.78 | 33747 | 1006.9 |
| ## | 594 | 6290.43 | 39308.40 | 34769 | 1030.0 |
| ## | 595 | 6300.93 | 37419.60 | 35934 | 1058.5 |
| ## | 596 | 22047.83 | 105738.93 | 129967 | 4351.6 |
| ## | 597 | 23476.44 | 109965.27 | 130120 | 4291.3 |
| ## | 598 | 24977.05 | 114031.51 | 136028 | 4400.0 |
| ## | 599 | 26134.60 | 118691.16 | 142970 | 4506.5 |
| ## | 600 | 26885.28 | 124688.11 | 140616 | 4514.6 |
| ## | 601 | 27646.23 | 130578.37 | 135828 | 4435.8 |
| ## | 602 | 28090.92 | 124414.86 | 140178 | 4512.8 |
| ## | 603 | 28561.39 | 127274.82 | 144091 | 4565.2 |
| ## | 604 | 28426.98 | 131212.42 | 148130 | 4716.2 |
| ## | 605 | 28255.68 | 136305.43 | 149431 | 4806.1 |
| ## | 606 | 28346.47 | 141870.43 | 145367 | 4753.1 |
| ## | 607 | 28344.83 | 132965.78 | 146570 | 4728.9 |
| ## | 608 | 28076.61 | 136800.58 | 141282 | 4580.1 |
| ## | 609 | 27795.12 | 139072.15 | 143923 | 4524.3 |
| ## | 610 | 27872.58 | 141054.14 | 151405 | 4654.8 |
| ## | 611 | 27784.41 | 145339.04 | 155809 | 4730.3 |
| ## | 612 | 27563.10 | 145433.99 | 160862 | 4790.9 |
| ## | 613 | 1473.37 | 5437.28 | 9824 | 344.1 |
| ## | 614 | 1581.31 | 5610.11 | 9849 | 342.8 |
| ## | 615 | 1697.34 | 5845.79 | 10247 | 358.1 |
| ## | 616 | 1755.15 | 6109.18 | 10496 | 365.9 |
| ## | 617 | 1769.75 | 6470.03 | 9888 | 367.0 |
| ## | 618 | 1770.11 | 6799.79 | 9433 | 349.2 |
| ## | 619 | 1781.06 | 6123.78 | 9968 | 366.7 |
| ## | 620 | 1801.90 | 6286.71 | 10323 | 381.7 |
| ## | 621 | 1769.88 | 6499.15 | 10610 | 395.8 |
| ## | 622 | 1748.08 | 6803.93 | 10734 | 400.0 |
| ## | 623 | 1725.25 | 7154.94 | 10518 | 398.3 |
| ## | 624 | 1712.92 | 7057.35 | 10848 | 401.4 |
| ## | 625 | 1670.79 | 7323.77 | 10592 | 390.5 |
| ## | 626 | 1653.83 | 7503.27 | 11022 | 396.3 |
| | 627 | 1629.50 | 7684.10 | 12011 | 416.4 |
| ## | 628 | 1590.94 | 8001.04 | 12572 | 429.2 |
| ## | 629 | 1569.50 | 8191.84 | 13283 | 442.5 |
| ## | 630 | 3152.11 | 24322.74 | 20924 | 842.0 |
| ## | 631 | 3403.39 | 26387.60 | 21626 | 862.6 |
| ## | 632 | 3527.22 | 27298.70 | 23156 | 920.3 |
| ## | 633 | 3730.40 | 28224.77 | 24919 | 984.0 |
| ## | 634 | 3943.79 | 29549.55 | 25153 | 1015.8 |
| ## | 635 | 4353.87 | 30901.75 | 24483 | 982.6 |
| ## | 636 | 4703.64 | 34992.84 | 26304 | 1038.1 |
| ## | 637 | 5060.31 | 35544.29 | 27791 | 1081.7 |
| ## | 638 | 5260.99 | 36518.61 | 29587 | 1137.5 |
| ## | 639 | 5466.48 | 37807.33 | 30989 | 1176.0 |
| ## | 640 | 5769.91 | 39198.08 | 31303 | 1188.8 |
| | 641 | 6066.85 | 40311.84 | 32533 | 1196.4 |
| | 642 | 6405.63 | 41342.05 | 31940 | 1162.3 |
| ## | 643 | 6591.27 | 41914.56 | 33914 | 1189.0 |

| ## | 644 | 6638.11 | 42318.87 | 36736 | 1262.5 |
|----|-----|----------|-----------|-----------------------|--------|
| | 645 | 6617.87 | 43299.52 | 37687 | 1296.2 |
| | 646 | 6718.14 | 48248.27 | 39281 | 1338.0 |
| | 647 | 880.23 | 9202.46 | 5864 | 175.4 |
| | 648 | 912.26 | 9436.08 | 6065 | 179.0 |
| | 649 | 940.78 | 9688.61 | 6481 | 189.9 |
| | 650 | 991.66 | 10017.65 | 7048 | 199.1 |
| | 651 | 1033.61 | 10458.03 | 6936 | 206.6 |
| | 652 | 1112.12 | 10832.66 | 7154 | 200.0 |
| | 653 | 1112.12 | 11153.46 | 6922 | 218.6 |
| | 654 | 1263.05 | 11058.96 | 7411 | 226.6 |
| | | 1330.97 | 11324.24 | | |
| | 655 | | 11686.06 | 7800 81 <i>6</i> 4 | 236.6 |
| | 656 | 1425.71 | | 8164 | 241.4 |
| | 657 | 1494.98 | 12084.49 | 7841 | 238.0 |
| | 658 | 1547.83 | 11911.36 | 8009 | 236.0 |
| | 659 | 1583.10 | 12036.85 | 7835 | 230.2 |
| | 660 | 1567.01 | 11996.73 | 7660 | 235.3 |
| | 661 | 1541.04 | 11982.06 | 8200 | 247.0 |
| | 662 | 1514.07 | 12209.44 | 8418 | 249.4 |
| | 663 | 1526.14 | 11305.15 | 8760 | 251.9 |
| | 664 | 8881.70 | 38417.96 | 34769 | 1327.6 |
| | 665 | 9310.70 | 40374.38 | 36771 | 1356.8 |
| | 666 | 9703.64 | 41983.03 | 40403 | 1450.1 |
| | 667 | 10025.31 | 43491.51 | 43424 | 1531.1 |
| | 668 | 10171.34 | 45836.89 | 43052 | 1558.2 |
| | 669 | 10568.95 | 48060.68 | 42098 | 1505.7 |
| | 670 | 10926.15 | 51076.68 | 45309 | 1575.4 |
| | 671 | 11162.86 | 52181.92 | 47941 | 1648.1 |
| | 672 | 11261.78 | 53812.70 | 51630 | 1737.0 |
| | 673 | 11411.71 | 55904.10 | 52759 | 1777.3 |
| | 674 | 11487.78 | 58207.51 | 51810 | 1746.6 |
| | 675 | 11609.50 | 58678.19 | 52804 | 1755.4 |
| | 676 | 11594.79 | 60244.50 | 51967 | 1703.0 |
| | 677 | 11408.41 | 61160.01 | 54217 | 1719.0 |
| | 678 | 11199.59 | 62031.97 | 58810 | 1812.0 |
| | 679 | 11069.53 | 63885.31 | 61337 | 1867.8 |
| ## | 680 | 11003.00 | 65065.24 | 64124 | 1929.8 |
| ## | 681 | 19345.25 | 213676.41 | 160922 | 3624.9 |
| | 682 | 20198.19 | 220715.86 | 164088 | 3683.5 |
| ## | 683 | 20770.47 | 224933.82 | 172360 | 3884.4 |
| ## | 684 | 21746.62 | 229705.43 | 183467 | 4141.7 |
| ## | 685 | 23182.68 | 237780.47 | 189079 | 4360.2 |
| ## | 686 | 24359.78 | 245917.64 | 193920 | 4462.9 |
| ## | 687 | 25265.62 | 270830.23 | 205542 | 4683.7 |
| ## | 688 | 26208.59 | 274770.61 | 218733 | 4906.8 |
| ## | 689 | 27067.33 | 283942.50 | 232319 | 5271.6 |
| ## | 690 | 28069.78 | 295486.62 | 240424 | 5601.8 |
| ## | 691 | 29107.92 | 308526.88 | 244359 | 5851.2 |
| ## | 692 | 30610.47 | 334167.45 | 254691 | 6180.0 |
| ## | 693 | 31658.99 | 349440.59 | 254508 | 6263.4 |
| ## | 694 | 32343.03 | 359069.09 | 257245 | 6193.6 |
| ## | 695 | 33412.51 | 364324.47 | 273685 | 6492.4 |
| ## | 696 | 34860.23 | 375341.60 | 283388 | 6663.1 |
| ## | 697 | 36146.60 | 362209.94 | 276313 | 6564.2 |
| | | | | | |

| ## | 698 | 2724.19 | 11252.62 | 10750 | 357.0 |
|----|-----|--------------------|----------------------|-------|--------------|
| | 699 | 2745.23 | 11621.13 | 11242 | 369.3 |
| | 700 | 2765.36 | 11981.62 | 12083 | 393.0 |
| | | | | | |
| | 701 | 2831.40 2896.24 | 12493.50 13079.28 | 12850 | 414.8 |
| | 702 | | | 13267 | 434.1 |
| | 703 | 3013.28 | 13616.96 | 13482 | 440.3 |
| | 704 | 3142.26 | 16090.73 | 14315 | 462.8 |
| | 705 | 3269.49 | 16584.22 | 15324 | 488.7 |
| | 706 | 3373.46 | 17142.71 | 16611 | 525.4 |
| | 707 | 3499.69 | 17874.79 | 17291 | 548.4 |
| | 708 | 3616.81 | 18707.02 | 17639 | 550.8 |
| | 709 | 3810.25 | 19165.89 | 18093 | 558.0 |
| | 710 | 4036.49 | 19798.38 | 17892 | 560.9 |
| | 711 | 4309.84 | 20132.57 | 18570 | 566.9 |
| | 712 | 4781.57 | 20339.64 | 20177 | 601.2 |
| | 713 | 5489.39 | 20850.77 | 20920 | 624.3 |
| | 714 | 6374.59 | 22757.30 | 21193 | 634.1 |
| | 715 | 538.49 | 4052.71 | 4354 | 147.9 |
| | 716 | 618.38 | 4250.30 | 4438 | 148.1 |
| ## | 717 | 689.19 | 4402.86 | 4611 | 153.6 |
| ## | 718 | 729.22 | 4577.60 | 4801 | 161.3 |
| ## | 719 | 743.27 | 4806.48 | 4652 | 162.8 |
| ## | 720 | 792.19 | 5017.84 | 4528 | 162.1 |
| | 721 | 798.49 | 4790.14 | 4760 | 168.4 |
| ## | 722 | 794.41 | 4805.94 | 4913 | 178.4 |
| ## | 723 | 774.08 | 4926.20 | 5363 | 190.6 |
| ## | 724 | 790.48 | 5105.86 | 5569 | 197.9 |
| ## | 725 | 821.87 | 5308.11 | 5634 | 200.1 |
| ## | 726 | 823.96 | 5514.75 | 5875 | 204.3 |
| ## | 727 | 820.21 | 5671.16 | 5871 | 202.9 |
| ## | 728 | 801.59 | 5756.72 | 6261 | 206.4 |
| ## | 729 | 775.93 | 5832.70 | 6669 | 214.9 |
| ## | 730 | 763.34 | 6001.79 | 7142 | 224.7 |
| ## | 731 | 770.78 | 6939.39 | 7585 | 234.4 |
| ## | 732 | 6791.24 | 34706.84 | 48269 | 1518.9 |
| ## | 733 | 7256.95 | 36795.57 | 50049 | 1567.2 |
| ## | 734 | 7642.02 | 38243.38 | 52927 | 1655.2 |
| ## | 735 | 7901.07 | 39992.09 | 56762 | 1753.4 |
| ## | 736 | 8085.60 | 42155.45 | 57441 | 1804.3 |
| ## | 737 | 8447.10 | 44147.96 | 57290 | 1778.7 |
| ## | 738 | 8735.77 | 48475.72 | 60122 | 1848.1 |
| ## | 739 | 8800.06 | 49402.95 | 63151 | 1930.4 |
| ## | 740 | 8851.74 | 50991.39 | 66445 | 2033.5 |
| ## | 741 | 8933.12 | 53106.81 | 68123 | 2115.0 |
| ## | 742 | 9067.75 | 55464.07 | 68787 | 2157.2 |
| ## | 743 | 9190.51 | 57163.94 | 70711 | 2160.8 |
| ## | 744 | 9180.58 | 58820.49 | 70375 | 2146.4 |
| ## | 745 | 9070.77 | 59774.36 | 74360 | 2206.9 |
| | 746 | 9021.70 | 60756.37 | 79329 | 2333.3 |
| | 747 | 8933.68 | 62710.66 | 83143 | 2454.7 |
| | 748 | 8959.83 | 71355.78 | 88171 | 2557.7 |
| | 749 | 13657.76 | 37406.43 | 39224 | 1079.4 |
| | 750 | 14238.46 | 39258.70 | 38966 | 1064.5 |
| | 751 | 14899.05 | 40764.39 | 40535 | 1100.1 |
| | | | | | - |

| ## | 750 | 15161.10 | 40007 10 | 12170 | 1152.3 |
|----|------------|----------|----------|----------------|--------|
| | 752 | | 42227.19 | 43470 | |
| | 753 | 15407.43 | 44463.18 | 45385 | 1199.1 |
| | 754 | 15561.32 | 46519.96 | 46367 | 1225.7 |
| | 755 | 15850.49 | 50312.30 | 48697 | 1282.9 |
| | 756 | 16246.42 | 51506.38 | 51511 | 1367.0 |
| | 757 | 16814.01 | 52994.95 | 56875 | 1485.4 |
| | 758 | 18160.86 | 54907.23 | 60175 | 1581.2 |
| ## | 759 | 19558.46 | 57001.52 | 59796 | 1608.3 |
| ## | 760 | 20794.81 | 60190.96 | 58977 | 1612.0 |
| ## | 761 | 22176.13 | 61677.79 | 56745 | 1568.6 |
| ## | 762 | 23626.17 | 62465.52 | 58828 | 1586.1 |
| ## | 763 | 24301.68 | 63256.31 | 61507 | 1659.6 |
| ## | 764 | 24406.90 | 64929.03 | 63664 | 1710.4 |
| ## | 765 | 24355.32 | 66033.81 | 67158 | 1769.9 |
| ## | 766 | 1839.17 | 24310.26 | 18063 | 516.5 |
| ## | 767 | 2038.49 | 25312.77 | 18438 | 520.0 |
| ## | 768 | 2146.91 | 26202.33 | 19314 | 540.5 |
| ## | 769 | 2163.39 | 27227.32 | 19741 | 561.6 |
| ## | 770 | 2160.88 | 28458.57 | 19041 | 572.4 |
| ## | 771 | 2263.77 | 29691.14 | 19029 | 574.7 |
| ## | 772 | 2386.45 | 32491.78 | 20292 | 596.3 |
| ## | 773 | 2496.71 | 33448.52 | 21193 | 611.6 |
| ## | 774 | 2564.53 | 34622.97 | 22036 | 633.1 |
| | 775 | 2741.45 | 35916.40 | 22592 | 658.6 |
| ## | 776 | 2843.63 | 37252.50 | 22349 | 645.9 |
| | 777 | 2905.97 | 34681.29 | 22053 | 628.5 |
| | 778 | 2870.96 | 35504.01 | 21370 | 607.8 |
| | 779 | 2771.64 | 35932.73 | 20822 | 582.3 |
| | 780 | 2702.30 | 36068.20 | 21615 | 596.6 |
| | 781 | 2636.10 | 36549.44 | 21629 | 597.2 |
| | 782 | 2605.38 | 35781.74 | 21705 | 597.5 |
| | 783 | 9906.84 | 39311.00 | 45301 | 1530.4 |
| | 784 | 10380.86 | 40880.50 | 46505 | 1525.4 |
| | 785 | 10710.74 | 42260.97 | 48879 | 1580.8 |
| | 786 | 10934.89 | 43778.56 | 52062 | 1660.5 |
| | 787 | 10948.63 | 45934.43 | 51830 | 1703.4 |
| | 788 | 11006.39 | 47948.09 | 50930 | 1676.8 |
| | 789 | 10983.72 | 48872.43 | 53853 | 1725.9 |
| | 790 | 10989.03 | 50089.81 | 57055 | 1798.9 |
| | 791 | 10862.01 | 51469.93 | 59908 | 1887.0 |
| | 792 | 10820.95 | 53386.11 | 61689 | 1960.2 |
| | 793 | 10793.72 | 55505.34 | 60255 | 1938.1 |
| | 794 | 10751.52 | 54915.52 | 60815 | 1923.2 |
| | 794 795 | 10660.90 | 56262.51 | 59558 | 1866.7 |
| | 796 | 10656.21 | 56912.51 | | 1864.6 |
| | 797 | 10438.33 | 57440.23 | 61053 65461 | 1949.2 |
| | | | 58904.79 | | |
| | 798 | 10292.24 | | 67469 | 1983.1 |
| | 799 | 10259.30 | 60241.65 | 70171 | 2023.9 |
| | 800 | 695.41 | 14309.75 | 7924 7504 | 108.3 |
| | 801 | 690.19 | 14459.14 | 7504 7807 | 111.0 |
| | 802 | 670.32 | 14583.78 | 7807 | 117.3 |
| | 803 | 675.66 | 14936.34 | 8067 | 126.1 |
| | 804 | 669.00 | 15284.90 | 8831 | 136.5 |
| ## | 805 | 713.06 | 15670.00 | 8949 | 146.0 |

| | | | 40500 45 | 0055 | |
|----|-----|-------------------|----------|-------|-------|
| | 806 | 806.27 | 19539.47 | 9057 | 156.5 |
| | 807 | 847.04 | 19977.67 | 9779 | 170.5 |
| | 808 | 900.04 | 20760.24 | 11038 | 187.4 |
| | 809 | 1004.71 | 21643.50 | 11988 | 200.7 |
| | 810 | 1082.40 | 22628.22 | 13027 | 210.2 |
| | 811 | 1187.86 | 26330.20 | 13717 | 223.5 |
| | 812 | 1262.90 | 27724.96 | 13056 | 217.7 |
| | 813 | 1385.25 | 28586.46 | 11922 | 202.5 |
| | 814 | 1512.48 | 28794.80 | 12073 | 204.3 |
| | 815 | 1629.45 | 29326.94 | 12022 | 206.9 |
| | 816 | 1733.88 | 27110.51 | 10870 | 196.3 |
| ## | | unemployment_rate | | | |
| ## | | 4.7 | | | |
| ## | | 5.2 | | | |
| ## | | 4.7 | | | |
| ## | 4 | 3.9 | | | |
| ## | 5 | 5.5 | | | |
| ## | | 7.7 | | | |
| ## | 7 | 6.8 | | | |
| ## | 8 | 7.4 | | | |
| ## | 9 | 6.3 | | | |
| ## | 10 | 7.1 | | | |
| ## | 11 | 8.8 | | | |
| ## | 12 | 11.0 | | | |
| ## | 13 | 14.0 | | | |
| ## | 14 | 14.0 | | | |
| ## | 15 | 11.0 | | | |
| ## | 16 | 8.9 | | | |
| ## | 17 | 9.8 | | | |
| ## | 18 | 4.4 | | | |
| ## | 19 | 4.7 | | | |
| ## | 20 | 4.2 | | | |
| ## | 21 | 4.1 | | | |
| ## | 22 | 5.6 | | | |
| ## | 23 | 12.0 | | | |
| ## | 24 | 9.8 | | | |
| ## | 25 | 8.2 | | | |
| ## | 26 | 6.1 | | | |
| ## | 27 | 5.1 | | | |
| ## | 28 | 6.7 | | | |
| ## | 29 | 6.1 | | | |
| ## | 30 | 9.9 | | | |
| ## | | 9.1 | | | |
| | 32 | 5.0 | | | |
| ## | 33 | 6.5 | | | |
| | 34 | 6.9 | | | |
| ## | | 5.0 | | | |
| | 36 | 5.4 | | | |
| | 37 | 4.6 | | | |
| | 38 | 4.1 | | | |
| ## | | 4.8 | | | |
| ## | | 9.5 | | | |
| ## | | 7.1 | | | |
| | 42 | 6.6 | | | |
| | | 0.0 | | | |

| ## | 43 | | 6.4 |
|----------|----------|--|------------|
| ## | 44 | | 6.2 |
| ## | 45 | | 7.6 |
| ## | 46 | | 9.1 |
| ## | 47 | | 9.8 |
| ## | 48 | | 10.0 |
| ## | 49 | | 8.9 |
| ## | 50 | | 8.7 |
| ## | 51 | | 8.7 |
| ## | 52 | | 7.2 |
| ## | 53 | | 8.8 |
| ## | 54 | | 7.6 |
| ## | 55 | | 7.0 |
| ## | 56 | | 7.7 |
| ## | 57 50 | | 9.9 |
| ## | 58 E0 | | 9.2 |
| ## ## | 59 60 | | 8.2 |
| ## | 61 | | 7.1 6.2 |
| ## | 62 | | 6.8 |
| ## | 63 | | 7.4 |
| ## | 64 | | 9.9 |
| ## | 65 | | 9.7 |
| ## | 66 | | 7.8 |
| ## | 67 | | 7.2 |
| ## | 68 | | 6.7 |
| ## | 69 | | 4.4 |
| ## | 70 | | 4.0 |
| ## | 71 | | 3.6 |
| ## | 72 | | 3.4 |
| ## | 73 | | 3.8 |
| ## | 74 | | 6.9 |
| ## | 75 | | 5.9 |
| ## | 76 | | 6.2 |
| ## | 77 | | 5.6 |
| ## | 78 | | 4.8 |
| ## | 79 | | 5.9 |
| ## | 80 | | 5.5 |
| ## | 81 | | 7.7 |
| ## | 82 | | 6.6 |
| ## | 83 | | 5.6 |
| ## | 84 | | 5.9 |
| ## | 85 | | 7.4 |
| ## | 86 | | 5.6 |
| ## | 87 | | 8.9 |
| ## | 88 | | 8.2 |
| ## | 89 | | 5.7 |
| ## | 90 | | 6.2 |
| ## | 91 | | 9.1 |
| ## | 92 | | 9.5 |
| ## | 93 | | 7.0 |
| ## | 94 | | 5.3 |
| ## | 95 | | 5.1 |
| ## | 96 | | 5.9 |

| ## | 97 | 6.2 | • |
|----------|------------|------------|---|
| ## | 98 | 6.9 | į |
| ## | 99 | 6.0 | |
| ## | 100 | 4.6 | |
| ## | 101 | 4.9 | |
| ## | 102 | 3.8 | |
| ## | 103 | 4.8 | |
| ## | 104 | 5.7 | |
| ## | 105 | 4.7 | |
| ## | 106 | 4.6 | |
| ## | 107 | 6.0 | |
| ## | 108 | 9.7 | |
| ## | 109 | 8.9 | |
| ## | 110 | 8.4 | |
| ## | 111 | 7.5 | |
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| ## | 545 | 5.4 |
| ## | 546 | 6.5 |
| ## | 547 | 5.5 |
| ## | 548 | 4.3 |
| ## | 549 | 5.0 |
| ## | 550 | 9.1 |
| ## | 551 | 7.8 |
| ## | 552 | 6.5 |
| ## | 553 | 5.4 |
| ## | 554 | 5.9 |
| ## | 555 | 8.4 |
| ## | 556 | 9.6 |
| ## | 557 | 13.0 |
| ## | 558 | 12.0 |
| ## | 559 | 9.4 |
| ## | 560 | 8.9 |
| ## | 561 | 8.1 |
| ## | 562 | 4.4 |
| ## | 563 | 4.9 |
| ## | 564 | 4.5 |
| ## | 565 | 4.2 |
| ## | 566 | 4.4 |
| ## | 567 | 7.2 |
| ## | 568 | 5.6 |
| ## | 569 | 5.0 |
| ## | 570 | 3.9 |
| ## | 571 | 3.4 |
| ## | 572 | 4.8 |
| ## | 573 | 3.6 |
| ## | 574 | 5.7 |
| ## | 575 | 9.0 |
| ## | 576 | 7.0 |
| ## | 577 | 7.1 |
| ## | 578 | 8.2 |
| ## | 579 | 6.2 |
| ## | 580 | 6.6 |
| ## | 581 | 5.7 |
| ## | 582 | 5.3 |
| | | |

| ## | 583 | 7. | |
|----|-----|-----|-----|
| ## | 584 | 11. | |
| ## | 585 | 9. | |
| ## | 586 | | . 4 |
| ## | 587 | 6. | |
| ## | 588 | 6. | |
| ## | 589 | 8. | |
| ## | 590 | 9. | . 9 |
| ## | 591 | 12. | |
| ## | 592 | 11. | |
| ## | 593 | | . 4 |
| ## | 594 | 8. | |
| ## | 595 | 8. | |
| ## | 596 | 4. | |
| ## | 597 | | . 4 |
| ## | 598 | | . 4 |
| ## | 599 | 4. | . 8 |
| ## | 600 | 5. | |
| ## | 601 | 8. | |
| ## | 602 | 7. | |
| ## | 603 | 7. | . 7 |
| ## | 604 | 6. | . 9 |
| ## | 605 | 6. | . 9 |
| ## | 606 | 7. | . 8 |
| ## | 607 | 8. | . 4 |
| ## | 608 | 11. | . 0 |
| ## | 609 | 12. | . 0 |
| ## | 610 | 9. | . 1 |
| ## | 611 | 8. | . 0 |
| ## | 612 | 6. | . 8 |
| ## | 613 | 5. | . 2 |
| ## | 614 | 6. | . 8 |
| ## | 615 | 6. | . 5 |
| ## | 616 | 6. | . 2 |
| ## | 617 | 7. | . 3 |
| ## | 618 | 11. | . 0 |
| ## | 619 | 8. | . 1 |
| ## | 620 | 8. | . 6 |
| ## | 621 | 6. | . 6 |
| ## | 622 | 6. | . 6 |
| ## | 623 | 7. | . 2 |
| ## | 624 | 7. | . 6 |
| ## | 625 | 10. | . 0 |
| ## | 626 | 8. | . 3 |
| ## | 627 | 5. | . 3 |
| ## | 628 | 4. | . 9 |
| ## | 629 | 4. | . 0 |
| ## | 630 | 5. | . 0 |
| ## | 631 | 5. | . 3 |
| ## | 632 | 4. | . 2 |
| ## | 633 | 3. | . 7 |
| ## | 634 | 4. | |
| ## | 635 | 8. | |
| ## | 636 | | . 9 |
| | | | |

| ## | 637 | 7.2 |
|----|-----|------|
| ## | 638 | 5.7 |
| ## | 639 | 5.0 |
| ## | 640 | 6.9 |
| ## | 641 | 8.4 |
| ## | 642 | 11.0 |
| ## | 643 | 10.0 |
| ## | 644 | 7.1 |
| ## | 645 | 6.8 |
| ## | 646 | 6.2 |
| ## | 647 | 3.3 |
| ## | 648 | 3.7 |
| ## | 649 | 3.7 |
| ## | 650 | 3.3 |
| ## | 651 | 3.5 |
| ## | 652 | 3.7 |
| ## | 653 | 3.4 |
| ## | 654 | 3.3 |
| ## | 655 | 3.0 |
| ## | 656 | 3.5 |
| ## | 657 | 4.9 |
| ## | 658 | 5.1 |
| ## | 659 | 5.5 |
| ## | 660 | 5.4 |
| ## | 661 | 4.3 |
| ## | 662 | 5.1 |
| ## | 663 | 4.7 |
| ## | 664 | 4.8 |
| ## | 665 | 5.0 |
| ## | 666 | 3.6 |
| ## | 667 | 3.0 |
| ## | 668 | 3.9 |
| ## | 669 | 8.3 |
| ## | 670 | 6.0 |
| ## | 671 | 6.3 |
| ## | 672 | 5.8 |
| ## | 673 | 5.8 |
| ## | 674 | 7.3 |
| ## | 675 | 9.1 |
| ## | 676 | 12.0 |
| ## | 677 | 12.0 |
| ## | 678 | 8.6 |
| ## | 679 | 8.0 |
| ## | 680 | 8.0 |
| ## | 681 | 4.4 |
| ## | 682 | 4.9 |
| ## | 683 | 4.5 |
| ## | 684 | 3.9 |
| ## | 685 | 4.3 |
| ## | 686 | 5.6 |
| ## | 687 | 5.7 |
| ## | 688 | 5.3 |
| ## | 689 | 4.8 |
| ## | 690 | 4.2 |
| пπ | 000 | 7.2 |

| ## | 691 | 5.2 |
|----------|------------|------------|
| ## | 692 | 5.3 |
| ## | 693 | 6.9 |
| ## | 694 | 8.0 |
| ## | 695 | 5.9 |
| ## | 696 | 7.0 |
| ## | 697 | 8.9 |
| ## | 698 | 6.1 |
| ## | 699 | 6.4 |
| ## | 700 | 6.1 |
| ## | 701 | 5.7 |
| ## | 702 | 5.9 |
| ## | 703 | 6.5 |
| ## | 704 | 5.7 |
| ## | 705 | 5.3 |
| ## | 706 | 3.8 |
| ## | 707 | 4.3 |
| ## | 708 | 6.3 6.7 |
| ## | 709 710 | 7.8 |
| ## | 711 | 9.2 |
| ## ## | 712 | 6.5 |
| ## | 713 | 5.9 |
| ## | 714 | 6.0 |
| ## | 715 | 4.9 |
| ## | 716 | 6.8 |
| ## | 717 | 6.5 |
| ## | 718 | 5.6 |
| ## | 719 | 6.9 |
| ## | 720 | 9.4 |
| ## | 721 | 8.7 |
| ## | 722 | 7.0 |
| ## | 723 | 5.9 |
| ## | 724 | 5.1 |
| ## | 725 | 6.4 |
| ## | 726 | 5.7 |
| ## | 727 | 6.9 |
| ## | 728 | 6.9 |
| ## | 729 | 5.2 |
| ## | 730 | 4.8 |
| ## | 731 | 4.7 |
| ## | 732 | 3.4 |
| ## | 733 | 3.6 |
| ## | 734 | 3.6 |
| ## | 735 | 3.6 |
| ## | 736 | 4.0 |
| ## | 737 | 6.4 |
| ## | 738 | 5.9 |
| ## | 739 | 5.3 |
| ## | 740 | 5.4 |
| ## | 741 | 4.7 |
| ## | 742 | 5.0 |
| ## | 743 | 6.1 |
| ## | 744 | 7.7 |
| | | |

| ## | 745 | 6.1 |
|----|------|------|
| ## | 746 | 5.0 |
| ## | 747 | 5.6 |
| ## | 748 | 5.0 |
| ## | 749 | 9.1 |
| ## | 750 | 10.0 |
| ## | 751 | 9.5 |
| ## | 752 | 7.7 |
| ## | 753 | 7.2 |
| ## | 754 | 9.5 |
| ## | 755 | 8.7 |
| ## | 756 | 8.8 |
| ## | 757 | 6.9 |
| ## | 758 | 6.8 |
| ## | 759 | 7.9 |
| ## | 760 | 9.5 |
| ## | 761 | 12.0 |
| ## | 762 | 11.0 |
| ## | 763 | 9.5 |
| ## | 764 | 8.1 |
| ## | 765 | 8.2 |
| ## | 766 | 6.1 |
| ## | 767 | 6.5 |
| ## | 768 | 6.5 |
| ## | 769 | 5.7 |
| ## | 770 | 5.9 |
| ## | 771 | 8.5 |
| ## | 772 | 7.5 |
| ## | 773 | 7.1 |
| ## | 774 | 6.2 |
| ## | 775 | 6.7 |
| ## | 776 | 7.9 |
| ## | 777 | 11.0 |
| ## | 778 | 14.0 |
| ## | 779 | 18.0 |
| ## | 780 | 15.0 |
| ## | 781 | 13.0 |
| ## | 782 | 12.0 |
| ## | 783 | 3.9 |
| ## | 784 | 4.5 |
| ## | 785 | 4.2 |
| ## | 786 | 4.1 |
| ## | 787 | 4.6 |
| ## | 788 | 6.9 |
| ## | 789 | 5.6 |
| ## | 790 | 4.9 |
| ## | 791 | 5.1 |
| ## | 792 | 4.5 |
| ## | 793 | 7.2 |
| ## | 794 | 7.8 |
| ## | 795 | 11.0 |
| ## | 796 | 10.0 |
| ## | 797 | 7.3 |
| ## | 798 | 7.2 |
| # | . 50 | 1.2 |

```
## 799
                      7.0
## 800
                      4.5
## 801
                      4.5
## 802
                      4.0
## 803
                      3.5
## 804
                      3.6
## 805
                      4.2
                      4.1
## 806
## 807
                      3.6
## 808
                      3.3
## 809
                      2.8
                      4.0
## 810
## 811
                      4.1
## 812
                      5.8
## 813
                      8.4
## 814
                      6.3
## 815
                      7.1
## 816
                      9.0
```

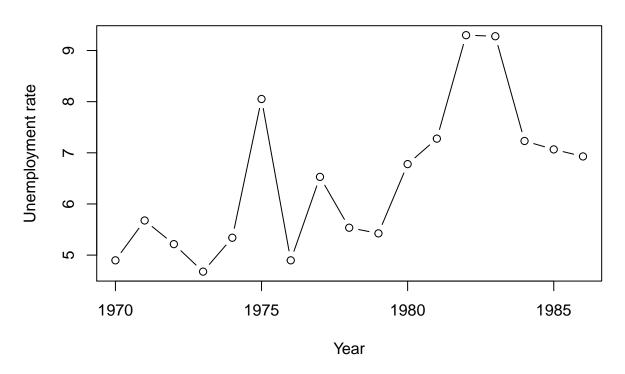
2. Visualize the following analytical perspectives using plots!

• Unemployment rate between 1970 and 1986 in the United States.

```
# Mean Unemployment rate per year
y1970 <- subset(us_states_productions, year == 1970)
rate1970 <- mean(y1970$unemployment_rate)</pre>
y1971 <- subset(us_states_productions, year == 1971)
rate1971 <- mean(y1971$unemployment_rate)</pre>
y1972 <- subset(us_states_productions, year == 1972)
rate1972 <- mean(y1972$unemployment_rate)</pre>
y1973 <- subset(us_states_productions, year == 1973)
rate1973 <- mean(y1973$unemployment_rate)</pre>
y1974 <- subset(us_states_productions, year == 1974)
rate1974 <- mean(y1974$unemployment_rate)</pre>
y1975 <- subset(us_states_productions, year == 1975)
rate1975 <- mean(y1975$unemployment_rate)</pre>
y1976 <- subset(us states productions, year == 1976)
rate1976 <- mean(y1970$unemployment_rate)</pre>
y1977 <- subset(us_states_productions, year == 1977)
rate1977 <- mean(y1977$unemployment rate)</pre>
y1978 <- subset(us_states_productions, year == 1978)
rate1978 <- mean(y1978$unemployment_rate)</pre>
y1979 <- subset(us_states_productions, year == 1979)
rate1979 <- mean(y1979$unemployment_rate)</pre>
```

```
y1980 <- subset(us_states_productions, year == 1980)
rate1980 <- mean(y1980$unemployment_rate)</pre>
y1981 <- subset(us_states_productions, year == 1981)
rate1981 <- mean(y1981$unemployment_rate)</pre>
y1982 <- subset(us_states_productions, year == 1982)
rate1982 <- mean(y1982$unemployment rate)
y1983 <- subset(us_states_productions, year == 1983)
rate1983 <- mean(y1983$unemployment_rate)</pre>
y1984 <- subset(us states productions, year == 1984)
rate1984 <- mean(y1984$unemployment_rate)</pre>
y1985 <- subset(us_states_productions, year == 1985)
rate1985 <- mean(y1985$unemployment_rate)</pre>
y1986 <- subset(us_states_productions, year == 1986)
rate1986 <- mean(y1986$unemployment_rate)</pre>
rates <- c(rate1970, rate1971, rate1972, rate1973, rate1974, rate1975, rate1976, rate1977, rate1978, ra
           rate1984, rate1985, rate1986)
year <- c(1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 198
year_rate <- c(year, rates)</pre>
year_rates <- matrix(year_rate, ncol = 2, nrow = 17)</pre>
plot(year_rates, type = "b", ylab = "Unemployment rate", xlab = "Year",
              main = "Unemployment rate between 1970 and 1986 in the United States")
```

Unemployment rate between 1970 and 1986 in the United States



- Private capital between 1970 and 1986 for the five states having the highest private capital in average.

```
states <- unique(us_states_productions$state)

st1 <- subset(us_states_productions, state == states[1])
priv_cap <- c()
for (i in 1:48) {
    st <- subset(us_states_productions, state == states[i])
    st_avg <- mean(st$privat_capital)
    priv_cap <- c(priv_cap, st_avg)
}
order_priv_cap <- order(priv_cap, decreasing = TRUE)
highst_priv_cap <- matrix(order_priv_cap, nrow = 5, ncol = 1)

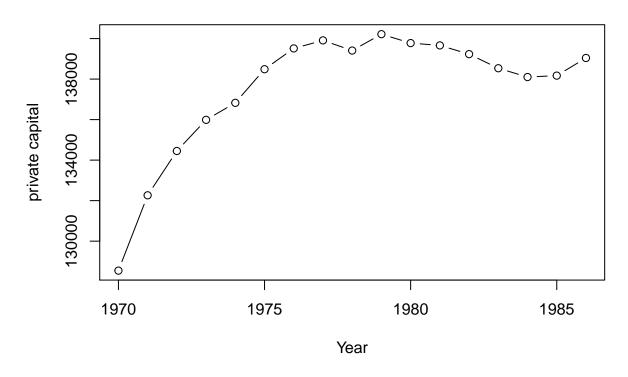
## Warning in matrix(order_priv_cap, nrow = 5, ncol = 1): Datenlänge [48] ist
## kein Teiler oder Vielfaches der Anzahl der Zeilen [5]
highst_priv_cap</pre>
## [,1]
```

```
## [1,] 4
## [2,] 30
## [3,] 41
## [4,] 11
## [5,] 36

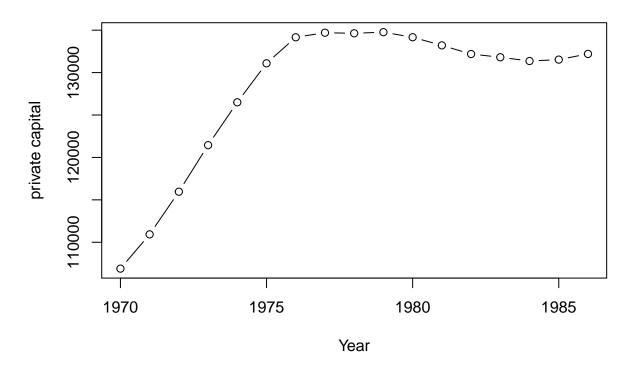
state1 <- states[4]
state2 <- states[30]
state3 <- states[41]</pre>
```

```
state4 <- states[11]
state5 <- states[36]
state1
## [1] CALIFORNIA
## 48 Levels: ALABAMA ARIZONA ARKANSAS CALIFORNIA COLORADO ... WYOMING
## [1] NEW YORK
## 48 Levels: ALABAMA ARIZONA ARKANSAS CALIFORNIA COLORADO ... WYOMING
state3
## [1] TEXAS
## 48 Levels: ALABAMA ARIZONA ARKANSAS CALIFORNIA COLORADO ... WYOMING
state4
## [1] ILLINOIS
## 48 Levels: ALABAMA ARIZONA ARKANSAS CALIFORNIA COLORADO ... WYOMING
state5
## [1] PENNSYLVANIA
## 48 Levels: ALABAMA ARIZONA ARKANSAS CALIFORNIA COLORADO ... WYOMING
five_states1 <- subset(us_states_productions, state == "CALIFORNIA")
five_states2 <- subset(us_states_productions, state == "NEW_YORK")</pre>
five_states3 <- subset(us_states_productions, state == "TEXAS")</pre>
five_states4 <- subset(us_states_productions, state == "ILLINOIS")</pre>
five_states5 <- subset(us_states_productions, state == "PENNSYLVANIA")
year_capC <- matrix(c(five_states1$year, five_states1$privat_capital), nrow = 17, ncol = 2)</pre>
year_capN <- matrix(c(five_states2$year, five_states2$privat_capital), nrow = 17, ncol = 2)</pre>
year_capT <- matrix(c(five_states3$year, five_states3$privat_capital), nrow = 17, ncol = 2)</pre>
year_capI <- matrix(c(five_states4$year, five_states4$privat_capital), nrow = 17, ncol = 2)</pre>
year_capP <- matrix(c(five_states5$year, five_states5$privat_capital), nrow = 17, ncol = 2)</pre>
plot(year_capC, type = "b", ylab = "private capital", xlab = "Year",
              main = "Private capital between 1970 and 1986 for California")
```

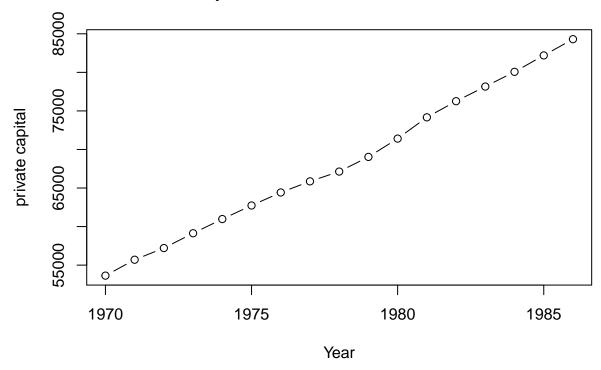
Private capital between 1970 and 1986 for California



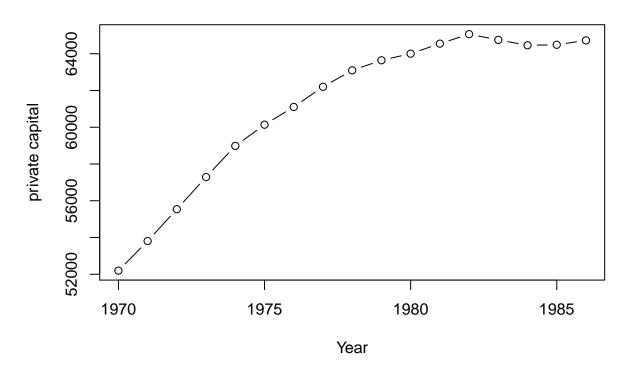
Private capital between 1970 and 1986 for New York



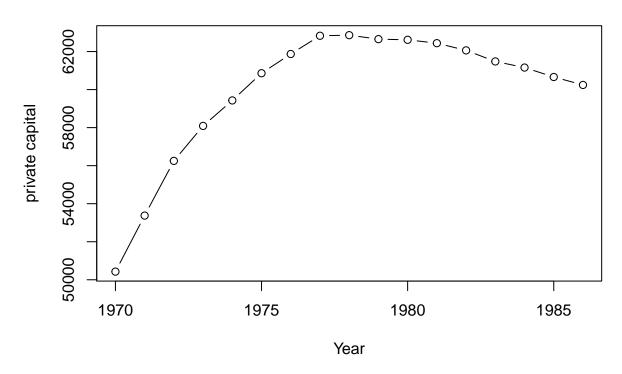
Private capital between 1970 and 1986 for Texas



Private capital between 1970 and 1986 for Illinois



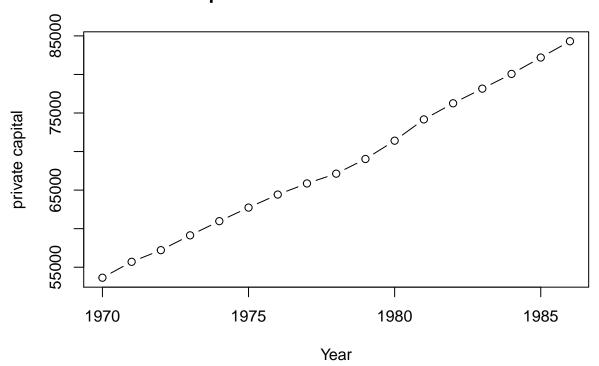
Private capital between 1970 and 1986 for Pennsylvania



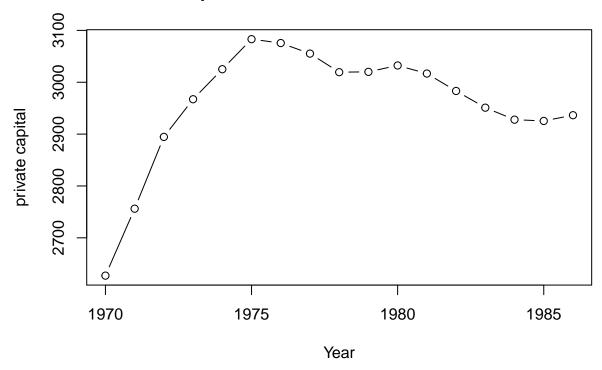
- Public capital between 1970 and 1986 for the state having the highest and the state having the lowest public capital in average.

```
pub_cap <- c()</pre>
for (i in 1:48) {
  st <- subset(us_states_productions, state == states[i])</pre>
  st_avg <- mean(st$public_capital)</pre>
  pub_cap <- c(pub_cap, st_avg)</pre>
}
order_high_pub_cap <- order(pub_cap, decreasing = TRUE)</pre>
order_low_pub_cap <- order(pub_cap)</pre>
highst_pub_cap <- matrix(order_high_pub_cap, nrow = 1, ncol = 1)
lowest_pub_cap <- matrix(order_low_pub_cap, nrow = 1, ncol = 1)</pre>
highst_pub_cap
##
         [,1]
## [1,]
lowest_pub_cap
         [,1]
## [1,]
           43
statePubHigh <- states[41]</pre>
statePubLow <- states[43]</pre>
statePubHigh
## [1] TEXAS
## 48 Levels: ALABAMA ARIZONA ARKANSAS CALIFORNIA COLORADO ... WYOMING
```


Public capital between 1970 and 1986 for Texas



Public capital between 1970 and 1986 for Vermont

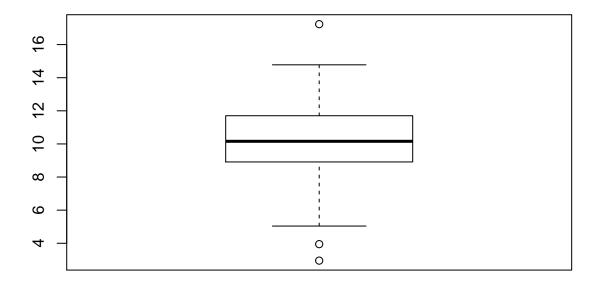


- 3. Boxplots can be used to visually detect similarities and differences in data sets. Create boxplots for the following scenarios and briefly comment on the results!
 - Unemployment rate between 1970 and 1986 for the two states having the highest unemployment rate on average.

```
unemp_rate <- c()</pre>
for (i in 1:48) {
  st <- subset(us_states_productions, state == states[i])</pre>
  st_avg <- mean(st$unemployment_rate)</pre>
  unemp_rate <- c(unemp_rate, st_avg)</pre>
order_unemp_rate <- order(unemp_rate, decreasing = TRUE)</pre>
highst_unemp_rate <- matrix(order_unemp_rate, nrow = 2, ncol = 1)</pre>
highst_unemp_rate
##
         [,1]
## [1,]
           20
## [2,]
           46
stateUn1 <- states[20]</pre>
stateUn2 <- states[46]
stateUn1
## [1] MICHIGAN
```

48 Levels: ALABAMA ARIZONA ARKANSAS CALIFORNIA COLORADO ... WYOMING

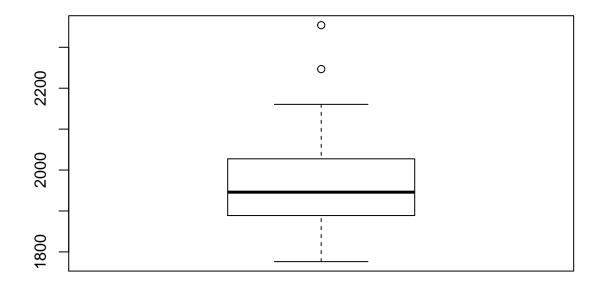
```
stateUn2
## [1] WEST VIRGINIA
## 48 Levels: ALABAMA ARIZONA ARKANSAS CALIFORNIA COLORADO ... WYOMING
Michigan <- subset(us_states_productions, state == "MICHIGAN")</pre>
W_Verginia <- subset(us_states_productions, state == "WEST_VIRGINIA")</pre>
year_unempM <- matrix(c(Michigan$year, Michigan$unemployment_rate), nrow = 17, ncol = 2)</pre>
mean1 = mean(Michigan$unemployment_rate)
sd1 = sd(Michigan$unemployment_rate)
mean1
## [1] 9.694118
sd1
## [1] 2.881942
year_unempV <- matrix(c(W_Verginia$year, W_Verginia$unemployment_rate), nrow = 17, ncol = 2)</pre>
mean2 = mean(W_Verginia$unemployment_rate)
sd2 = sd(W_Verginia$unemployment_rate)
mean2
## [1] 9.270588
sd2
## [1] 3.804728
x \leftarrow rnorm(17, mean = 9.694118, sd = 2.881942)
y \leftarrow rnorm(17, mean = 9.270588, sd = 3.804728)
d <- data.frame(treatment=c(x,y))</pre>
boxplot(d) #?????
```



- Highway and street capital between 1970 and 1986 for the two states having the lowest highway and street capital on average.

```
street_cap <- c()</pre>
for (i in 1:48) {
  st <- subset(us_states_productions, state == states[i])</pre>
  st_avg <- mean(st$street_capital)</pre>
  street_cap <- c(street_cap, st_avg)</pre>
}
order_street_cap <- order(street_cap)</pre>
lowest_street_cap <- matrix(order_street_cap, nrow = 2, ncol = 1)</pre>
lowest_street_cap
##
         [,1]
## [1,]
           43
## [2,]
           37
stateStr1 <- states[43]</pre>
stateStr2 <- states[37]</pre>
stateStr1
## [1] VERMONT
## 48 Levels: ALABAMA ARIZONA ARKANSAS CALIFORNIA COLORADO ... WYOMING
{\tt stateStr2}
## [1] RHODE_ISLAND
## 48 Levels: ALABAMA ARIZONA ARKANSAS CALIFORNIA COLORADO ... WYOMING
```

```
Vermont <- subset(us_states_productions, state == "VERMONT")</pre>
R_Island <- subset(us_states_productions, state == "RHODE_ISLAND")</pre>
year_street_capV <- matrix(c(Vermont$year, Vermont$street_capital), nrow = 17, ncol = 2)</pre>
mean3 = mean(Vermont$street_capital)
sd3 = sd(Vermont$street_capital)
mean3
## [1] 1923.651
sd3
## [1] 68.94504
year_streer_capV <- matrix(c(R_Island$year, R_Island$street_capital), nrow = 17, ncol = 2)</pre>
mean4 = mean(R_Island$street_capital)
sd4 = sd(R_Island$street_capital)
{\tt mean4}
## [1] 2040.148
sd4
## [1] 146.6524
x2 \leftarrow rnorm(17, mean = 1923.651, sd = 68.94504)
y2 \leftarrow rnorm(17, mean = 2040.148, sd = 146.6524)
d2 <- data.frame(treatment=c(x2,y2))</pre>
boxplot(d2) #?????
```



- 4. We intuitively presume, that the employment value and the unemployment rate are correlated. Calculate the mean values (considering all states for each year) for both variables and plot both data series in one plot! The plot should have the years on the x-axis and two y-axes for the mean values of both variables. Finally, calculate the correlation value for the two data series and briefly comment on the results!
- 5. Seperate the original data frames containing all observation in multiple dataframes, containing only observations belonging to a particular US state! Output the observations of the US state Florida as a csv file!