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**Project** - Age distribution of population in the United Sates, 1900-2002

**Objective** – Analyzes population in the United States between 1900-2002 in variety presentation by R language programming.

1. Present age group between 1900 – 2002 on graph chart by using Knits and Sweave

**Code**

\documentclass[12pt, letterpaper, twoside]{article}

\usepackage[utf8]{inputenc}

\title{Final Project}

\author{CSC 522 - R Language Programming}

\date{Muchchima Suphap}

\begin{document}

\SweaveOpts{concordance=TRUE}

\begin{titlepage}

\maketitle

\end{titlepage}

In this document will present knowledge of R programming from class CSC 522 - R Language Programming by Professor Patricia Hoffman. There are three topics:

\begin{enumerate}

\item Present age group between on graph chart between 1900 and 2002 by using Knits and Sweave.

\item Analyst min, max, mean [detail statistics] of each age group in each year.

\item Investigate using data visualization technique that I learn from the class.

\end{enumerate}

Example data set of uspopage: Age distribution of population in the United States between 1900 and 2002 from package gcookbook.

\begin{table}[h!]

\centering

\begin{tabular}{||c c c c||}

\hline

Row & Year & Age group & Population (thousands) \\ [0.5ex]

\hline

\hline

1 & 1900 & less than 5 & 9181 \\

2 & 1900 & 5-14 & 16966 \\

3 & 1900 & 15-24 & 14951 \\

4 & 1900 & 25-34 & 12161 \\

5 & 1900 & 35-44 & 9273 \\

6 & 1900 & 45-54 & 6437 \\

7 & 1900 & 55-64 & 4026 \\

8 & 1900 & more than 64 & 3099 \\ [1ex]

\hline

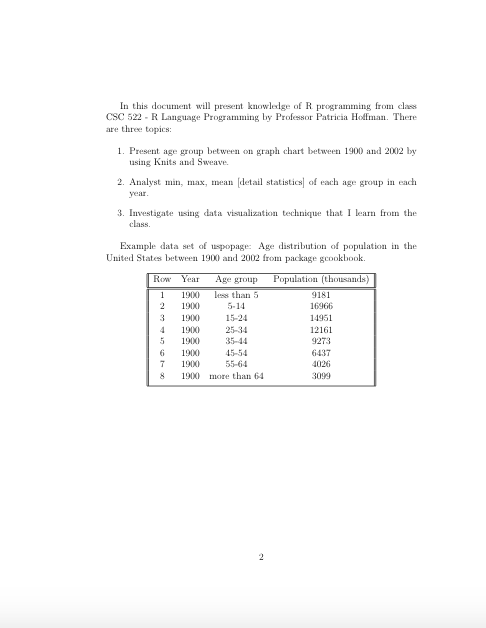
\end{tabular}

\end{table}

\end{document}

**Output** Print code on PDF





1. Analyst min, max, mean [detail statistics] of each age group in each year

**Code**

> min(uspopage$Thousands)

[1] 3099

> max(uspopage$Thousands)

[1] 45154

> mean(uspopage$Thousands)

[1] 20899.91

**Analyst**

Statistic US population between years 1900 - 2002

* In 1900, USA has the minimum population is 3099 (age is over 64 years old).
* In 2000, USA has the maximum population is 45154 (age is between 35-44 years old).
* USA has average population is 20899.91 between year 1900 - 2002

**Code**

> max(uspopage$Thousands[uspopage$AgeGroup=="<5"])

[1] 20522

> uspopage[uspopage$Thousands == "20522" & uspopage$AgeGroup == "<5", ]

Year AgeGroup Thousands

489 1961 <5 20522

> max(uspopage$Thousands[uspopage$AgeGroup=="5-14"])

[1] 41118

> uspopage[uspopage$Thousands == "41118" & uspopage$AgeGroup == "5-14", ]

Year AgeGroup Thousands

810 2001 5-14 41118

> max(uspopage$Thousands[uspopage$AgeGroup=="15-24"])

[1] 42699

> uspopage[uspopage$Thousands == "42699" & uspopage$AgeGroup == "15-24", ]

Year AgeGroup Thousands

635 1979 15-24 42699

> max(uspopage$Thousands[uspopage$AgeGroup=="25-34"])

[1] 43236

> uspopage[uspopage$Thousands == "43236" & uspopage$AgeGroup == "25-34", ]

Year AgeGroup Thousands

716 1989 25-34 43236

> max(uspopage$Thousands[uspopage$AgeGroup=="35-44"])

[1] 45154

> uspopage[uspopage$Thousands == "45154" & uspopage$AgeGroup == "35-44", ]

Year AgeGroup Thousands

805 2000 35-44 45154

> max(uspopage$Thousands[uspopage$AgeGroup=="45-54"])

[1] 40084

> uspopage[uspopage$Thousands == "40084" & uspopage$AgeGroup == "45-54", ]

Year AgeGroup Thousands

822 2002 45-54 40084

> max(uspopage$Thousands[uspopage$AgeGroup=="55-64"])

[1] 26602

> uspopage[uspopage$Thousands == "26602" & uspopage$AgeGroup == "55-64", ]

Year AgeGroup Thousands

823 2002 55-64 26602

> max(uspopage$Thousands[uspopage$AgeGroup==">64"])

[1] 35602

> uspopage[uspopage$Thousands == "35602" & uspopage$AgeGroup == ">64", ]

Year AgeGroup Thousands

824 2002 >64 35602

**Analyst**

Summary of maximum population in each age group

|  |  |  |
| --- | --- | --- |
| Age group (years) | Maximum population (Thousands) | Year |
| 0 - 5 | 20522 | 1961 |
| 5 - 14 | 41118 | 2001 |
| 15 - 24 | 42699 | 1979 |
| 25 - 34 | 43236 | 1989 |
| 35 - 44 | 45154 | 2000 |
| 45 - 54 | 40084 | 2002 |
| 55 - 64 | 26602 | 2002 |
| Over 64 | 35602 | 2002 |

In summary, in 2002 USA has maximum population in three age groups. There are 45 – 54, 55 – 64, and over 64 years old.

**Code**

> min(uspopage$Thousands[uspopage$AgeGroup=="<5"])

[1] 9181

> uspopage[uspopage$Thousands == "9181" & uspopage$AgeGroup == "<5", ]

Year AgeGroup Thousands

1 1900 <5 9181

> min(uspopage$Thousands[uspopage$AgeGroup=="5-14"])

[1] 16966

> uspopage[uspopage$Thousands == "16966" & uspopage$AgeGroup == "5-14", ]

Year AgeGroup Thousands

2 1900 5-14 16966

> min(uspopage$Thousands[uspopage$AgeGroup=="15-24"])

[1] 14951

> uspopage[uspopage$Thousands == "14951" & uspopage$AgeGroup == "15-24", ]

Year AgeGroup Thousands

3 1900 15-24 14951

> min(uspopage$Thousands[uspopage$AgeGroup=="25-34"])

[1] 12161

> uspopage[uspopage$Thousands == "12161" & uspopage$AgeGroup == "25-34", ]

Year AgeGroup Thousands

4 1900 25-34 12161

> min(uspopage$Thousands[uspopage$AgeGroup=="35-44"])

[1] 9273

> uspopage[uspopage$Thousands == "9273" & uspopage$AgeGroup == "35-44", ]

Year AgeGroup Thousands

5 1900 35-44 9273

> min(uspopage$Thousands[uspopage$AgeGroup=="45-54"])

[1] 6437

> uspopage[uspopage$Thousands == "6437" & uspopage$AgeGroup == "45-54", ]

Year AgeGroup Thousands

6 1900 45-54 6437

> min(uspopage$Thousands[uspopage$AgeGroup=="55-64"])

[1] 4026

> uspopage[uspopage$Thousands == "4026" & uspopage$AgeGroup == "55-64", ]

Year AgeGroup Thousands

7 1900 55-64 4026

> min(uspopage$Thousands[uspopage$AgeGroup==">64"])

[1] 3099

> uspopage[uspopage$Thousands == "3099" & uspopage$AgeGroup == ">64", ]

Year AgeGroup Thousands

8 1900 >64 3099

**Analyst**

Summary of maximum population in each age group

|  |  |  |
| --- | --- | --- |
| Age group (years) | Minimum population (Thousands) | Year |
| 0 - 5 | 9181 | 1900 |
| 5 - 14 | 16966 | 1900 |
| 15 - 24 | 14951 | 1900 |
| 25 - 34 | 12161 | 1900 |
| 35 - 44 | 9273 | 1900 |
| 45 - 54 | 6437 | 1900 |
| 55 - 64 | 4026 | 1900 |
| Over 64 | 3099 | 1900 |

In summary, in 1900 USA has minimum population in every age group.

**Code**

> mean(uspopage$Thousands[uspopage$AgeGroup=="<5"])

[1] 14898.34

> mean(uspopage$Thousands[uspopage$AgeGroup=="5-14"])

[1] 29066.43

> mean(uspopage$Thousands[uspopage$AgeGroup=="15-24"])

[1] 27541.16

> mean(uspopage$Thousands[uspopage$AgeGroup=="25-34"])

[1] 25592.1

> mean(uspopage$Thousands[uspopage$AgeGroup=="35-44"])

[1] 22637.67

> mean(uspopage$Thousands[uspopage$AgeGroup=="45-54"])

[1] 18282.41

> mean(uspopage$Thousands[uspopage$AgeGroup=="55-64"])

[1] 13762.1

> mean(uspopage$Thousands[uspopage$AgeGroup==">64"])

[1] 15419.06

**Analyst**

Summary of average population in each age group

|  |  |
| --- | --- |
| Age group (years) | Minimum population (Thousands) |
| 0 - 5 | 14894.34 |
| 5 - 14 | 29066.43 |
| 15 - 24 | 27541.16 |
| 25 - 34 | 25592.1 |
| 35 - 44 | 22637.67 |
| 45 - 54 | 18282.41 |
| 55 - 64 | 13762.1 |
| Over 64 | 15419.06 |

In summary, between year 1900 – 2002, USA has average population between 13762.1- 29066.43.

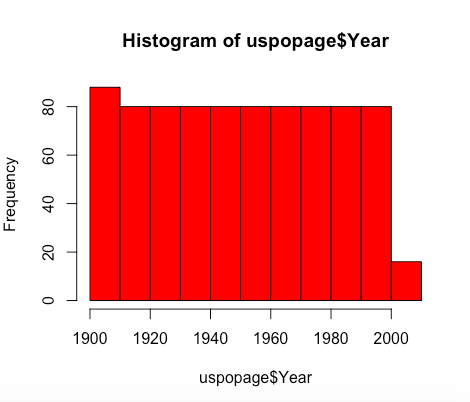
1. Investigate using data visualization technique that I learn from the class

**Code**

> hist(uspopage$Year, breaks=12, col="red")

**Graph**

Colored Histogram between years 1900 – 2002

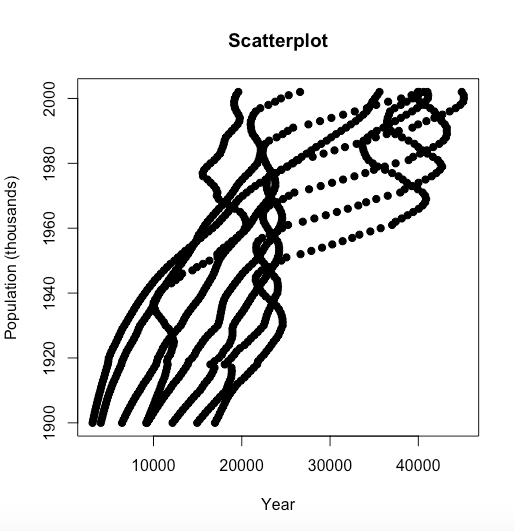


**Code**

> plot(Thousands, Year, main="Scatterplot", xlab="Year", ylab="Population (thousands)", pch=19)

**Graph**

Scatterplot of year by Age distribution of population in USA, 1900-2002



**Code**

> install.packages("ggvis")

> install.packages("gcookbook")

> library(gcookbook)

> uspopage %>% ggvis(x = ~Year) %>%

+ layer\_densities(

+ adjust = input\_slider(.1, 2, value = 1, step = .1, label = "Bandwidth adjustment"),

+ kernel = input\_select(

+ c("Gaussian" = "gaussian",

+ "Epanechnikov" = "epanechnikov",

+ "Rectangular" = "rectangular",

+ "Triangular" = "triangular",

+ "Biweight" = "biweight",

+ "Cosine" = "cosine",

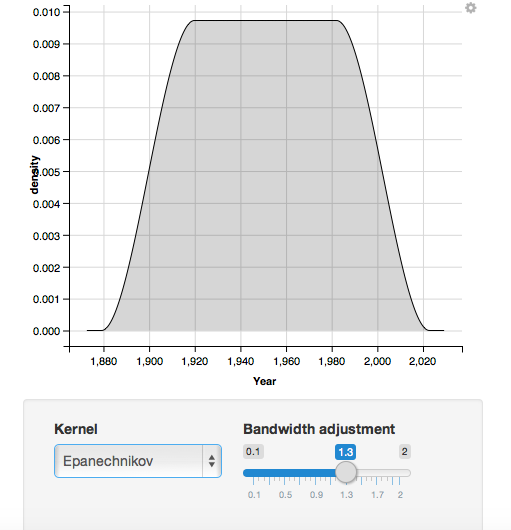
+ "Optcosine" = "optcosine"),

+ label = "Kernel")

+ )

Showing dynamic visualisation. Press Escape/Ctrl + C to stop.

**Graph**



**Appendix A**

**Data set** – uspopage: Age distribution of population in the United States, 1900-2002 from gcookbook package.

1. Install gcookbook package

> install.packages("gcookbook")

> library(gcookbook)

> data("gcookbook")

> try(data(package = "gcookbook"))

1. Fetch data set ‘uspopage : Age distribution of population in the United States, 1900-

2002’ in package ‘gcookbook’

> uspopage

Year AgeGroup Thousands

1 1900 <5 9181

2 1900 5-14 16966

3 1900 15-24 14951

4 1900 25-34 12161

5 1900 35-44 9273

6 1900 45-54 6437

7 1900 55-64 4026

8 1900 >64 3099

9 1901 <5 9336

10 1901 5-14 17158

11 1901 15-24 15242

12 1901 25-34 12442

13 1901 35-44 9504

14 1901 45-54 6606

15 1901 55-64 4122

16 1901 >64 3174

17 1902 <5 9502

18 1902 5-14 17360

19 1902 15-24 15555

20 1902 25-34 12737

21 1902 35-44 9745

22 1902 45-54 6788

23 1902 55-64 4220

24 1902 >64 3256

25 1903 <5 9645

26 1903 5-14 17524

27 1903 15-24 15858

28 1903 25-34 13019

29 1903 35-44 9974

30 1903 45-54 6964

31 1903 55-64 4313

32 1903 >64 3335

33 1904 <5 9791

34 1904 5-14 17697

35 1904 15-24 16178

36 1904 25-34 13315

37 1904 35-44 10211

38 1904 45-54 7150

39 1904 55-64 4410

40 1904 >64 3414

41 1905 <5 9944

42 1905 5-14 17888

43 1905 15-24 16526

44 1905 25-34 13631

45 1905 35-44 10461

46 1905 45-54 7350

47 1905 55-64 4517

48 1905 >64 3505

49 1906 <5 10092

50 1906 5-14 18067

51 1906 15-24 16864

52 1906 25-34 13952

53 1906 35-44 10705

54 1906 45-54 7554

55 1906 55-64 4621

56 1906 >64 3595

57 1907 <5 10220

58 1907 5-14 18240

59 1907 15-24 17184

60 1907 25-34 14257

61 1907 35-44 10945

62 1907 45-54 7755

63 1907 55-64 4724

64 1907 >64 3684

65 1908 <5 10364

66 1908 5-14 18440

67 1908 15-24 17526

68 1908 25-34 14585

69 1908 35-44 11202

70 1908 45-54 7974

71 1908 55-64 4840

72 1908 >64 3779

73 1909 <5 10509

74 1909 5-14 18670

75 1909 15-24 17871

76 1909 25-34 14923

77 1909 35-44 11471

78 1909 45-54 8204

79 1909 55-64 4964

80 1909 >64 3878

81 1910 <5 10671

82 1910 5-14 18950

83 1910 15-24 18212

84 1910 25-34 15274

85 1910 35-44 11759

86 1910 45-54 8454

87 1910 55-64 5101

88 1910 >64 3986

89 1911 <5 10796

90 1911 5-14 19214

91 1911 15-24 18355

92 1911 25-34 15530

93 1911 35-44 12003

94 1911 45-54 8657

95 1911 55-64 5234

96 1911 >64 4074

97 1912 <5 10915

98 1912 5-14 19503

99 1912 15-24 18477

100 1912 25-34 15772

101 1912 35-44 12252

102 1912 45-54 8875

103 1912 55-64 5372

104 1912 >64 4169

105 1913 <5 11082

106 1913 5-14 19904

107 1913 15-24 18649

108 1913 25-34 16070

109 1913 35-44 12562

110 1913 45-54 9135

111 1913 55-64 5542

112 1913 >64 4281

113 1914 <5 11244

114 1914 5-14 20316

115 1914 15-24 18796

116 1914 25-34 16370

117 1914 35-44 12875

118 1914 45-54 9398

119 1914 55-64 5711

120 1914 >64 4401

121 1915 <5 11347

122 1915 5-14 20660

123 1915 15-24 18844

124 1915 25-34 16580

125 1915 35-44 13130

126 1915 45-54 9618

127 1915 55-64 5866

128 1915 >64 4501

129 1916 <5 11442

130 1916 5-14 21008

131 1916 15-24 18872

132 1916 25-34 16776

133 1916 35-44 13388

134 1916 45-54 9846

135 1916 55-64 6026

136 1916 >64 4603

137 1917 <5 11527

138 1917 5-14 21369

139 1917 15-24 18836

140 1917 25-34 16913

141 1917 35-44 13647

142 1917 45-54 10068

143 1917 55-64 6194

144 1917 >64 4714

145 1918 <5 11606

146 1918 5-14 21732

147 1918 15-24 18071

148 1918 25-34 16445

149 1918 35-44 13879

150 1918 45-54 10293

151 1918 55-64 6356

152 1918 >64 4826

153 1919 <5 11536

154 1919 5-14 21849

155 1919 15-24 18465

156 1919 25-34 16912

157 1919 35-44 14008

158 1919 45-54 10402

159 1919 55-64 6456

160 1919 >64 4886

161 1920 <5 11631

162 1920 5-14 22158

163 1920 15-24 18821

164 1920 25-34 17416

165 1920 35-44 14382

166 1920 45-54 10505

167 1920 55-64 6619

168 1920 >64 4929

169 1921 <5 11879

170 1921 5-14 22515

171 1921 15-24 19140

172 1921 25-34 17747

173 1921 35-44 14665

174 1921 45-54 10721

175 1921 55-64 6791

176 1921 >64 5080

177 1922 <5 12031

178 1922 5-14 22788

179 1922 15-24 19402

180 1922 25-34 17924

181 1922 35-44 14823

182 1922 45-54 10899

183 1922 55-64 6951

184 1922 >64 5231

185 1923 <5 12119

186 1923 5-14 23089

187 1923 15-24 19798

188 1923 25-34 18231

189 1923 35-44 15066

190 1923 45-54 11068

191 1923 55-64 7165

192 1923 >64 5411

193 1924 <5 12269

194 1924 5-14 23358

195 1924 15-24 20314

196 1924 25-34 18557

197 1924 35-44 15337

198 1924 45-54 11278

199 1924 55-64 7387

200 1924 >64 5609

201 1925 <5 12316

202 1925 5-14 23614

203 1925 15-24 20691

204 1925 25-34 18720

205 1925 35-44 15576

206 1925 45-54 11521

207 1925 55-64 7605

208 1925 >64 5786

209 1926 <5 12189

210 1926 5-14 23906

211 1926 15-24 21037

212 1926 25-34 18867

213 1926 35-44 15847

214 1926 45-54 11786

215 1926 55-64 7805

216 1926 >64 5960

217 1927 <5 12111

218 1927 5-14 24152

219 1927 15-24 21430

220 1927 25-34 18948

221 1927 35-44 16172

222 1927 45-54 12092

223 1927 55-64 8003

224 1927 >64 6127

225 1928 <5 11978

226 1928 5-14 24320

227 1928 15-24 21811

228 1928 25-34 18953

229 1928 35-44 16540

230 1928 45-54 12430

231 1928 55-64 8178

232 1928 >64 6299

233 1929 <5 11734

234 1929 5-14 24470

235 1929 15-24 22151

236 1929 25-34 18941

237 1929 35-44 16921

238 1929 45-54 12761

239 1929 55-64 8315

240 1929 >64 6474

241 1930 <5 11372

242 1930 5-14 24631

243 1930 15-24 22487

244 1930 25-34 19039

245 1930 35-44 17270

246 1930 45-54 13096

247 1930 55-64 8477

248 1930 >64 6705

249 1931 <5 11179

250 1931 5-14 24629

251 1931 15-24 22617

252 1931 25-34 19242

253 1931 35-44 17412

254 1931 45-54 13296

255 1931 55-64 8735

256 1931 >64 6928

257 1932 <5 10903

258 1932 5-14 24614

259 1932 15-24 22716

260 1932 25-34 19484

261 1932 35-44 17504

262 1932 45-54 13481

263 1932 55-64 8992

264 1932 >64 7147

265 1933 <5 10612

266 1933 5-14 24531

267 1933 15-24 22820

268 1933 25-34 19750

269 1933 35-44 17569

270 1933 45-54 13684

271 1933 55-64 9249

272 1933 >64 7363

273 1934 <5 10331

274 1934 5-14 24402

275 1934 15-24 22963

276 1934 25-34 20022

277 1934 35-44 17640

278 1934 45-54 13933

279 1934 55-64 9502

280 1934 >64 7582

281 1935 <5 10170

282 1935 5-14 24213

283 1935 15-24 23130

284 1935 25-34 20275

285 1935 35-44 17712

286 1935 45-54 14208

287 1935 55-64 9739

288 1935 >64 7804

289 1936 <5 10044

290 1936 5-14 23942

291 1936 15-24 23309

292 1936 25-34 20505

293 1936 35-44 17783

294 1936 45-54 14495

295 1936 55-64 9949

296 1936 >64 8027

297 1937 <5 10009

298 1937 5-14 23564

299 1937 15-24 23487

300 1937 25-34 20723

301 1937 35-44 17866

302 1937 45-54 14785

303 1937 55-64 10132

304 1937 >64 8258

305 1938 <5 10176

306 1938 5-14 23146

307 1938 15-24 23655

308 1938 25-34 20953

309 1938 35-44 18001

310 1938 45-54 15077

311 1938 55-64 10310

312 1938 >64 8508

313 1939 <5 10418

314 1939 5-14 22701

315 1939 15-24 23819

316 1939 25-34 21176

317 1939 35-44 18178

318 1939 45-54 15336

319 1939 55-64 10487

320 1939 >64 8764

321 1940 <5 10579

322 1940 5-14 22363

323 1940 15-24 24033

324 1940 25-34 21446

325 1940 35-44 18422

326 1940 45-54 15555

327 1940 55-64 10694

328 1940 >64 9031

329 1941 <5 10850

330 1941 5-14 22089

331 1941 15-24 24074

332 1941 25-34 21691

333 1941 35-44 18692

334 1941 45-54 15759

335 1941 55-64 10959

336 1941 >64 9288

337 1942 <5 11301

338 1942 5-14 21823

339 1942 15-24 24093

340 1942 25-34 21911

341 1942 35-44 18950

342 1942 45-54 15976

343 1942 55-64 11220

344 1942 >64 9584

345 1943 <5 12016

346 1943 5-14 21699

347 1943 15-24 24065

348 1943 25-34 22194

349 1943 35-44 19226

350 1943 45-54 16199

351 1943 55-64 11472

352 1943 >64 9867

353 1944 <5 12524

354 1944 5-14 21573

355 1944 15-24 23999

356 1944 25-34 22511

357 1944 35-44 19505

358 1944 45-54 16419

359 1944 55-64 11719

360 1944 >64 10147

361 1945 <5 12979

362 1945 5-14 21599

363 1945 15-24 23705

364 1945 25-34 22734

365 1945 35-44 19787

366 1945 45-54 16642

367 1945 55-64 11988

368 1945 >64 10494

369 1946 <5 13244

370 1946 5-14 21844

371 1946 15-24 23382

372 1946 25-34 22954

373 1946 35-44 20073

374 1946 45-54 16820

375 1946 55-64 12244

376 1946 >64 10828

377 1947 <5 14406

378 1947 5-14 22257

379 1947 15-24 23122

380 1947 25-34 23236

381 1947 35-44 20421

382 1947 45-54 16970

383 1947 55-64 12528

384 1947 >64 11185

385 1948 <5 14919

386 1948 5-14 23089

387 1948 15-24 22866

388 1948 25-34 23494

389 1948 35-44 20794

390 1948 45-54 17107

391 1948 55-64 12824

392 1948 >64 11538

393 1949 <5 15607

394 1949 5-14 23770

395 1949 15-24 22570

396 1949 25-34 23729

397 1949 35-44 21187

398 1949 45-54 17260

399 1949 55-64 13145

400 1949 >64 11921

401 1950 <5 16331

402 1950 5-14 24477

403 1950 15-24 22260

404 1950 25-34 23932

405 1950 35-44 21557

406 1950 45-54 17400

407 1950 55-64 13364

408 1950 >64 12362

409 1951 <5 17252

410 1951 5-14 25055

411 1951 15-24 22018

412 1951 25-34 24085

413 1951 35-44 21833

414 1951 45-54 17623

415 1951 55-64 13654

416 1951 >64 12768

417 1952 <5 17228

418 1952 5-14 26656

419 1952 15-24 21796

420 1952 25-34 24197

421 1952 35-44 22109

422 1952 45-54 17881

423 1952 55-64 13918

424 1952 >64 13169

425 1953 <5 17548

426 1953 5-14 27880

427 1953 15-24 21658

428 1953 25-34 24233

429 1953 35-44 22359

430 1953 45-54 18171

431 1953 55-64 14135

432 1953 >64 13582

433 1954 <5 17962

434 1954 5-14 29092

435 1954 15-24 21641

436 1954 25-34 24233

437 1954 35-44 22571

438 1954 45-54 18501

439 1954 55-64 14350

440 1954 >64 14040

441 1955 <5 18467

442 1955 5-14 30248

443 1955 15-24 21667

444 1955 25-34 24175

445 1955 35-44 22818

446 1955 45-54 18824

447 1955 55-64 14586

448 1955 >64 14489

449 1956 <5 18895

450 1956 5-14 31423

451 1956 15-24 21869

452 1956 25-34 24015

453 1956 35-44 23160

454 1956 45-54 19143

455 1956 55-64 14815

456 1956 >64 14902

457 1957 <5 19379

458 1957 5-14 32515

459 1957 15-24 22311

460 1957 25-34 23737

461 1957 35-44 23496

462 1957 45-54 19513

463 1957 55-64 14973

464 1957 >64 15353

465 1958 <5 19768

466 1958 5-14 33322

467 1958 15-24 23162

468 1958 25-34 23430

469 1958 35-44 23693

470 1958 45-54 19857

471 1958 55-64 15139

472 1958 >64 15771

473 1959 <5 20175

474 1959 5-14 34564

475 1959 15-24 23988

476 1959 25-34 23169

477 1959 35-44 24023

478 1959 45-54 20262

479 1959 55-64 15401

480 1959 >64 16248

481 1960 <5 20341

482 1960 5-14 35735

483 1960 15-24 24576

484 1960 25-34 22919

485 1960 35-44 24221

486 1960 45-54 20578

487 1960 55-64 15625

488 1960 >64 16675

489 1961 <5 20522

490 1961 5-14 37031

491 1961 15-24 25242

492 1961 25-34 22692

493 1961 35-44 24392

494 1961 45-54 20875

495 1961 55-64 15847

496 1961 >64 17089

497 1962 <5 20469

498 1962 5-14 37435

499 1962 15-24 26909

500 1962 25-34 22494

501 1962 35-44 24519

502 1962 45-54 21124

503 1962 55-64 16131

504 1962 >64 17457

505 1963 <5 20342

506 1963 5-14 38124

507 1963 15-24 28223

508 1963 25-34 22410

509 1963 35-44 24584

510 1963 45-54 21346

511 1963 55-64 16436

512 1963 >64 17778

513 1964 <5 20165

514 1964 5-14 38783

515 1964 15-24 29519

516 1964 25-34 22396

517 1964 35-44 24562

518 1964 45-54 21580

519 1964 55-64 16758

520 1964 >64 18127

521 1965 <5 19824

522 1965 5-14 39426

523 1965 15-24 30773

524 1965 25-34 22465

525 1965 35-44 24447

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