

Version 1.11

## **Long-Term Trends in Personal Given Name Frequencies in England and Wales<sup>1</sup>**

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### *Abstract*

The frequency distribution of personal given names offers important evidence about the information economy. This paper presents data on the popularity of the most frequent personal given names (first names) in England and Wales over the past millennium. The popularity of a name is its frequency relative to the total name instances sampled. The data show that the popularity distribution of names, like the popularity of other symbols and artifacts associated with the information economy, can be helpfully viewed as a power law. Moreover, the data on name popularity suggest that historically distinctive changes in the information economy occurred in conjunction with the Industrial Revolution.

The symbolic choices of ordinary persons are becoming more extensive and more significant. New information and communications technologies provide new capabilities for manipulating bits of information. These technologies give ordinary persons in their daily lives more extensive opportunities to choose among symbols, to re-arrange symbols, and to share symbols. Human work is becoming less like farming and more like singing. The information economy – the way persons make symbolic choices and the aggregate effects of such choices – increasingly matters for economic growth, industrial organization, and social life.

The frequency of personal given names provides important historical evidence about the information economy. Persons who have the same given name literally share the experience of being called by that name. The frequency distribution of names thus indicates an aspect of shared symbolic experience. Choosing a good name involves assessing the social valuation of a name. The frequency distribution of names thus provides evidence about symbolic valuation. Naming is often governed by norms, such as naming after parents, godparents, biblical figures, or deceased siblings. These norms – common laws in the economy of names – evolve through awareness of patterns of cases and possibilities for differences and exceptions. They too are aspects of the information economy. More abstractly, the frequency distribution of personal names, graphed as the logarithm of name popularity against the logarithm of name popularity rank, looks similar to other frequency or popularity distributions where persons and organizations are free to create and choose among many collections of symbols instantiated and used in a similar way. Thus naming appears to be representative of patterns of behavior in the information economy.

This paper shows that, since early in the nineteenth century, the frequency distribution of personal given names in England has evolved differently than it did over the previous eight centuries. Simple indicators of this change are the trend in the popularity (frequency relative to the total number of names in the sample) of the most frequent names. The popularity of the most frequent name, the three most frequent names, and the ten most frequent names show no trend from circa 1300 to 1800. Since then all these measures have dropped dramatically. This latter development reflects a "flattening" in the name frequency distribution, viewed as a graph of the logarithm of name popularity against the logarithm of name popularity rank. This change in the evolution of the name frequency distribution early in the nineteenth century may indicate a more general change in the information economy about that time.

## **I. Popularity of the Most Frequent Personal Given Names**

This section provides data on the popularity of the most frequency personal given names in England over the past millennium. Measuring name frequencies in actual samples requires attention to name definition and standardization. Given names can include multiple names and name variants, as well as abbreviations, non-standard spellings, and mistakes in recording. Unlike sampling variability, coding variability does not fall with sample size. Throughout the analysis in this paper, names have been truncated to the shorter of either the first eight letters of the given name or the letters preceding the first period, space, hyphen, or other non-alphabetic character. These shortened names have then been standardized through a name coding available on the Internet for public inspection, use, and improvement on an open source basis.<sup>3</sup> This procedure attempts to identify feasibly and consistently names with common communicative properties.<sup>4</sup> Experience with different name samples suggests that this procedure can reduce coding variability to less than half a percentage point for the popularity of a single name and less than three percentage points for total popularity of the top ten names (Galbi 2001, Sec. I.B. and Appendix B).

Over the past two hundred years, the popularity of the most frequent personal given names in England and Wales has steadily declined. Table 1 shows popularity statistics for the most frequent names. In England and Wales from 1800 to 1994, the popularity of the most frequent female and male names fell from 23.9% and 21.5% to 3.4% and 4.2%, respectively. The popularity of the ten most frequent names for females and males fell from 82.0% and 84.7% to 23.8% and 28.4%, respectively.

**Table 1**  
**Popularity of Personal Given Names:**  
**England and Wales 1800 to 1994**

Birth Year	Females				Males			
	Top Name	Top 3	Top 10	Top Name	Top 3	Top 10		
	Name	Pop.	Pop.	Pop.	Name	Pop.	Pop.	Pop.
1800	Mary	23.9%	53.2%	82.0%	John	21.5%	51.5%	84.7%
1810	Mary	22.2%	50.7%	79.4%	John	19.0%	47.0%	81.4%
1820	Mary	20.4%	47.7%	76.5%	John	17.8%	44.9%	80.4%
1830	Mary	19.6%	45.4%	75.8%	John	16.4%	42.3%	78.2%
1840	Mary	18.7%	43.2%	75.0%	William	15.4%	40.3%	76.0%
1850	Mary	18.0%	41.0%	72.1%	William	15.2%	38.7%	73.8%
1860	Mary	16.3%	37.0%	68.3%	William	14.5%	36.2%	69.8%
1870	Mary	13.3%	31.5%	61.1%	William	13.1%	31.7%	63.5%
1880	Mary	10.6%	25.4%	53.8%	William	11.7%	28.5%	58.9%
1900	Elizabet	7.2%	16.2%	38.5%	William	9.0%	22.9%	50.9%
1925	Mary	6.7%	16.8%	38.7%	John	7.3%	17.6%	38.0%
1944	Margaret	4.5%	12.6%	31.7%	John	8.3%	20.7%	39.9%
1954	Susan	6.1%	13.2%	32.5%	David	6.3%	17.4%	37.8%
1964	Susan	3.6%	10.3%	28.6%	Paul	5.6%	15.9%	39.4%
1974	Sarah	4.9%	12.3%	28.0%	Mark	4.6%	12.5%	33.1%
1984	Sarah	4.1%	11.0%	27.3%	James	4.3%	11.8%	32.3%
1994	Emily	3.4%	8.6%	23.8%	James	4.2%	11.0%	28.4%

Note: Based on Galbi (2001), Table 3, p 15 and underlying data. See Appendix D of that paper for sources and details of analysis..

Prior to the beginning of the nineteenth century, the popularity of the most frequent personal given names in England was higher and more stable. Tables 2 and 3 provide evidence on name popularity from late in the eleventh century through early in the nineteenth century. From 1300 to 1800, popularities of 20%, 50%, and 80% seem to be roughly representative figures for the top name, top three names, and top ten names for both females and males. As Table 1 shows, the corresponding figures for the late twentieth century are much lower – about 4%, 10%, and 25%.

Table 2 Popularity of Personal Given Names in England before 1825										
Year, Location	Females					Males				
	Top Name	Pop.	Top 3 Pop.	Top 10 Pop.	Sample Size	Top Name	Pop.	Top 3 Pop.	Top 10 Pop.	Sample Size
1080, Winchester 1)						Robert	6.6%	18.0%	35%	228
1120, Winchester 1)						William	6.6%	15.8%	30%	912
1180, Winchester 1)						William	10.2%	29.2%	57%	383
1200, Essex 2)	Alice	11.3%	27.4%	56%	c. 1400	William	12.4%	30.5%	61%	c. 4000
1210, South 3)	Matilda	16.2%	39.9%	70%	173	William	14.4%	32.7%	65%	877
1270, Rutland 4)	Alice	19.4%	51.0%	84%	206	William	15.2%	35.6%	76%	1627
1300, Lincoln 5)	Alice	17.1%	42.4%	75%	1213	John	22.7%	52.2%	79%	9390
1260, London 6)						John	17.6%	39.7%	69%	814
1290, London 6)						John	23.3%	44.8%	73%	1852
1510, London 7)						John	24.4%	49.4%	74%	427
1610, London 7)						John	21.0%	43.8%	72%	463
1825, London 8)	Mary	19.2%	43.9%	73%	63809	William	16.3%	39.2%	80%	48275
1350, Manchester 9c)						John	22.7%	47.4%	92%	717
1610, Manchester 10)						John	18.6%	37.6%	77%	1298
1805, Manchester 11)	Mary	25.8%	48.2%	84%	1866	John	21.7%	48.7%	81%	1935
1350, Yorkshire 9d)	Alice	22.4%	50.4%	86%	1794	John	33.5%	66.8%	93%	1665
1620, Yorkshire 12)	Ann	24.0%	54.7%	88%	342	John	16.2%	47.1%	86%	427
1670, Yorkshire 12)	Ann	21.5%	59.2%	79%	228	William	18.7%	47.4%	78%	283
1720, Yorkshire 12)	Mary	25.7%	57.4%	87%	413	John	25.5%	57.8%	86%	377
1770, Yorkshire 12)	Mary	22.8%	45.9%	84%	381	John	25.6%	55.7%	86%	433
1825, Yorkshire 8)	Mary	20.1%	45.8%	81%	99299	John	18.8%	44.2%	79%	91111

**Table 2 (cont'd)**

Year, Location	Females				Males					
	Top Name	Pop.	Top 3 Pop.	Top 10 Pop.	Sample Size	Top Name	Pop.	Top 3 Pop.	Top 10 Pop.	Sample Size
1350, North/Cumbria 9a)	Jane	16.0%	44.8%	84%	852	John	34.5%	64.6%	89%	328
1530, North/Cumbria 13)	Margaret	15.6%	45.1%	86%	1491	John	23.1%	46.1%	74%	870
1550, North/Cumbria 13)	Margaret	16.8%	44.9%	84%	3750	John	21.7%	44.4%	75%	1515
1580, North/Cumbria 13)	Elizabeth	15.8%	43.8%	84%	4000	John	18.2%	42.4%	74%	3765
1610, North/Cumbria 13)	Elizabeth	16.6%	46.0%	87%	2888	John	19.7%	46.7%	75%	4044
1640, North/Cumbria 13)	Elizabeth	16.5%	45.1%	86%	3813	John	19.6%	46.7%	75%	2914
1670, North/Cumbria 13)	Ann	16.4%	47.1%	86%	3064	John	21.1%	49.5%	77%	3834
1700, North/Cumbria 13)	Ann	18.1%	50.0%	87%	2038	John	21.6%	49.9%	80%	3070
1730, North/Cumbria 13)	Ann	18.8%	52.1%	89%	2830	John	23.2%	51.4%	81%	2038
1760, North/Cumbria 13)	Mary	19.4%	50.8%	89%	2139	John	23.4%	52.9%	83%	2830
1790, North/Cumbria 13)	Mary	20.3%	46.7%	88%	24857	John	21.8%	49.9%	85%	2141
1825, North/Cumbria 8)	Alice	21.9%	47.2%	84%	576	John	34.8%	58.9%	89%	21966
1350, Hereford 9b)	Mary	21.7%	56.1%	85%	6832	John	20.3%	49.9%	78%	2066
1700, Hereford 14)						John	18.9%	51.1%	90%	931
1825, Hereford 8)						John	22.3%	47.1%	74%	6350
1280, East Anglia 15)						John	36.1%	63.3%	90%	391
1400, East Anglia 15)						John	28.1%	58.3%	84%	590
1385, soldiers 19)						John	21.4%	40.8%	70%	829
1550, sailors 16)						John	20.3%	46.9%	75%	583
1560, Canterbury 17)	Elizabeth	13.6%	33.6%	74%	661	John	21.4%	52.5%	80%	5986
1560, Gloucester 18)	Joan	18.7%	45.5%	88%	c. 4000	John	21.4%	52.5%	80%	c. 4000

Note: Adapted from Galbi (2001) Table 5 p. 20. For details and sources, see *ibid* p. 41-43, and Appendix D.

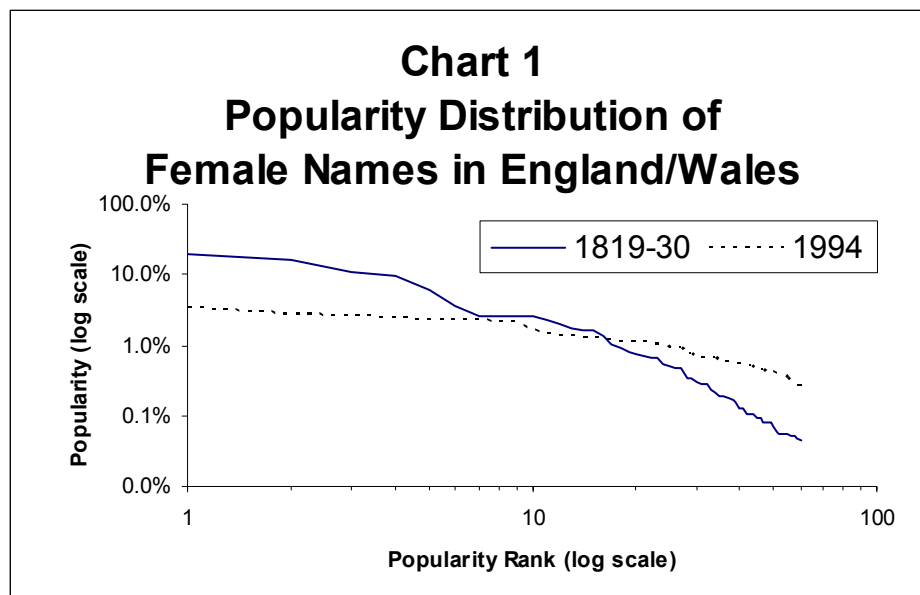
<b>Table 3</b> <b>Personal Given Names in England:</b> <b>1570 to 1700</b>		
	Popularity of Top 3 Names	
Birth Years	Females	Males
1570-1579	41.0%	48.5%
1580-1589	36.2%	47.3%
1590-1599	41.1%	50.6%
1600-1609	38.2%	48.8%
1610-1619	38.8%	49.9%
1620-1629	41.3%	49.3%
1630-1639	45.1%	48.5%
1640-1649	46.7%	49.3%
1650-1659	50.1%	49.0%
1660-1669	47.5%	48.0%
1670-1679	50.3%	50.3%
1680-1689	51.7%	49.2%
1690-1700	52.1%	51.2%
Source: Smith-Banister (1997) Table 7.8, p. 150. Figures for “mean” across English regions are given above. Sample sizes and weighting not reported.		

Significant changes prior to 1800 seemed to have a relatively small effect on the pattern of name popularity. The Norman Conquest of England in 1066 brought about an almost complete change in given names. Within a few generations, most persons used given names brought by the invaders. By about 1250, pre-Conquest names had essentially died out.<sup>5</sup> The influx of new names and the shift to them must have decreased the popularity of the most popular names until the new naming practices were well established throughout society. Yet only about a hundred years after the Conquest the popularity of the most popular male names in Winchester had risen to a level closer to that in 1300 and 1800 than that in the late twentieth century. The information economy of the twelfth century supported an astonishing capacity for dissemination of information (new names) and creation of social information (the pattern of popular names). The relatively high name popularity prior to 1800 was not simply an artifact of inertia created by naming norms or underdevelopment of the information economy.

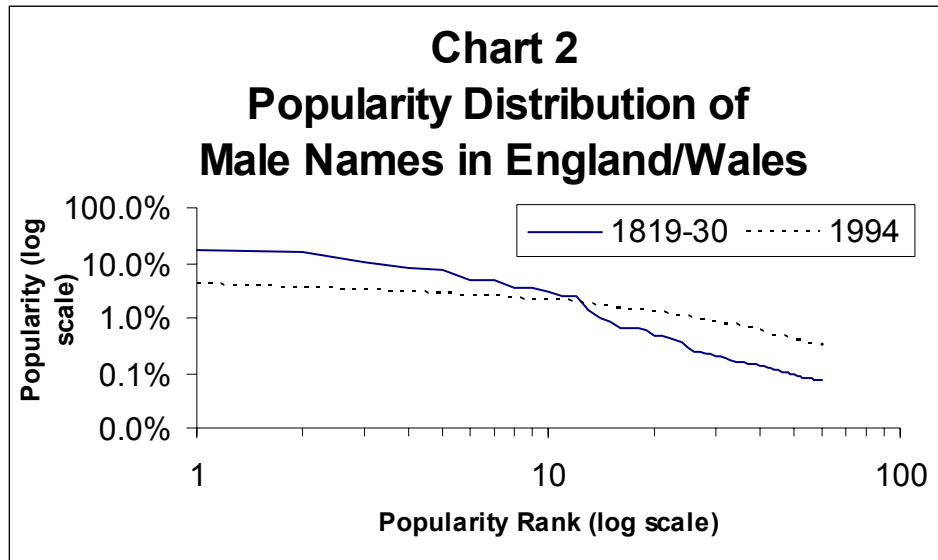
## II. A Better View of Changes over the Past Two Hundred Years

Changes in the popularity of the most frequent name, most frequent three names, and most frequent ten names are part of a larger order of change that can be easily recognized graphically. Scholars analyzing personal given names have recognized that graphs of name frequencies have a characteristic shape (Eschel, 2001; Tucker, 2001; Galbi, 2001). The graph of the logarithm of name popularity against the logarithm of name popularity rank is the same as a graph of name frequencies, except that the left axis is labeled is more easily understood units.<sup>6</sup> The graph typically is nearly a straight line. This type of empirical regularity is called a power law. It describes the relative frequency or popularity of names. Hence a power law describes a relationship between the popularity of the most frequent name, the three most frequent names, and the ten most frequent names

Over the past two hundred years, the change in the popularity of the most frequent names has been associated with a flattening of the power law that best describes the name popularity distribution. Charts 1 and 2 show these graphs for names of females and males born in England and Wales in 1819-30 and in 1994. In both cases the slope of a line approximating the graph has become less negative. This means that the relative name popularities have become more equal. This change can be interpreted as a reduction in the magnitude of information encoded in the name distribution and an increase in the extent of personalization in naming (Galbi 2001, Sec. II.B).







Empirical regularities such as those in Charts 1 and 2 are in fact prevalent in the information economy. Where persons and organizations are free to create and choose among many collections of symbols instantiated and used in a similar way, the relative popularity of the symbolic artifacts typically follows a power law. Thus the circulation of magazines of similar type has followed power laws throughout the twentieth century. The total box office receipts of movies follow a power law. The popularity of musical groups, as measured by “gold records,” follows a power law (Chung and Cox, 1994). The popularity of Internet web sites, measured in users or page views, also follows a power law (Adamic and Huberman, 2000). Insights into the evolution of such power laws over time from study of names might contribute to more general insights into personal preferences, media diversity, information industry structure, and other aspects of the information economy.

### III. Understanding the Changes

Although recent work on personal given names in England has emphasized name-sharing practices for understanding the frequency distribution of given names (Smith-Bannister, 1997), name-sharing practices have little direct relationship to the frequency distribution of names. Naming a significant share of children after parents, or after godparents, are equally consistent with a high or low popularity of the most frequent names. Similarly, having names freely chosen, i.e. chosen in absence of norms giving high value to the name of a person in a specific social position in relation to the person to be named, could produce high or low popularity of the most frequent names. The most that can be said for name-sharing is that a norm of naming after parents creates additional inertia in name popularity. Name popularity and its long-term evolution depend on factors other than name-sharing. The evolution of the name frequency distribution over time is a complicated dynamic system. Such systems can, in some circumstances, be highly sensitive to a particular factor, while in other circumstances, be totally unaffected by that

factor. Moreover, boundary conditions, such as a small share of naming done in violation of prevailing norms, can determine the over-all state of the system.<sup>7</sup>

Analysis of long-term trends in personal given names in England and Wales suggests that significant changes in the information economy occurred in conjunction with the broad social and economic changes called the Industrial Revolution. The Industrial Revolution is associated with more rapid growth in population. The population of England in 1800 was about 50% greater than in 1300, while its population in 2000 was about six times greater than in 1800. The Industrial Revolution is also associated with much more rapid growth in income: real economic income per person probably increased by about a factor of four from 1300 to 1800, and by about a factor of 100 from 1800 to 2000.<sup>8</sup> But populations of much different sizes show similar naming patterns (Eshel (2001), Galbi (2001) Table 4), and it is not clear how the level of income itself would effect naming. The Industrial Revolution also produced major changes in social networks and the social context of personal activity. These changes probably drove changes in the information economy.

Whether information and communication technologies have created or will create a “new economy” is an important public policy issue. These technologies enable persons to interact in new ways that may be as significant as the changes associated with the Industrial Revolution. Consider, for example, the creation of knowledge about aggregate patterns of personal given names. Large compilations of name frequencies can be easily shared on the Internet. I have benefited from such sharing of information in writing this paper, and I have made much more extensive data on name frequencies than can be reported in this paper freely available on the Internet.<sup>9</sup> If other scholars use the Internet in similar ways, this sub-field of onomastics could develop much more rapidly than it has in the past. The same might be true of many other areas of activity. Analyzing the popularity distribution of personal given names thus offers a particularly rich means for understanding changes in the information economy.

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## Appendix – Personal Given Names Over Time

The tables below shows the ten most popular given male names about London c. 1120 to 1994, and the ten most popular female names in North England (Yorkshire, Cumbria, Northumberland) c. 1350 to 1994. The years given are approximate birth years. The average year of birth was estimated relative to the date of the compilation and the probable ages of the persons in the compilation. The data come from a variety of sources, which have used different (and often not explicit described) approaches to standardizing and grouping names.

Scholars interested in additional name lists should consult Smith-Bannister (1997), Appendix C. That appendix lists, at decade intervals, the fifty most popular male and female names in forty English parishes from 1538-49 to 1690-1700. Unfortunately, the frequency of specific names are not given, nor are sample sizes. The weights given to individual parishes in each decade sample apparently change, but details are not given.

### Ten Most Popular Male Names in London

Rank	Name	Year c. 1120	Name	Year c. 1260	Name	Year c. 1510
1	Willelm	6.6%	John	17.6%	John	24.4%
2	Robert	5.0%	William	14.4%	Thomas	13.3%
3	Ricard	4.2%	Robert	7.7%	William	11.7%
4	Radulf	3.6%	Richard	7.0%	Richard	7.3%
5	Roger	3.2%	Thomas	5.3%	Robert	5.6%
6	Herbert	2.2%	Walter	4.4%	Ralph	3.3%
7	Hugo	1.8%	Henry	4.1%	Edward	3.0%
8	Johannes	1.3%	Adam	3.1%	George	2.1%
9	Anschetill	1.1%	Roger	2.9%	James	1.9%
10	Drogo	1.1%	Stephen	2.3%	Edmund	1.6%
	Sample Size	912	Sample Size	814	Sample Size	427

Rank	Name	Year c. 1610	Name	Year c. 1825	Name	Year c. 1994
1	John	21.0%	William	16.3%	Jack	3.2%
2	William	11.4%	John	13.5%	James	3.1%
3	Thomas	11.4%	George	9.4%	Daniel	2.2%
4	Richard	5.2%	James	8.6%	Thomas	2.2%
5	Samuel	5.0%	Thomas	8.6%	Michael	1.6%
6	Henry	4.8%	Henry	7.6%	Alexander	1.5%
7	Edward	4.5%	Charles	5.8%	Matthew	1.4%
8	James	3.5%	Joseph	3.7%	Luke	1.3%
9	Joseph	2.6%	Edward	3.5%	Samuel	1.3%
10	Robert	2.4%	Robert	3.1%	George	1.3%
	Sample Size	463	Sample Size	48275	Sample Size	51097

## Sources and Notes:

The list for 1120 was compiled from the Winton Doomesday book for the year 1148. The list is given in Barlow et al. (1976), Table 8, p. 187. No details are provided regarding any name standardization done.

The list for 1260 was compiled from the London Subsidy Rolls of 1292. The list is given in Ekwall (1951) p. 35. Variants included under the given name heading are as follows: John (Jon), Walter (Water), and Henry (Hanry, Hary, Herri).

The list for 1510 was compiled from baptismal names in five London parishes, 1540-1549. The parishes are: St. Peter's upon Cornhill; St. De'nis Backchurch; Christ Church Newgate; Kensington; St. Antholin, Budge Row. All baptismal names, as recorded in Harleian Society Publications, were included in the compilation. The list is given in Stewart (1948), Table 1, p. 110. The source notes: "I have tried to ignore mere variations of spelling, but to count separately the different forms of the same name, such as Henry and Harry, Augustine and Austin. ... Spellings have been normalized to conform with those of the King James Bible, or with modern usage for non-Biblical names." See Stewart (1948), footnote pp. 109-10.

The list for 1610 was compiled on the same basis as the 1510 list, but for the years 1640-1649. See Stewart (1948) Table 2, p. 112.

The 1825 list is from persons born between 1819 and 1830 in London, and still alive and recorded in the U.K. Census of 1881. The complete Census of 1881 is available from the Genealogical Society of Utah (1997). Names given in the Census were standardized using GINAP v. 1.0 name standardization, available at <http://www.galbithink.org/names/ginap.htm>

The list for 1994 includes all males born in Greater London in 1994 who registered with the National Health Service Central Register. See Merry (1995), Table 21. The source lists the top 50 names. From that compilation, the list given above groups Jamie with James and Jake with Jack.

### Ten Most Popular Female Names in North England

Rank	Name	Year c. 1350	Name	Year c. 1530	Name	Year c. 1640
1	Alicia	22.4%	Jane	16.0%	Elizabet	16.6%
2	Agnete	14.9%	Elizabet	14.7%	Ann	16.4%
3	Johanna	13.2%	Margaret	14.2%	Jane	13.1%
4	Emma	7.7%	Agnes	8.2%	Margaret	12.8%
5	Elena	5.4%	Isabella	7.9%	Mary	9.9%
6	Isabella	5.3%	Alice	7.7%	Isabella	5.9%
7	Margareta	5.1%	Ann	7.3%	Ellen	3.6%
8	Cecilia	4.5%	Ellen	3.6%	Alice	3.6%
9	Matilda	3.6%	Catherin	2.8%	Dorothy	2.9%
10	Juliana	3.3%	Mary	1.9%	Frances	1.9%
	Sample Size	1794	Sample Size	852	Sample Size	2888

Rank	Name	Year c. 1730	Name	Year c. 1825	Name	Year c. 1994
1	Ann	18.1%	Mary	20.3%	Rebecca	3.7%
2	Mary	16.7%	Jane	13.5%	Lauren	3.6%
3	Elizabet	15.3%	Elizabet	12.9%	Amy	2.8%
4	Jane	11.2%	Ann	11.6%	Laura	2.6%
5	Margaret	10.6%	Margaret	9.4%	Jessica	2.6%
6	Isabella	4.8%	Isabella	6.2%	Rachel	2.4%
7	Hannah	3.0%	Sarah	5.8%	Sophie	2.4%
8	Ellen	2.9%	Hannah	3.6%	Hannah	2.4%
9	Dorothy	2.6%	Ellen	3.3%	Sarah	2.3%
10	Sarah	2.1%	Catherin	1.6%	Emma	2.0%
	Sample Size	2038	Sample Size	24857	Sample Size	17719

#### Sources and Notes:

The list for 1350 is from the assessment roll of the 1379 Poll Tax for Howdenshire Hundred in Yorkshire East Riding. See Gwynek (n.d.). The names were listed in Latinized forms in the ablative case. Variants and diminutives were combined as follows: Alicia (Alisia, 1), Agnete (Augnete, 1; Annya, 1), Emma (Emmota, 7), Margareta (Mergareeta, 1; Marg, 1; Marg..., 1; Mar', 1; Magota, 6), Cecilia (Cicilia, 19; Sissota, 3; Syssota, 1).

The sources for 1530, 1640, and 1730 are from parish marriage registers in Northumberland and Durham for the years 1538-68, 1650-70, and 1740-60, respectively. For complete standardized given name list, see Galbi (2001). Names were standardized using GINAP v. 1.0 name standardization, available at <http://www.galbithink.org/names/ginap.htm>

The 1825 list is from persons born between 1819 and 1830 in Cumberland, Durham, and Northumberland, and still alive and recorded in the U.K. Census of 1881. The complete Census of 1881 is available from the Genealogical Society of Utah (1997). Names given in the Census were standardized using GINAP v. 1.0

The list for 1994 includes all females born in Cumbria, Durham, Cleveland, Tyne & Wear, and Northumberland in 1994 who registered with the National Health Service Central Register. See Merry (1995), Table 5. The source lists the top 50 names. From that compilation, the list given above grouped Rachel and Rachael.

### Additional References

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Galbi, Douglas, "Given Names in Northumberland and Durham from the early 16<sup>th</sup> Century to the early 19<sup>th</sup> Century," compiled from George Bell's parish marriage register transcriptions (see <http://www.cs.ncl.ac.uk/genuki/Transcriptions/DUR/> and <http://www.cs.ncl.ac.uk/genuki/Transcriptions/NBL/> ) (online at <http://www.galbithink.org/names/engb1800.htm>).

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Gwynek, Talan (Brian M. Scott), "Yorkshire Given Names from 1379," compilation from the assessment roll of the 1379 Poll Tax for Howdenshire Hundred in Yorkshire East Riding (online at <http://www.panix.com/~mittle/names/talan/yorkshire/yorkshiref.html> )

Merry, Emma, with support from Kay Callaghan and Chris Cotton, *First Names: The definitive guide to popular names in England and Wales 1944-1994 and in the regions 1994* (London: HMSO, 1995).

Stewart, George R., *Men's Names in Plymouth and Massachusetts in the Seventeenth Century* (Berkeley and Los Angeles: University of California Press, 1948) Tables 1 and 2, pp. 110, 112, compiled from London parish records (source 7).

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<sup>1</sup> The title of this paper originally was “Long-Term Trends in Personal Given Name Frequencies in the UK.” The title has been changed to more accurately indicate the geography of the name samples considered.

<sup>2</sup> The opinions and conclusions expressed in this paper are those of the author. They do not necessarily reflect the views of the Federal Communications Commission, its Commissioners, or any staff other than the author. Author’s address: dgalbi@fcc.gov; FCC, 445 12<sup>th</sup> St. SW, Washington, DC 20554, USA.

<sup>3</sup> See the GINAP webpage, <http://www.galbithink.org/names/ginap.htm>. The principle for coding is to group together names that either sound the same, have the same public meaning, or changed only in the recording process (spelling errors, recording errors, etc.).

<sup>4</sup> Note that name standardization helps to control for changes in names used as a person grows older, e.g. a correlation between nicknames or informal names and age. Thus name standardization is particularly important in analyzing time trends when the data come from naming cohorts constructed by age. That is the case for this paper’s data on nineteenth century names.

<sup>5</sup> Clark (1992) pp. 552, 558-562. There is no evidence that Norman clergy or royal officials compelled the English to adopt Norman names.

<sup>6</sup> This is true because  $\log(a/b)=\log(a)+\log(b)$ . The logarithm of name frequency differs from the logarithm of name popularity only by an additive factor. Name popularity rank and name frequency rank are of course identical.

<sup>7</sup> Gabaix (1999) shows that, when the appearance rate for new cities is not too high, it has no effect on the slope of the power law describing city sizes. If the appearance rate for new cities rises above a certain threshold, then the slope depends on the appearance rate. Cities can be analogized to name types.

<sup>8</sup> For population and income statistics for 1700 and earlier, see Mayhew (1995) Table I, and Snooks (1995), Table 3.5. For current population statistics, see UK National Statistics, Key Population and Vital Statistics, online at <http://www.statistics.gov.uk/statbase/Product.asp?vlnk=539&More=N>. The large changes in the structure of the economy over the past two hundred years make estimating changes in per capita income subject to significant uncertainty. The figure of 100 is my estimate based on my knowledge of the economic history literature.

<sup>9</sup> See AGNAMES webpage at <http://www.galbithink.org/names/agnames.htm>