

# Unrestricted Immigration and the Foreign Dominance of United States Nobel Prize Winners in Science: Irrefutable Data and Exemplary Family Narratives—Backup Data and Information

Andrew A. Beveridge, Queens and Graduate Center CUNY and Social Explorer, Inc.

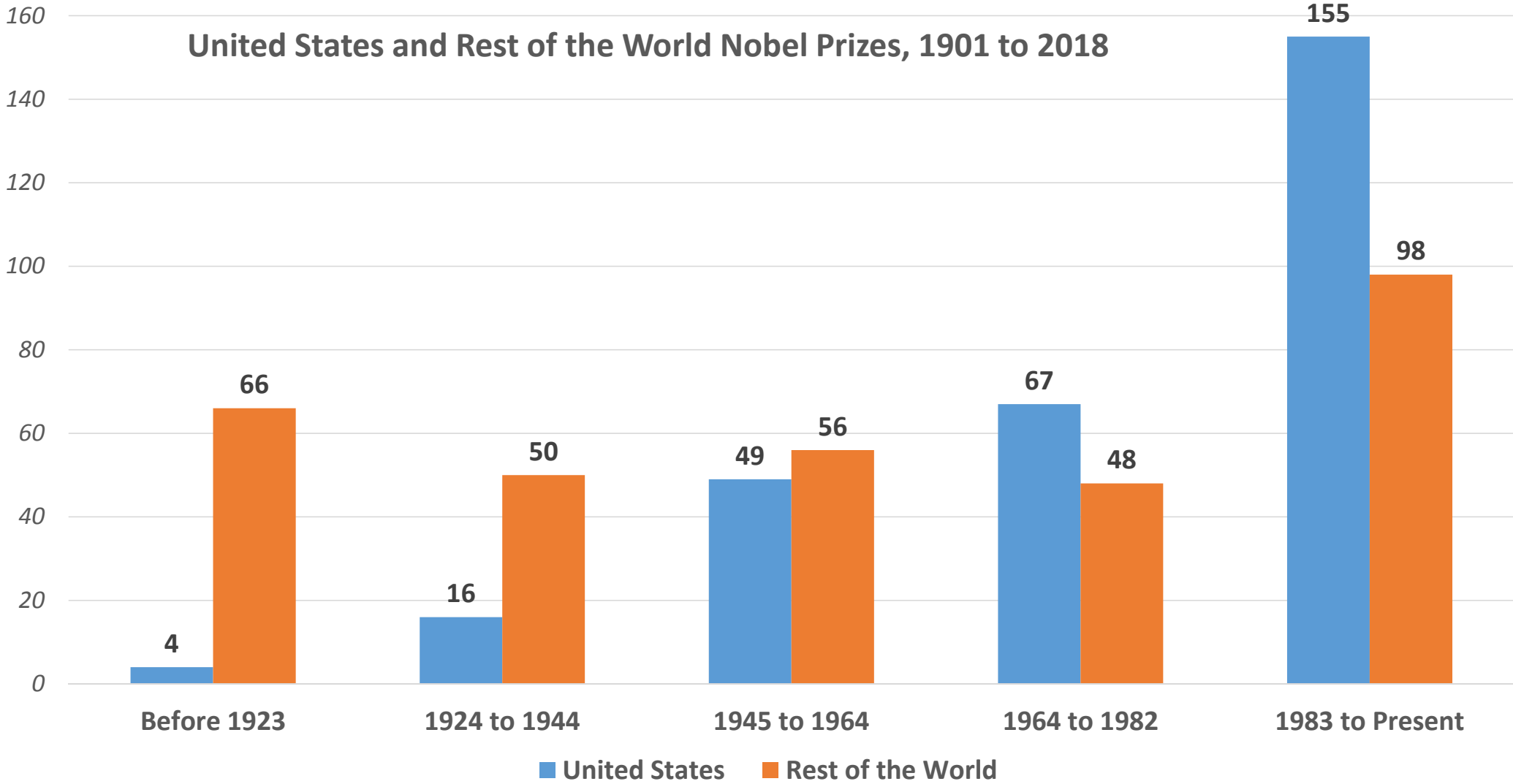
Lynn Caporale, Strategic Scientific Advisor and Author

The following slides were presented at the recent meeting of the American Association for the Advancement of Science. This project and paper is an outgrowth of that session, and will combine qualitative data on Nobel Prize Winners family histories along with analyses of the pattern of Nobel Winners. The first set of slides show some of the patterns so far found, and will be augmented for the formal paper. The second set of slides shows some examples of the Nobel families. The authors are developing a systematic data base of Nobel Winners (mainly US), their careers and their family histories. This turned out to be much more challenging than expected, since many winners do not emphasize their family origins in their own biographies or autobiographies or other commentary. Dr. Caporale has reached out to some laureates or their families to elicit that information. We plan to systematically compare the laureates to the population in the US at large, including immigrants and non-immigrants at various periods.

# Outline of Presentation

- A preliminary examination of the 609 Nobel Prize Winners, 291 of whom were at an American Institution when they received the Nobel in physics, chemistry or physiology and medicine
- Will look at patterns of awards by era
- Single out the American Nobel Winners
- Report on their family background, including immigrant status and origin
- The special place of New York City
- How they compare with the population at large

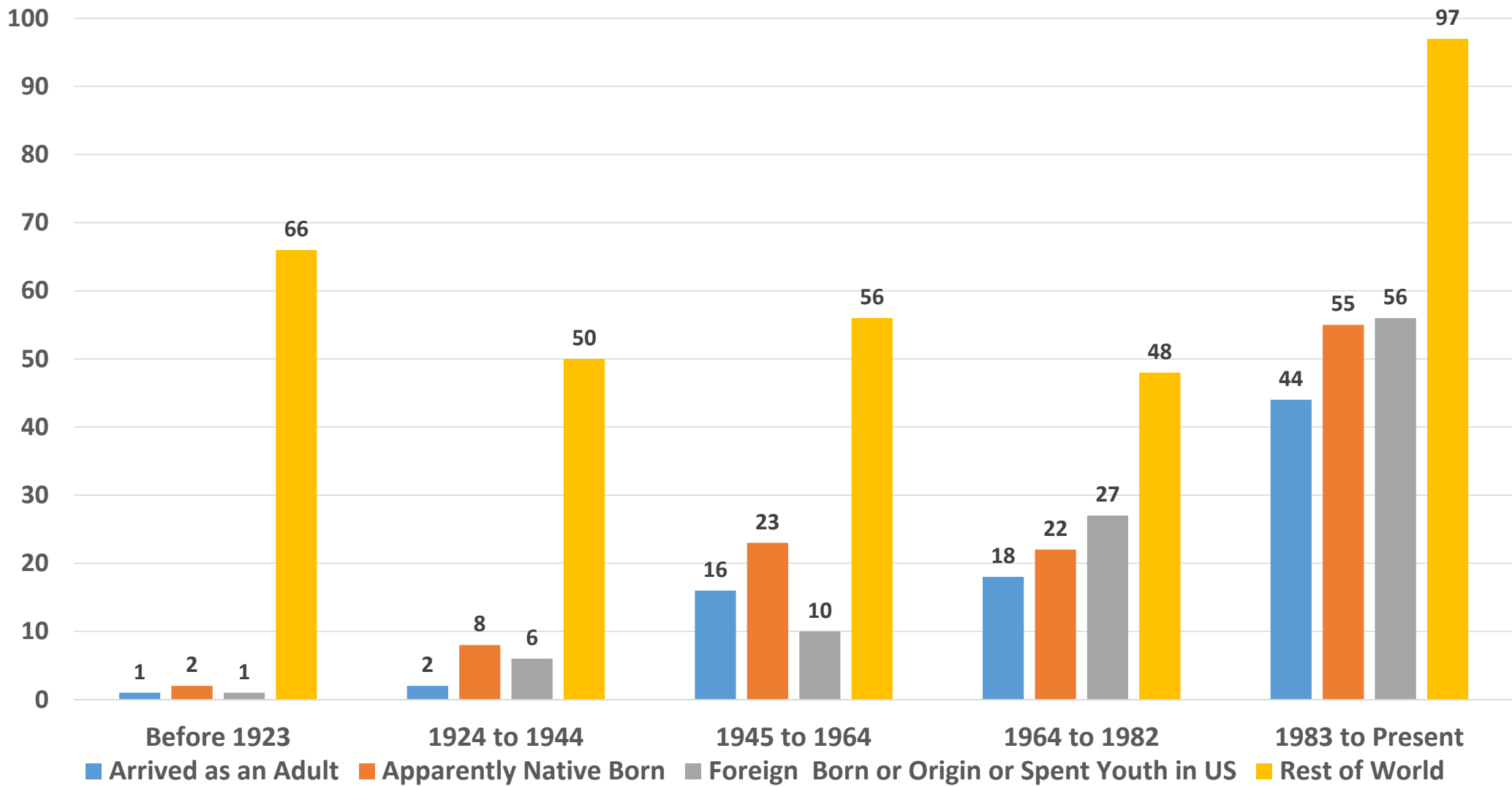
## United States and Rest of the World Nobel Prizes, 1901 to 2018



# Issues with Data on Nobel Winners

- Working with a very talented research assistant, we began to build a data set that included all USA nobel winners [Defined as being at a US Institution when the win occurred]
- Very basic data on Nobel winners is relatively easy to get: age, sex, nationality, year of win, usually place of birth, category, etc.
- However, data about early life, that is life before college and often before grad school is much harder, as is immigration history, especially for the young
- Parents nationality, for instance, was not always available
- Information on grandparents was very difficult to systematically, acquire, so any foreign connection are understated

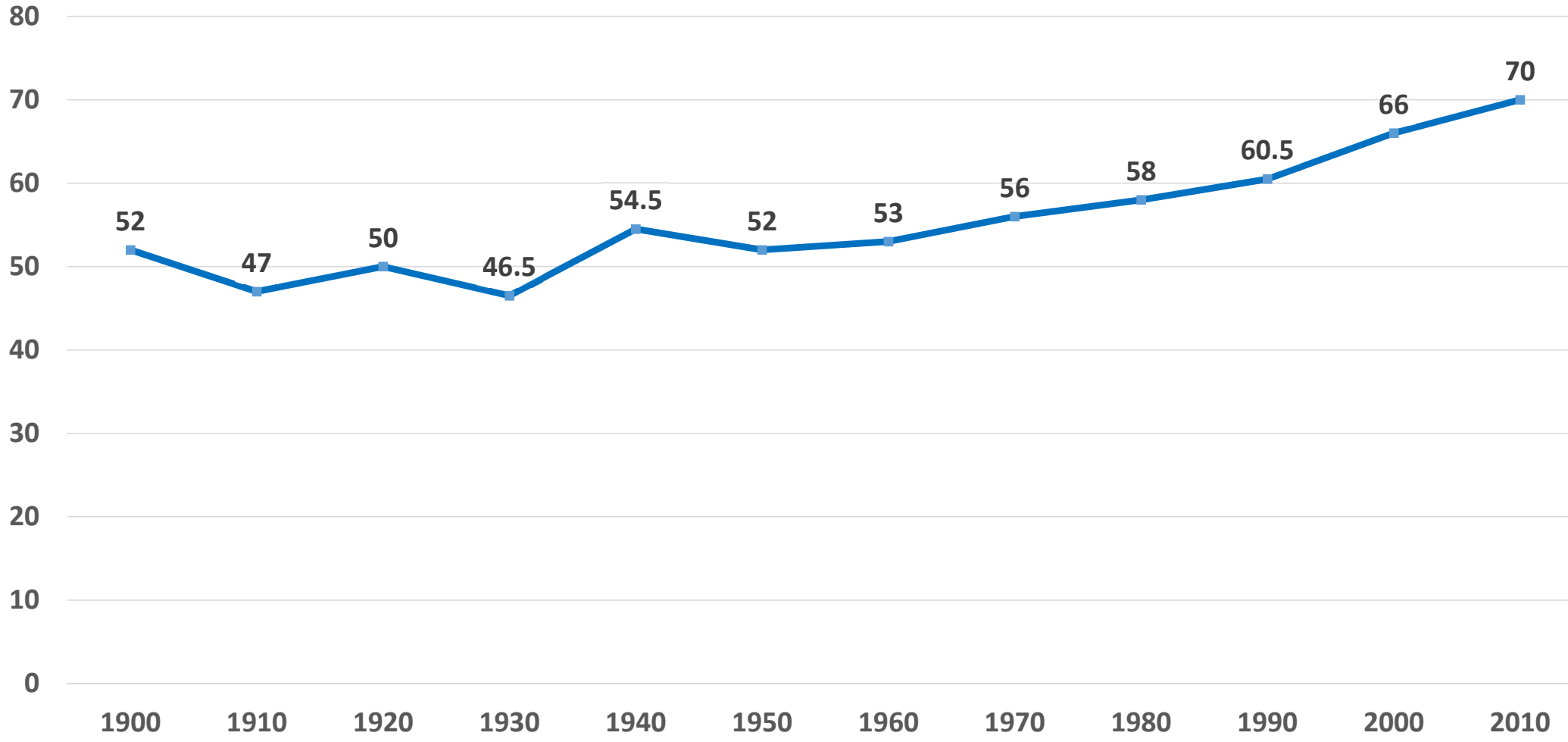
## Origins of American Compared to Others Nobel Winners by Era



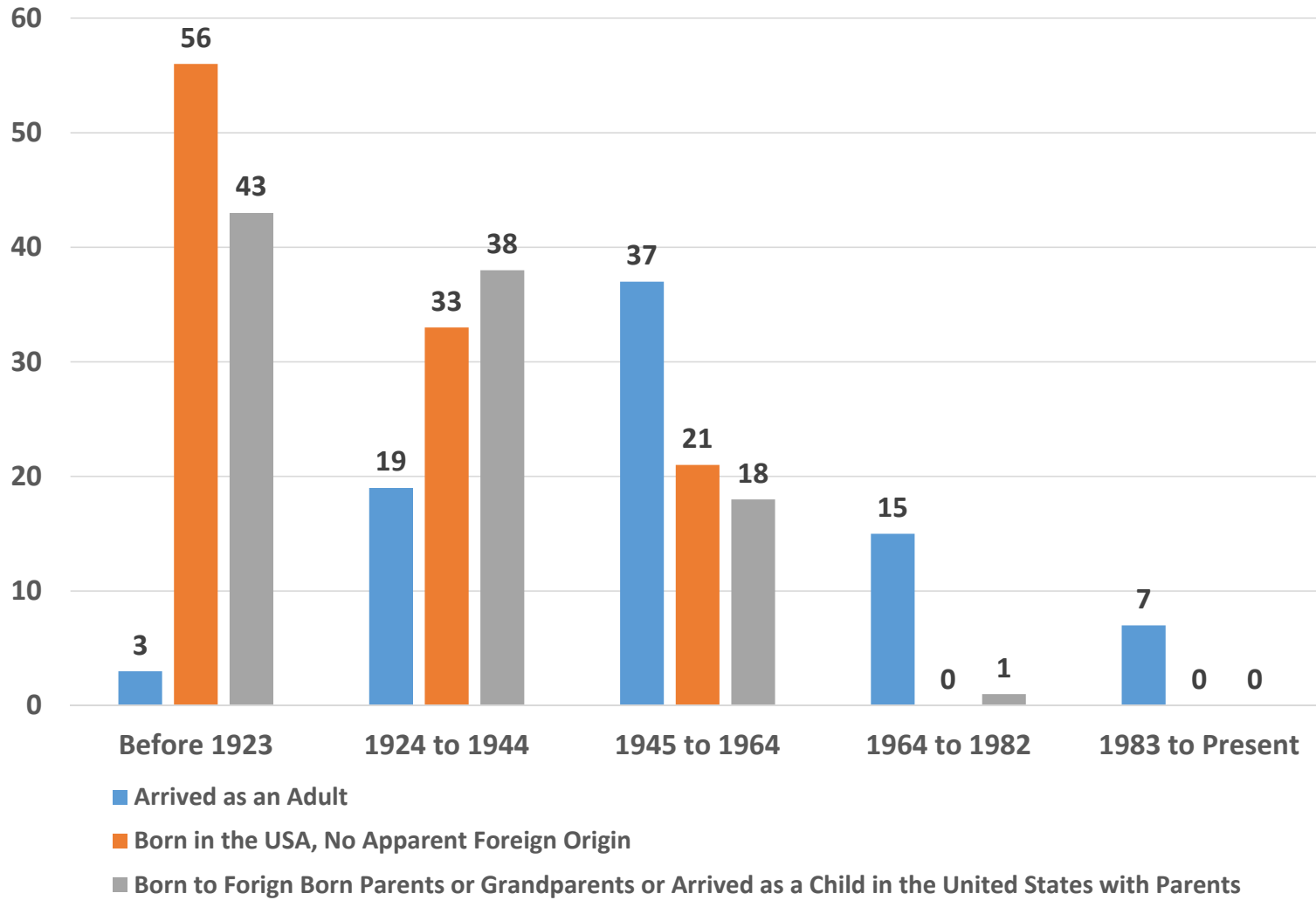
## Origin of Nobel Winners United States by Era of Award, 1901 to 2018

|                        | Foreign Born Grandparent | Foreign Born Parent | Foreign Born Arrived as Child | Foreign Born Arrived Early Career | Foreign Born Arrived Late Career | Foreign Born Arrived Mid Career | Native Born | Total      |
|------------------------|--------------------------|---------------------|-------------------------------|-----------------------------------|----------------------------------|---------------------------------|-------------|------------|
| <b>Before 1923</b>     | <b>0</b>                 | <b>0</b>            | <b>1</b>                      | <b>0</b>                          | <b>0</b>                         | <b>1</b>                        | <b>2</b>    | <b>4</b>   |
| <b>1924 to 1944</b>    | <b>2</b>                 | <b>3</b>            | <b>1</b>                      | <b>0</b>                          | <b>2</b>                         | <b>0</b>                        | <b>8</b>    | <b>16</b>  |
| <b>1945 to 1964</b>    | <b>3</b>                 | <b>6</b>            | <b>1</b>                      | <b>8</b>                          | <b>2</b>                         | <b>6</b>                        | <b>23</b>   | <b>49</b>  |
| <b>1964 to 1982</b>    | <b>9</b>                 | <b>16</b>           | <b>2</b>                      | <b>9</b>                          | <b>1</b>                         | <b>8</b>                        | <b>22</b>   | <b>67</b>  |
| <b>1983 to Present</b> | <b>22</b>                | <b>30</b>           | <b>4</b>                      | <b>22</b>                         | <b>7</b>                         | <b>15</b>                       | <b>55</b>   | <b>155</b> |
| <b>Total</b>           | <b>36</b>                | <b>55</b>           | <b>9</b>                      | <b>39</b>                         | <b>12</b>                        | <b>30</b>                       | <b>110</b>  | <b>291</b> |

Median Age at Award by Decade, All Science Nobels

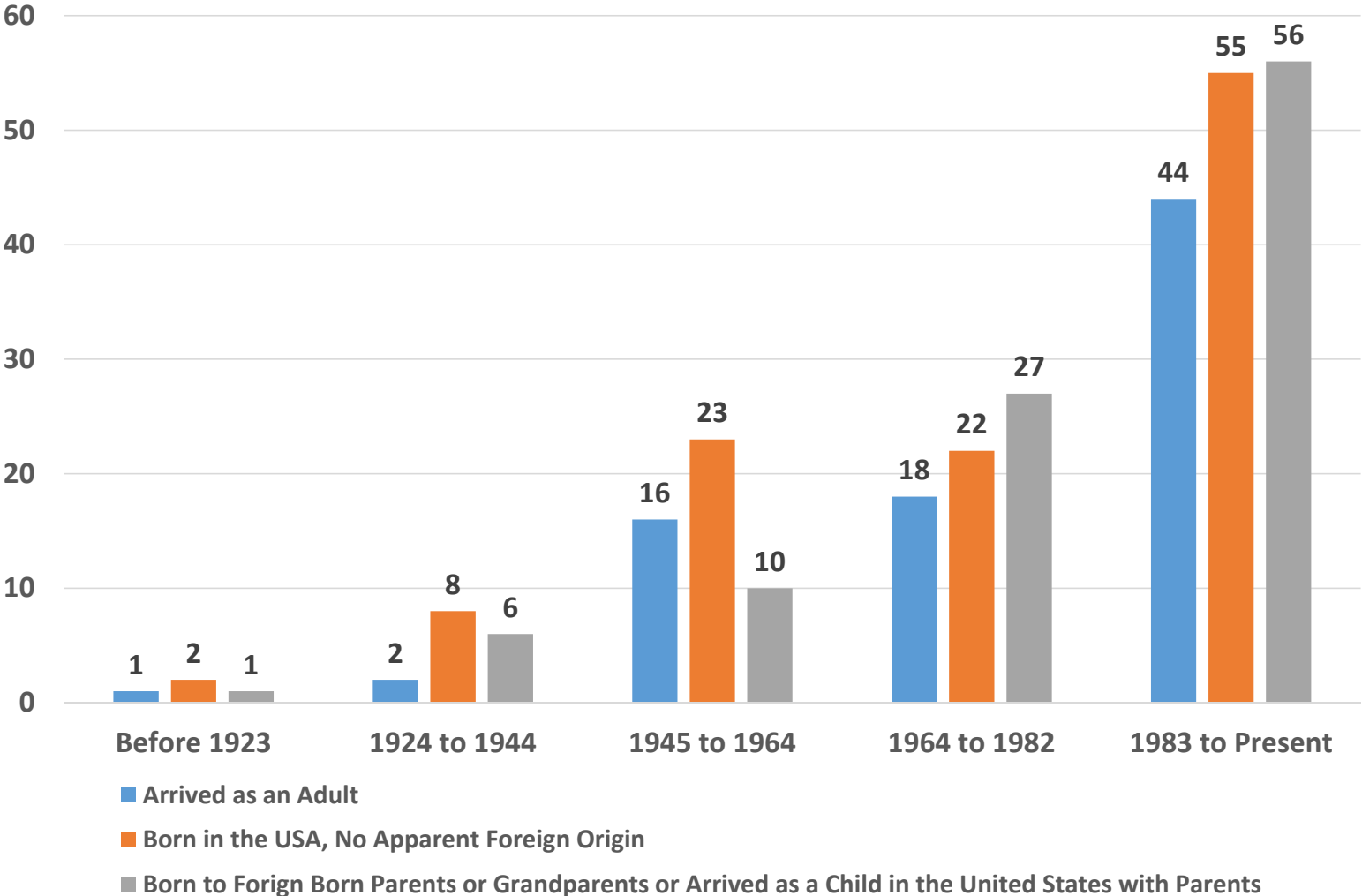


## Arrival in the United States for Nobel Winners by Birth Year, 1901 to 2018

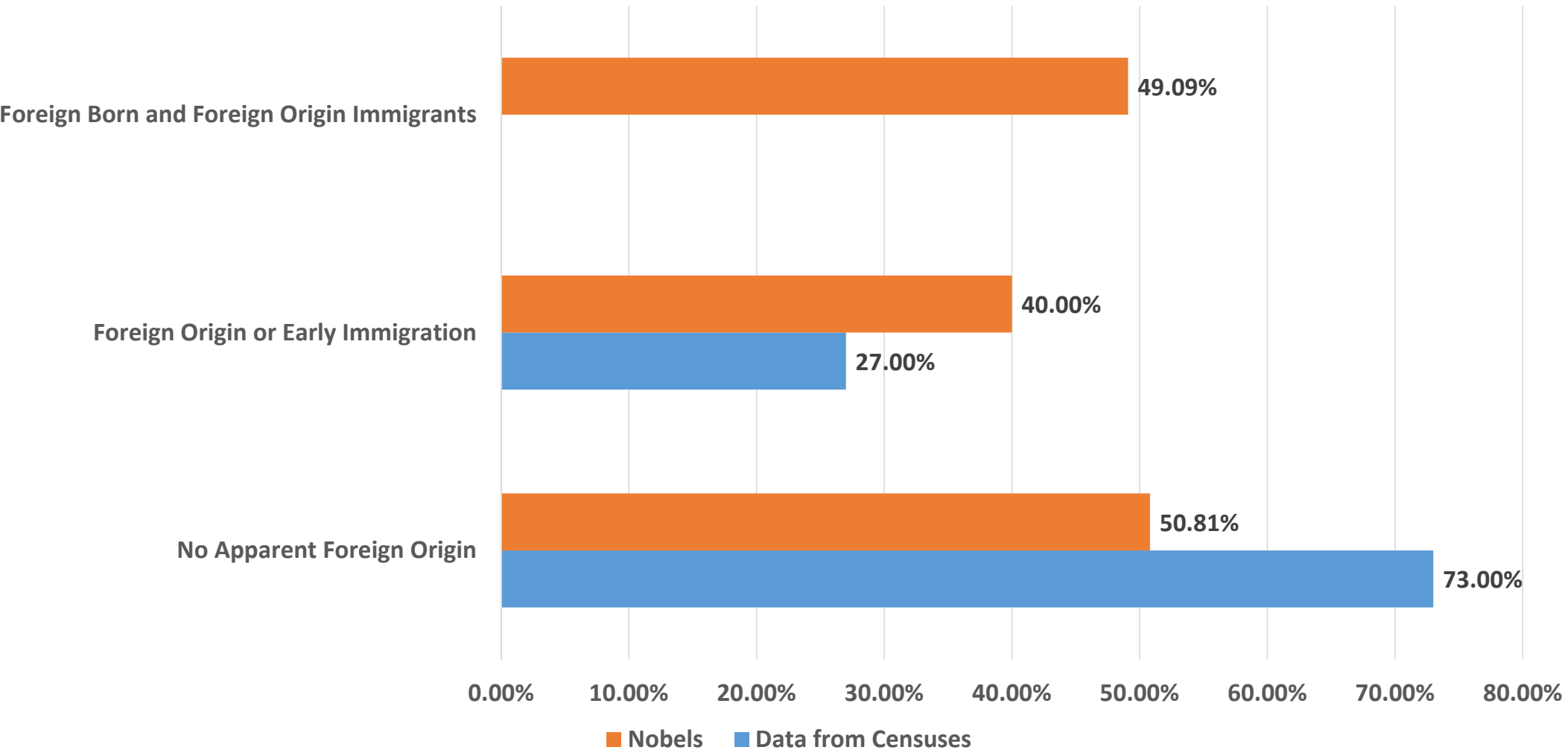




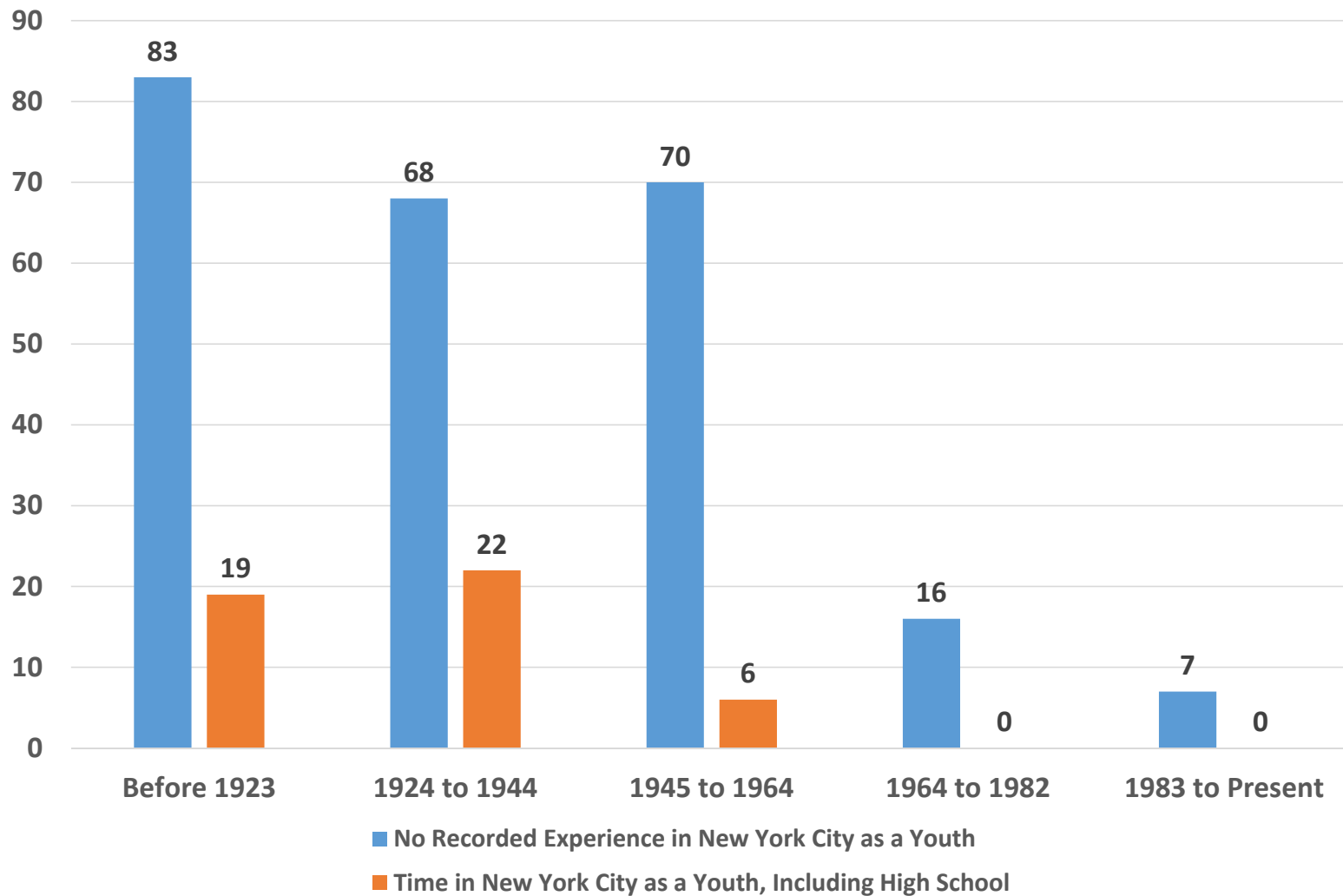
# Year of Award and Arrival in the United States for Nobel Winners, 1901 to 2018



### New York Presence for Foreign Born and Foreign Origin Nobel Winners US as Youth Compared to All Youth (Blended Comparison)



## Time Spent in NYC as a Youth and Arrival in the United States for Nobel Winners, 1901 to 2018



## Foreign Origin of Noble Winners Compared to Census Data (Blended Comparison)

