

Historical Urban Ecological (HUE) Data Set
Historical Geocoding Guide

Center for Population Economics, 2013

<http://hue.uadata.org/>

Introduction

This essay documents the geocoding applications of the street centerline files included in the Historical Urban Ecological (HUE) data set. These streets centerlines and other historical GIS data can be found at the HUE data portal, hue.uadata.org.

In this document a discussion of the limitations of the street centerlines for automated geocoding is followed by an in-depth description of the procedure by which several thousand urban Union Army (UA) and US Colored Troops (USCT) veterans living in Baltimore, Boston, Brooklyn, Chicago, Manhattan, and Philadelphia were manually geocoded. Tables listing the sources used in this procedure can be found at the end of this document.

Geocoding Applications and Limitations

The street centerline GIS files packaged in the Historical Urban Ecological (HUE) data set provide opportunities for creating spatial data pertaining to the major US cities of the nineteenth and early twentieth centuries, principally Baltimore, Boston, Chicago, Cincinnati, New York, and Philadelphia. They serve as a framework for georeferencing historical maps as well as digitizing census geographies and physical infrastructure. The street centerlines also allow historical addresses, and the individuals who lived at them, to be accurately located in space through a procedure called geocoding.

Geocoding refers to process by which a table of addresses, and the information linked to those addresses, are placed in space in a GIS and given x and y coordinates. While geocoding can be done at many scales, it typically refers to the address-level. In this case the address is placed at its approximate physical location rather than to the correct city, county, or state. Contemporary address-level geocoding operations are nearly completely automated. They reference the user-provided tabular address data against an address locator created using a street centerline file. The individual street segments, or blocks, within this street centerline file typically include information on the street name and range of house numbers located on each side of the street segment. Addresses from the table are located according to how well they match a unique street segment. Municipal GIS departments and private data providers maintain street networks appropriate for such tasks. Address ranges are conventionally stored in L/R TO/FROMADD fields. The HUE data set does not include such information and is thus unsuitable for building an address locator and performing automated geocoding in the historical period.¹

¹ As the HUE street centerlines are highly accurate, modern addresses derived from contemporary street centerline files can be overlaid and integrated into historical investigations.

The HUE data set spans a century of rapid urban growth from 1830–1930. Over this period addresses were very unstable. The developing cities adopted new numbering systems to accommodate annexations and new construction. Renumbering schemes seen during this time range in scope from complete reworkings in Baltimore and Chicago to annual incremental shifts in Manhattan. Each city experienced a multitude of minor ad hoc modifications on top of these systematic changes. Streets were also frequently renamed in this period, sometimes several times. Multiple renamings are most prevalent in Philadelphia. Taken in total, this instability would have necessitated the creation of multiple street centerline files for each city, each with extensive edits to automate geocoding. Researchers can add address range(s) particular to their area and period of study if desired. The HUE street centerlines are provided in a format that supports such endeavors.

Performing automated geocoding on historical addresses is a difficult task even with a complete address locator. The CPE’s data sets provide an example. The Union Army and USCT samples are created from hand-written Military Service Records, Pension documents, Surgeons Certificates, and Census ledgers. Many variables, including addresses, are misspelled or smudged. Residential data are further influenced by a doctor or enumerator’s personal relationship to a veteran or their familiarity with a particular place—resulting in incomplete or vernacular addresses. As a result, many of the addresses collected from the UA and USCT veterans’ records—and addresses found in many other historical sources—would not pass an automated geocoder.

The 1930 street centerlines address several problems of modern street centerline files. These problems are principally the disappearance of historic areas that were razed to accommodate highway interchanges and large-scale redevelopments in the later twentieth century and the lack of period-specific street names. The researcher is supplied with spatially accurate street centerlines broadly appropriate to the period 1860–1930 with which to undertake manual geocoding for the longitudinal study of individual and neighborhood characteristics.

Geocoding the Union Army and US Colored Troops

A) Overview

The following sections describe the process by which CPE staff manually geocoded the addresses of all UA and USCT veterans found living in the HUE study cities of Baltimore, Boston, Brooklyn, Chicago, Manhattan, and Philadelphia. Cincinnati, while part of the HUE data set, was not included due to the difficulty of finding large numbers of urban Ohioans. These addresses span the major sources that constitute the individual histories of the men belonging to the UA, USCT, Andersonville, Oldest Old, and Urban samples created for the Early Indicators of

Later Work Levels, Disease and Death project². The major sources include the Census, Pension, and Surgeons Certificates.

All told, our staff assessed 28,538 address records of 7,302 veterans observed in the study cities between 1816 and 1949.³ A more detailed breakdown of the number of addresses assessed by city and sample (the total potentially geocodable addresses) can be found in Table 1. The temporal distribution of these observations across all samples can be seen in Figure 1. These records were not necessarily unique as address data were extracted from multiple sources and men could be observed living in the same residence multiple times in a single year. Veterans were also observed living in the same building as other veterans. As such, “address” will not be used to reference a unique address such as 100 S. State St, Chicago, IL. It will be used instead to refer to an address at which a veteran is observed in the source material, e.g. 100 S State St, Chicago, IL, 1880 Census.

² More information on Early Indicators Samples is available at <http://www.UAData.org>

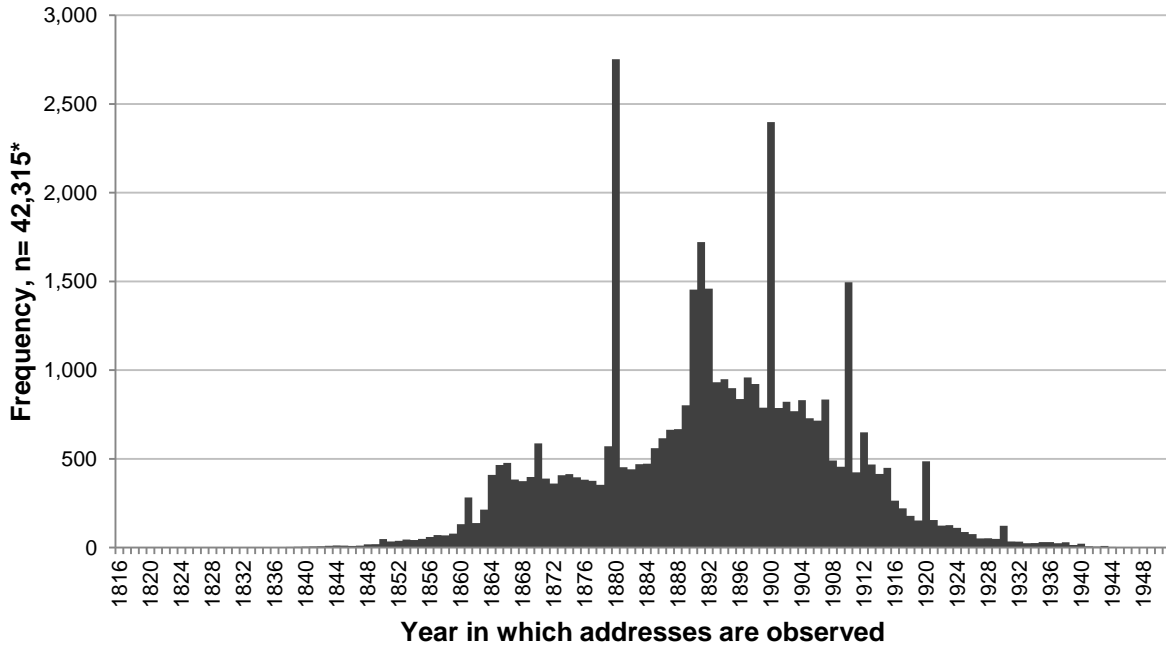
³ Numbers based on collection work completed by CPE as of 6/24/2013 and subject to change.

Table 1: Addresses of Union Army and US Colored Troops Veterans Observed for HUE Study Cities

City	Number of addresses	Percent total (by city)
Baltimore	7,421	100%
UA	4,971	67%
USCT	2,450	33%
<hr/>		
Boston	2,236	100%
UA	2,160	96.6%
USCT	76	3.4%
<hr/>		
Chicago	3,803	100%
UA	3,490	91.8%
USCT	313	8.2%
<hr/>		
New York*	8,389	100%
UA	7,862	93.7%
USCT	527	6.3%
<hr/>		
Philadelphia	6,689	100%
UA	5,539	82.8%
USCT	1,150	17.2%
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TOTAL	28,538	100%
UA	24,022	84.2%
USCT	4,516	15.8%

*New York includes Manhattan and Brooklyn, with a small number of addresses from the other boroughs
Note: UA and USCT here encompass all samples, including Urban, Andersonville, and Oldest Old.

Figure 1: Distribution of Observed Urban Addresses of All Samples across Time



*Frequency greater than total observed addresses, some observations span multiple years
Note: 10 observations contain null or erroneous years, these records have been removed.

B) Address Data

As noted above the veterans geocoded to the HUE street centerlines were drawn from the UA, USCT, Oldest Old, Andersonville, and Urban samples. The original UA and USCT samples are based on complete companies of mostly rural men. To increase the power of the UA for urban analysis, CPE staff oversampled companies that mustered in the HUE study cities. These companies constitute the Urban sample.

Research into the composition of the companies that mustered in Cincinnati revealed that the enlisted men came from rural areas outside the city and did not resettle in the city following the war in numbers great enough to construct a robust samples. As such, addresses in Cincinnati were not geocoded, though a partial ward history, ward-level data, and street centerlines are available through the HUE portal.

The complete records for each veteran contain thousands of variables detailing military service, individual health, socioeconomic status, and myriad other data points across the life cycle. Many of these data points have associated location information. Some, however, only specify the city, county, or state. Address-level place of residence information appears in the Census, Pension, and Surgeons Certificates sources.

The potentially geocodable addresses for the HUE cities seen in Table 1 were derived from a table of location data that spanned all samples. A cleaning program, executed in STATA, captured all records that could possibly be geocoded to the address level in these cities. Rural addresses, incomplete addresses, and urban addresses in non-HUE cities were omitted. To be eligible for geocoding an address needed to be in a HUE study city with street and house number information, and dates at which the veteran lived at that address. Table 2 illustrates a set of potentially geocodable addresses for the city of Chicago distilled from the residential information described above. The address information is found in the “oaddress,” “oinfo,” “oward,” and “ocity” fields.

Table 2 illustrates the difficulty of running an automated geocoder and the need to operationalize the manual geocoding process. The following sections explain how the various misspellings and incomplete or unorthodox records were assessed.

C) Accuracy of Geocoding Procedure

The manual geocoding procedure developed by the CPE was guided by the applications of the HUE data set as laid out in the aims of the *Early Indicators of Later Work Levels, Disease and Death* project (NIH P01 AG10120). These include:

1. Locating the veteran to the appropriate ward in order to link him to applicable ward-level ecological data
2. Locating the veteran to the appropriate block to link him to data detailing the year of installation of in-street sewer and water infrastructure

These applications in turn demanded the following requirements in terms of spatial accuracy:

1. Veteran must be located on the correct street, block, and side of street (N/S/E/W) as streets formed nearly all ward boundaries in the study period
2. Veterans must be located on the correct street and block as in-street sanitation infrastructure was coded to the block level

These requirements do not necessitate locating a veteran’s address to the exact building, though inputters were encouraged to do so where it was possible and expeditious. Depending on the address numbering scheme of a particular municipality, such fine spatial accuracy is not always possible with a modern automated geocoder. Inputters were instructed to roughly estimate the addresses’ location on the block.

The addresses manually geocoded by CPE inputters differed significantly from those of the present day. In order to accurately place these points in space, inputters had to cross reference

historical maps showing addresses, street directories issued by private companies, municipal ordinances, and a variety of other sources listed in more detail in the Resources section at the end of this walkthrough. These materials were not available for the full study period for every city. Some were available once every several years, some once a decade. Many addresses had to be inferred using several sources. As seen in Table 2, many addresses were partial or CPE inputters coded each hit with a confidence code based on their qualitative assessment of the available information. These codes are discussed in greater detail in the following section.

Table 2: Sample Address Information for Geocoded Veterans in Chicago

recidnum	source	oaddress	oinfo	oward	ocity	ocounty	ostate	fyear	tyear
100501052	r5	516 N WELLS ST	-	-	CHICAGO	COOK	IL	1891	1891
100501052	sc6	516 N WELLS ST	-	-	CHICAGO	-	IL	1892	1892
100501052	r6	770 W VAN BUREN ST	-	-	CHICAGO	COOK	IL	1894	1894
100501052	c1900	1299 W MADISON ST	CHICAGO	12	WEST CHICAGO	COOK	IL	1900	1900
100501052	r2	40 E RANDOLPH ST	-	-	CHICAGO	COOK	IL	1904	1908
100501052	c1910	2852 MADISON	TRACT 06	13	CHICAGO	COOK	IL	1910	1910
100501052	r1	2852 W MADISON ST	-	-	CHICAGO	COOK	IL	1912	1914
100501070	c1900	799 CONGRESS ST	CHICAGO	12	WEST	COOK	IL	1900	1900
1100108019	r5	NE CORNER 44 AND KINZIE ST	-	-	CHICAGO	COOK	IL	1874	1874
1100108019	r3	4041 CARROLL AVE	-	-	CHICAGO	COOK	IL	1891	1891
1100108019	r1	1951 CARROLL ST 28TH	-	-	CHICAGO	COOK	IL	1891	1892
1100108071	r2	3207 CANAL ST	-	-	CHICAGO	-	IL	1912	1923
1100108100	w1	-	HOME VAUGHAN	-	CHICAGO	COOK	IL	1867	1867
1100108100	r1	S LYNN	-	-	CHICAGO	COOK	IL	1890	1890

D) Procedure

All geocoding was performed using ArcGIS software versions 9.3 – 10.2. Inputters were trained in the basics of GIS or hired because of pre-existing GIS experience. Knowledge of the *Early Indicators* project and the accuracy demands and research goals of the geocoding process were required as well as: cartographic projection, data management in ArcCatalog, symbolization and feature/attribute table editing in ArcMap, snapping, archival research (especially with maps), and georeferencing.

Inputters were assigned groups of addresses to assess one city at a time. Assignments were generated by STATA as a tab-delimited text file in the format seen in Table 2. Columns for latitude and longitude coordinates, a “geocoded” quality code field, an assignment field, and a freeform text field for recording pertinent notes were also added. Addresses that had not yet been assessed were given dummy lat/long values corresponding to a landmark in the city in question. All addresses from the file were then added to the map as points using the “Add XY Data” tool. Later period geocoding included points that were mapped using an automated geocoder created using street centerlines created by the Census Bureau in 2010. These points were not taken to be correct, as good first approximations. They frequently ended up in the correct neighborhood, expediting the geocoding process.

Inputters were instructed to first sort the attribute table by “recidnum”—the veteran’s unique identification number—and then “fyear,” allowing them to gain additional information for each address based on a veteran’s previous location. Veteran 100501052 seen in Table 2 provides an example—the inputter is able to determine that the veteran is most likely living at 2852 W Madison St in 1910 as well as in 1912.

Each address was first reviewed for completeness and clarity. Inputters then attempted to locate full, unambiguous addresses. Using their knowledge of a particular city, inputters sought out the correct historical location of the address, which was verified using a combination of historical sources. This process is discussed in further detail below.

Once found, the inputter then dragged the address from the central landmark, or bucket, (or the location to which it was geocoded using the automated geocoder) to its intended location—the correct side of street, correct block, approximate position on that block—as it related to the HUE street centerlines. The point was snapped to the edge of a buffer created from the street centerlines. This buffer served to ensure that each address was clearly associated with the correct street segment for later proximity analysis. It also provided a 10.1 foot tolerance on each side of the street to provide flexibility for integrating the geocoded points with modern GIS resources. Figure 2 shows a section of Manhattan with all geocoded points in that area.

The steps below summarize the process the inputter might have taken to locate the historically correct physical location of the veteran living at 2852 W Madison St in Chicago as seen in Table 2.

Figure 2: Manhattan Geocoding Results

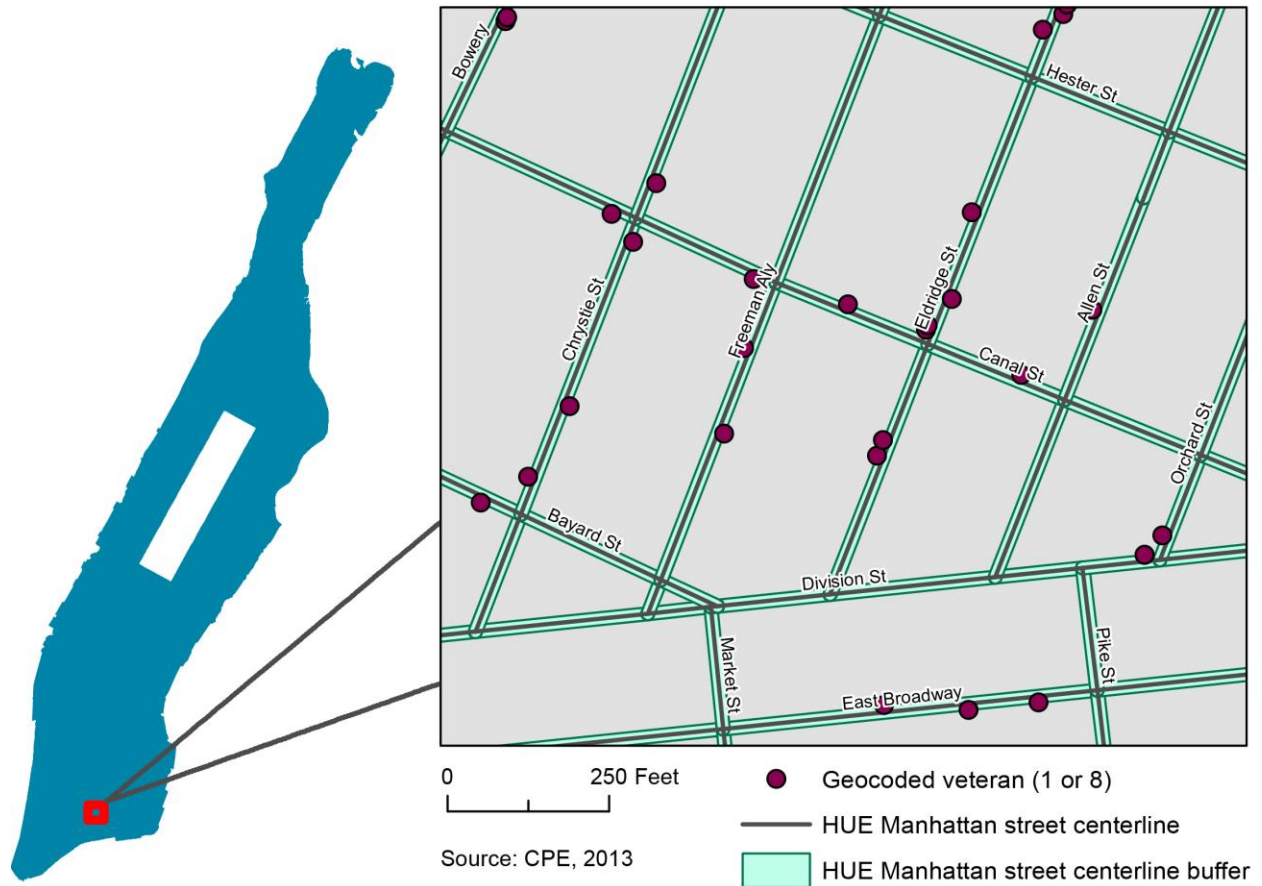


Table 3: “Geocoded” Quality Code Definitions

Code	Meaning
(blank)	Not assessed
0	Un-geocodable, not enough information provided
1	Geocoded with certainty
5	Geocoded with certainty, but street no longer exists in 1930 streets shapefile
6	Specific to NYC. Address in boroughs other than Manhattan or Brooklyn, not geocoded
7	Specific to NYC. Address as entered could exist in more than one borough, not geocoded
8	Geocoded with 90% certainty
9	Not geocoded for now, more information required

1. Assess the “o*” fields, do they, taken together, provide a full address, i.e. a house number, a cardinal prefix (where applicable), and a street name? Sometimes information is shifted into the “oinfo” or “oward” column. Does the information disambiguate the address fully? If so, proceed to step two. If not, enter appropriate quality code in geocoded field as defined in Table 3. An address missing a N/S/E/W prefix would be coded a ‘9’ while an address such as ‘HOME VAUGHN’ or ‘S LYNN’ would be coded as a ‘0’. 2852 W Madison St judged to be complete.
2. Ascertain “tyear” – this was the year the veteran was found living at this address by a census enumerator or reported living at an address to a pension administrator. “fyear” the year the veteran can first remember living at his present residence. “fyear” is frequently the same as “tyear” and in any case would most likely be the very same address, though it may have changed over long spans. “tyear” = 1914.
3. Find source(s) with address information (see Resources section for list of sources by city) published for that “tyear” or those before and after the “tyear”, refer to list of major renumbering dates for the appropriate city. Proquest Sanborns exist for period.
4. Use available sources to locate the address to the correct block of the HUE street centerline. This could mean selecting the appropriate map plate(s) from a Sanborn Atlas or identifying the appropriate bounding intersections from a street directory. If a major address change occurs between the observed year and the “tyear” apply the appropriate transformation if it is listed. Sanborn map atlases for 2852 W Madison St neighborhood

found in 1896 and 1922 using Proquest browse feature. Address change document for 1909 identified, 1299 → 1852.

5. If the particular address cannot be found on a chronologically appropriate map or the house number does not fit within range specified in a city directory, mark as ‘9’.
6. For NYC only: if address is not in Manhattan or Brooklyn, code ‘6’.
7. If the correct street segment does not exist in 1930, move point to approximate location in space, optionally using a modern basemap to detect possible location of former street (e.g. alleys and breaks in old buildings), code ‘5’.
8. If address can be found, mark as ‘1’ or ‘8’ depending on the chronological proximity of the available resources:
 - a. For addresses located using sources published in that year, code ‘1’.
 - b. If address is located on the exact same block in sources found before and after “tyear” after address range changes are applied where necessary, code ‘1’. Using these resources to locate 2852 W Madison Avenue in 1912 is illustrated in Figure 3. 2852 W Madison Avenue moved from un-assessed bucket, snapped to buffer, and geocoded ‘1’.
 - c. If no earlier or later sources can be found but address isn’t excessively earlier or later than source and no address numbering changes have taken effect, mark as ‘8’.
 - d. If physical location is different in earlier and later sources and no address numbering changes have taken effect code ‘8’ if address is chronologically close to either end code as ‘9’ if otherwise.
9. Snap to previously located point located at that exact location (check addresses and address change documents) where applicable. 1912 observation snapped to 1910 point.
10. Add notes regarding sources used, assumptions made, information missing, address range changes applied, and any other information pertinent to judge the quality of a geocoded address or additional information that would aid in locating an un-geocodable address.

When the inputter completed each assignment, they would recheck any notes they had left for themselves and attempt to locate any addresses they skipped or those with partial or ambiguous addresses that could be resolved to complete addresses at which the veteran was observed. All 0s, 6s, 7s, and 9s were dumped back in the starting bucket. The project coordinator then reprojected the shapefile to NAD 1983 where necessary and ran the “Add XY Coordinates” geoprocessing tool, creating latitude and longitude fields. The entire table was exported to a .csv and remerged into STATA.

E) Geocoding Sources

The following tables list the sources used by CPE inputters to determine the location of historical urban addresses. Block-level address information is most readily available in street listings included in many city directories, as well as in fire insurance atlases. In order to most efficiently assess the large number of addresses culled from across the *Early Indicators* samples, we focused on the most easy-to-use sources, those which could either be queried or easily browsed. Many such collections require paid subscriptions. As such the tables are neither comprehensive nor suitable for every project. Major numbering regime changes and available supplementary documentation for each city are noted below but are not necessarily complete. The tables not sources published between approximately 1860 through 1930.

Many suitable maps and directories can be collected from historical archives and library collections. The Library of Congress possesses a peerless collection of Sanborn Fire Insurance Atlases, for example. The overview below provides a general outline of where such materials have already been digitized and made available on the Internet.

Overview

- Ancestry.com –a very complete collection of city directories (subscription)
- Proquest Sanborn Maps Geo Edition – a comprehensive collection of black and white Sanborn Fire Insurance map plates queryable by address or browsable using a GoogleMaps interface (subscription)
- David Rumsey Map Collection – this large repository includes a number of fire insurance atlases (Perris, Sanborn, Bromley)
- HistoricMapWorks.com – a great source for historical maps, queryable by address, not available to users with a domain name ending in .edu
- Library of Congress Online Map Collection – online catalog, some Sanborn atlases are available for online viewing
- Archive.org – some city directories
- Hathitrust.org – some city directories
- University libraries – notable online collections include Harvard and the University of Chicago
- Public libraries – notable online collections include the Philadelphia Free Library, New York Public Library, and Boston Public Library
- State and city archives – notable online collections include the Maryland State Archive and Phillyhistory.org

Baltimore

Street Name Change Source(s):

- Duvall, L.M. (1894) *Practical Points for Conveyancers*. Accessed November 1, 2013.
<http://baltimorecityhistory.files.wordpress.com/2013/10/duvall_practicalpoints.pdf>
- Gunby, R. (1993) *Index of Streets and Alleys found in Records, Plats, Atlases and Miscellaneous Drawings at the Baltimore City Archives*. Accessed November 1, 2013.
<<http://msa.maryland.gov/megafile/msa/speccol/sc5300/sc5339/000097/000000/000017/unrestricted/gunby-bc-streets-1993.pdf>>

Major Changes:

- 1886 – Major address range change to 100-to-a-block grid numbering system
- 1888 – City limits expand for first time since 1816
- 1904 – Great Baltimore Fire
- 1919 – City limits expand roughly to present-day boundary

Year	Source	Repository	Link	Collection	Pages/Vol
1860	Wood's City Directory	Archive.org	http://archive.org/details/woodsbaltimececi1860balt	Baltimore City Directories	509-529
1861			<i>Nothing found for year</i>		
1862			<i>Nothing found for year</i>		
1863	Wood's City Directory	Ancestry.com	Login required	City Directories Database	466-477
1864	Wood's City Directory	Archive.org	http://archive.org/details/woodsbaltimececi1864balt	Baltimore City Directories	541-562
1865	Wood's City Directory	Ancestry.com	Login required	City Directories Database	328-339
1866	Wood's City Directory	Archive.org	http://archive.org/details/woodsbaltimececi1865balt	Baltimore City Directories	573-594
1867	Wood's City Directory	Ancestry.com	Login required	City Directories Database	390-401
1868	Wood's City Directory	Ancestry.com	Login required	City Directories Database	400-412
1869	Wood's City Directory	Archive.org	http://archive.org/details/woodsbaltimececi1868balt	Baltimore City Directories	761-784
1870	Wood's City Directory	Ancestry.com	Login required	City Directories Database	442-454

Year	Source	Repository	Link	Collection	Pages/Vol
1871	Wood's City Directory	Ancestry.com	Login required	City Directories Database	445-457
1872	Wood's City Directory	Ancestry.com	Login required	City Directories Database	459-471
1873	Wood's City Directory	Ancestry.com	Login required	City Directories Database	447-459
1874	Wood's City Directory	Ancestry.com	Login required	City Directories Database	448-460
1875	Wood's City Directory	Ancestry.com	Login required	City Directories Database	438-451
1876	Sanborn Fire Insurance Atlas	Papenfuse Map Collection	http://mdhistory.net/msaref07/html/	Baltimore City & County Atlases	785-868
1877	Wood's City Directory	Ancestry.com	Login required	City Directories Database	013-028
1878	Wood's City Directory	Ancestry.com	Login required	City Directories Database	012-027
1879	Papenfuse Sanborns	Papenfuse Map Collection	http://mdhistory.net/msaref07/html/	Baltimore City & County Atlases	566-594; 626-688
1880	Papenfuse Sanborns	Papenfuse Map Collection	http://mdhistory.net/msaref07/html/	Baltimore City & County Atlases	597-625; 626-688
1881	Wood's City Directory	Ancestry.com	Login required	City Directories Database	010-025
1882	Wood's City Directory	Ancestry.com	Login required	City Directories Database	012-027
1883	Wood's City Directory	Ancestry.com	Login required	City Directories Database	012-027
1884	Wood's City Directory	Archive.org	http://archive.org/stream/woodsbalimoreci1884balt	Baltimore City Directories	009-041
1885	Bromley Atlas	Papenfuse Map Collection	http://mdhistory.net/msaref07/html/	Baltimore City & County Atlases	Jan-85
1886	Bromley Atlas	Papenfuse Map Collection	http://mdhistory.net/msaref07/html/	Baltimore City & County Atlases	86-158
1887	Wood's City Directory	Ancestry.com	Login required	City Directories Database	026-039
1888	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	032-048
1889	Thompson Atlas	Papenfuse Map Collection	http://mdhistory.net/msaref07/html/	Baltimore City & County Atlases	479-565; 889-964
1890	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Baltimore City	1890 vol.1-3
1891	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	028-042
1892	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	025-041
1893	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	025-041

Year	Source	Repository	Link	Collection	Pages/Vol
1894	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	022-036
1895	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	022-036
1896	Bromley Atlas	Papenfuse Map Collection	http://mdhistory.net/msaref07/html/	Baltimore City & County Atlases	159-262
1897	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	018-033
1898	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	021-039
1899	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	018-034
1900	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	014-030
1901	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Baltimore City	1901-1902 vol.1-2
1902	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Baltimore City	1901-1902 vol.3-4
1903	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	017-032
1904	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	013-029
1905	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	012-027
1906	Bromley Atlas	Papenfuse Map Collection	http://mdhistory.net/msaref07/html/	Baltimore City & County Atlases	372-478
1907	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	013-029
1908	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	015-031
1909	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	011-027
1910	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	014-031
1911	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	009-027
1912	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	013-031
1913	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	009-026
1914	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Baltimore City	1914-1915 vol.1-6
1914	Atlas of the City of Baltimore	Johns Hopkins University	https://scholarship.library.jhu.edu/handle/1774.2/33744	n/a	
1915	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Baltimore City	1914-1915 vol.7

Year	Source	Repository	Link	Collection	Pages/Vol
1916	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	001-013
1917	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	011-028
1918	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	036-055
1919			<i>Nothing found for year</i>		
1920	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	028-045
1921	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	032-050
1922	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	035-052
1923	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	038-056
1924	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	037-055
1925			<i>Nothing found for year</i>		
1926	R.L.Polk & Co's City Directory	Ancestry.com	Login required	City Directories Database	042-061
1927	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Baltimore City	1914-1953 vol. 15
1928	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Baltimore City	1928-1939 vol. 6-8
1929	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Baltimore City	1928-1939 vol. 9-11
1930			<i>Nothing found for year</i>		

Boston

Street Name Change Source(s):

- City of Boston, Streets Laying-Out Department (1910) *A Record of the Streets, Alleys, Places, Etc in the City of Boston*. Accessed November 4, 2013.< <http://books.google.com/books?id=MOpIAAAAMAAJ>>
- City of Boston, Joint Standing Committee on Ordinances (1879) *Nomenclature of Streets*. Accessed November 4, 2013.< <http://books.google.com/books?id=AL66wFd3wIMC>>

Major Changes:

- No major renumberings in period

Year	Source	Repository	Link	Collection	Pages/Vol
1860			<i>Nothing found for year</i>		
1861			<i>Nothing found for year</i>		
1862			<i>Nothing found for year</i>		
1863			<i>Nothing found for year</i>		
1864			<i>Nothing found for year</i>		
1865			<i>Nothing found for year</i>		
1866			<i>Nothing found for year</i>		
1867	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Boston; Suffolk Co.	1867 vol 1
1868					
1869	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	28-50
1870	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	26-51
1871			<i>Nothing found for year</i>		
1872			<i>Nothing found for year</i>		
1873			<i>Nothing found for year</i>		

Year	Source	Repository	Link	Collection	Pages/Vol
1874			<i>Nothing found for year</i>		
1875			<i>Nothing found for year</i>		
1876	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	10-44
1877	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	25-55
1878	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	25-55
1879			<i>Nothing found for year</i>		
1880	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	24-55
1881			<i>Nothing found for year</i>		
1882	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	24-57
1883	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	25-56
1884			<i>Nothing found for year</i>		
1885	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	25-59
1886	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	15-44
1887	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Boston; Suffolk Co.	1885-88 vol 2
1888	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Boston; Suffolk Co.	1885-88 vol 3
1889	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	15-51
1890	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	12-48
1891			<i>Nothing found for year</i>		
1892	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	11t-46
1893	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	22-58
1894	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	28-65
1895	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	17-54
1896	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	33-52

Year	Source	Repository	Link	Collection	Pages/Vol
1897	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	30-69
1898	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	30-68
1899	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	17-57
1900	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	13-54
1901	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	21-42
1902	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	31-70
1903	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	32-79
1904	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	83-128
1905	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	69-115
1906	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	46-70
1907	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	40-64
1908	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	71-119
1909	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	41-65
1910	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	13-61
1911	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	14-39
1912	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	21-72
1913	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	27-80
1914	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	25-79
1915	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	23-76
1916	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	21-77
1917	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	21-77
1918			<i>Nothing found for year</i>		
1919	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Boston; Suffolk Co.	1908-38 vol 3

Year	Source	Repository	Link	Collection	Pages/Vol
1920	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	23-84
1921	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	17-81
1922	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	21-89
1923	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	17-59
1924	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	15-58
1925	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	64-104
1926	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	62-103
1927	Boston Directory, Sampson & Murdock	Ancestry.com	Login required	City Directories Database	66-108
1928	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Boston; Suffolk Co.	1908-38 vol 7
1929	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Boston; Suffolk Co.	1908-38 vol 10
1930	Boston Directory, Sampson & Murdock	Proquest Sanborn Maps	Login required	Boston; Suffolk Co.	1908-38 vol 11

Brooklyn

Street Name Change Source(s):

- Miller, D (2010) *Obsolete Street Names in the Eastern District*. Web Page. Accessed November 4, 2013. http://www.brooklyn.net/neighborhoods/obsolete_street_names.html
- Reynolds, H (c1900) *Henry A. Reynolds Brooklyn and Manhattan Street Name Records*. Archival material, Brooklyn Historical Society.

Major Changes:

- 1898 – Annexed to New York City

Year	Source	Repository	Link	Collection	Pages/Vol
1860			<i>Nothing found for year</i>		
1861			<i>Nothing found for year</i>		
1862	Lain's Brooklyn Directory	Ancestry.com	Login required	City Directories Database	256-273
1863	Lain's Brooklyn Directory	Ancestry.com	Login required	City Directories Database	280-298
1864	Lain's Brooklyn Directory	Ancestry.com	Login required	City Directories Database	315-332
1865	Lain's Brooklyn Directory	Ancestry.com	Login required	City Directories Database	453-470
1866	Lain's Brooklyn Directory	Ancestry.com	Login required	City Directories Database	316-333
1867	Lain's Brooklyn Directory	Ancestry.com	Login required	City Directories Database	336-353
1868	Lain's Brooklyn Directory	Ancestry.com	Login required	City Directories Database	388-405
1869	Lain's Brooklyn Directory	Ancestry.com	Login required	City Directories Database	388-405
1870	Brooklyn City and Business Directory	Ancestry.com	Login required	City Directories Database	442-459
1871	Brooklyn City and Business Directory	Ancestry.com	Login required	City Directories Database	473-491
1872	Brooklyn City and Business Directory	Ancestry.com	Login required	City Directories Database	486-505
1873	Brooklyn City and Business Directory	Ancestry.com	Login required	City Directories Database	1076-1103

Year	Source	Repository	Link	Collection	Pages/Vol
1874	Brooklyn City and Business Directory	Ancestry.com	Login required	City Directories Database	1123-1160
1875			<i>Nothing found for year</i>		
1876	Brooklyn City and Business Directory	Ancestry.com	Login required	City Directories Database	1281-1299
1877	Brooklyn City and Business Directory	Ancestry.com	Login required	City Directories Database	1187-1222
1878	Brooklyn City and Business Directory	Ancestry.com	Login required	City Directories Database	571-589
1879	Brooklyn City and Business Directory	Ancestry.com	Login required	City Directories Database	1391-1426
1880	Brooklyn City and Business Directory	Ancestry.com	Login required	City Directories Database	738-756
1881	E.T. Griffith Street Directory	Archive.org	http://archive.org/stream/streetdirecto/ryo00grif	n/a	
1882	The Brooklyn Directory	Ancestry.com	Login required	City Directories Database	772-791
1883	The Brooklyn Directory	Ancestry.com	Login required	City Directories Database	842-861
1884	Lain's Brooklyn Directory	Ancestry.com		City Directories Database	768-789
1885	Lain's Brooklyn Directory	Ancestry.com	Login required	City Directories Database	1564-1599
1886	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York; Kings	1886-88 vols
1887	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York; Kings	1886-88 vols
1888	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York; Kings	1886-88 vols
1889	Lain's Brooklyn Directory	Ancestry.com	Login required	City Directories Database	767-788
1890	Lain's Brooklyn Directory	Ancestry.com	Login required	City Directories Database	809-828
1891	Lain's Brooklyn Directory	Ancestry.com	Login required	City Directories Database	814-833
1892	Lain's Brooklyn Directory	Ancestry.com	Login required	City Directories Database	257-276
1893			<i>Nothing found for year</i>		
1894			<i>Nothing found for year</i>		
1895	Lain's Brooklyn Directory	Ancestry.com	Login required	City Directories Database	863-882
1896			<i>Nothing found for year</i>		

Year	Source	Repository	Link	Collection	Pages/Vol
1897	Lain's Brooklyn Directory	Ancestry.com	Login required	City Directories Database	878-898
1898	Lain's Brooklyn Directory	Ancestry.com	Login required	City Directories Database	937-957
1899	Lain's Brooklyn Directory	Ancestry.com	Login required	City Directories Database	1014-1035
1900	Lain's Brooklyn Directory	Ancestry.com	Login required	City Directories Database	844-868
1901	Lain's Brooklyn Directory	Ancestry.com	Login required	City Directories Database	911-937
1902	Lain's Brooklyn Directory	Ancestry.com	Login required	City Directories Database	782-805
1903			<i>Nothing found for year</i>		
1904	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York; Kings	1904-08 vols
1905	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York; Kings	1904-08 vols
1906	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York; Kings	1904-08 vols
1907	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York; Kings	1904-08 vols
1908	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York; Kings	1904-08 vols
1909	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York; Kings	1904-08 vols
1910			<i>Nothing found for year</i>		
1911			<i>Nothing found for year</i>		
1912			<i>Nothing found for year</i>		
1913			<i>Nothing found for year</i>		
1914			<i>Nothing found for year</i>		
1915	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York; Kings	1915-33 vols
1916	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York; Kings	1915-33 vols
1917	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York; Kings	1915-33 vols
1918	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York; Kings	1915-33 vols
1919	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York; Kings	1915-33 vols

Year	Source	Repository	Link	Collection	Pages/Vol
1920	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York; Kings	1915-33 vols
1921	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York; Kings	1915-33 vols
1922	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York; Kings	1915-33 vols
1923	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York; Kings	1915-33 vols
1924	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York; Kings	1915-33 vols
1925	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York; Kings	1915-33 vols
1926	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York; Kings	1915-33 vols
1927	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York; Kings	1915-33 vols
1928	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York; Kings	1915-33 vols
1929	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York; Kings	1915-33 vols
1930	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York; Kings	1915-33 vols

Chicago

Street Name Change Source(s):

- Martin, W (1948) *Chicago Streets*. Accessed November 6, 2013. <<http://www.chsmedia.org/househistory/namechanges/start.pdf>>

Major Changes:

- 1871 – Great Chicago Fire
- 1889 – annexation of Hyde Park and Lakeview Townships necessitates street name changes in new districts
- 1909 – Chicago switches to a uniform 100-to-a-block grid numbering system September 1, 1909. See Chicago Directory Company (1909) *Plan of Renumbering: City of Chicago*. Accessed November 6, 2013. <<http://www.chsmedia.org/househistory/1909snc/start.pdf>>

Year	Source	Repository	Link	Collection	Pages/Vol
1860			<i>Nothing found for year</i>		
1861	The Lakeside City Directory	Ancestry.com	Login required	City Directories Database	267-276
1862	The Lakeside City Directory	Ancestry.com	Login required	City Directories Database	295-304
1863			<i>Nothing found for year</i>		
1864	The Lakeside City Directory	Ancestry.com	Login required	City Directories Database	410-425
1865	The Lakeside City Directory	Ancestry.com	Login required	City Directories Database	493-506
1866			<i>Nothing found for year</i>		
1867	The Lakeside City Directory	Ancestry.com	Login required	City Directories Database	522-533
1868			<i>Nothing found for year</i>		
1869	The Lakeside City Directory	Ancestry.com	Login required	City Directories Database	518-530
1870			<i>Nothing found for year</i>		
1871			<i>Nothing found for year</i>		

Year	Source	Repository	Link	Collection	Pages/Vol
1872			<i>Nothing found for year</i>		
1873	The Lakeside City Directory	Ancestry.com	Login required	City Directories Database	30-41
1874	The Lakeside City Directory	Ancestry.com	Login required	City Directories Database	35-44
1875	The Lakeside City Directory	Ancestry.com	Login required	City Directories Database	36-49
1876	The Lakeside City Directory	Ancestry.com	Login required	City Directories Database	36-50
1877	The Lakeside City Directory	Ancestry.com	Login required	City Directories Database	37-52
1878	The Lakeside City Directory	Ancestry.com	Login required	City Directories Database	38-53
1879			<i>Nothing found for year</i>		
1880			<i>Nothing found for year</i>		
1881			<i>Nothing found for year</i>		
1882	The Lakeside City Directory	Ancestry.com	Login required	City Directories Database	34-51
1883			<i>Nothing found for year</i>		
1884			<i>Nothing found for year</i>		
1885	The Lakeside City Directory	Ancestry.com	Login required	City Directories Database	36-53
1886			<i>Nothing found for year</i>		
1887	The Lakeside City Directory	Ancestry.com	Login required	City Directories Database	40-60
1888	The Lakeside City Directory	Ancestry.com	Login required	City Directories Database	37-56
1889	The Lakeside City Directory	Ancestry.com	Login required	City Directories Database	39-80
1890	The Lakeside City Directory	Ancestry.com	Login required	City Directories Database	37-71
1891	The Lakeside City Directory	Ancestry.com	Login required	City Directories Database	39-77
1892			<i>Nothing found for year</i>		
1893			<i>Nothing found for year</i>		
1894	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Chicago; Cook Co.	1894-97

Year	Source	Repository	Link	Collection	Pages/Vol
1895	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Chicago; Cook Co.	1894-97
1896	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Chicago; Cook Co.	1894-97
1897	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Chicago; Cook Co.	1894-97
1898	The Lakeside City Directory	Ancestry.com	Login required	City Directories Database	34-72
1899	The Lakeside City Directory	Ancestry.com	Login required	City Directories Database	32-68
1900	The Lakeside City Directory	Ancestry.com	Login required	City Directories Database	32-69
1901	The Lakeside City Directory	Ancestry.com	Login required	City Directories Database	37-70
1902			<i>Nothing found for year</i>		
1903			<i>Nothing found for year</i>		
1904			<i>Nothing found for year</i>		
1905			<i>Nothing found for year</i>		
1906	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Chicago; Cook Co.	1905-1951
1907			<i>Nothing found for year</i>		
1908			<i>Nothing found for year</i>		
1909	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Chicago; Cook Co.	1905-1951
1910	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Chicago; Cook Co.	1905-1951
1911			<i>Nothing found for year</i>		
1912			<i>Nothing found for year</i>		
1913			<i>Nothing found for year</i>		
1914	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Chicago; Cook Co.	1905-1951
1915			<i>Nothing found for year</i>		
1916	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Chicago; Cook Co.	1905-1951
1917	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Chicago; Cook Co.	1905-1951

Year	Source	Repository	Link	Collection	Pages/Vol
1918	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Chicago; Cook Co.	1905-1951
1919	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Chicago; Cook Co.	1905-1951
1920	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Chicago; Cook Co.	1905-1951
1921	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Chicago; Cook Co.	1905-1951
1922	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Chicago; Cook Co.	1905-1951
1923	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Chicago; Cook Co.	1905-1951
1924	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Chicago; Cook Co.	1905-1951
1925	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Chicago; Cook Co.	1905-1951
1926	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Chicago; Cook Co.	1905-1951
1927			<i>Nothing found for year</i>		
1928	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Chicago; Cook Co.	1905-1951
1929			<i>Nothing found for year</i>		
1930	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Chicago; Cook Co.	1905-1951

Manhattan

Street Name Change Source(s):

- Tauber, G (2005) *Old Streets of New York*. Web Database. Accessed November 6, 2013. <<http://oldstreets.com/>>

Major Changes:

- 1842 – Fifth Avenue designated as the division for crosstown streets running east and west
- 1852 – 100-to-a-block grid numbering system for crosstown streets adopted, 0 point at Fifth Avenue
- 1886 – House numbers on streets west of Central Park renumbered to commence at 1 at Central Park West

Year	Source	Repository	Link	Collection	Pages/Vol
1852-57	Perris Maps of the City of New York	NYPL	http://digitalgallery.nypl.org/nypldigital/dgkeysearchresult.cfm?parent_id=673647	Fire Insurance, Topo, etc	
1860	Perris Maps of the City of New York	NYPL	http://digitalgallery.nypl.org/nypldigital/dgkeysearchresult.cfm?parent_id=666056	Fire Insurance, Topo, etc	
1861	Perris Maps of the City of New York	NYPL	http://digitalgallery.nypl.org/nypldigital/dgkeysearchresult.cfm?parent_id=666056	Fire Insurance, Topo, etc	
1862	Perris Maps of the City of New York	NYPL	http://digitalgallery.nypl.org/nypldigital/dgkeysearchresult.cfm?parent_id=666056	Fire Insurance, Topo, etc	
1863			<i>Nothing found for year</i>		
1864			<i>Nothing found for year</i>		
1865			<i>Nothing found for year</i>		
1866			<i>Nothing found for year</i>		
1867			<i>Nothing found for year</i>		
1868	Trow City Directory	Ancestry.com	Login required	City Directories Database	713-721
1869			<i>Nothing found for year</i>		
1870	Trow City Directory	Ancestry.com	Login required	City Directories Database	788-796
1871			<i>Nothing found for year</i>		
1872	Trow City Directory	Ancestry.com	Login required	City Directories Database	1722-1731
1873			<i>Nothing found for year</i>		

Year	Source	Repository	Link	Collection	Pages/Vol
1874	Trow City Directory	Ancestry.com	Login required	City Directories Database	911-920
1875	Trow City Directory	Ancestry.com	Login required	City Directories Database	888-897
1876	Trow City Directory	Ancestry.com	Login required	City Directories Database	1717-1734
1877	Trow City Directory	Ancestry.com	Login required	City Directories Database	905-914
1878	Trow City Directory	Ancestry.com	Login required	City Directories Database	1673-1694
1879	Trow City Directory	Ancestry.com	Login required	City Directories Database	1795-1816
1880	Trow City Directory	Ancestry.com	Login required	City Directories Database	1811-1833
1881			<i>Nothing found for year</i>		
1882	Trow City Directory	Ancestry.com	Login required	City Directories Database	1891-1913
1883	Trow City Directory	Ancestry.com	Login required	City Directories Database	1021-1032
1884	Trow City Directory	Ancestry.com	Login required	City Directories Database	2081-2126
1885			<i>Nothing found for year</i>		
1886	Trow City Directory	Ancestry.com	Login required	City Directories Database	1177-1200
1887			<i>Nothing found for year</i>		
1888	Trow City Directory	Ancestry.com	Login required	City Directories Database	2325-2370
1889	Trow City Directory	Ancestry.com	Login required	City Directories Database	2320-2360
1890	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1890-1902
1891	Trow City Directory	Ancestry.com	Login required	City Directories Database	1620-1652
1892	Trow City Directory	Ancestry.com	Login required	City Directories Database	1684-1715
1893	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1890-1902
1894	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1890-1902
1895	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1890-1902
1896	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1890-1902

Year	Source	Repository	Link	Collection	Pages/Vol
1897	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1890-1902
1898	Sanborn Fire Insurance Atlas	Ancestry.com	Login required	New York	1890-1902
1899	Trow City Directory	Ancestry.com	Login required	City Directories Database	1890-1902
1900	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1890-1902
1901	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1890-1902
1902	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1890-1902
1903	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1903-1919
1904	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1903-1919
1905	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1903-1919
1906	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1903-1919
1907	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1903-1919
1908	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1903-1919
1909	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1903-1919
1910	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1903-1919
1911	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1903-1919
1912	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1903-1919
1913	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1903-1919
1914	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1903-1919
1915	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1903-1919
1916	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1903-1919
1917	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1903-1919
1918	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1903-1919
1919	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1903-1919

Year	Source	Repository	Link	Collection	Pages/Vol
1920	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1908-1947
1921	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1908-1947
1922	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1908-1947
1923	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1908-1947
1924	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1908-1947
1925	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1908-1947
1926	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1908-1947
1927	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1908-1947
1928	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1908-1947
1929	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1908-1947
1930	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	New York	1908-1947

Philadelphia

Street Name Change Source(s):

- City of Philadelphia Department of Records (2013) *Philadelphia Historic Streets Index*. Web Database. Accessed November 6, 2013. <http://www.phillyhistory.org/historicstreets/>

Major Changes:

- 1857 – 100-to-a-block grid numbering system adopted
- 1858 – Significant changes to street names to remedy duplicated names
- Early 1880s – 100-to-a-block grid numbering system adopted in Kensington
- Mid-1890s – 100-to-a-block grid numbering system adopted in Germantown, Mount Airy, and Chestnut Hill
- 1897 – Significant changes to street names to remedy duplicated names

Year	Source	Repository	Link	Collection	Pages/Vol
1855	R.L. Barnes Philadelphia City	Philadelphia GeoHistory	http://www.philageohistory.org	Interactive Map Viewer	n/a
1856			<i>Nothing found for year</i>		
1857			<i>Nothing found for year</i>		
1858	Hexamer & Locker Atlas	Philadelphia GeoHistory	http://www.philageohistory.org	Interactive Map Viewer	1858-60 Atlas
1859	Hexamer & Locker Atlas	Philadelphia GeoHistory	http://www.philageohistory.org	Interactive Map Viewer	1858-60 Atlas
1860	Hexamer & Locker Atlas	Philadelphia GeoHistory	http://www.philageohistory.org	Interactive Map Viewer	n/a
1861	McElroy's City Directory	Ancestry.com	Login required	City Directories Database	663-678
1862	Smedley Philadelphia Atlas	Philadelphia GeoHistory	http://www.philageohistory.org	Interactive Map Viewer	n/a
1863			<i>Nothing found for year</i>		
1864			<i>Nothing found for year</i>		
1865			<i>Nothing found for year</i>		
1866			<i>Nothing found for year</i>		
1867	Gopsill's City & Business Directory	Ancestry.com	Login required	City Directories Database	19-72

Year	Source	Repository	Link	Collection	Pages/Vol
1868	Gopsill's City & Business Directory	Ancestry.com	Login required	City Directories Database	33-86
1869			<i>Nothing found for year</i>		
1870	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	27-80
1871	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	25-79
1872	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	20-73
1873	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	20-73
1874	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	19-73
1875	G.M. Hopkins Philadelphia Atlas	Philadelphia GeoHistory	http://www.philageohistory.org	Interactive Map Viewer	n/a
1876	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	23-57
1877	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	20-54
1878	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	18-46
1879	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	18-46
1880	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	13-41
1881	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	43-102
1882	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	20-47
1883	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	19-47
1884	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	23-51
1885	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	21-49
1886	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	22-50
1887	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	37-93
1888	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	19-33
1889			<i>Nothing found for year</i>		
1890	U.S. Geological Survey Topo	Philadelphia GeoHistory	http://www.philageohistory.org	Interactive Map Viewer	n/a

Year	Source	Repository	Link	Collection	Pages/Vol
1891	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	35-59
1892	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	25-40
1893	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	19-35
1894	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	22-38
1895	G.W. Bromley Philadelphia Atlas	Philadelphia GeoHistory	http://www.philageohistory.org	Interactive Map Viewer	n/a
1896	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	21-38
1897	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	21-38
1898	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	27-39
1899	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	27-40
1900	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	27-39
1901	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	25-37
1902	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	21-40
1903	Dodd, Mead, and Company Streets	Philadelphia GeoHistory	http://www.philageohistory.org	Interactive Map Viewer	n/a
1904			<i>Nothing found for year</i>		
1905	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	21-40
1906	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	51-69
1907	Gopsill's City Directory	Ancestry.com	Login required	City Directories Database	35-48
1908			<i>Nothing found for year</i>		
1909	Boyd's City Directory	Ancestry.com	Login required	City Directories Database	34-43
1910	G.W. Bromley Philadelphia Atlas	Philadelphia GeoHistory	http://www.philageohistory.org	Interactive Map Viewer	n/a
1911	Boyd's City Directory	Ancestry.com	Login required	City Directories Database	35-42
1912	Boyd's City Directory	Ancestry.com	Login required	City Directories Database	34-40
1913			<i>Nothing found for year</i>		

Year	Source	Repository	Link	Collection	Pages/Vol
1914					
			<i>Nothing found for year</i>		
1915					
			<i>Nothing found for year</i>		
1916	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Philadelphia	1916-29
1917	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Philadelphia	1916-29
1918	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Philadelphia	1916-29
1919	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Philadelphia	1916-29
1920	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Philadelphia	1916-29
1921	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Philadelphia	1916-29
1922	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Philadelphia	1916-29
1923	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Philadelphia	1916-29
1924	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Philadelphia	1916-29
1925	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Philadelphia	1916-29
1926	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Philadelphia	1916-29
1927	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Philadelphia	1916-29
1928	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Philadelphia	1916-29
1929	G.W. Bromley Philadelphia Atlas	Philadelphia GeoHistory	http://www.philageohistory.org	Interactive Map Viewer	n/a
1930	Sanborn Fire Insurance Atlas	Proquest Sanborn Maps	Login required	Philadelphia	1916-29