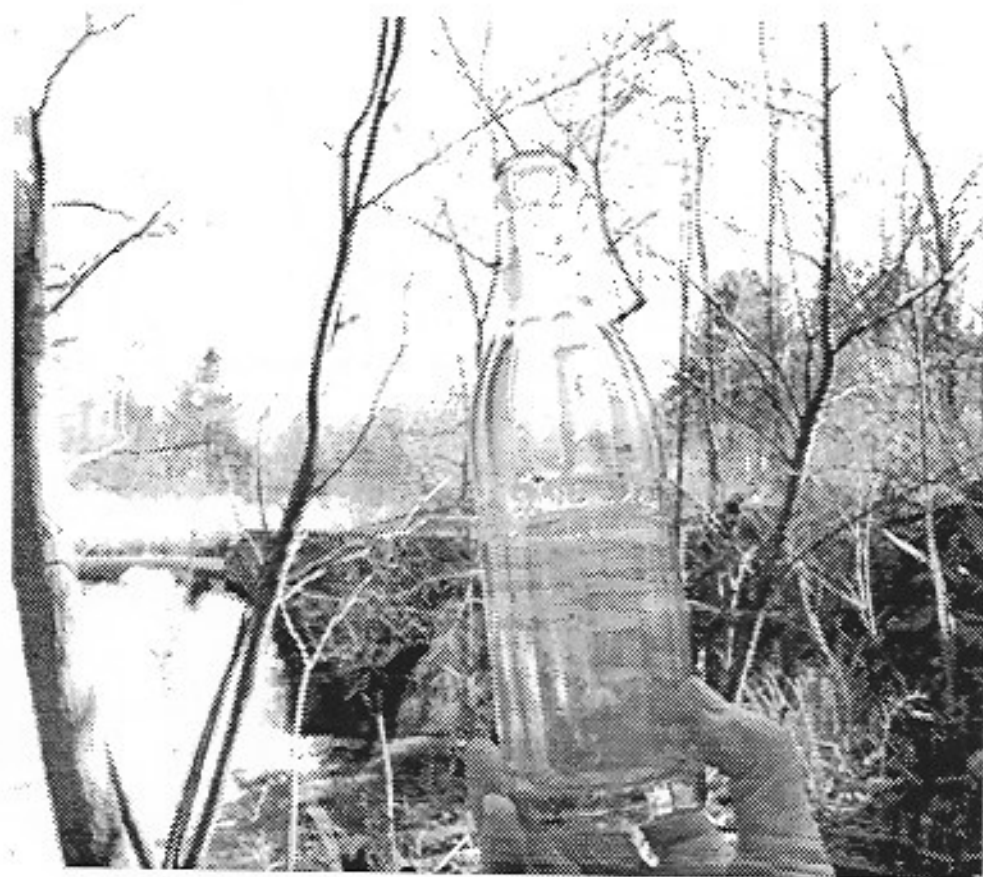


Geographic Integration of Industry on the Wynants Kill, 1816-1911

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The small Wynants Kill is known in the history of water power for Merritt et al. vs. Brinkerhoff et al. (1820) and for the Burden Water Wheel, largest in the world (1851) - events that bracket the first, intense, period of industrialization on the stream (a 'portrait' of the climax is derived from data in the 1855 census of New York state). The mill sites were connected not only by geography and their feudal tenure, but also, vertically, by a cooperative association formed by the lessees of the water privileges (1829), by industrial arrangements, and by community development. Postal indices, generated from the Official Registers (a business data source not widely appreciated) provide the measure and timing of this initial industrialization and the subsequent rejuvenations of livelihood in Wynants Kill watershed.



A Sand Lake Springs bottle was recently retrieved at the site of the last industry at water privilege #10 on the Wynants Kill. The soda water business (1926-1960), used a nearby natural mineral spring and the stream water solely for washing bottles. But it occupied an industrial site that had been a grist and cider mill before 1820 - destroyed by flood in 1891 and not rebuilt, the decreasing demand for grain processing and apple pressing met by a similar mill at nearby water privilege #11 which continued operating until the 1950s. The falls were then harnessed for a hydro-electric plant (1911-1924) to provide light from dusk to 11 p.m. for the hamlet of West Sand Lake (the first light bulb to be installed was over the pool hall at the local hotel). Both the electricity and the flavored soda water were marketed as attractions to summer visitors.

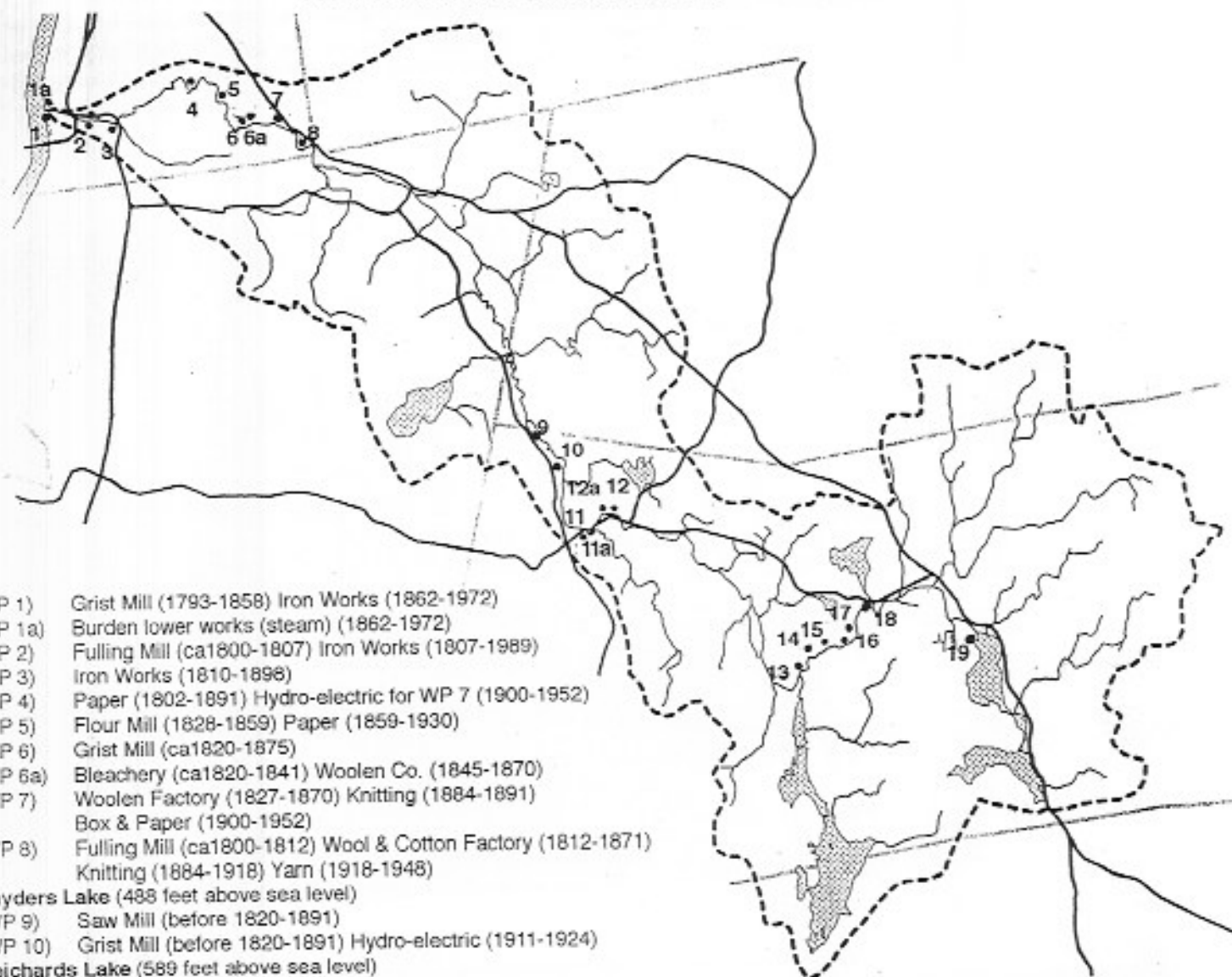
From Leopold Bloom's admiration for water (James Joyce *Ulysses*, 'Ithaca' section): "... its infallibility as paradigm and paragon: ... its docility in working hydraulic millwheels, turbines, dynamos, electric power stations, bleachworks, tanneries, scutchmills ..."

Outline of the Wynants Kill Watershed

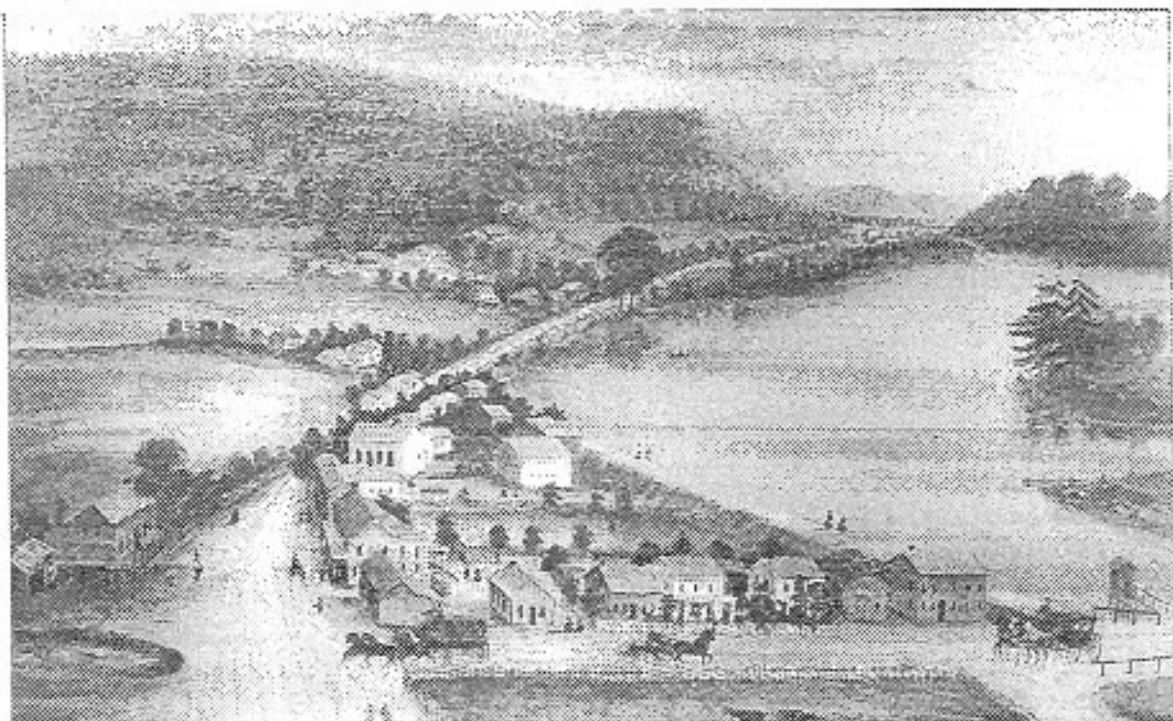
(on a current New York State Department of Transportation base map) 21,660 acres, 39 miles perimeter

with the approximate locations of the 19 water privileges, grouped:

1 to 3 in Troy, 4 & 5 between Troy and Albia, 6 to 8 at Albia,
9 & 10 below West Sand Lake, 11 & 12 in West Sand Lake,
13 to 18 in Averill Park (formerly Sand Lake), 19 at Glass Lake



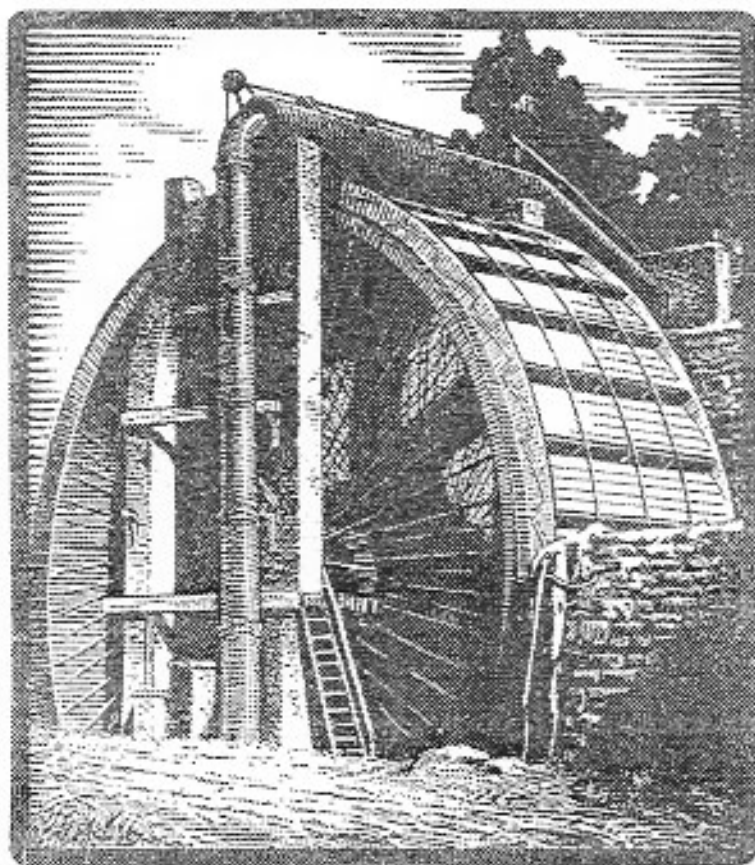
- (WP 1) Grist Mill (1793-1858) Iron Works (1862-1972)
- (WP 1a) Burden lower works (steam) (1862-1972)
- (WP 2) Fulling Mill (ca1800-1807) Iron Works (1807-1889)
- (WP 3) Iron Works (1810-1898)
- (WP 4) Paper (1802-1891) Hydro-electric for WP 7 (1900-1952)
- (WP 5) Flour Mill (1828-1859) Paper (1859-1930)
- (WP 6) Grist Mill (ca1820-1875)
- (WP 6a) Bleachery (ca1820-1841) Woolen Co. (1845-1870)
- (WP 7) Woolen Factory (1827-1870) Knitting (1884-1891)
- Box & Paper (1900-1952)
- (WP 8) Fulling Mill (ca1800-1812) Wool & Cotton Factory (1812-1871)
- Knitting (1884-1918) Yarn (1918-1948)
- Snyders Lake (488 feet above sea level)
- (WP 9) Saw Mill (before 1820-1891)
- (WP 10) Grist Mill (before 1820-1891) Hydro-electric (1911-1924)
- Reichards Lake (589 feet above sea level)
- (WP 11) Grist Mill (1768-1950s)
- (WP 11a) Cloth Works (1855-1880)
- (WP 12) Saw Mill (1788-1848) Cloth Works (1848-ca1880) Knitting (1880-1956)
- (WP 12a) Knitting (1909-1939) Carding & Spinning (1940-1952)
- Burden Lake (628 feet above sea level)
- (WP 13) Saw Mill (1788-1834) Fulling & Carding (1834-1844) Paper (1845-1891)
- (WP 14) Satinet (1820-ca1829) Cotton Factory (1829-1834) Cloth Mill (1834-1846) Woolen Mill (1846-1870) Hosiery Mill (1870-1875)
- (WP 15) Saw Mill (ca1820-1829) Cotton Factory (1829-1875) Warp Mill (1875-1889) Knitting (1897-1956)
- (WP 15a) Grist Mill (1802-ca1830)
- (WP 16) Satinet (1829-1835) Grist Mill (1835-1865) Knitting Factory (1866-1896)
- (WP 17) Tannery (1823-1835) Saw Mill (1835-1842) Tannery (1843-1862) Knitting Factory (1862-1880) Hosiery (1880-1891)
- (WP 18) Saw Mill (1798-1850)
- (WP 18a) Woolen Mill (1825-1852)
- Crystal Lake (770 feet above sea level)
- (WP 19) Saw Mill (1797-1806) Glass Factory (1806-1852)
- Glass Lake (828 feet above sea level)
- Crooked Lake (828 feet above sea level)



Artists in the Wynants Kill Watershed:

Above: Glass House village, one of two similar oil paintings by Joseph Hidley, whose family were 1776 tenants of Rensselaerwyck near Aries (now Snyders) Lake. Shown after 1866: the Wynants Kill Improvement Association has erected a gate house, far right, at the outlet of the lake to control the dam sluice, along with a dike which is being used as a promenade. The glass factory, that burned in 1852 and was never rebuilt, was on the point of land on the far right, and on the west side of the creek out of view. The building at far right was part of the glass works and most of the other buildings housed glass factory workers; the large structure at the corner is a hotel. Activity in the painting is dominated by stage traffic on the road over the dam, and the lake has attracted summer visitors, who paddle on the lake.

At right: Woodcut by Troy artist Will Cooke of Henry Burden's waterwheel at WP 3. The behemoth stopped turning in 1898, and the building around it deteriorated until the wheel collapsed in 1914 (the scrap was sold before WWII). In its ruined, but still noble, state the wheel attracted tourists and artists - leading many to assume that it had operated in the open like this, instead of encased in factory buildings straddling the Wynants Kill. The artist has created a foreground resembling water which was actually rubble.



Notes for 1855 Census of New York State

Name of Person or Company owning the Shop, Factory, Mine, Quarry, or other object of Industry	CAPITAL INVESTED			RAW MATERIALS			ANNUAL PRODUCT			PERSONS EMPLOYED with average weekly wage			
	Name of Business or Manufacture	In Real Estate	In Tools and Machinery	Quantity	Kind	Value	Quantity	Kind	Value	Adults	Children under 18	Men	Women Boys Girls
Bills & Thayer (WP 1)	Crystal Palace Flouring Mill	\$12,000	\$6,000	125,000 bu 25,000 bu 32,800	Wheat Rye Barrels	\$135,000	375,000 bis. 5000 100,000 bu	Wheat flour Rye Flour Feed	\$256,250	8	\$35	330	\$32 1/4
Corning Winslow & Co. Proprietors of Albany Iron Works (WP 2)	Iron Steel Nails Spikes & Rivets Axles RR Chairs &c	\$200,000	\$100,000	12,000 Tons 8,000 Tons 1,000 Tons 1,600 Tons 1,000 Tons 350 Tons 250 Tons 130000	Coal Pig Iron Blooms Bar Iron Ore Sand Clay Kegs	\$70,000 264,000 50,000 80,000 4,000 700 625 23,000	12,500 Tons Iron Spikes &c 31,000 kegs 200 tons 30 tons	Manufactured Nails Wagon axles Crow bars	\$910,000 \$127,000 \$20,000 \$3,000			120	
Troy Iron & Nail Factory (aka Burden Iron Works) (WP 3)	Manufacture of Iron Generally	together.....\$96,000		9,580 Tons 12,359 Tons	Pig Iron Scrap Blooms Coal	20 to 40 Dollars a Ton Ton	5,971 Tons	RR Spikes Ship & boat Spikes &c Rivets & Horse shoes Nails Car Iron Nail Kegs	- - - \$876,354 - - -	386	\$32 1/4	47	
Joseph W. & A.S. Smart (WP 4)	Paper Manufactory	\$5,000	\$6,000	300 Tons 300 Tons	Straw Coal other incident- tal expenses	\$2,100 2,100 4,000	43,000	Paper Reams	\$13,000	7	\$20	3	\$14 2
Jonathan Richardson (WP 5)	Flouring Mills	\$6,000	\$6,000	25,000 bu	Wheat & other grains	37,500	5,555 bis 12,000 bu	Flour Feed	\$40,000	3	\$26		
Troy Woolen Co. (WP 7)	Satinet	\$15,000	\$10,000	230,000 lbs 247,705 yds Lacawana coal Soap Labour Oil Transportation & other Freight other expenses	Wool Cotton warp Dye stuffs Finer wool 1,500 3,700 20,000 2,900 3,000 1,090	\$85,000 12,450 1,869 200	226,713 yds	Satinet	\$131,695	38	\$30	22	\$15 10 5

Albia Cotton Factory (WP 8)	Print Cloth	\$15,000	\$10,000	114,000 lbs	Cotton Oil Starch Fuel	\$11,400 1,300 600 800	800,000 yds	Print Cloth	\$36,000	20 \$33	29 \$14 14 15
Labour & other expenses 21,000											
David Clum (WP 10)	Flouring Mill	\$3,000	\$500	10,000 bu wheat, oats, corn	Rye buck- wheat	\$6,000	8,000 bu	Bread stuff	\$600	2	
Andrew Uline (WP 11)	Flouring Mill	\$1,000	\$1,000	10,000 lbs	Rye buck- wheat	\$8,000	9,000 bu	Bread stuff	\$606	2	
John Donaldson (WP 11a)	Clothing Works	\$1,500	\$2,000	10,000 lbs	Wool	\$3,200	15,000 yds 5,000 lbs	Cloth Yarn	\$10,500 \$3,700	2 \$15	\$9 1 1
A. & G. Clipperley (WP 12)	Clothing Works	\$1,000	\$1,500	2,000 lbs	Wool	\$600	2,600 yds	Satinet	\$15,000	3	2 \$9 2
L.T. Tompkins & Co. (WP 13)	Wrapping Paper	\$6,000	\$5,000	500 tons	Straw Wood	\$1,400 \$600	40,000 reams	Paper	\$16,000	12 \$25	21 \$12 1
Cornelius Schermethorn (WP 14)	Woolen Mill	\$4,000	\$2,500	54,942 lbs 30 cords 10 tons 350 gallons 1000 bri 10 bu	Wool Wood Coal Oil Soda ash Salt	\$19,240 75 87 150 40 8	310,700 yds	Yarn	\$27,360	4 \$21	1 \$14 3 1
Arnold, Hunt & Co. (WP 15)	Satinet Warp	\$20,000	\$10,000	100,000 lbs	Cotton	\$12,000	700,000 yds	Satinet warp	\$40,000	12 \$30	12 14
Arnold, Hunt & Co. (WP 16)	Grist Mill	\$3,000		15,000 bu 15,000 bu 5,000 bu	Corn Rye Oats	\$18,500 18,450 3,000	840,000 lbs 840,000 lbs 140,000	Seed & feed Flour & feed Feed	\$14,500 19,200 3,200	2 \$30	1
Gershom Tabor (WP 17)	Tanner & curer	\$4,000	\$2,000	150,000 lbs 300 cords 400 bu 50 cords	Hides Horn bark Lime Wood	\$10,000 1,000 152 200	78,000 lbs	Leather	\$15,600	5 \$25	
Joel B. Peck George Horton Orlando Horton Manning Reichard Joseph Ely William Green	Saw mill Saw mill Saw mill Saw mill Saw mill Saw mill	\$750 1,000 1,000 800 900 800	\$100 100 100 100 100 100	Logs Logs Logs Miscellaneous Miscellaneous Miscellaneous	Logs Logs Logs Miscellaneous Miscellaneous Miscellaneous	\$300 750 350 160 450 315	100,000 ft 150,000 ft 500 525 1,000 700	Lumber Lumber Lumber Miscellaneous Miscellaneous Miscellaneous	\$750 1,500 500 525 1,000 700	2 \$25 2 \$25	

Postal Index (1816-1911)

for Sand Lake (●)
for Averill Park (x)
for both offices together (●●●●)

The postal index is the postmaster's compensation
(provided by the Official Registers)
relative to (divided by)
the average compensation of postmasters at all offices
(provided by the Annual Reports of the Postmaster General)

3

2

1

1825

1835

1845

1855

1865

1875

1885

1895

1905