The Cheap Postage Revolution, 1840 - 1860

This exhibit examines the cost of postage during the era when the idea of cheap postage prepaid by postage stamps or imprinted postal stationery first gained acceptance. Shown are covers franked with single imperforate stamps, or postal stationery entires, without supplemental franking. Each of the items shown either correctly prepays a postal rate for domestic mail, or prepays external mail to the extent prepayment was possible. The type of postal rate for each item is described including the effective date. A

box next to each item gives equivalent postal charge in cents (U.S.) as well as type of service with any distance based rates converted to miles (U.S.) so these aspects can be compared. The various box types used to describe postal rates are delineated at right.

The exhibit is organized by geographic area and then the date stamps were first issued by a country. Europe was the first area that fully embraced the idea of cheap postage with an average cost per letter of 2.2 cents. This was followed by Australia (3.6¢ average), Asia (3.6¢

interior postal rate to mail within country

to 46 miles postal rate by distance mail

local postal rate for mail within a city

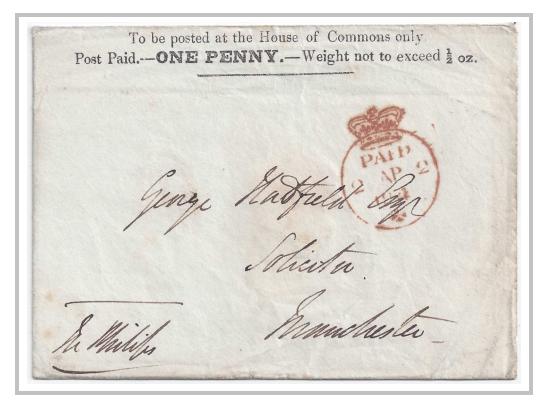
printed matter postal rate for printed matter

foreign postal rate for external mail

average), North America (5.3¢ average), and South America (6.9¢ average). Uses from the various German postal entities and the Italian States are each grouped together and shown by date stamps were first issued. Within a country, the different issues are shown chronologically and include only those face different issues that would be recognized at the time as deliberate design or color changes.

Great Britain 1840 Provisional Entire - 1 penny House of Commons Envelope

interior 1d = 1.8¢



2 April 1840 London to Manchester, provisional envelope signed by Mark Philips, M.P. Domestic Letter Rate to ½ ounce from Jan 10, 1840, any distance

The Act that established uniform penny postage, effective January 10, 1840, also abolished franking of letters by Members of Parliament. As a temporary measure a supply of one penny envelopes were printed and available for purchase by MPs until May 6, 1840 when adhesive stamps and the Mulready stationery items were issued.

Europe

The European countries that issued imperforate stamps or postal stationery during the 1840 to 1860 period are presented in list below by year the stamps were first issued (which is also the order they are presented in exhibit). The cost to send a single weight letter within a European country is shown in third columns. Most countries used a flat rate for letters sent within the country (interior) but if the country used distance based postal rates, the shortest distance rate is used and cost is listed in italics. The cost per letter has been converted to United States currency based on the charts found in *The Merchants' Magazine and Commercial Review, Volume 24, January to June 1851*. The average cost was 2.2 cents.

Year issued	Cost of letter
1840	1d = 1.8¢
1843	(avg.) = 1.1¢
1845	$5k = 3.7\epsilon$
1849	20c = 3.7¢
1849	10c = 1.9c
1849	(avg.) = 1.9¢
1850	6c = 3.6c
	1840 1843 1845 1849 1849

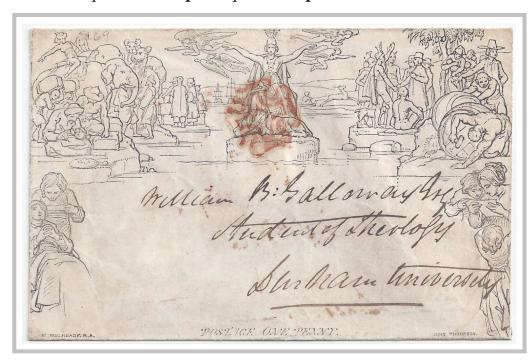
Switzerland	1850	5r = 1.0 c
Austria	1850	3kr = 2.4¢
Italian States	1851	(avg.) = 2.9¢
Denmark	1851	4rbs = 2.1¢
Netherlands	1852	5c = 1.9 c
Luxembourg	1852	10c = 1.9¢
Norway	1855	4s = 3.5¢
Portugal	1856	25r = 2.8¢

Great Britain 1840 Mulready Issue - 1 penny envelope





May 6, 1840 first day backstamp



6 May 1840 Liverpool to Durham University, **First Day Use**, 1d envelope, stereo A178 Domestic Letter Rate to ½ ounce from Jan 10, 1840, any distance



The first issue of stamps and postal stationery was officially placed on sale on May 6, 1840. The Mulready one penny envelopes and letter sheets were sold singly for 1½d and at lesser rates for larger quantities.



1840 Issue - 1 penny

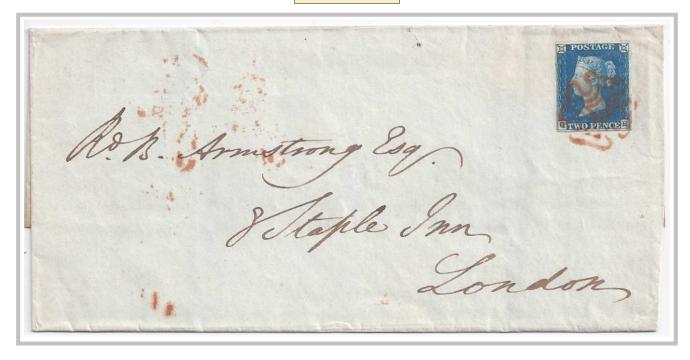
interior 1d = 1.8¢



17 April 1841 Stroud, via Nailsworth, to Sheffield, 1 penny plate 8 Domestic Letter Rate to ½ ounce from Jan 10, 1840, any distance

1840 Issue - 2 pence

interior 2d = 3.6¢



10 June 1840 Settle to London, 2 pence plate 1 Domestic Letter Rate from ½ to 1 ounce from Jan 10, 1840, any distance



1840 Mulready Issue - 1 penny

interior 1d = 1.8¢



16 June 1840 Hull to London, 1d letter sheet, misplaced stereo A688 Domestic Letter Rate to ½ ounce from Jan 10, 1840, any distance

1840 Mulready Issue - 2 pence



interior 2d = 3.6¢

3 August 1840 Keighley, via Bradford Yorks, to Huddersfield, 2d envelope, stereo a198 Domestic Letter Rate from ½ to 1 ounce from Jan 10, 1840, any distance



1841 Issue - 1 penny

interior 1d = 1.8¢



3 July 1853 Ackington to Newcastle on Tyne, 1 penny plate 93, Ocean Penny Post envelope Domestic Letter Rate to ½ ounce from Jan 10, 1840, any distance

1841 Issue - 2 pence



interior 2d = 3.6¢

28 June 1843 London to Leicester, 12 in maltese cross cancel, 2 pence plate 3 Domestic Letter Rate from ½ to 1 ounce from Jan 10, 1840, any distance



1841 Stationery Issue - 1 penny



17 September 1841 Market Rasen to Leamington
21 September 1841 cover reversed with 1d red, plate 14, Leamington maltese cross
Domestic Letter Rate to ½ ounce from Jan 10, 1840, any distance

1841 Stationery Issue - 2 pence

interior 2d = 3.6¢



13 March 1842 local use at Exeter, maltese cross cancel Domestic Letter Rate from ½ to 1 ounce from Jan 10, 1840, any distance



1847 Issue - 1 shilling

foreign 1s = 21.6¢



13 August 1852 Dunstable to Observatory at Grahams Town, Cape of Good Hope, blue cancel prepaid packet rate to Cape Town, inland postage of 4 pence due

Foreign Letter Rate to the Cape of Good Hope from Dec 14, 1850 to Apr 1, 1857, per ½ ounce



foreign 1s = 21.6

25 August 1848 London to New York, United States, by Cunard steamer *Hibernia*, 29¢ due at Boston Foreign Letter Rate to United States during Retaliatory Period, Jun 17 to Dec 16, 1848, per ½ ounce



1848 Issue - 10 pence

foreign 10d = 18.0¢



17 November 1849 London to Barcelona, Spain, prepaid rate via France, 10r postage due Calais entry postmark and French "PF" (Paid Frontier) handstamp, arrival backstamp Foreign Letter Rate to Spain from Jun 1, 1843 to Jan 1, 1857, per ¼ ounce



foreign 10d = 18.0¢

18 December 1854 London to Carentan, France, 10 pence treaty postage prepaid Calais entry postmark and French "PD" (Paid Destination) handstamp, arrival backstamp Foreign Letter Rate to France from Jun 1, 1843 to Dec 31, 1854, per ¼ ounce

Zurich



1843 Cantonal Taxe - 6 rappen

interior 6r = 1.6¢



10 December 1844 Zurich to Bauma, position 71 with retouch in links to left of numeral Cantonal Letter Rate from Mar 1, 1843 to Sep 30, 1854, to 1/2 loth

Geneva



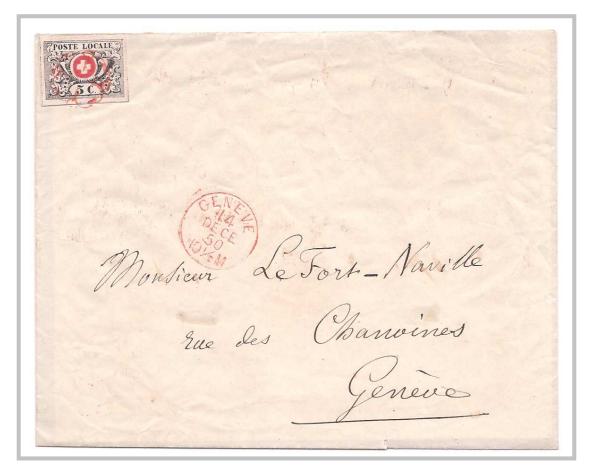
1847 Issue - 5 centimes (sold for 4 centimes)

local 5c = 1.0¢



27 January 1847 Geneva local use, first month of use, adhesives sold at 80% face value to promote use Geneva Local Letter Rate from Sep 3, 1843 to Sep 30, 1849

1850 Poste Locale Issue - 5 centimes



interior 5c = 1.0¢

14 December 1850 Geneva local use Cantonal Letter Rate from Jan 22, 1850 to Sep 30, 1854, to 1/2 loth

Basel



1845 Stadt Post Issue - 2 1/2 rappen

interior $2\frac{1}{2}r = .7$ ¢



7 November 1849 Liverpool printed circular carried out of the mails to Basel 11 December 1849 entered the mail at Basel for local delivery Cantonal Letter Rate from Jul 1, 1845 to Sep 30, 1854, to 1/2 loth



reduced image of Liverpool Cotton Exchange circular

Finland

1856 Issue - 5 kopecks





to 83 miles 5k = 3.7¢

31 October 1859 Helsingfors to Tavastehus, 5 kopecks redrawn, large pearls in posthorn Domestic Letter Rate to 125 verst distance from Jan 1, 1850, to 1.5 loth

1856 Issue - 10 kopecks

over 83 miles 10k = 7.3¢



7 July 1856 Helsingfors to Ny Karleby, 10 kopecks small pearls as originally issued Domestic Letter Rate over 125 verst distance from Jan 1, 1850, to 1.5 loth



1849 / 1850 Issue - 10 centimes

local 10c = 1.9¢



1 July 1853 Guerande local use, rural bureau "A" handstamp (Feriac), late use of 1850 issue, rate change date
Local Letter Rate other than Paris from Jan 1, 1849 to Jun 30, 1853, to 7.5 grams
and local letter rate for all cities from Jul 1, 1853

1849 / 1850 Issue - 15 centimes



local 15c = 2.8¢

24 May 1850 Paris local use Local Letter Rate within Paris only from Jan 1, 1849 to Jun 30, 1853, to 7.5 grams



1849 / 1850 Issue - 20 centimes

interior 20c = 3.7¢



30 March 1850 Mascara, Algeria to Elbeuf, France Domestic Letter Rate, including Algeria, from Jan 1, 1849 to Jun 30, 1850, to 7.5 grams

1849 / 1850 Issue - 25 centimes



interior 25c = 4.6c

1 July 1850 Axat to Montpelier, **first day rate** and **first day of issue** of stamps Domestic Letter Rate from Jul 1, 1849 to Jun 30, 1854, to 7.5 grams



1852 Issue - 10 centimes

local 10c = 1.9¢



17 April 1853 Guerande local use

Local Letter Rate for towns other than Paris, from Jan 1, 1849 to Jun 30, 1853, to 7.5 grams

1852 Issue - 25 centimes



interior 25c = 4.6¢

29 March 1853 Mansle to Saintes, cursive "15 Cellefroin" handstamp Domestic Letter Rate from Jul 1, 1849 to Jun 30, 1854, to 7.5 grams



1853 / 1854 Issue - 10 centimes

local 10c = 1.9¢



23 January 1857 Paris local use Local Letter Rate for all cities after Jul 1, 1853, to 7.5 grams

1853 / 1854 Issue - 20 centimes



interior 20c = 3.7¢

10 February 1859 Paris to Elbert Domestic Letter Rate from Jul 1, 1854, to 7.5 grams

German States

Postal service in the old German States was a combination of Royal or Government posts and the Thurn and Taxis Post, a privately owned mail system headquartered in Frankfurt am Main that served areas that did not otherwise have postal service. The German states that issued postage stamps before 1860 are shown on map and listed in table.

The German - Austrian Postal Union (GAPU) was formed in 1851 and included Austria, Luxembourg as well as most of the larger German States and the Thurn and Taxis Post.



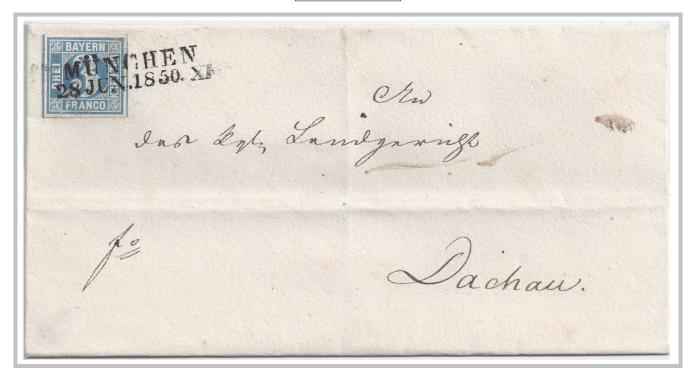
German States / year stamps first issued		
Baden (Grand Duchy)	1851	
Bavaria (Kingdom)	1849	
Bremen (Free City)	1855	
Brunswick (Grand Duchy)	1852	
Hamburg (Free City)	1859	
Hanover (Kingdom)	1850	
Lübeck (Free City)	1859	
Mecklenburg - Schwerin (Grand Duchy)	1856	
Oldenburg (Grand Duchy)	1852	
Prussia (Kingdom)	1850	
Saxony (Kingdom)	1850	
Schleswig - Holstein (Autonomous to 1851)	1850	
Württemberg (Kingdom)	1851	

Thurn and Taxis Post Service Areas		
(Northern Areas)	(Southern Areas)	
Hesse - Cassel	Hesse - Darmstadt	
Saxe - Weimar - Eisennach	Nassau	
Saxe - Gotha	Hesse - Homberg	
Lippe - Detmold	Frankfurt am Main	
Lippe - Schaumbug	Saxe - Coburg	
Gera	Saxe - Coburg	
Greiz	Saxe - Meiningen	
Hamburg (before 1859)	Schwarsburg - Rudolstadt	
Bremen (before 1855)	Hohenzollern - Hechingen	
Lübeck (before 1859)	Hohenzollern - Sigmaringen	
Camburg		
Thurn and Taxis post first issued stamps in 1851		

Bavaria

1849 Issue - 3 kreuzer

to 67 miles 3kr = 1.5¢



28 June 1850 Munich to Dachau, used **two days before rate period ended** Domestic Letter Rate to 12 meilen from Jul 1, 1849 to Jun 30, 1850, to 1 loth

1849 Issue - 6 kreuzer

over 67 miles 6kr = 3.0¢



2 November 1849 Bamberg to Regensburg, **second day of use** of stamp Domestic Letter Rate over 12 meilen from Jul 1, 1849 to Jun 30, 1850, to 1 loth

Bavaria



1850 Issue - 9 kreuzer

foreign 9kr = 4.5¢



1 June 1855 Nurnberg to Elberfeld (in the independent City of Wuppertal) Foreign Letter Rate to GAPU over 20 meilen from Jun 1, 1850 to Sep 30, 1858 per loth

1850 Issue - 9 kreuzer



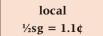
foreign 9kr = 4.5¢

3 August 1858 registered letter from Munich to Elberfeld, due $\frac{1}{2}$ sg Foreign Letter Rate to GAPU over 20 meilen from Jun 1, 1850 to Sep 30, 1858 per loth

Prussia



1850 Issue - ½ silbergrochen (6 pfennigs)





19 July 1859 Coeln local use Local Letter Rate from Nov 15, 1850

1856 Issue - 4 pfennigs



printed matter 4pfg = 1.1 ¢

24 June 1856 printed circular entered mails at Berlin Stadtpost Printed Matter Rate from Nov 15, 1850

Prussia



1855 Stationery Issue - 3 silbergrochen

foreign 3sg = 6.8¢



24 August 1855 Coeln to Brussels, Belgium Foreign Letter Rate to Belgium 10 to 20 meilen from Jan 1, 1852, per loth

1857 Issue - 3 silbergrochen



foreign 3sg = 6.8

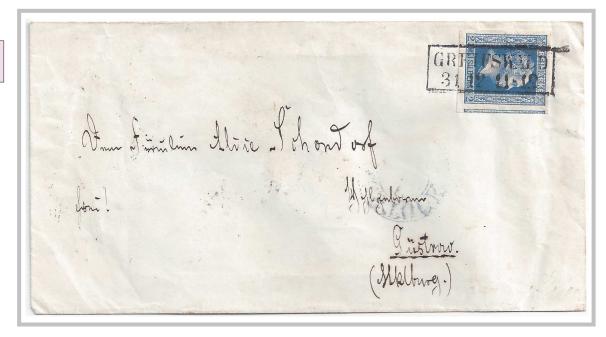
18 May 1858 Aachen to Brussels, Belgium Foreign Letter Rate to Belgium 10 to 20 meilen from Jan 1, 1852, per loth

Prussia



1857 Issue - 2 silbergrochen

foreign 2sg = 4.5



31 December 1857 Greifswald to Güstrow, Mecklenburg - Schwerin Foreign Letter Rate to GAPU 10 to 20 meilen from Jun 1, 1850 to Sep 30, 1858 per loth

1858 Issue - 3 silbergrochen



foreign 3sg = 6.8

17 October 1859 Deutz to Osnabrück, Hanover Foreign Letter Rate to GAPU over 20 meilen from Jun 1, 1850 to Sep 30, 1858 per loth

Hanover



1850 Issue - 1 gutegrochen

interior 1ggr = 2.8¢



14 June 1852 Herzlacke to Meppen Domestic Letter Rate to any distance from Oct 1, 1850 to Sep 30, 1858, to 1 zolloth

1851 Issue - 1/30 thaler



foreign 1/30 thaler = 2.3¢

1 September 1852 Glandorf to Münster, Prussia, 1/30 thaler corner copy with numeral 10 Foreign Letter Rate to GAPU to 10 meilen from Jun 1, 1850 to Sep 30, 1858 per loth

Hanover



1851 Issue - 1/30 thaler

foreign 1/30 thaler = 2.3¢



9 January 1853 Schladen to Wolfenbüttel, Brunswick Foreign Letter Rate to GAPU to 10 meilen from Jun 1, 1850 to Sep 30, 1858 per loth

1851 Issue - 1/10 thaler



foreign 1/10 thaler = 6.8¢

3 March 1853 Göttingen to Frankfurt am Main, Hesse (served by Thurn & Taxis Post) Foreign Letter Rate to GAPU over 20 meilen from Jun 1, 1850 to Sep 30, 1858 per loth

Hanover



1859 Issue - 1 grochen

interior 1gr = 2.8¢



1 May 1859 Bremen to Osnabrück Domestic Letter Rate to 1 zolloth from Oct 1, 1858 per zolloth(1.13 loth)

1859 Issue - 2 grochen



foreign 2gr = 5.6 ¢

12 July 1859 Osnabrück to Bochum (Prussia)

Foreign Letter Rate to GAPU from 10 to 20 meilen from Jun 1, 1850 to Sep 30, 1858 per loth

Württemberg



1851 Issue - 3 kreuzer

to 66 miles 3kr = 1.9¢



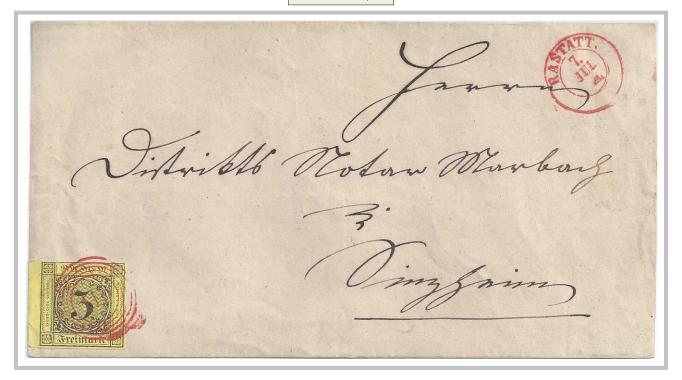
5 November 1854 Biberach to Bad Buchau Domestic Letter Rate to 12 meilen from Jan 1, 1850, per loth

Baden

1851 Issue - 3 kreuzer

to 55 miles 3kr = 2.0¢





7 July 1852 Rastatt to Sinsheim, red numeral 115 in rings cancel Domestic Letter Rate to 10 meilen from May 1, 1851, per loth

1851 Issue - 6 kreuzer



foreign 6kr = 3.9¢

3 August 1851 Mannheim to Zweibrucken, Bavaria, numeral 87 in rings cancel Foreign Letter Rate to GAPU 10 to 20 meilen from Jul 1, 1850, per loth

Baden



1853 Issue - 1 kreuzer

local 1kr = 0.7¢



3 Oct 1859 Bernau to St Blasien in same local district, cogged numeral 16 mail box Local Letter Rate within local district from May 1, 1851, per loth

1858 Issue - 3 kreuzer



foreign 3kr = 2.0¢

9 November 1859 Mannheim to Frankfurt am Main, Hesse (served by Thurn & Taxis Post) Foreign Letter Rate to GAPU to 10 meilen from Jul 1, 1851, per loth

Brunswick



1852 Issue - 3 silbergrochen

over 67 miles 3sg = 8.0¢



6 November 1854 Braunschweig to Bramsche Domestic Letter Rate over 20 meilen from Jan 1, 1852 to Feb 3, 1856, to 1 loth

Thurn and Taxis Postal Service



1852 Issue - ½ silbergrochen

printed matter ½sg = 1.1¢



11 November 1852 printed circular Weimar to Stotternheim (both located Sachsen-Weimar)

Domestic Printed Matter Rate for any distance from Jan 1, 1852

The Thurn and Taxis Post was a private postal system that operated in areas of Germany that did not otherwise have postal service. As a member of the GAPU, it issued stamps denominated in silbergrochen for use in northern areas and denominated in kreuzer for use in southern areas.

Thurn and Taxis Postal Service



1852 Issue - 2 silbergrochen

55 to 110 miles 2sg = 4.5¢



18 November 1853 Cassel to Frankfurt (both cities in Hessen-Kassel) Domestic Letter Rate between 10 and 20 meilen from Jan 1, 1852, per loth

1852 Issue - 3 silbergrochen



foreign 3sg = 6.8

5 December 1857 Gera (Principality of Gera) to Cologne, Prussia Foreign Letter Rate to GAPU over 20 meilen from Jan 1, 1852, per loth

Oldenburg

1852 Issue - 1/30 thaler



foreign 1/30 thaler = 2.3¢

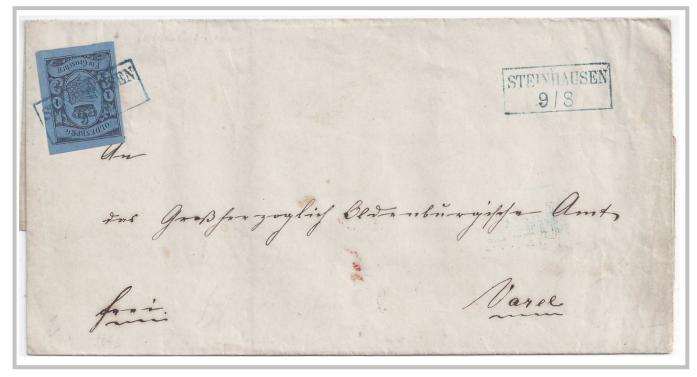


28 June 1854 Seefeld to Obenstrohe (Saxony)

Foreign Letter Rate to GAPU to 10 meilen from Jun 1, 1852 to Sep 30, 1858 per loth

1859 Issue - 1 grochen

foreign 1/30 thaler = 2.3¢



9 August 1855 Steinhausen to Varel (Saxony) Foreign Letter Rate to GAPU to 10 meilen from Jan 1, 1852 to Sep 30, 1858 per loth

Belgium



1849 Issue - 10 centimes

to 19 miles 10c = 1.9¢



3 August 1849 Berzele, rural box origin, to Steenhuysen Domestic Letter Rate for distance to 30 km from Jul 1, 1849, to 10 grams

1849 Issue - 20 centimes



over 19 miles 10c = 3.7¢

20 November 1849 Gand to Iseghem Domestic Letter Rate for distance over 30 km from Jul 1, 1849, to 10 grams

Belgium



1849 / 1850 Issue - 10 centimes

to 19 miles 10c = 1.9¢



17 October 1851 Gosseliers to Thuin, 10 centimes with ambulant M.VI in vertical bars Domestic Letter Rate to 30 km from Jul 1, 1849, to 10 grams

1849 / 1850 Issue - 20 centimes



over 19 miles 10c = 3.7¢

13 November 1850 Gand to Bruxelles, 20 centimes corner copy (position 1) Domestic Letter Rate for distance over 30 km from Jul 1, 1849, to 10 grams

Spain



1850 Issue - 6 cuartos

interior 6c = 3.6¢



19 February 1850 Valencia to Orense Domestic Letter Rate from Jan 1, 1850 to Dec 31, 1855, to $\frac{1}{4}$ ounce

1851 Issue - 6 cuartos



interior 6c = 3.6¢

19 September 1851 Caba. Del Buey Estremadura Baxa to Merida Domestic Letter Rate from Jan 1, 1850 to Dec 31, 1855, to 1/4 ounce

Spain



1856 Issue - 4 cuartos

interior 4c = 2.4¢



1 January Barcelona to Vich, **first day rate** and **first day of issue** of stamp Domestic Letter Rate from Jan 1, 1856, to ½ ounce



1850 Issue - 5 rappen

Rayon I 5r = 1.0¢



18 November 1850 Lausanne to Moundon

Domestic Letter Rate within Rayon I distance from Oct 1, 1850 to Sep 30, 1854, to 1/2 loth

1850 Issue - 10 rappen



Rayon II 10r = 2.0¢

10 April 1853 Altorf to Luzern

Domestic Letter Rate within Rayon II distance from Oct 1, 1850 to Sep 30, 1854 to 1/2 loth



1851 Issue - 5 rappen

Rayon I 5r = 1.0¢



24 May 1854 KEISERSTUHL ROUTE to Zurzach Domestic Letter Rate within Rayon I distance from Oct 1, 1850 to Sep 30, 1854 to 1/2 loth

1852 Issue - 15 rappen



Rayon III 15r = 2.9¢

24 September 1852 Basel to Bern

Domestic Letter Rate within Rayon III distance from Oct 1, 1850 to Sep 30, 1854, to 1/2 loth



1854 Issue - 5 rappen

Rayon I 5r = 1.0¢



27 April 1855 Marin to Neuchatel, 5 rappen Munich print Domestic Letter Rate for Rayon I distance from Oct 1, 1854, to 1/2 loth

1854 Issue - 10 rappen



Rayon II 10r = 2.0¢

2 December 1855 Fribourg to Romont, 10 centimes Bern print Domestic Letter Rate for Rayon II distance from Oct 1, 1854, to 1/2 loth



1854 Issue - 15 rappen

Rayon III 15r = 2.9¢



18 May 1855 Chur to Brigels, 15 rappen Munich print Domestic Letter Rate for Rayon III distance from Oct 1, 1854, to 1/2 loth

1854 Issue - 40 rappen



foreign 40r = 5.8¢

28 March 1857 Bern to Havre, France, 40 rappen Bern print Foreign Letter Treaty Rate from Oct 1, 1854, to 1/2 loth



1850 Issue - 1 kreuzer

printed matter 1k = .8¢



4 September 1855 Triest printed circular used locally Domestic Printed Circular Rate to any distance from Jun 1, 1850 to Oct 31, 1858, per loth

1850 Issue - 2 kreuzer



local 2kr = 1.6¢

14 December 1850 Wien local use, mute Stadtpost cancel Local Letter Rate within district from Jun 1, 1850 to Oct 31, 1858, any weight



1850 Issue - 3 kreuzer

to 46 miles 3kr = 2.4¢



17 November 1854 Perchtoldsdorf to Wien

Domestic Letter Rate for distance to 10 meilen from Jun 1, 1850 to Oct 31, 1858, per loth

1850 Issue - 6 kreuzer

return receipt fee 6kr = 4.8¢



20 August 1853 retun receipt card for registered letter Pilgram (Czech Republic) to Kolin (Czech Republic) Return Receipt Fee for interior mail from Jun 1, 1850 to Oct 31, 1858



1850 Issue - 9 kreuzer

over 92 miles 9kr = 7.2¢



23 July 1850 Neupacka to Wien

Domestic Letter Rate for distance over 20 meilen from Jun 1, 1850 to Oct 31, 1858, per loth

1850 Issue - 9 kreuzer

Used from Ottoman Empire



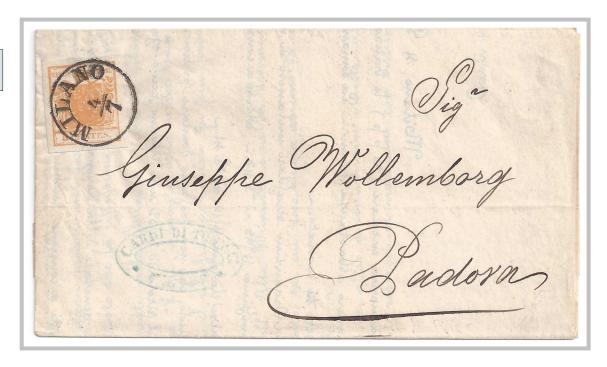
over 92 miles 9kr = 7.2¢

30 October 1851 Banjaluka (Bosnia) privately to Kostainiza (Croatia) and mail to Trieste Domestic Letter Rate for distance over 20 meilen from Jun 1, 1850 to Oct 31, 1858, per loth



1850 Lombardy Venetia Issue - 5 centesimi

printed matter 5c = .8



4 July 1857 Milano to Padova, printed circular Domestic Printed Circular Rate to any distance from Jun 1, 1850 to Oct 31, 1858, per loth

1850 Lombardy Venetia Issue - 10 centesimi



local 10c = 1.6¢

18 August 1854 Verona use to Borolone (within city district) Local Letter Rate within district from Jun 1, 1850 to Oct 31, 1858, any weight



1850 Lombardy Venetia Issue - 15 centesimi

to 46 miles 15c = 2.4¢



27 January 1850 Rovigo to Dolo, first month use Domestic Letter Rate for distance to 10 meilen from Jun 1, 1850 to Oct 31, 1858, per loth

1850 Lombardy Venetia Issue - 30 centesimi



46 to 92 miles 30c = 4.8¢

23 October 1850 Treviso to Montova

Domestic Letter Rate for 10 to 20 meilen distance from Jun 1, 1850 to Oct 31, 1858, per loth



1850 Lombardy Venetia Issue - 45 centesimi

over 92 miles 45c = 7.2¢



2 January 1851 Venezia, Lombardy - Venezia to Klangenfurth, Austria Domestic Letter Rate for distance over 20 meilen from Jun 1, 1850 to Oct 31, 1858, per loth

1851 Newspaper Issue for Austria & Lombardy Venetia - blue stamp



newspaper .6k = 2.9¢

12 September (1851) Padova, newspaper band to Padova, Lombardy - Venetia Newspaper Rate when 10 stamps purchased from Jun 1, 1850 to Oct 31, 1858, any distance

Austrian newspaper stamps, which had to be purchased in minimum quantity of ten, were valid for use in both Austria and Lombardy - Venetia. The blue stamp was valued at 3 centesimi or .6 kreuzer.

Denmark



1851 Issue - 2 rigsbankskilling

local 2rbs = 1.1¢



10 May 1853 Copenhagen local use, Thiele print Local Letter Rate for mail within local district from Apr 1, 1850 any weight

1851 Issue - 4 rigsbankskilling



interior 4rbs = 2.1¢

21 June 1851 Kjöge to Slagelse, Ferslew print Domestic Letter Rate any distance from Apr 1, 1850, per loth

Denmark



1854 Issue - 4 skilling

interior 4s = 2.1¢



25 April 1859 Holstein railway office to Lehe, Schleswig-Holstein, numeral 169 cancel Danish stamps were in use in Schleswig-Holstein from July 1, 1853 until 1864 Domestic Letter Rate any distance after currency renamed on Feb 10, 1854, per loth

1855 Issue - 2 skilling



 $\begin{aligned} & local \\ & 2s = 1.1 \\ & \end{aligned}$

13 October 1858 Copenhagen local use Local Letter Rate after currency renamed on Feb 10, 1854, any weight

Italian States

Between the end of the Austro - Sardinian War of 1859 and 1862, the several Italian States as well as the former Austrian Province of Lombardy were annexed to Sardinia or had formed Provisional governments. The exceptions were the Papal States, which was reduced to the Holy See of Rome, and Venezia which remained an Austrian Province until 1866.



Italian States / year stamps first issued		
Modena (Grand Duchy)	1852	
Modena (Provisional Government)	1859	
Parma (Duchy)	1852	
Parma (Provisional Government)	1859	
Romagna (Provisional Government)	1859	
Papal States (Holy See)	1852	
Sardinia (Kingdom)	1851	
Naples (Independent Kingdom)	1858	
Sicily (Independent Kingdom)	1859	
Tuscany (Grand Duchy)	1851	

Sardinia



1851 Issue - 20 centesimi

interior 20c = 3.7¢



22 July 1853 Chambery to Samoens (issue valid for postage until Sep 30, 1853)

Domestic Letter Rate for any distance from Jan 1, 1851, per 7.5 grams

1853 Issue - 20 centesimi



interior 20c = 3.7¢

10 June 1854 Torino to Chiusa de Cuneo Domestic Letter Rate for any distance from Jan 1, 1851, per 7.5 grams

Sardinia



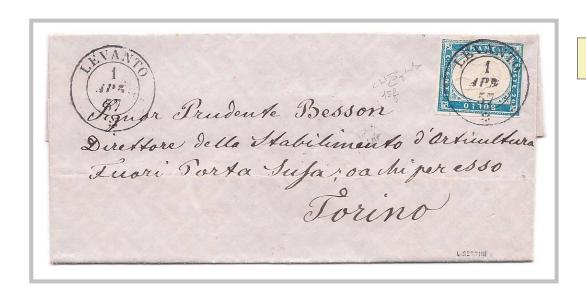
1854 Issue - 20 centesimi

interior 20c = 3.7¢



23 December 1855 Pontestura to Vercelli Domestic Letter Rate for any distance from Jan 1, 1851, per 7.5 grams

1855 Issue - 20 centesimi



interior 20c = 3.7¢

21 April 1857 Levanto to Torino Domestic Letter Rate for any distance from Jan 1, 1851, per 7.5 grams

Sardinia



1855 Issue - 5 centesimi

 $\begin{aligned} & local \\ & 5c = 0.9 \\ \end{aligned}$



31 December 1859 Torino local use Local Letter Rate within local district from Jan 1, 1851, per 7.5 grams

Tuscany



1851 Issue - 1 crazia

printed matter 1cr = 1.4¢



13 June 1854 Firenze printed circular wrapper to San Giovanni in Val d'Arno Printed Circular Rate from Apr 1, 1851 to Dec 31, 1859, any weight

1851 Issue - 2 crazie



to 46 miles 2cr = 2.7¢

2 July 1852 Livorno to Massa Carrara

Domestic Letter Rate to 40 miglia from Apr 1, 1851 to Dec 31, 1859, per 12 denari (13.8 grams)

Tuscany



1851 Issue - 4 crazie

46 to 92 miles 4cr = 5.4¢



14 March 1853 Pomarance to Pontremoli Domestic Letter Rate 40 to 80 miglia from Apr 1, 1851 to Dec 31, 1859, per 12 denari

1851 Issue - 6 crazie

foreign 6cr = 8.2¢



15 September 1853 Livorno, via Sardinia and Geneva, to Genova, Austrian Lombardy-Venetia Foreign Letter Rate to Austria over 150 km, from Apr 1, 1851 to Dec 31, 1859, per 17.6 denari

Papal States



1852 Issue - 2 bajocci

adjoining district 2baj = 2.0¢



5 October 1858 Citta della Pieve, via Orvieto, to Montefiascone (both in Marche region) Domestic Letter Rate to adjoining district in same region from Oct 1, 1852, per sheet

1852 Issue - 3 bajocci



same region 3baj = 3.0¢

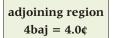
26 May 1855 Montalbaddo to Urbino (both in Marche region)

Domestic Letter Rate to non-adjoining postal district in same region from Oct 1, 1852

Papal States



1852 Issue - 4 bajocci





22 May 1855 Fano to Spoleto (Marche region to Umbria region)

Domestic Letter Rate to adjoining region second postal district from Oct 1, 1852

1852 Issue - 6 bajocci



insured adjoining region 6baj = 6.0¢

12 November 1852 Foligno insured to Spoleto (Marche region to Umbria region)
Insured Domestic Letter Rate to adjoining region second postal district from Oct 1, 1852

Modena



1852 Issue - 5 centesimi

to 46 miles 5c = .9¢



6 January 1855 Modena to Reggio, 5 centesimi first composition without dot after value Domestic Letter Rate to 10 leghe from Jun 1, 1852 to Oct 31, 1859, per 8.75 grams



to 46 miles 5c = .9¢

16 March 1857 Reggio to Modena, 5 centesimi second composition with dot after value Domestic Letter Rate to 10 leghe from Jun 1, 1852 to Oct 31, 1859, per 8.75 grams

Modena



1852 Issue - 10 centesimi

46 to 92 miles 10c = 1.7¢



5 October 1853 Reggio to Modena

Domestic Letter Rate 10 to 20 leghe from Jun 1, 1852 to Oct 31, 1859, per 8.75 grams

1852 Issue - 40 centesimi



foreign 40c = 6.8¢

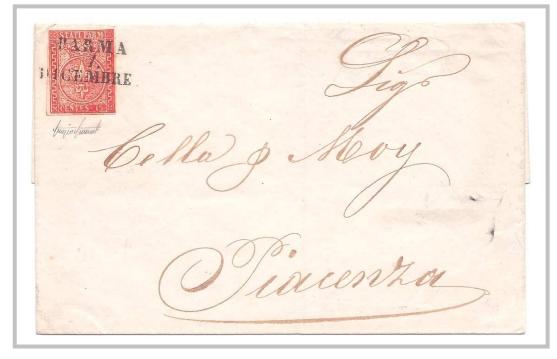
12 April 1855 Modena via Sanguinetto (Lombardy-Venetia) to Villaco (Villach), Austria Foreign Letter Rate to Austrian Empire, over 20 leghe, from Jun 1, 1852, per 17.5 grams

Parma



1852 Issue - 15 centesimi

foreign 15c = 2.8¢



l December 1854 Parma to Piacenza, Sardinia Foreign Letter Rate to Sardinia to 10 leghe, from Jun 1, 1852 to Jul 31, 1859, per 8.75 grams

1859 Issue - 25 centesimi



foreign 15c = 4.6¢

10 May 1859 Fiorenzuola to Milano, Lombardy-Venetia Foreign Letter Rate to Austrian Empire, 10 to 20 leghe, to Jul 31, 1859, per 17.5 grams

Two Sicilies



1858 Kingdom of Naples Issue - 1 grana





22 December 1859 Castrovillari to Cerchiara, local district use Local Letter Rate within district from Jan 1, 1858, to 3 sheets

1858 Kingdom of Naples Issue - 2 grana



interior 2g = 1.7¢

16 January 1858 Naples to Campobasso per S. Elia, plate I, double transfer Domestic Letter Rate from Jan 1, 1858, one sheet

Two Sicilies



1858 Kingdom of Naples Issue - 2 grana

interior 2g = 1.7 ¢



14 March 1859 Naples, via Palermo to Siracusa, canceled upon arrival at Palermo Domestic Letter Rate from Jan 1, 1858, one sheet

1859 Sicily Issue - 2 grana



interior 2g = 1.7¢

15 February 1859 Palermo to Messina Domestic Letter Rate from Jan 1, 1858, one sheet

Parma (Provisional Government)



1859 Issue - 20 centesimi

interior 20c = 3.7¢



28 December 1859 Piacenza to Milano Domestic Letter Rate for the Kingdom from Aug 27, 1859, per 8.75 grams

Romagna (Provisional Government)



1859 Issue - 1 bajocco

same district

1baj = 1.0¢



15 October 1859 Copparo to Ferrara Domestic Letter Rate within same district from Sep 1 to Oct 31, 1859, per sheet

1859 Issue - 3 bajocci



same region
3baj = 3.0¢

15 September 1859 Firenze to Bologna

Domestic Letter Rate non-adjoining postal district in same region from Sep 1 to Oct 31, 1859

Modena (Provisional Government)



1859 Issue - 20 centesimi

interior 20c = 3.7¢



l December 1859 Modena to Ferrara Domestic Letter Rate for the Kingdom from Oct 15, 1859, per 8.75 grams

Netherlands

1852 Issue - 5 cents



to 90 miles 5c = 1.9¢



9 October 1858 Haarlem to Wormerveer, 5 cents plate III Domestic Letter Rate to 30 Dutch miles from Jan 1, 1852

1852 Issue - 10 cents



90 to 300 miles 10c = 3.8¢

27 February 1852 Amsterdam to Rotterdam, 10 cents plate I Domestic Letter Rate for 30 to 100 Dutch miles from Jan 1, 1852 to Aug 31, 1855

Netherlands



1852 Issue - 15 cents

over 300 miles 15c = 5.7c



3 July 1854 Goor to Amsterdam Domestic Letter Rate for over 100 Dutch miles from Jan 1, 1852 to Aug 31, 1855

1852 Issue - 10 cents



over 90 miles 10c = 3.8¢

31 October 1858 Hellevoetsluis to Deventer Domestic Letter Rate for over 30 Dutch miles from Sep 1, 1855

Norway



1855 Issue - 4 skilling

interior 4s = 3.5¢



29 February 1856 Trondheim to Steinkjer Domestic Letter Rate from Jan 1, 1855

Luxembourg



1852 Issue - 10 centimes

interior 10c = 1.9¢



14 June 1853 Remich to Luxembourg City, 10c first printing, mute cancel Domestic Letter Rate from Jan 1, 1849, per 10 grams

1852 Issue - 1 silbergrochen



foreign 1sg = 19.0

31 August 1860 Luxembourg City to Thier, Germany, 1sg from 1858 (eighth) printing Foreign Letter Rate to GAPU countries from Jan 1, 1852, per 10 grams

Australia

The cost to send a single weight letter within a country in the continent of Australia is shown in tabular form below. All of the countries used blanklet postal rates for letters sent within the country. The cost per letter has been converted to United States currency based on the charts found in *The Merchants' Magazine and Commercial Review, Volume 24, January to June 1851*. The average cost was 3.6 cents.

Country	Year issued	Cost of letter
Victoria	1850	2d = 3.6¢
New South Wales	1850	2d = 3.6¢
South Australia	1855	2d = 3.6¢

Victoria



1850 Issue - 2 pence

interior 2d = 3.6¢



18 April 1850, Geelong, Port Phillip District to Melbourne
2 pence third printing, numeral 15 cancel of Geelong
Domestic Letter Rate for any distance from Jan 1, 1850, per 1/2 ounce

New South Wales



interior 2d = 3.6 ¢

1850 Issue - 1 penny



28 November 1851 Sydney local use printed circular, "6 OCLOCK" delivery, 1d position 15 (no clouds)

Local Letter Rate from Jan 1, 1851

1850 Issue - 2 pence



26 April 1850 Sydney to Wollongong, 2 pence plate II with dated bale Domestic Letter Rate from Jan 1, 1851, to ½ ounce

New South Wales



1850 Issue - 3 pence

foreign 3d = 5.4¢





27 April 1853 Sydney to London, England, Sydney Ship Letter backstamp, 8d due Foreign Outbound Ship Letter Rate from Jan 1, 1850 to Oct 19, 1853, to $\frac{1}{2}$ ounce

1854 Issue - 3 pence



foreign 3d = 5.4¢

2 January 1855 Sydney to Melbourne, Victoria, Victoria Ship Letter backstamp Foreign Letter Rate to Victoria and neighboring colonies from Oct 20, 1853, to ½ ounce

New South Wales



1854 Issue - 6 pence

foreign
6d = 10.8¢



25 November 1856 Sydney per "Maid of Judah" to London, England, Plymouth Ship Letter backstamp Foreign Letter Rate to Great Britain from 1854, to ½ ounce

1856 Registry Issue - (6 pence)



registered foreign 12d = 21.6¢

18 June 1857 Sydney registered to Farringdon, England, Registered G.P.O. and "6" pence due Registry Rate of 6d plus 6d packet postage to Great Britain, to ½ ounce

Asia

The cost to send a single weight letter within a country in Asia is shown in tabular form below. All of the countries used blanklet postal rates for letters sent within the country. The cost per letter has been converted to United States currency based on the charts found in *The Merchants' Magazine and Commercial Review, Volume 24, January to June 1851*. The average cost was 3.6 cents.

Country	Year issued	Cost of letter
Russia	1844	10k = 7.5¢
Netherlands Indies	1845	5c = 1.9¢
India	1854	½a = 1.4¢

Russia 1848 Stationery Issue - 10 kopecks plus 1 kopeck for envelope

interior 10k = 7.5¢



14 November 1854 Grodno (now Poland) via Opoczno to Radoszyce (Poland), eagle with narrow tail imprint

Domestic Letter Rate to any distance from Jan 1, 1848, per 1.5 loth

Russia



1857 Issue - 10 kopecks

interior 10k = 7.5¢





23 June 1858 Kovno (now Lithuania) to St. Petersburg Domestic Letter Rate to any distance from Jan 1, 1848, per 1.5 loth

Netherlands Indies



1845 Issue - Batavia postage due label (in koper)

foreign 2f 16k = 49.5¢



22 June 1846 Gravenhage, Netherlands to Batavia, Java, Netherlands Indies 13 August 1846 Batavia postage due of 2 florin 16 kopers Letter Rate for unpaid letters received at Batavia from abroad

1846 Issue - Batavia postage due label (in duiten)



foreign 2f 16d = 49.5¢

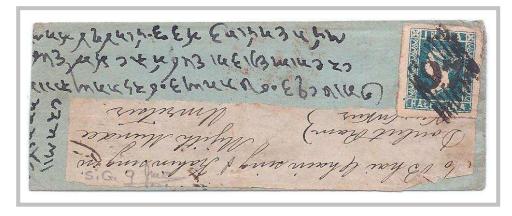
15 September 1846 Arnhem, Netherlands to Semarang, Java, prepaid to frontier
13 November 1846 Batavia postage due of 2 florin 16 duitens
Letter Rate for unpaid letters received at Batavia from abroad

India



1854 Issue - ½ anna

interior
½a = 1.4¢



13 September 1856 Sukkur to Amristar, $\frac{1}{2}$ anna die III Domestic Letter Rate any distance from Oct 1, 1854, to quarter tola weight

1854 Issue - 4 annas



foreign 4a = 11.2¢

19 October 1856 Madras to Edinburgh, Scotland, 4 annas fourth printing India Paid in crescent moon, London Paid transit, arrival backstamp Foreign Letter Rate to Great Britain from Feb 1, 1856, to ½ ounce

North America

The North American countries that issued imperforate stamps or postal stationery during the 1840 to 1860 period are presented in list below by year the stamps were first issued. The cost to send a single weight letter within a country is shown in the third column. Most countries used a flat rate for letters sent within the country except the United States which used distance based postal rates. The shortest distance rate is used and cost is listed in italics. The cost per letter has been converted to United States currency based on the charts found in *The Merchants' Magazine and Commercial Review, Volume 24, January to June 1851*. The average cost was 5.3 cents.

Country	Year issued	Cost of letter
United States	1847	5¢
Canada	1851	3d = 5.4¢
Nova Scotia	1851	3d = 5.4¢
Hawaii	1851	5¢
Spanish Colonies	1855	$\frac{1}{2}r = 5.0$ ¢
Mexico	1856	$\frac{1}{2}r = 6.2$ ¢

United States



Precursor

American Letter Mail Co. 1844 issue - 61/4¢ or "20 for a dollar"

limited cities 5¢



29 February 1844 Boston to Philadelphia, if sent by post office mails letter would have cost 18³/₄¢)

Rate to all cities served from January 25, 1844 to July 1, 1845, per 1/2 ounce

In January 1844 Lysander Spooner founded the American Letter Mail Company to operate a cheap letter express between Philadelphia, Baltimore, New York and Boston to compete with the government postal service. He issued adhesive postage stamps, which he sold for "20 for a dollar," that could be used to prepay fees for service. Other private companies soon entered the "Independent Mail" field until the government reduced the postal rates on July 1, 1845 and eliminated private competition on mail routes between cities.



1847 Issue - 5 cents

to 300 miles 5¢





30 May 1849 Baltimore to Livingston, Virginia Domestic Letter Rate to 300 miles from Jul 1, 1845 to Jun 30, 1851, per 1/2 ounce

1847 Issue - 10 cents



over 300 miles 10¢



2 October 1850 Baltimore to Utica, New York Domestic Letter Rate over 300 miles from Jul 1, 1845 to Jun 30, 1851, per 1/2 ounce



1847 Issue - 10 cents



foreign 10¢



26 April 1851 New York, via Morristown, to Brockville, Canada Foreign Treaty Rate to Canada from Apr 6, 1851 (1847 issue demonetized July 1, 1851), per 1/2 ounce



1851 Issue - 1 cent

local 1¢



15 April 1854 New York "Paid US Mail City Delivery" 1 postmark Local Letter Rate from Jul 1, 1851, any weight

1851 Issue - 3 cents



to 3,000 miles 3¢

28 July 1851 Lowell to Roxbury, Massachusetts, first month of use of stamp Domestic Letter Rate for distances to 3,000 miles from Jul 1, 1851, per 1/2 ounce



1853 Stationery Issue - 3 cents

to 3,000 miles 3¢



26 Jun 1856 Alexandria, Pennsylvania to Cassville, Pennsylvania, post office mails Domestic Letter Rate for distances to 3,000 miles from Jul 1, 1851, per 1/2 ounce



to 3,000 miles 3¢

1856 Marysville, California to San Francisco by Wells, Fargo Express, **private mails**Private mails required to pay equivalent letter rate postage from Sep 20, 1852



1853 Stationery Issue - 6 cents

over 3,000 miles 6¢



16 Aug 1854 San Francisco to Philadelphia, privately via Nicaragua 8 Sep 1854 entered mails at New York for Philadelphia Domestic Letter Rate for distances over 3,000 miles from Jul 1, 1851, to March 31, 1855



1855 Issue - 10 cents

over 3,000 miles



1 April 1856 Auburn, New York to San Francisco, California Domestic Letter Rate for distances over 3,000 miles from April 1, 1855, per 1/2 ounce

1855 Stationery Issue - 10 cents



over 3,000 miles 10¢

8 August 1857 unknown mining camp to Bidwells' Bar, California privately by Whiting & Co's Express
13 September 1857 Bidwells Bar, California to East Longmeadow, Massachusetts by mail
Domestic Letter Rate for distances over 3,000 miles from April 1, 1855, per 1/2 ounce

Canada



1851 Issue - 3 pence

interior 3d = 5.4¢



18 October 1854 posted as loose letter on steamboat route to Kingston, 3 pence on wove Domestic Letter Rate to any distance from Apr 6, 1851, per ½ ounce

1851 Issue - 6 pence



foreign 6d = 10.8¢

9 Jun 1851 Cornwall, Upper Canada to Portland, Maine, laid paper, second month of use Foreign Letter Rate to United States from Apr 6, 1851, per ½ ounce

Nova Scotia



1851 Issue - 3 pence

interior 3d = 5.4¢



6 June 1857 Halifax to Bridgetown Domestic Letter Rate from Jul 6, 1851, per ½ ounce



foreign 3d = 5.4¢

23 July 1855 Amherst to Westmoreland, New Brunswick Foreign Letter Rate to New Brunswick from Jul 6, 1851, per $\frac{1}{2}$ ounce

Nova Scotia



1851 Issue - 3 pence

foreign 3d = 5.4¢



15 August 1855 Annapolis to Montreal, Canada Foreign Letter Rate to Canada from Jul 6, 1851, per $\frac{1}{2}$ ounce

1851 Issue - 6 pence



foreign 6d = 10.8¢

25 October 1851 Halifax to New York, United States, an early use Foreign Letter Rate by land to United States from Jul 6, 1851, per $\frac{1}{2}$ ounce

Hawaii



1859 Issue - 2 cents

interior 2¢





Lahaina to Honolulu canceled upon arrival, 2¢ adhesive Plate 3-D, position 1, raised "I" of "INTER"

Domestic Letter Rate from Aug 1, 1859, per ½ ounce

Spanish Colonies



1855 Issue - ½ real de plata

Use from Puerto Rico

foreign ½r = 5¢



29 May 1858 San Juan, Puerto Rico to Madrid, Spain
outbound ship letter rate paid by adhesive, British packet rate prepaid 1 sh 1d in cash
via London and France, adhesive canceled at Madrid
Foreign Letter Rate for outbound ship mail at port

This issue was distributed for use in Cuba, the Philippines and Puerto Rico.

Mexico



1856 Issue - 1/2 real

interior $\frac{1}{2}r = 6.2$ ¢



17 December 1856 Mexico City to Puebla, used three days prior to rate increase Domestic Letter Rate for interior mail before Dec 20, 1856

1856 Issue - 1 real



interior 1r = 12.5¢

28 July 1859 Soyaniquilpan to Mexico City Domestic Letter Rate for interior mail from Dec 20, 1856

Mexico



1856 Issue - 2 reales

interior 2r = 25¢



1857 Xiquilpan to Mexico City, 2r with Morelia overprint Domestic Letter Rate for interior mail, double weight, from Dec 20, 1856

1856 Issue - 4 reales



interior 4r = 50¢

12 November 1859 Puebla to Vera Cruz Domestic Letter Rate for interior mail, quadruple weight, from Dec 20, 1856

South America

The cost to send a single weight letter within a South American country is shown in tabular form below. If the country used distance basedpostal rates, the shortest distance rate is shown. The cost per letter has been converted distance based o United States currency based on the charts found in *The Merchants' Magazine and Commercial Review, Volume 24, January to June 1851*. The average cost was 6.9 cents.

Country	Year issued	Cost of letter
Brazil	1843	60r = 5.3¢
Chile	1854	5c = 5.0¢
Uruguay	1856	60c = 6.3¢
Buenos Aires	1858	1p = 9.4c
Venezuela	1859	1r = 8.7¢

Brazil



1843 Issue - 60 reis

interior 60r = 5.3¢



20 January 1844 S. Joao Del Rei to Rio de Janeiro Domestic Letter Rate for interior mail by land to May 17, 1849, to 4 oitavas weight

Chile



1854 Issue - 5 centavos

interior 5c = 5.0



14 September 1854 Santiago to Valparaiso, Desmadryl print Domestic Letter Rate for interior mail by land

1854 Issue - 10 centavos



interior 10c = 10.0¢

22 December 1855 Conception to Valparaiso, Desmadryl print Domestic Letter Rate for interior mail by water

Uruguay



1859 Issue - 60 centesimos

interior 60c = 6.3c



14 October 1859 Salto to Montevideo Domestic Letter Rate to any distance from Jun 11, 1859, per 1/4 ounce



interior 60c = 6.3¢

18 November 1859 Paysandú to Montevideo Domestic Letter Rate to any distance from Jun 11, 1859, per 1/4 ounce

Uruguay



1859 Issue - 80 centesimos

interior 80c = 8.3¢



21 December 1859 Salto to Montevideo Domestic Letter Rate to any distance from Jun 11, 1859, per 1/2 ounce

1859 Issue - 100 centesimos



interior 100c = 9.6¢

1859 Mercedes to Montevideo Domestic Letter Rate to any distance from Jun 11, 1859, per 3/4 ounce

Buenos Aires



1859 (Jan 1) Issue - 1 peso

foreign 1p = 9.4¢



12 November 1859 Buenos Aires to Goya, Argentina Foreign Letter Rate to Argentina

1859 (Sep 3) Issue - 1 peso



foreign 1p = 9.4¢

17 December 1859 Buenos Aires to Corrientes, Argentina Foreign Letter Rate to Argentina

Venezuela



1859 Issue - 1 real

interior 1r = 8.7¢



15 February 1859 Valencia to Caracas, second month of use of stamp Domestic Letter Rate for any distance by land from Jan 1, 1859