

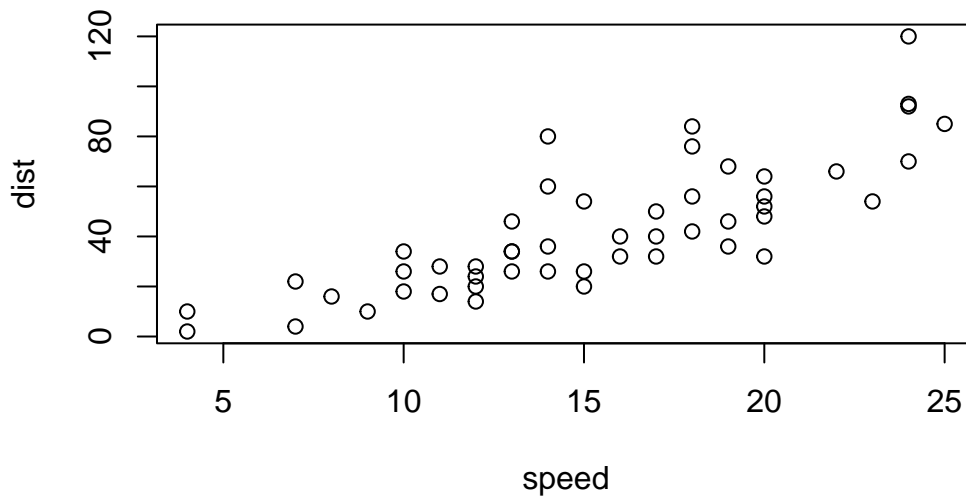
Class 5: Data Viz with ggplot

Noel Lim PID: A17652474

Plotting in R

R has lots of ways to make plots and figures. This includes so-called **base** graphics and packages like **ggplot2**

```
plot(cars)
```



This is a **base** R plot of the in-built `cars` dataset that has only two columns:

```
head(cars)
```

	speed	dist
1	4	2
2	4	10
3	7	4
4	7	22
5	8	16
6	9	10

Q. How would we plot this weee dataset with **ggplot2**?

All ggplot figures have at least 3 layers:

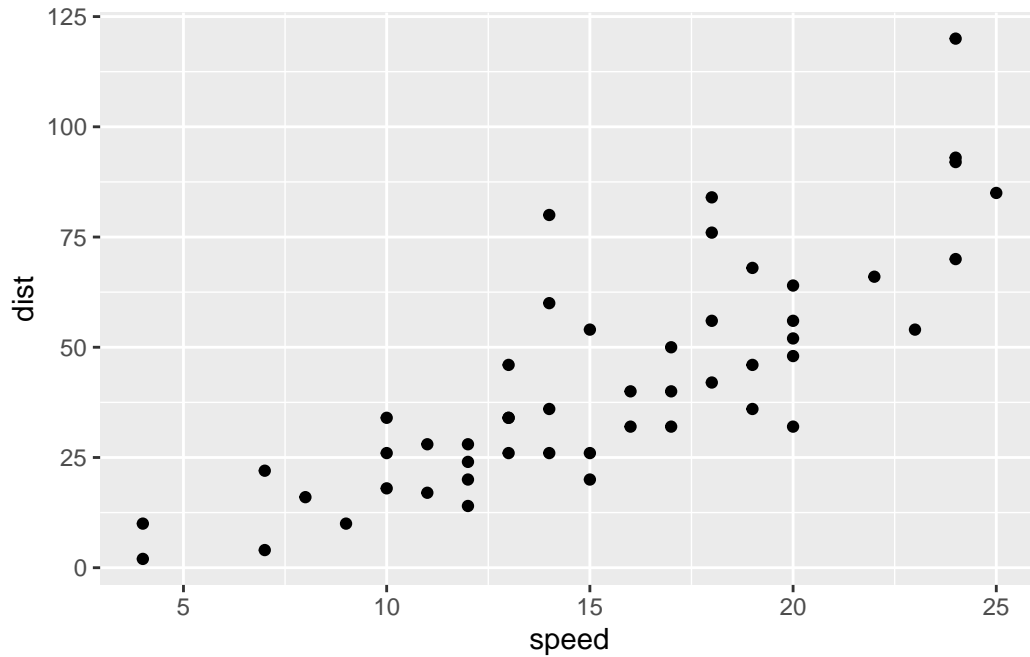
- **data**
- **aesthetics** (how the data map to the plot) -**geoms** (how we draw the plot, lines, points, etc.)

Before I use any new package I need to download and instill it with the `install.packages()` command.

I never use `install.packages()` within my quarto document otherwise I will install the package over and over and over again - which is silly!

Once a package is installed I can load it up with the `library()` function.

```
#install.packages("ggplot2")
library(ggplot2)
ggplot(cars) +
  aes(x=speed, y=dist) +
  geom_point()
```



Key-point: For simple plots (like the one above) ggplot is more verbose (we need to do more typing) but as plots get more complicated ggplot starts to be more clear and simple than base R plot()

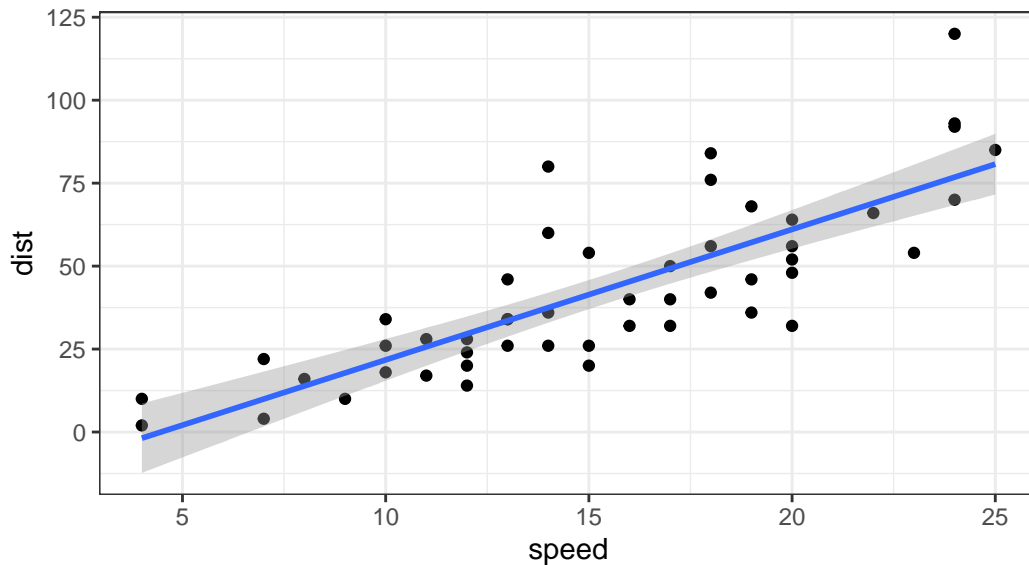
```
p <- ggplot(cars) +
  aes(speed, dist) +
  geom_point() +
  geom_smooth(method = "lm", se=TRUE) +
  labs(title= "Stopping distance of old cars",
        subtitle = "From the inbuilt cars dataset") +
  theme_bw()
```

p

`geom_smooth()` using formula = 'y ~ x'

Stopping distance of old cars

From the inbuilt cars dataset



Hands on Worksheet Questions

Q1. For which phases is data visualization important in our scientific workflows?

All of the above

Q2. True or False? The ggplot2 package comes already installed with R?

False

Q3. Which plot types are typically NOT used to compare distributions of numeric variables?

Network graphs

Q4. Which statement about data visualization with ggplot2 is incorrect?

ggplot is the only way to create plots in R

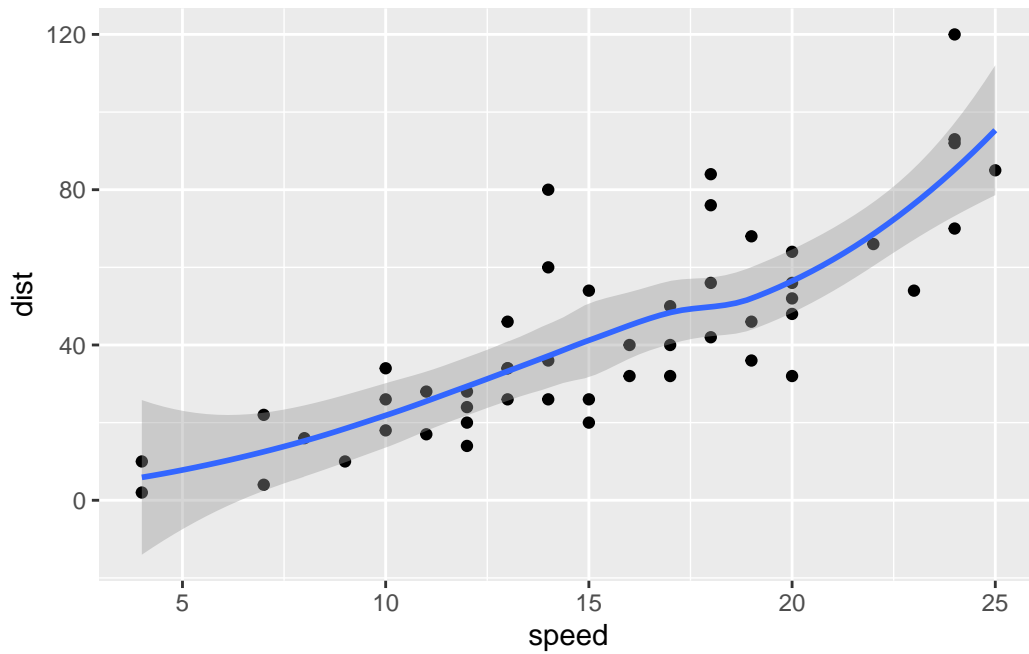
Q5. Which geometric layer should be used to create scatter plots in ggplot2?

`geom_point()`

Q6. In your own RStudio can you add a trend line layer to help show the relationship between the plot variables with the `geom_smooth()` function?

```
ggplot(cars) +
  aes(x=speed, y=dist) +
  geom_point() +
  geom_smooth()
```

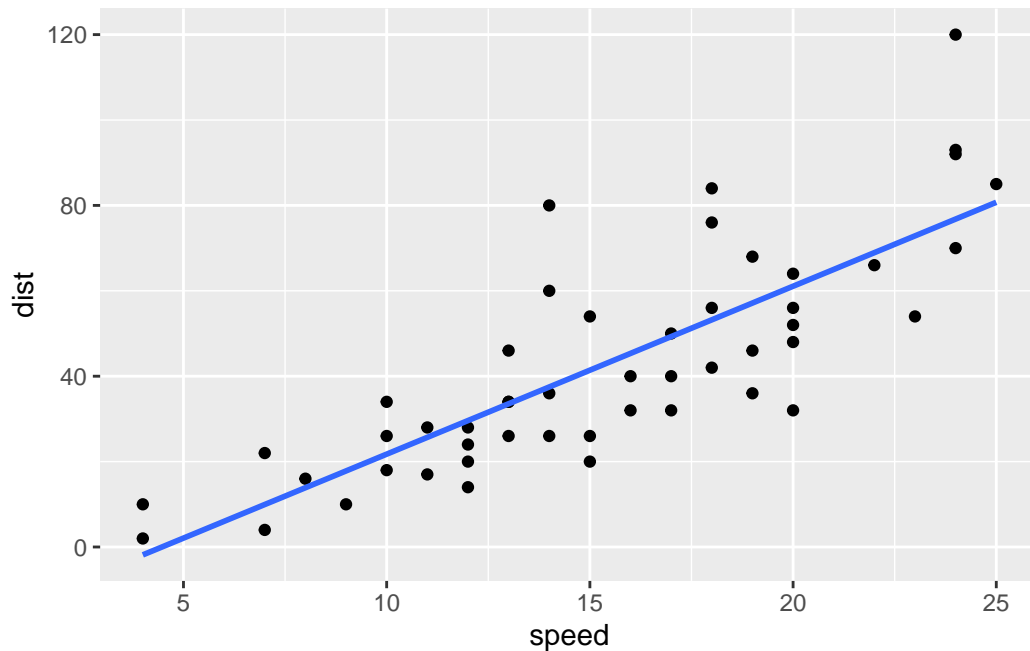
`geom_smooth()` using method = 'loess' and formula = 'y ~ x'



Q7. Argue with `geom_smooth()` to add a straight line from a linear model without the shaded standard error region?

```
ggplot(cars) +
  aes(x=speed, y=dist) +
  geom_point() +
  geom_smooth(method="lm", se=FALSE)
```

`geom_smooth()` using formula = 'y ~ x'



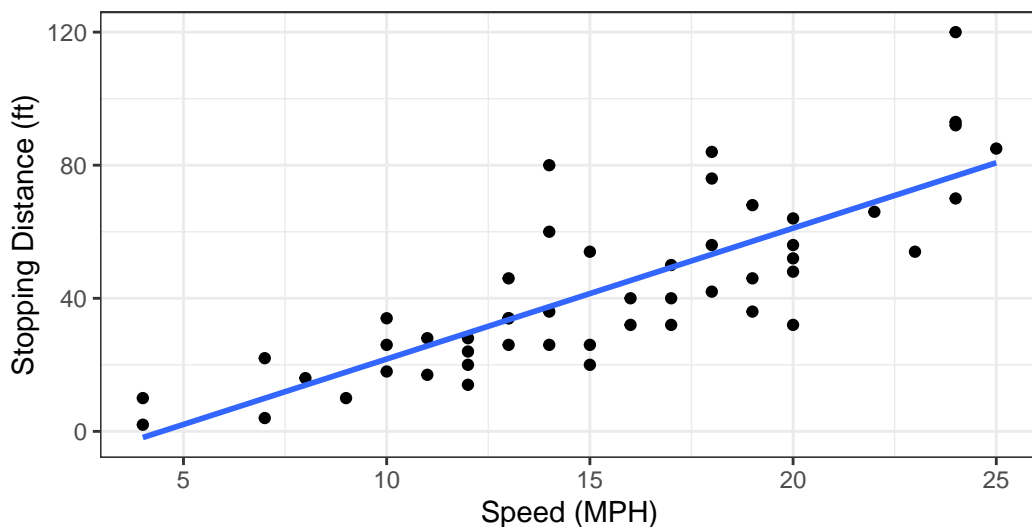
Q8. Can you finish this plot by adding various label annotations with the `labs()` function and changing the plot look to a more conservative “black & white” theme by adding the `theme_bw()` function:

```
ggplot(cars) +
  aes(x=speed, y=dist) +
  geom_point() +
  labs(title="Speed and Stopping Distances of Cars",
       x="Speed (MPH)",
       y="Stopping Distance (ft)",
       subtitle = "Your informative subtitle text here",
       caption="Dataset: 'cars'") +
  geom_smooth(method="lm", se=FALSE) +
  theme_bw()
```

``geom_smooth()`` using formula = 'y ~ x'

Speed and Stopping Distances of Cars

Your informative subtitle text here



Dataset: 'cars'

```
url <- "https://bioboot.github.io/bimm143_S20/class-material/up_down_expression.txt"
genes <- read.delim(url)
head(genes)
```

	Gene	Condition1	Condition2	State
1	A4GNT	-3.6808610	-3.4401355	unchanging
2	AAAS	4.5479580	4.3864126	unchanging
3	AASDH	3.7190695	3.4787276	unchanging
4	AATF	5.0784720	5.0151916	unchanging
5	AATK	0.4711421	0.5598642	unchanging
6	AB015752.4	-3.6808610	-3.5921390	unchanging

Q9. Use the `nrow()` function to find out how many genes are in this dataset. What is your answer?

```
nrow(genes)
```

```
[1] 5196
```

Q10. Use the `colnames()` function and the `ncol()` function on the genes data frame to find out what the column names are (we will need these later) and how many columns there are. How many columns did you find?

```
colnames(genes)
```

```
[1] "Gene"          "Condition1" "Condition2" "State"
```

```
ncol(genes)
```

```
[1] 4
```

Q11. Use the `table()` function on the `State` column of this data.frame to find out how many 'up' regulated genes there are. What is your answer?

```
table(genes$State)
```

down	unchanging	up
72	4997	127

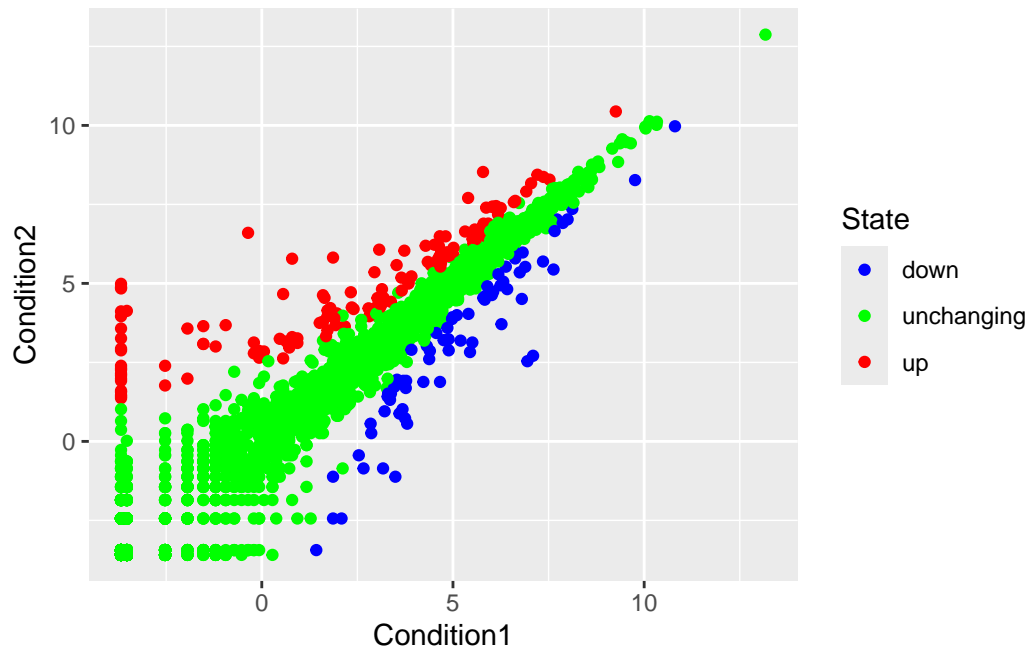
Q12. Using your values above and 2 significant figures. What fraction of total genes is up-regulated in this dataset?

```
round( table(genes$State)/nrow(genes) * 100, 2 )
```

down	unchanging	up
1.39	96.17	2.44

Q13. Complete the code below to produce the following plot

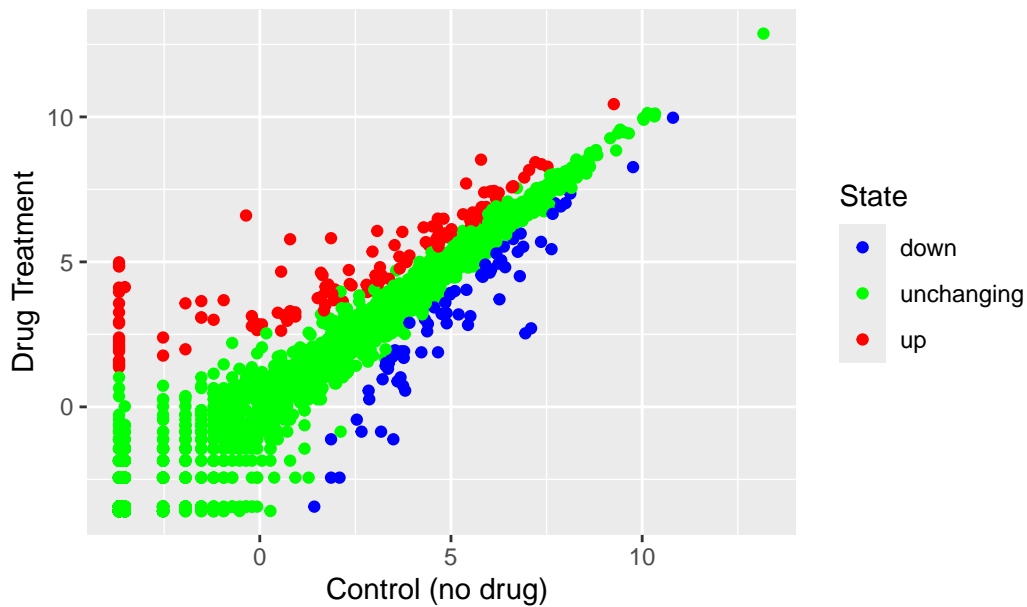
```
p <- ggplot(genes) +  
  aes(x=Condition1, y=Condition2, col=State) +  
  geom_point()  
p + scale_colour_manual( values=c("blue","green","red") )
```

Q14. Nice, now add some plot annotations to the p object with the labs() function so your plot looks like the following:

```
p + scale_colour_manual(values=c("blue","green","red")) +  
  labs(title="Gene Expression Changes Upon Drug Treatment",  
        x="Control (no drug) ",  
        y="Drug Treatment")
```

Gene Expression Changes Upon Drug Treatment



```
# File location online
url <- "https://raw.githubusercontent.com/jennybc/gapminder/master/inst/extdata/gapminder.tsv"

gapminder <- read.delim(url)

# install.packages("dplyr") ## un-comment to install if needed
library(dplyr)
```

Attaching package: 'dplyr'

The following objects are masked from 'package:stats':

filter, lag

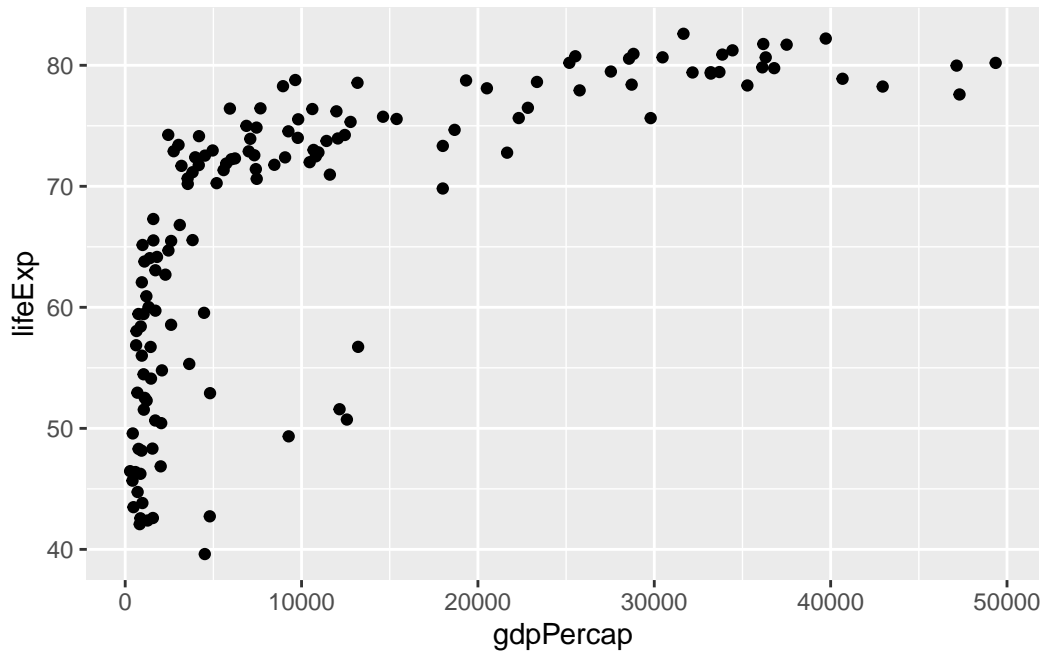
The following objects are masked from 'package:base':

intersect, setdiff, setequal, union

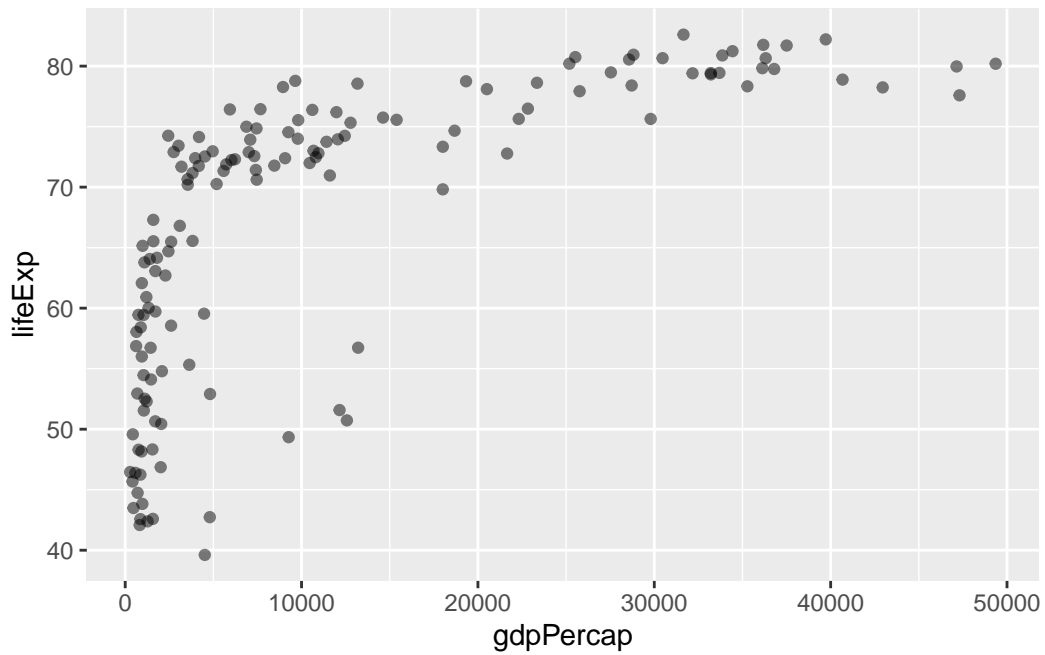
```
gapminder_2007 <- gapminder %>% filter(year==2007)
```

Q15. Complete the code below to produce a first basic scatter plot of this gapminder_2007 dataset:

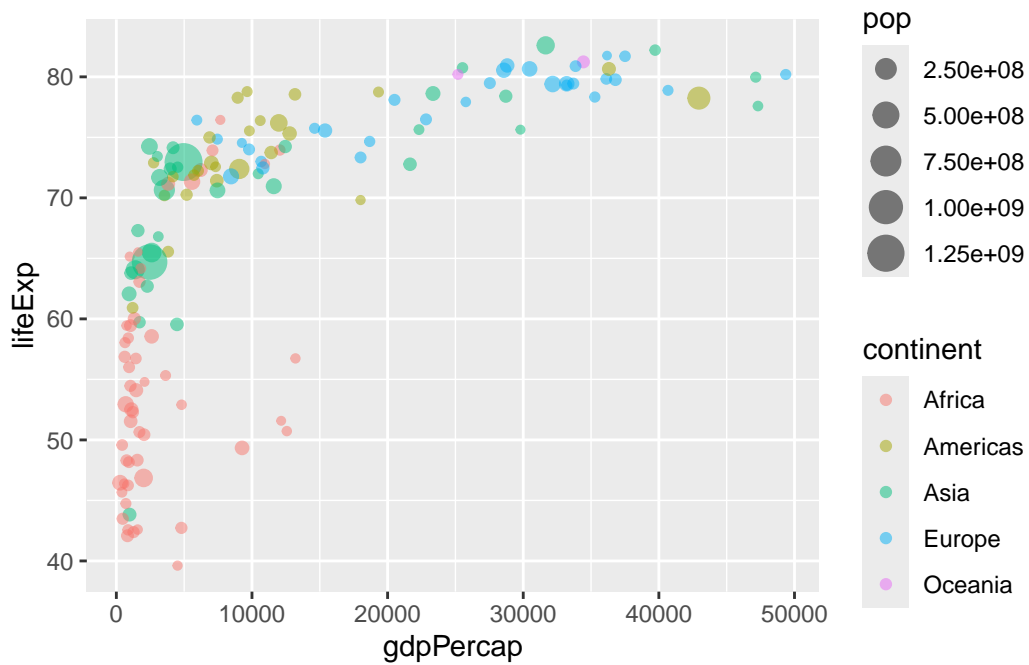
```
ggplot(gapminder_2007) +  
  aes(x=gdpPercap, y=lifeExp) +  
  geom_point()
```



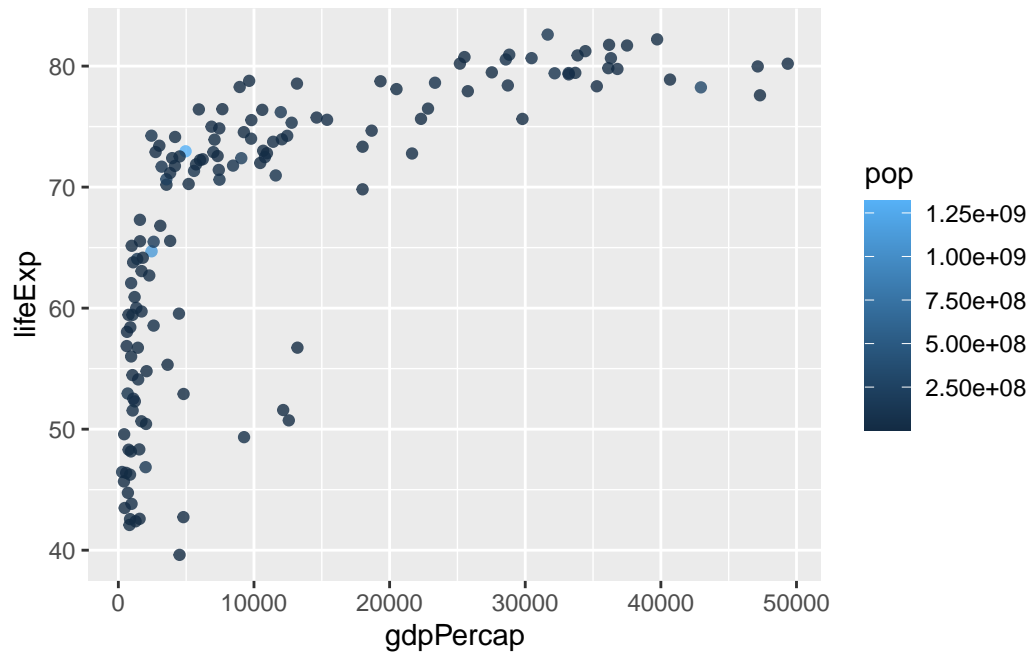
```
ggplot(gapminder_2007) +  
  aes(x=gdpPercap, y=lifeExp) +  
  geom_point(alpha=0.5)
```



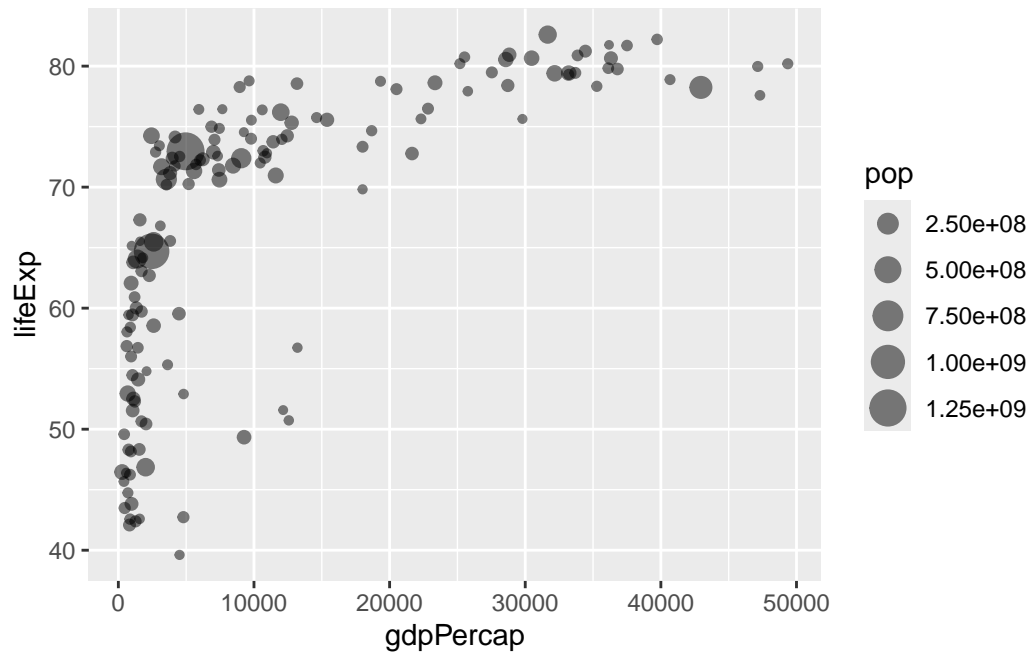
```
ggplot(gapminder_2007) +
  aes(x=gdpPercap, y=lifeExp, color=continent, size=pop) +
  geom_point(alpha=0.5)
```



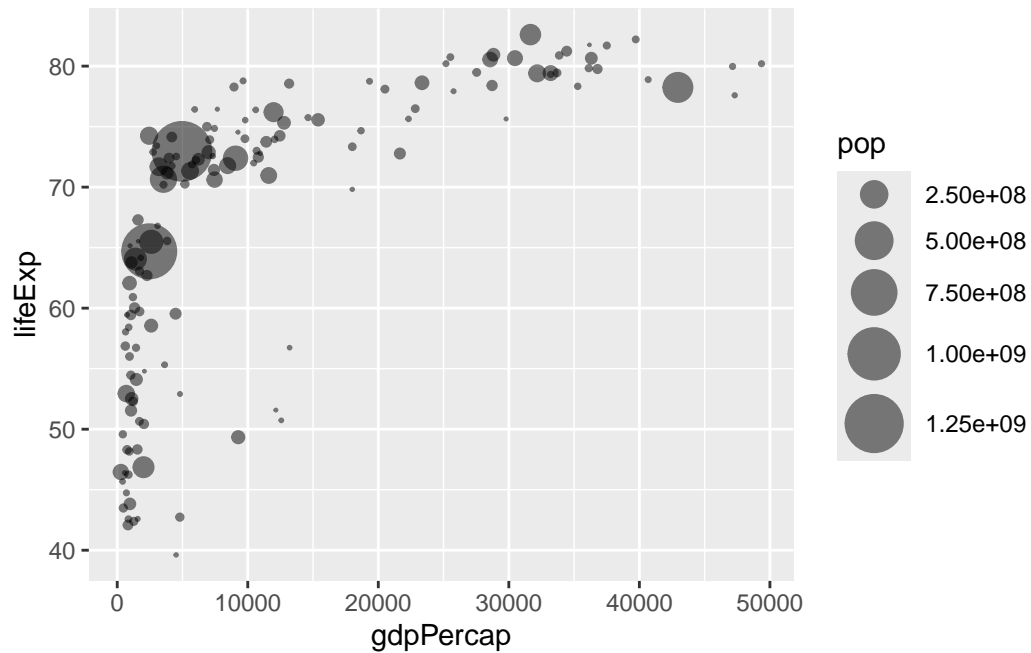
```
ggplot(gapminder_2007) +
  aes(x = gdpPerCap, y = lifeExp, color = pop) +
  geom_point(alpha=0.8)
```



```
ggplot(gapminder_2007) +
  aes(x = gdpPerCap, y = lifeExp, size = pop) +
  geom_point(alpha=0.5)
```



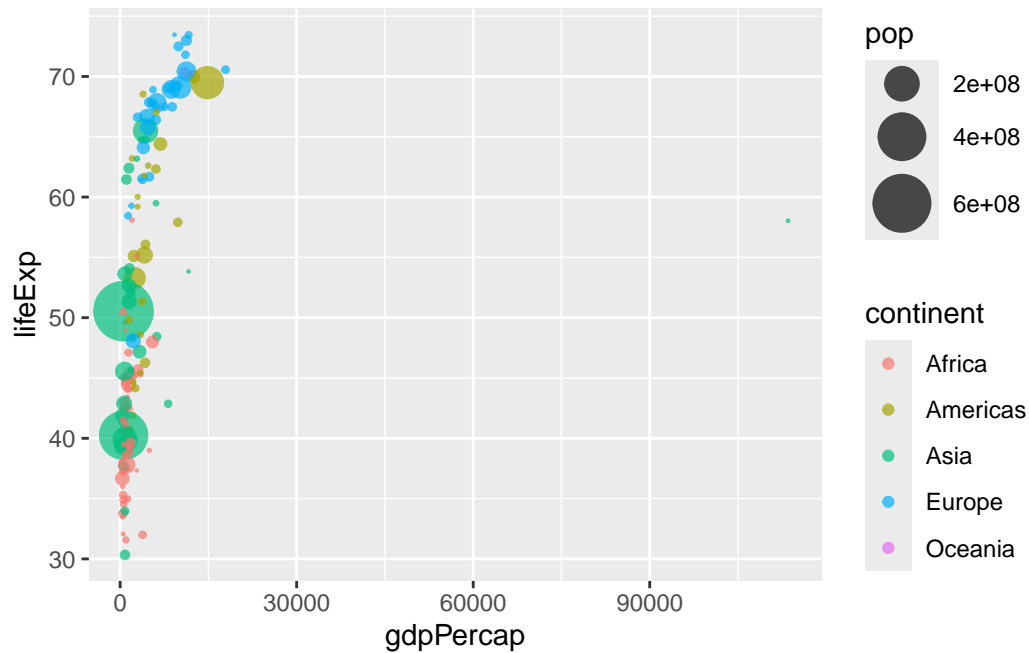
```
ggplot(gapminder_2007) +  
  geom_point(aes(x = gdpPerCap, y = lifeExp,  
                 size = pop), alpha=0.5) +  
  scale_size_area(max_size = 10)
```



Q16. Can you adapt the code you have learned thus far to reproduce our gapminder scatter plot for the year 1957? What do you notice about this plot is it easy to compare with the one for 2007?

```
gapminder_1957 <- gapminder %>% filter(year==1957)

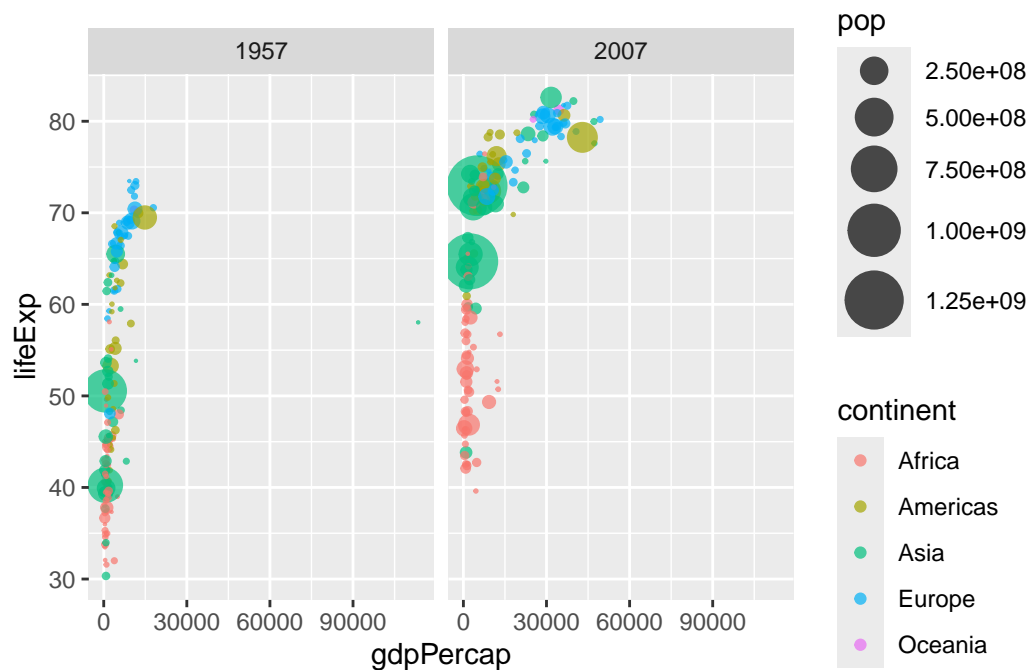
ggplot(gapminder_1957) +
  aes(x = gdpPercap, y = lifeExp, color=continent,
       size = pop) +
  geom_point(alpha=0.7) +
  scale_size_area(max_size = 10)
```



Q17. Do the same steps above but include 1957 and 2007 in your input dataset for `ggplot()`. You should now include the layer `facet_wrap(~year)` to produce the following plot:

```
gapminder_1957 <- gapminder %>% filter(year==1957 | year==2007)

ggplot(gapminder_1957) +
  geom_point(aes(x = gdpPercap, y = lifeExp, color=continent,
                 size = pop), alpha=0.7) +
  scale_size_area(max_size = 10) +
  facet_wrap(~year)
```

```
table (gapminder$year)
```

```
1952 1957 1962 1967 1972 1977 1982 1987 1992 1997 2002 2007
142  142  142  142  142  142  142  142  142  142  142  142
```

```
length (unique(gapminder$year) )
```

```
[1] 12
```

```
library(dplyr)
```

Q. Extract data for the US in 1992

```
filter(gapminder, country== "United States",
       year==1992)
```

```
   country continent year lifeExp      pop gdpPercap
1 United States  Americas 1992   76.09 256894189  32003.93
```

What was the population of Ireland in the last year we have data for?

```
filter(gapminder, country== "Ireland",  
       year==2007)
```

```
country continent year lifeExp      pop gdpPercap  
1 Ireland      Europe 2007  78.885 4109086      40676
```

Q. What countries in data set had population smaller than Ireland in 2007

- First limit/subset the dataset to the year 2007

```
gap07 <- filter(gapminder, year==2007)
```

- Then find the pop value for Ireland

```
ire_pop <- filter(gap07, country=="Ireland")["pop"] ire_pop
```

- Then extract all rows with pop less than Ireland's

```
filter(gapminder, pop < 4109086)
```

	country	continent	year	lifeExp	pop	gdpPercap
1	Albania	Europe	1952	55.230	1282697	1601.0561
2	Albania	Europe	1957	59.280	1476505	1942.2842
3	Albania	Europe	1962	64.820	1728137	2312.8890
4	Albania	Europe	1967	66.220	1984060	2760.1969
5	Albania	Europe	1972	67.690	2263554	3313.4222
6	Albania	Europe	1977	68.930	2509048	3533.0039
7	Albania	Europe	1982	70.420	2780097	3630.8807
8	Albania	Europe	1987	72.000	3075321	3738.9327
9	Albania	Europe	1992	71.581	3326498	2497.4379
10	Albania	Europe	1997	72.950	3428038	3193.0546
11	Albania	Europe	2002	75.651	3508512	4604.2117
12	Albania	Europe	2007	76.423	3600523	5937.0295
13	Bahrain	Asia	1952	50.939	120447	9867.0848
14	Bahrain	Asia	1957	53.832	138655	11635.7995
15	Bahrain	Asia	1962	56.923	171863	12753.2751
16	Bahrain	Asia	1967	59.923	202182	14804.6727
17	Bahrain	Asia	1972	63.300	230800	18268.6584
18	Bahrain	Asia	1977	65.593	297410	19340.1020
19	Bahrain	Asia	1982	69.052	377967	19211.1473

20	Bahrain	Asia	1987	70.750	454612	18524.0241
21	Bahrain	Asia	1992	72.601	529491	19035.5792
22	Bahrain	Asia	1997	73.925	598561	20292.0168
23	Bahrain	Asia	2002	74.795	656397	23403.5593
24	Bahrain	Asia	2007	75.635	708573	29796.0483
25	Benin	Africa	1952	38.223	1738315	1062.7522
26	Benin	Africa	1957	40.358	1925173	959.6011
27	Benin	Africa	1962	42.618	2151895	949.4991
28	Benin	Africa	1967	44.885	2427334	1035.8314
29	Benin	Africa	1972	47.014	2761407	1085.7969
30	Benin	Africa	1977	49.190	3168267	1029.1613
31	Benin	Africa	1982	50.904	3641603	1277.8976
32	Bolivia	Americas	1952	40.414	2883315	2677.3263
33	Bolivia	Americas	1957	41.890	3211738	2127.6863
34	Bolivia	Americas	1962	43.428	3593918	2180.9725
35	Bolivia	Americas	1967	45.032	4040665	2586.8861
36	Bosnia and Herzegovina	Europe	1952	53.820	2791000	973.5332
37	Bosnia and Herzegovina	Europe	1957	58.450	3076000	1353.9892
38	Bosnia and Herzegovina	Europe	1962	61.930	3349000	1709.6837
39	Bosnia and Herzegovina	Europe	1967	64.790	3585000	2172.3524
40	Bosnia and Herzegovina	Europe	1972	67.450	3819000	2860.1698
41	Bosnia and Herzegovina	Europe	1977	69.860	4086000	3528.4813
42	Bosnia and Herzegovina	Europe	1997	73.244	3607000	4766.3559
43	Botswana	Africa	1952	47.622	442308	851.2411
44	Botswana	Africa	1957	49.618	474639	918.2325
45	Botswana	Africa	1962	51.520	512764	983.6540
46	Botswana	Africa	1967	53.298	553541	1214.7093
47	Botswana	Africa	1972	56.024	619351	2263.6111
48	Botswana	Africa	1977	59.319	781472	3214.8578
49	Botswana	Africa	1982	61.484	970347	4551.1421
50	Botswana	Africa	1987	63.622	1151184	6205.8839
51	Botswana	Africa	1992	62.745	1342614	7954.1116
52	Botswana	Africa	1997	52.556	1536536	8647.1423
53	Botswana	Africa	2002	46.634	1630347	11003.6051
54	Botswana	Africa	2007	50.728	1639131	12569.8518
55	Burundi	Africa	1952	39.031	2445618	339.2965
56	Burundi	Africa	1957	40.533	2667518	379.5646
57	Burundi	Africa	1962	42.045	2961915	355.2032
58	Burundi	Africa	1967	43.548	3330989	412.9775
59	Burundi	Africa	1972	44.057	3529983	464.0995
60	Burundi	Africa	1977	45.910	3834415	556.1033
61	Central African Republic	Africa	1952	35.463	1291695	1071.3107
62	Central African Republic	Africa	1957	37.464	1392284	1190.8443

63	Central African Republic	Africa	1962	39.475	1523478	1193.0688
64	Central African Republic	Africa	1967	41.478	1733638	1136.0566
65	Central African Republic	Africa	1972	43.457	1927260	1070.0133
66	Central African Republic	Africa	1977	46.775	2167533	1109.3743
67	Central African Republic	Africa	1982	48.295	2476971	956.7530
68	Central African Republic	Africa	1987	50.485	2840009	844.8764
69	Central African Republic	Africa	1992	49.396	3265124	747.9055
70	Central African Republic	Africa	1997	46.066	3696513	740.5063
71	Central African Republic	Africa	2002	43.308	4048013	738.6906
72	Chad	Africa	1952	38.092	2682462	1178.6659
73	Chad	Africa	1957	39.881	2894855	1308.4956
74	Chad	Africa	1962	41.716	3150417	1389.8176
75	Chad	Africa	1967	43.601	3495967	1196.8106
76	Chad	Africa	1972	45.569	3899068	1104.1040
77	Comoros	Africa	1952	40.715	153936	1102.9909
78	Comoros	Africa	1957	42.460	170928	1211.1485
79	Comoros	Africa	1962	44.467	191689	1406.6483
80	Comoros	Africa	1967	46.472	217378	1876.0296
81	Comoros	Africa	1972	48.944	250027	1937.5777
82	Comoros	Africa	1977	50.939	304739	1172.6030
83	Comoros	Africa	1982	52.933	348643	1267.1001
84	Comoros	Africa	1987	54.926	395114	1315.9808
85	Comoros	Africa	1992	57.939	454429	1246.9074
86	Comoros	Africa	1997	60.660	527982	1173.6182
87	Comoros	Africa	2002	62.974	614382	1075.8116
88	Comoros	Africa	2007	65.152	710960	986.1479
89	Congo, Rep.	Africa	1952	42.111	854885	2125.6214
90	Congo, Rep.	Africa	1957	45.053	940458	2315.0566
91	Congo, Rep.	Africa	1962	48.435	1047924	2464.7832
92	Congo, Rep.	Africa	1967	52.040	1179760	2677.9396
93	Congo, Rep.	Africa	1972	54.907	1340458	3213.1527
94	Congo, Rep.	Africa	1977	55.625	1536769	3259.1790
95	Congo, Rep.	Africa	1982	56.695	1774735	4879.5075
96	Congo, Rep.	Africa	1987	57.470	2064095	4201.1949
97	Congo, Rep.	Africa	1992	56.433	2409073	4016.2395
98	Congo, Rep.	Africa	1997	52.962	2800947	3484.1644
99	Congo, Rep.	Africa	2002	52.970	3328795	3484.0620
100	Congo, Rep.	Africa	2007	55.322	3800610	3632.5578
101	Costa Rica	Americas	1952	57.206	926317	2627.0095
102	Costa Rica	Americas	1957	60.026	1112300	2990.0108
103	Costa Rica	Americas	1962	62.842	1345187	3460.9370
104	Costa Rica	Americas	1967	65.424	1588717	4161.7278
105	Costa Rica	Americas	1972	67.849	1834796	5118.1469

106	Costa Rica	Americas	1977	70.750	2108457	5926.8770
107	Costa Rica	Americas	1982	73.450	2424367	5262.7348
108	Costa Rica	Americas	1987	74.752	2799811	5629.9153
109	Costa Rica	Americas	1992	75.713	3173216	6160.4163
110	Costa Rica	Americas	1997	77.260	3518107	6677.0453
111	Costa Rica	Americas	2002	78.123	3834934	7723.4472
112	Cote d'Ivoire	Africa	1952	40.477	2977019	1388.5947
113	Cote d'Ivoire	Africa	1957	42.469	3300000	1500.8959
114	Cote d'Ivoire	Africa	1962	44.930	3832408	1728.8694
115	Croatia	Europe	1952	61.210	3882229	3119.2365
116	Croatia	Europe	1957	64.770	3991242	4338.2316
117	Croatia	Europe	1962	67.130	4076557	5477.8900
118	Djibouti	Africa	1952	34.812	63149	2669.5295
119	Djibouti	Africa	1957	37.328	71851	2864.9691
120	Djibouti	Africa	1962	39.693	89898	3020.9893
121	Djibouti	Africa	1967	42.074	127617	3020.0505
122	Djibouti	Africa	1972	44.366	178848	3694.2124
123	Djibouti	Africa	1977	46.519	228694	3081.7610
124	Djibouti	Africa	1982	48.812	305991	2879.4681
125	Djibouti	Africa	1987	50.040	311025	2880.1026
126	Djibouti	Africa	1992	51.604	384156	2377.1562
127	Djibouti	Africa	1997	53.157	417908	1895.0170
128	Djibouti	Africa	2002	53.373	447416	1908.2609
129	Djibouti	Africa	2007	54.791	496374	2082.4816
130	Dominican Republic	Americas	1952	45.928	2491346	1397.7171
131	Dominican Republic	Americas	1957	49.828	2923186	1544.4030
132	Dominican Republic	Americas	1962	53.459	3453434	1662.1374
133	Dominican Republic	Americas	1967	56.751	4049146	1653.7230
134	Ecuador	Americas	1952	48.357	3548753	3522.1107
135	Ecuador	Americas	1957	51.356	4058385	3780.5467
136	El Salvador	Americas	1952	45.262	2042865	3048.3029
137	El Salvador	Americas	1957	48.570	2355805	3421.5232
138	El Salvador	Americas	1962	52.307	2747687	3776.8036
139	El Salvador	Americas	1967	55.855	3232927	4358.5954
140	El Salvador	Americas	1972	58.207	3790903	4520.2460
141	Equatorial Guinea	Africa	1952	34.482	216964	375.6431
142	Equatorial Guinea	Africa	1957	35.983	232922	426.0964
143	Equatorial Guinea	Africa	1962	37.485	249220	582.8420
144	Equatorial Guinea	Africa	1967	38.987	259864	915.5960
145	Equatorial Guinea	Africa	1972	40.516	277603	672.4123
146	Equatorial Guinea	Africa	1977	42.024	192675	958.5668
147	Equatorial Guinea	Africa	1982	43.662	285483	927.8253
148	Equatorial Guinea	Africa	1987	45.664	341244	966.8968

149	Equatorial Guinea	Africa	1992	47.545	387838	1132.0550
150	Equatorial Guinea	Africa	1997	48.245	439971	2814.4808
151	Equatorial Guinea	Africa	2002	49.348	495627	7703.4959
152	Equatorial Guinea	Africa	2007	51.579	551201	12154.0897
153	Eritrea	Africa	1952	35.928	1438760	328.9406
154	Eritrea	Africa	1957	38.047	1542611	344.1619
155	Eritrea	Africa	1962	40.158	1666618	380.9958
156	Eritrea	Africa	1967	42.189	1820319	468.7950
157	Eritrea	Africa	1972	44.142	2260187	514.3242
158	Eritrea	Africa	1977	44.535	2512642	505.7538
159	Eritrea	Africa	1982	43.890	2637297	524.8758
160	Eritrea	Africa	1987	46.453	2915959	521.1341
161	Eritrea	Africa	1992	49.991	3668440	582.8585
162	Eritrea	Africa	1997	53.378	4058319	913.4708
163	Finland	Europe	1952	66.550	4090500	6424.5191
164	Gabon	Africa	1952	37.003	420702	4293.4765
165	Gabon	Africa	1957	38.999	434904	4976.1981
166	Gabon	Africa	1962	40.489	455661	6631.4592
167	Gabon	Africa	1967	44.598	489004	8358.7620
168	Gabon	Africa	1972	48.690	537977	11401.9484
169	Gabon	Africa	1977	52.790	706367	21745.5733
170	Gabon	Africa	1982	56.564	753874	15113.3619
171	Gabon	Africa	1987	60.190	880397	11864.4084
172	Gabon	Africa	1992	61.366	985739	13522.1575
173	Gabon	Africa	1997	60.461	1126189	14722.8419
174	Gabon	Africa	2002	56.761	1299304	12521.7139
175	Gabon	Africa	2007	56.735	1454867	13206.4845
176	Gambia	Africa	1952	30.000	284320	485.2307
177	Gambia	Africa	1957	32.065	323150	520.9267
178	Gambia	Africa	1962	33.896	374020	599.6503
179	Gambia	Africa	1967	35.857	439593	734.7829
180	Gambia	Africa	1972	38.308	517101	756.0868
181	Gambia	Africa	1977	41.842	608274	884.7553
182	Gambia	Africa	1982	45.580	715523	835.8096
183	Gambia	Africa	1987	49.265	848406	611.6589
184	Gambia	Africa	1992	52.644	1025384	665.6244
185	Gambia	Africa	1997	55.861	1235767	653.7302
186	Gambia	Africa	2002	58.041	1457766	660.5856
187	Gambia	Africa	2007	59.448	1688359	752.7497
188	Guatemala	Americas	1952	42.023	3146381	2428.2378
189	Guatemala	Americas	1957	44.142	3640876	2617.1560
190	Guinea	Africa	1952	33.609	2664249	510.1965
191	Guinea	Africa	1957	34.558	2876726	576.2670

192	Guinea	Africa	1962	35.753	3140003	686.3737
193	Guinea	Africa	1967	37.197	3451418	708.7595
194	Guinea	Africa	1972	38.842	3811387	741.6662
195	Guinea-Bissau	Africa	1952	32.500	580653	299.8503
196	Guinea-Bissau	Africa	1957	33.489	601095	431.7905
197	Guinea-Bissau	Africa	1962	34.488	627820	522.0344
198	Guinea-Bissau	Africa	1967	35.492	601287	715.5806
199	Guinea-Bissau	Africa	1972	36.486	625361	820.2246
200	Guinea-Bissau	Africa	1977	37.465	745228	764.7260
201	Guinea-Bissau	Africa	1982	39.327	825987	838.1240
202	Guinea-Bissau	Africa	1987	41.245	927524	736.4154
203	Guinea-Bissau	Africa	1992	43.266	1050938	745.5399
204	Guinea-Bissau	Africa	1997	44.873	1193708	796.6645
205	Guinea-Bissau	Africa	2002	45.504	1332459	575.7047
206	Guinea-Bissau	Africa	2007	46.388	1472041	579.2317
207	Haiti	Americas	1952	37.579	3201488	1840.3669
208	Haiti	Americas	1957	40.696	3507701	1726.8879
209	Haiti	Americas	1962	43.590	3880130	1796.5890
210	Honduras	Americas	1952	41.912	1517453	2194.9262
211	Honduras	Americas	1957	44.665	1770390	2220.4877
212	Honduras	Americas	1962	48.041	2090162	2291.1568
213	Honduras	Americas	1967	50.924	2500689	2538.2694
214	Honduras	Americas	1972	53.884	2965146	2529.8423
215	Honduras	Americas	1977	57.402	3055235	3203.2081
216	Honduras	Americas	1982	60.909	3669448	3121.7608
217	Hong Kong, China	Asia	1952	60.960	2125900	3054.4212
218	Hong Kong, China	Asia	1957	64.750	2736300	3629.0765
219	Hong Kong, China	Asia	1962	67.650	3305200	4692.6483
220	Hong Kong, China	Asia	1967	70.000	3722800	6197.9628
221	Iceland	Europe	1952	72.490	147962	7267.6884
222	Iceland	Europe	1957	73.470	165110	9244.0014
223	Iceland	Europe	1962	73.680	182053	10350.1591
224	Iceland	Europe	1967	73.730	198676	13319.8957
225	Iceland	Europe	1972	74.460	209275	15798.0636
226	Iceland	Europe	1977	76.110	221823	19654.9625
227	Iceland	Europe	1982	76.990	233997	23269.6075
228	Iceland	Europe	1987	77.230	244676	26923.2063
229	Iceland	Europe	1992	78.770	259012	25144.3920
230	Iceland	Europe	1997	78.950	271192	28061.0997
231	Iceland	Europe	2002	80.500	288030	31163.2020
232	Iceland	Europe	2007	81.757	301931	36180.7892
233	Ireland	Europe	1952	66.910	2952156	5210.2803
234	Ireland	Europe	1957	68.900	2878220	5599.0779

235	Ireland	Europe	1962	70.290	2830000	6631.5973
236	Ireland	Europe	1967	71.080	2900100	7655.5690
237	Ireland	Europe	1972	71.280	3024400	9530.7729
238	Ireland	Europe	1977	72.030	3271900	11150.9811
239	Ireland	Europe	1982	73.100	3480000	12618.3214
240	Ireland	Europe	1987	74.360	3539900	13872.8665
241	Ireland	Europe	1992	75.467	3557761	17558.8155
242	Ireland	Europe	1997	76.122	3667233	24521.9471
243	Ireland	Europe	2002	77.783	3879155	34077.0494
244	Israel	Asia	1952	65.390	1620914	4086.5221
245	Israel	Asia	1957	67.840	1944401	5385.2785
246	Israel	Asia	1962	69.390	2310904	7105.6307
247	Israel	Asia	1967	70.750	2693585	8393.7414
248	Israel	Asia	1972	71.630	3095893	12786.9322
249	Israel	Asia	1977	73.060	3495918	13306.6192
250	Israel	Asia	1982	74.450	3858421	15367.0292
251	Jamaica	Americas	1952	58.530	1426095	2898.5309
252	Jamaica	Americas	1957	62.610	1535090	4756.5258
253	Jamaica	Americas	1962	65.610	1665128	5246.1075
254	Jamaica	Americas	1967	67.510	1861096	6124.7035
255	Jamaica	Americas	1972	69.000	1997616	7433.8893
256	Jamaica	Americas	1977	70.110	2156814	6650.1956
257	Jamaica	Americas	1982	71.210	2298309	6068.0513
258	Jamaica	Americas	1987	71.770	2326606	6351.2375
259	Jamaica	Americas	1992	71.766	2378618	7404.9237
260	Jamaica	Americas	1997	72.262	2531311	7121.9247
261	Jamaica	Americas	2002	72.047	2664659	6994.7749
262	Jamaica	Americas	2007	72.567	2780132	7320.8803
263	Jordan	Asia	1952	43.158	607914	1546.9078
264	Jordan	Asia	1957	45.669	746559	1886.0806
265	Jordan	Asia	1962	48.126	933559	2348.0092
266	Jordan	Asia	1967	51.629	1255058	2741.7963
267	Jordan	Asia	1972	56.528	1613551	2110.8563
268	Jordan	Asia	1977	61.134	1937652	2852.3516
269	Jordan	Asia	1982	63.739	2347031	4161.4160
270	Jordan	Asia	1987	65.869	2820042	4448.6799
271	Jordan	Asia	1992	68.015	3867409	3431.5936
272	Kuwait	Asia	1952	55.565	160000	108382.3529
273	Kuwait	Asia	1957	58.033	212846	113523.1329
274	Kuwait	Asia	1962	60.470	358266	95458.1118
275	Kuwait	Asia	1967	64.624	575003	80894.8833
276	Kuwait	Asia	1972	67.712	841934	109347.8670
277	Kuwait	Asia	1977	69.343	1140357	59265.4771

278	Kuwait	Asia	1982	71.309	1497494	31354.0357
279	Kuwait	Asia	1987	74.174	1891487	28118.4300
280	Kuwait	Asia	1992	75.190	1418095	34932.9196
281	Kuwait	Asia	1997	76.156	1765345	40300.6200
282	Kuwait	Asia	2002	76.904	2111561	35110.1057
283	Kuwait	Asia	2007	77.588	2505559	47306.9898
284	Lebanon	Asia	1952	55.928	1439529	4834.8041
285	Lebanon	Asia	1957	59.489	1647412	6089.7869
286	Lebanon	Asia	1962	62.094	1886848	5714.5606
287	Lebanon	Asia	1967	63.870	2186894	6006.9830
288	Lebanon	Asia	1972	65.421	2680018	7486.3843
289	Lebanon	Asia	1977	66.099	3115787	8659.6968
290	Lebanon	Asia	1982	66.983	3086876	7640.5195
291	Lebanon	Asia	1987	67.926	3089353	5377.0913
292	Lebanon	Asia	1992	69.292	3219994	6890.8069
293	Lebanon	Asia	1997	70.265	3430388	8754.9639
294	Lebanon	Asia	2002	71.028	3677780	9313.9388
295	Lebanon	Asia	2007	71.993	3921278	10461.0587
296	Lesotho	Africa	1952	42.138	748747	298.8462
297	Lesotho	Africa	1957	45.047	813338	335.9971
298	Lesotho	Africa	1962	47.747	893143	411.8006
299	Lesotho	Africa	1967	48.492	996380	498.6390
300	Lesotho	Africa	1972	49.767	1116779	496.5816
301	Lesotho	Africa	1977	52.208	1251524	745.3695
302	Lesotho	Africa	1982	55.078	1411807	797.2631
303	Lesotho	Africa	1987	57.180	1599200	773.9932
304	Lesotho	Africa	1992	59.685	1803195	977.4863
305	Lesotho	Africa	1997	55.558	1982823	1186.1480
306	Lesotho	Africa	2002	44.593	2046772	1275.1846
307	Lesotho	Africa	2007	42.592	2012649	1569.3314
308	Liberia	Africa	1952	38.480	863308	575.5730
309	Liberia	Africa	1957	39.486	975950	620.9700
310	Liberia	Africa	1962	40.502	1112796	634.1952
311	Liberia	Africa	1967	41.536	1279406	713.6036
312	Liberia	Africa	1972	42.614	1482628	803.0055
313	Liberia	Africa	1977	43.764	1703617	640.3224
314	Liberia	Africa	1982	44.852	1956875	572.1996
315	Liberia	Africa	1987	46.027	2269414	506.1139
316	Liberia	Africa	1992	40.802	1912974	636.6229
317	Liberia	Africa	1997	42.221	2200725	609.1740
318	Liberia	Africa	2002	43.753	2814651	531.4824
319	Liberia	Africa	2007	45.678	3193942	414.5073
320	Libya	Africa	1952	42.723	1019729	2387.5481

321	Libya	Africa	1957	45.289	1201578	3448.2844
322	Libya	Africa	1962	47.808	1441863	6757.0308
323	Libya	Africa	1967	50.227	1759224	18772.7517
324	Libya	Africa	1972	52.773	2183877	21011.4972
325	Libya	Africa	1977	57.442	2721783	21951.2118
326	Libya	Africa	1982	62.155	3344074	17364.2754
327	Libya	Africa	1987	66.234	3799845	11770.5898
328	Malawi	Africa	1952	36.256	2917802	369.1651
329	Malawi	Africa	1957	37.207	3221238	416.3698
330	Malawi	Africa	1962	38.410	3628608	427.9011
331	Mali	Africa	1952	33.685	3838168	452.3370
332	Mauritania	Africa	1952	40.543	1022556	743.1159
333	Mauritania	Africa	1957	42.338	1076852	846.1203
334	Mauritania	Africa	1962	44.248	1146757	1055.8960
335	Mauritania	Africa	1967	46.289	1230542	1421.1452
336	Mauritania	Africa	1972	48.437	1332786	1586.8518
337	Mauritania	Africa	1977	50.852	1456688	1497.4922
338	Mauritania	Africa	1982	53.599	1622136	1481.1502
339	Mauritania	Africa	1987	56.145	1841240	1421.6036
340	Mauritania	Africa	1992	58.333	2119465	1361.3698
341	Mauritania	Africa	1997	60.430	2444741	1483.1361
342	Mauritania	Africa	2002	62.247	2828858	1579.0195
343	Mauritania	Africa	2007	64.164	3270065	1803.1515
344	Mauritius	Africa	1952	50.986	516556	1967.9557
345	Mauritius	Africa	1957	58.089	609816	2034.0380
346	Mauritius	Africa	1962	60.246	701016	2529.0675
347	Mauritius	Africa	1967	61.557	789309	2475.3876
348	Mauritius	Africa	1972	62.944	851334	2575.4842
349	Mauritius	Africa	1977	64.930	913025	3710.9830
350	Mauritius	Africa	1982	66.711	992040	3688.0377
351	Mauritius	Africa	1987	68.740	1042663	4783.5869
352	Mauritius	Africa	1992	69.745	1096202	6058.2538
353	Mauritius	Africa	1997	70.736	1149818	7425.7053
354	Mauritius	Africa	2002	71.954	1200206	9021.8159
355	Mauritius	Africa	2007	72.801	1250882	10956.9911
356	Mongolia	Asia	1952	42.244	800663	786.5669
357	Mongolia	Asia	1957	45.248	882134	912.6626
358	Mongolia	Asia	1962	48.251	1010280	1056.3540
359	Mongolia	Asia	1967	51.253	1149500	1226.0411
360	Mongolia	Asia	1972	53.754	1320500	1421.7420
361	Mongolia	Asia	1977	55.491	1528000	1647.5117
362	Mongolia	Asia	1982	57.489	1756032	2000.6031
363	Mongolia	Asia	1987	60.222	2015133	2338.0083

364	Mongolia	Asia	1992	61.271	2312802	1785.4020
365	Mongolia	Asia	1997	63.625	2494803	1902.2521
366	Mongolia	Asia	2002	65.033	2674234	2140.7393
367	Mongolia	Asia	2007	66.803	2874127	3095.7723
368	Montenegro	Europe	1952	59.164	413834	2647.5856
369	Montenegro	Europe	1957	61.448	442829	3682.2599
370	Montenegro	Europe	1962	63.728	474528	4649.5938
371	Montenegro	Europe	1967	67.178	501035	5907.8509
372	Montenegro	Europe	1972	70.636	527678	7778.4140
373	Montenegro	Europe	1977	73.066	560073	9595.9299
374	Montenegro	Europe	1982	74.101	562548	11222.5876
375	Montenegro	Europe	1987	74.865	569473	11732.5102
376	Montenegro	Europe	1992	75.435	621621	7003.3390
377	Montenegro	Europe	1997	75.445	692651	6465.6133
378	Montenegro	Europe	2002	73.981	720230	6557.1943
379	Montenegro	Europe	2007	74.543	684736	9253.8961
380	Namibia	Africa	1952	41.725	485831	2423.7804
381	Namibia	Africa	1957	45.226	548080	2621.4481
382	Namibia	Africa	1962	48.386	621392	3173.2156
383	Namibia	Africa	1967	51.159	706640	3793.6948
384	Namibia	Africa	1972	53.867	821782	3746.0809
385	Namibia	Africa	1977	56.437	977026	3876.4860
386	Namibia	Africa	1982	58.968	1099010	4191.1005
387	Namibia	Africa	1987	60.835	1278184	3693.7313
388	Namibia	Africa	1992	61.999	1554253	3804.5380
389	Namibia	Africa	1997	58.909	1774766	3899.5243
390	Namibia	Africa	2002	51.479	1972153	4072.3248
391	Namibia	Africa	2007	52.906	2055080	4811.0604
392	New Zealand	Oceania	1952	69.390	1994794	10556.5757
393	New Zealand	Oceania	1957	70.260	2229407	12247.3953
394	New Zealand	Oceania	1962	71.240	2488550	13175.6780
395	New Zealand	Oceania	1967	71.520	2728150	14463.9189
396	New Zealand	Oceania	1972	71.890	2929100	16046.0373
397	New Zealand	Oceania	1977	72.220	3164900	16233.7177
398	New Zealand	Oceania	1982	73.840	3210650	17632.4104
399	New Zealand	Oceania	1987	74.320	3317166	19007.1913
400	New Zealand	Oceania	1992	76.330	3437674	18363.3249
401	New Zealand	Oceania	1997	77.550	3676187	21050.4138
402	New Zealand	Oceania	2002	79.110	3908037	23189.8014
403	Nicaragua	Americas	1952	42.314	1165790	3112.3639
404	Nicaragua	Americas	1957	45.432	1358828	3457.4159
405	Nicaragua	Americas	1962	48.632	1590597	3634.3644
406	Nicaragua	Americas	1967	51.884	1865490	4643.3935

407	Nicaragua	Americas	1972	55.151	2182908	4688.5933
408	Nicaragua	Americas	1977	57.470	2554598	5486.3711
409	Nicaragua	Americas	1982	59.298	2979423	3470.3382
410	Nicaragua	Americas	1987	62.008	3344353	2955.9844
411	Nicaragua	Americas	1992	65.843	4017939	2170.1517
412	Niger	Africa	1952	37.444	3379468	761.8794
413	Niger	Africa	1957	38.598	3692184	835.5234
414	Niger	Africa	1962	39.487	4076008	997.7661
415	Norway	Europe	1952	72.670	3327728	10095.4217
416	Norway	Europe	1957	73.440	3491938	11653.9730
417	Norway	Europe	1962	73.470	3638919	13450.4015
418	Norway	Europe	1967	74.080	3786019	16361.8765
419	Norway	Europe	1972	74.340	3933004	18965.0555
420	Norway	Europe	1977	75.370	4043205	23311.3494
421	Oman	Asia	1952	37.578	507833	1828.2303
422	Oman	Asia	1957	40.080	561977	2242.7466
423	Oman	Asia	1962	43.165	628164	2924.6381
424	Oman	Asia	1967	46.988	714775	4720.9427
425	Oman	Asia	1972	52.143	829050	10618.0385
426	Oman	Asia	1977	57.367	1004533	11848.3439
427	Oman	Asia	1982	62.728	1301048	12954.7910
428	Oman	Asia	1987	67.734	1593882	18115.2231
429	Oman	Asia	1992	71.197	1915208	18616.7069
430	Oman	Asia	1997	72.499	2283635	19702.0558
431	Oman	Asia	2002	74.193	2713462	19774.8369
432	Oman	Asia	2007	75.640	3204897	22316.1929
433	Panama	Americas	1952	55.191	940080	2480.3803
434	Panama	Americas	1957	59.201	1063506	2961.8009
435	Panama	Americas	1962	61.817	1215725	3536.5403
436	Panama	Americas	1967	64.071	1405486	4421.0091
437	Panama	Americas	1972	66.216	1616384	5364.2497
438	Panama	Americas	1977	68.681	1839782	5351.9121
439	Panama	Americas	1982	70.472	2036305	7009.6016
440	Panama	Americas	1987	71.523	2253639	7034.7792
441	Panama	Americas	1992	72.462	2484997	6618.7431
442	Panama	Americas	1997	73.738	2734531	7113.6923
443	Panama	Americas	2002	74.712	2990875	7356.0319
444	Panama	Americas	2007	75.537	3242173	9809.1856
445	Paraguay	Americas	1952	62.649	1555876	1952.3087
446	Paraguay	Americas	1957	63.196	1770902	2046.1547
447	Paraguay	Americas	1962	64.361	2009813	2148.0271
448	Paraguay	Americas	1967	64.951	2287985	2299.3763
449	Paraguay	Americas	1972	65.815	2614104	2523.3380

450	Paraguay	Americas	1977	66.353	2984494	3248.3733
451	Paraguay	Americas	1982	66.874	3366439	4258.5036
452	Paraguay	Americas	1987	67.378	3886512	3998.8757
453	Puerto Rico	Americas	1952	64.280	2227000	3081.9598
454	Puerto Rico	Americas	1957	68.540	2260000	3907.1562
455	Puerto Rico	Americas	1962	69.620	2448046	5108.3446
456	Puerto Rico	Americas	1967	71.100	2648961	6929.2777
457	Puerto Rico	Americas	1972	72.160	2847132	9123.0417
458	Puerto Rico	Americas	1977	73.440	3080828	9770.5249
459	Puerto Rico	Americas	1982	73.750	3279001	10330.9891
460	Puerto Rico	Americas	1987	74.630	3444468	12281.3419
461	Puerto Rico	Americas	1992	73.911	3585176	14641.5871
462	Puerto Rico	Americas	1997	74.917	3759430	16999.4333
463	Puerto Rico	Americas	2002	77.778	3859606	18855.6062
464	Puerto Rico	Americas	2007	78.746	3942491	19328.7090
465	Reunion	Africa	1952	52.724	257700	2718.8853
466	Reunion	Africa	1957	55.090	308700	2769.4518
467	Reunion	Africa	1962	57.666	358900	3173.7233
468	Reunion	Africa	1967	60.542	414024	4021.1757
469	Reunion	Africa	1972	64.274	461633	5047.6586
470	Reunion	Africa	1977	67.064	492095	4319.8041
471	Reunion	Africa	1982	69.885	517810	5267.2194
472	Reunion	Africa	1987	71.913	562035	5303.3775
473	Reunion	Africa	1992	73.615	622191	6101.2558
474	Reunion	Africa	1997	74.772	684810	6071.9414
475	Reunion	Africa	2002	75.744	743981	6316.1652
476	Reunion	Africa	2007	76.442	798094	7670.1226
477	Rwanda	Africa	1952	40.000	2534927	493.3239
478	Rwanda	Africa	1957	41.500	2822082	540.2894
479	Rwanda	Africa	1962	43.000	3051242	597.4731
480	Rwanda	Africa	1967	44.100	3451079	510.9637
481	Rwanda	Africa	1972	44.600	3992121	590.5807
482	Sao Tome and Principe	Africa	1952	46.471	60011	879.5836
483	Sao Tome and Principe	Africa	1957	48.945	61325	860.7369
484	Sao Tome and Principe	Africa	1962	51.893	65345	1071.5511
485	Sao Tome and Principe	Africa	1967	54.425	70787	1384.8406
486	Sao Tome and Principe	Africa	1972	56.480	76595	1532.9853
487	Sao Tome and Principe	Africa	1977	58.550	86796	1737.5617
488	Sao Tome and Principe	Africa	1982	60.351	98593	1890.2181
489	Sao Tome and Principe	Africa	1987	61.728	110812	1516.5255
490	Sao Tome and Principe	Africa	1992	62.742	125911	1428.7778
491	Sao Tome and Principe	Africa	1997	63.306	145608	1339.0760
492	Sao Tome and Principe	Africa	2002	64.337	170372	1353.0924

493	Sao Tome and Principe	Africa	2007	65.528	199579	1598.4351
494	Saudi Arabia	Asia	1952	39.875	4005677	6459.5548
495	Senegal	Africa	1952	37.278	2755589	1450.3570
496	Senegal	Africa	1957	39.329	3054547	1567.6530
497	Senegal	Africa	1962	41.454	3430243	1654.9887
498	Senegal	Africa	1967	43.563	3965841	1612.4046
499	Sierra Leone	Africa	1952	30.331	2143249	879.7877
500	Sierra Leone	Africa	1957	31.570	2295678	1004.4844
501	Sierra Leone	Africa	1962	32.767	2467895	1116.6399
502	Sierra Leone	Africa	1967	34.113	2662190	1206.0435
503	Sierra Leone	Africa	1972	35.400	2879013	1353.7598
504	Sierra Leone	Africa	1977	36.788	3140897	1348.2852
505	Sierra Leone	Africa	1982	38.445	3464522	1465.0108
506	Sierra Leone	Africa	1987	40.006	3868905	1294.4478
507	Singapore	Asia	1952	60.396	1127000	2315.1382
508	Singapore	Asia	1957	63.179	1445929	2843.1044
509	Singapore	Asia	1962	65.798	1750200	3674.7356
510	Singapore	Asia	1967	67.946	1977600	4977.4185
511	Singapore	Asia	1972	69.521	2152400	8597.7562
512	Singapore	Asia	1977	70.795	2325300	11210.0895
513	Singapore	Asia	1982	71.760	2651869	15169.1611
514	Singapore	Asia	1987	73.560	2794552	18861.5308
515	Singapore	Asia	1992	75.788	3235865	24769.8912
516	Singapore	Asia	1997	77.158	3802309	33519.4766
517	Slovak Republic	Europe	1952	64.360	3558137	5074.6591
518	Slovak Republic	Europe	1957	67.450	3844277	6093.2630
519	Slovenia	Europe	1952	65.570	1489518	4215.0417
520	Slovenia	Europe	1957	67.850	1533070	5862.2766
521	Slovenia	Europe	1962	69.150	1582962	7402.3034
522	Slovenia	Europe	1967	69.180	1646912	9405.4894
523	Slovenia	Europe	1972	69.820	1694510	12383.4862
524	Slovenia	Europe	1977	70.970	1746919	15277.0302
525	Slovenia	Europe	1982	71.063	1861252	17866.7218
526	Slovenia	Europe	1987	72.250	1945870	18678.5349
527	Slovenia	Europe	1992	73.640	1999210	14214.7168
528	Slovenia	Europe	1997	75.130	2011612	17161.1073
529	Slovenia	Europe	2002	76.660	2011497	20660.0194
530	Slovenia	Europe	2007	77.926	2009245	25768.2576
531	Somalia	Africa	1952	32.978	2526994	1135.7498
532	Somalia	Africa	1957	34.977	2780415	1258.1474
533	Somalia	Africa	1962	36.981	3080153	1369.4883
534	Somalia	Africa	1967	38.977	3428839	1284.7332
535	Somalia	Africa	1972	40.973	3840161	1254.5761

536	Swaziland	Africa	1952	41.407	290243	1148.3766
537	Swaziland	Africa	1957	43.424	326741	1244.7084
538	Swaziland	Africa	1962	44.992	370006	1856.1821
539	Swaziland	Africa	1967	46.633	420690	2613.1017
540	Swaziland	Africa	1972	49.552	480105	3364.8366
541	Swaziland	Africa	1977	52.537	551425	3781.4106
542	Swaziland	Africa	1982	55.561	649901	3895.3840
543	Swaziland	Africa	1987	57.678	779348	3984.8398
544	Swaziland	Africa	1992	58.474	962344	3553.0224
545	Swaziland	Africa	1997	54.289	1054486	3876.7685
546	Swaziland	Africa	2002	43.869	1130269	4128.1169
547	Swaziland	Africa	2007	39.613	1133066	4513.4806
548	Syria	Asia	1952	45.883	3661549	1643.4854
549	Togo	Africa	1952	38.596	1219113	859.8087
550	Togo	Africa	1957	41.208	1357445	925.9083
551	Togo	Africa	1962	43.922	1528098	1067.5348
552	Togo	Africa	1967	46.769	1735550	1477.5968
553	Togo	Africa	1972	49.759	2056351	1649.6602
554	Togo	Africa	1977	52.887	2308582	1532.7770
555	Togo	Africa	1982	55.471	2644765	1344.5780
556	Togo	Africa	1987	56.941	3154264	1202.2014
557	Togo	Africa	1992	58.061	3747553	1034.2989
558	Trinidad and Tobago	Americas	1952	59.100	662850	3023.2719
559	Trinidad and Tobago	Americas	1957	61.800	764900	4100.3934
560	Trinidad and Tobago	Americas	1962	64.900	887498	4997.5240
561	Trinidad and Tobago	Americas	1967	65.400	960155	5621.3685
562	Trinidad and Tobago	Americas	1972	65.900	975199	6619.5514
563	Trinidad and Tobago	Americas	1977	68.300	1039009	7899.5542
564	Trinidad and Tobago	Americas	1982	68.832	1116479	9119.5286
565	Trinidad and Tobago	Americas	1987	69.582	1191336	7388.5978
566	Trinidad and Tobago	Americas	1992	69.862	1183669	7370.9909
567	Trinidad and Tobago	Americas	1997	69.465	1138101	8792.5731
568	Trinidad and Tobago	Americas	2002	68.976	1101832	11460.6002
569	Trinidad and Tobago	Americas	2007	69.819	1056608	18008.5092
570	Tunisia	Africa	1952	44.600	3647735	1468.4756
571	Tunisia	Africa	1957	47.100	3950849	1395.2325
572	Uruguay	Americas	1952	66.071	2252965	5716.7667
573	Uruguay	Americas	1957	67.044	2424959	6150.7730
574	Uruguay	Americas	1962	68.253	2598466	5603.3577
575	Uruguay	Americas	1967	68.468	2748579	5444.6196
576	Uruguay	Americas	1972	68.673	2829526	5703.4089
577	Uruguay	Americas	1977	69.481	2873520	6504.3397
578	Uruguay	Americas	1982	70.805	2953997	6920.2231

579	Uruguay	Americas	1987	71.918	3045153	7452.3990
580	Uruguay	Americas	1992	72.752	3149262	8137.0048
581	Uruguay	Americas	1997	74.223	3262838	9230.2407
582	Uruguay	Americas	2002	75.307	3363085	7727.0020
583	Uruguay	Americas	2007	76.384	3447496	10611.4630
584	West Bank and Gaza	Asia	1952	43.160	1030585	1515.5923
585	West Bank and Gaza	Asia	1957	45.671	1070439	1827.0677
586	West Bank and Gaza	Asia	1962	48.127	1133134	2198.9563
587	West Bank and Gaza	Asia	1967	51.631	1142636	2649.7150
588	West Bank and Gaza	Asia	1972	56.532	1089572	3133.4093
589	West Bank and Gaza	Asia	1977	60.765	1261091	3682.8315
590	West Bank and Gaza	Asia	1982	64.406	1425876	4336.0321
591	West Bank and Gaza	Asia	1987	67.046	1691210	5107.1974
592	West Bank and Gaza	Asia	1992	69.718	2104779	6017.6548
593	West Bank and Gaza	Asia	1997	71.096	2826046	7110.6676
594	West Bank and Gaza	Asia	2002	72.370	3389578	4515.4876
595	West Bank and Gaza	Asia	2007	73.422	4018332	3025.3498
596	Zambia	Africa	1952	42.038	2672000	1147.3888
597	Zambia	Africa	1957	44.077	3016000	1311.9568
598	Zambia	Africa	1962	46.023	3421000	1452.7258
599	Zambia	Africa	1967	47.768	3900000	1777.0773
600	Zimbabwe	Africa	1952	48.451	3080907	406.8841
601	Zimbabwe	Africa	1957	50.469	3646340	518.7643