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THE POPULAR SCIENCE MONTHLY, CONDUCTED BY E. L. YOUMANS.

No. XXII. PRICE, FIFTY CENTS.

WITH A PORTRAIT OF R. A. PROCTOR.

CONTENTS OF No. 22, FOR FEBRUARY.

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II. Replies to Criticisms. By Herbert Spencer.
III. Modern Optics and Painting. By O. N. Rood. (Illustrated.)
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MISCELLANY: New Material for Dental Plates—Meteorological—Sewage Fertilization—Length of Thread of the Silk-Worm—The Constitution of Carboniferous Strata—Leached Ashes as a Fertilizer—Age of Metamorphic Rocks—Tests for Glycerine—American Origin of the Garden Raspberry—Rapidity of Vegetable Growth—Action of the Sand-Blast.
NOTES.

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Miscellaneous—City.

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Election Notice.

POLICE DEPARTMENT OF THE CITY OF NEW-YORK, NEW-YORK, January 8, 1874.

NOTICE is hereby given, in pursuance of Section 90, Chapter 675 of the Laws of 1872, that the Board of Police has, in pursuance of Section 35 of said Chapter, "designated and appointed" the places hereinafter named in the several election districts for holding the approaching revision of registration and election in the Twenty-first Assembly District.

REVISION OF REGISTRATION.

FRIDAY, January 9, from 8 a. m. to 9 p. m.
SATURDAY, January 10, from 8 a. m. to 9 p. m.

ELECTION DAY.

TUESDAY, January 20.
Polls open at 6 a. m. and close at 4 p. m.

TWENTY-FIRST ASSEMBLY DISTRICT.

1st Election District, No. 1,282 Third-ave.
2d Election District, No. 1,297 Third-ave.
3d Election District, No. 1,336 Third-ave.
4th Election District, No. 1,277 Third-ave.
5th Election District, No. 1,311 Third-ave.
6th Election District, No. 1,486 Second-ave.
7th Election District, No. 172 East Seventy-eighth-st.
8th Election District, No. 202 East Eighth-st.
9th Election District, No. 1,432 Third-ave.
10th Election District, No. 200 East Eighty-second-st.
11th Election District, No. 1,480 Third-ave.
12th Election District, No. 1,954 Second-ave.
13th Election District, No. 1,514 Third-ave.
14th Election District, No. 1,506 Third-ave.
15th Election District, No. 1,561 Third-ave.
16th Election District, No. 1,640 Third-ave.
17th Election District, No. 1,721 Third-ave.
18th Election District, No. 1,907 Third-ave.
19th Election District, No. 1,974 Third-ave.
20th Election District, No. 1,995 Third-ave.
21st Election District, No. 2,029 Third-ave.
22d Election District, No. 2,051 Third-ave.
23d Election District, No. 2,090 Third-ave.
24th Election District, No. 2,228 Second-ave.
25th Election District, No. 2,114 Third-ave.
26th Election District, No. 2,135 Third-ave.
27th Election District, No. 2,152 Third-ave.
28th Election District, No. 2,177 Third-ave.
29th Election District, S. W. corner One-hundred-and-twenty-second-st. and Third-ave.
30th Election District, No. 222 East One-hundred-and-twenty-first-st.
31st Election District, No. 2,267 Third-ave.
32d Election District, No. 188 East One-hundred-and-twenty-third-st.
33d Election District, No. 2,347 Third-ave.
34th Election District, S. W. corner Fourth-ave. and One-hundred-and-twenty-fifth-st.
35th Election District, S. E. corner Fourth-ave. and One-hundred-and-twenty-fifth-st.
36th Election District, One-hundred-and-twenty-eighth-st., near Fifth-ave.
37th Election District, Sixth-ave., between One-hundred-and-thirty-fourth and One-hundred-and-forty-fifth-sts.

By order of the Board of Police.
D. B. HASBROUCK, Chief of the Bureau of Elections.

POLICE DEPARTMENT OF THE CITY OF NEW-YORK, NEW-YORK, Jan. 8, 1874.

NOTICE is hereby given, pursuant to law, in view of the approaching special election in and for the Twenty-first Assembly District, that the following are the boundaries of the several Election Districts in said Assembly District, as heretofore established by the Board of Police by virtue of the authority conferred upon said Board by Chapter 675 of the Laws of 1872:

TWENTY-FIRST ASSEMBLY DISTRICT.
(Parts of Twelfth and Nineteenth Wards.)

The Twenty-first Assembly District shall be divided into thirty-seven election districts, the names and limits of which said election districts shall be as follows:

The First Election District is bounded by Seventieth street, Third avenue, Seventy-fourth street, and Fifth avenue.

The Second Election District is bounded by East Seventieth street, Third avenue, East Seventy-second street, and East River.

The Third Election District is bounded by Seventy-fourth street, Third avenue, Seventy-seventh street, and Fifth avenue.

The Fourth Election District is bounded by East Seventy-fourth street, Third avenue, East Seventy-second street, and East River.

The Fifth Election District is bounded by East Seventy-seventh street, Third avenue, Seventy-fourth street, and East River.

The Sixth Election District is bounded by Third avenue, East Seventy-ninth street, East River, and East Seventy-seventh street.

The Seventh Election District is bounded by Eighteenth street, Third avenue, Seventy-seventh street, and Fifth avenue.

The Eighth Election District is bounded by Third avenue, East Eighty-first street, East River, and Seventy-ninth street.

The Ninth Election District is bounded by Eighty-third street, Third avenue, Eighteenth street, and Fifth avenue.

The Tenth Election District is bounded by Third avenue, East Eighty-third street, East River, and East Eighty-first street.

The Eleventh Election District is bounded by East Eighty-sixth street, Fifth avenue, East Eighty-third street, and Third avenue.

The Twelfth Election District is bounded by Eighty-sixth street, Eighty-third street, Third Avenue, and the East River.

The Thirteenth Election District is bounded by East Eighty-eighth street, Fifth Avenue, East Eighty-sixth street, and Third avenue.

The Fourteenth Election District is bounded by Ninety-first street, Eighty-eighth street, Fifth avenue, and Third avenue.

The Fifteenth Election District is bounded by Third avenue, Ninety-first street, Eighty-sixth street, and East River.

The Sixteenth Election District is bounded by Ninety-first street, Fifth avenue, Ninety-fourth street, and East River.

The Seventeenth Election District is bounded by Ninety-fourth street, Fifth avenue, One Hundredth street, and East River.

The Eighteenth Election District is bounded by One Hundredth street, Fifth avenue, One Hundred and Sixth street, and East River.

The Nineteenth Election District is bounded by One Hundred and Sixth street, One Hundred and Ninth street, Fifth avenue, and the East River.

The Twentieth Election District is bounded by East One-Hundred and Ninth street, Fifth avenue, East One Hundred and Tenth street, Third avenue, One Hundred and Eleventh street, and the East River, including Ward's Island.

The Twenty-first Election District is bounded by One Hundred and Tenth street, Third avenue, One Hundred and Twelfth street and Eighth avenue.

The Twenty-second Election District is bounded by One Hundred and Eleventh street, Third avenue, One Hundred and Thirteenth street, and the East River.

The Twenty-third Election District is bounded by One Hundred and Twelfth street, Eighth avenue, One Hundred and Fourteenth street, and Third avenue.

The Twenty-fourth Election District is bounded by One Hundred and Thirteenth street, Third avenue, One Hundred and Fifteenth street, and East River.

The Twenty-fifth Election District is bounded by One Hundred and Fourteenth street, One Hundred and Seventeenth street, Third and Eighth avenues.

The Twenty-sixth Election District is bounded by One Hundred and Fifteenth street, Third Avenue, One Hundred and Seventeenth street, and East River.

The Twenty-seventh Election District is bounded by One Hundred and Seventeenth street, Eighth avenue, One Hundred and Twentieth street, and Third avenue.

The Twenty-eighth Election District is bounded by One Hundred and Seventeenth street, Third avenue, One Hundred and Nineteenth street, and East River.

The Twenty-ninth Election District is bounded by One Hundred and Twentieth street, One Hundred and Twenty-second street, Third and Eighth avenues.

The Thirtieth Election District is bounded by East One Hundred and Nineteenth street, Third avenue, East One Hundred and Twenty-second street and the East River, including Randall's Island.

The Thirty-first Election District is bounded by One Hundred and Twenty-second street, Third avenue, One Hundred and Twenty-fifth street, and East River.

The Thirty-second Election District is bounded by One Hundred and Twenty-second street, Third avenue, One Hundred and Twenty-fourth street, and Eighth avenue.

The Thirty-third Election District is bounded by Third avenue, East One Hundred and Twenty-second street, Fourth avenue, and Harlem River.

The Thirty-fourth Election District is bounded by One Hundred and Twenty-second street, Fourth avenue, One Hundred and Thirtieth street, and Eighth avenue.

The Thirty-fifth Election District is bounded by One Hundred and Thirtieth street, Harlem River, Fourth and Eighth avenues.

By order of the Board of Police.
D. B. HASBROUCK, Chief of the Bureau of Elections.

STATE OF NEW-YORK, EXECUTIVE CHAMBER, ALBANY, Dec. 26, 1873.

PROCLAMATION.—By JOHN A. DIX, Governor of the State of New-York.—Whereas, due notice has been given that HENRY W. GENET, who was elected to the office of Member of Assembly, in and for the Twenty-first Assembly District of the City and County of New-York, on the fourth day of November last, has been convicted of an infamous crime, whereby his right of office has ceased before the commencement of the term of service for which he was elected (pursuant to Section Forty, Chapter Five, Part One, of the Revised Statutes), and, whereas, it is provided by the law of the State that in such a case a special election shall be held.

Now, therefore, I, JOHN A. DIX, Governor of the State of New-York, in pursuance of the requirements of Section Ten, Title Two, Chapter Six, Part One, of the Revised Statutes of this State, do hereby order and proclaim that an election for Member of Assembly, in and for the Twenty-first Assembly District of the City and County of New-York, in place of said Henry W. Genet (the term of whose office will expire on the 31st day of December), one thousand eight hundred and seventy-four), be held in said District on TUESDAY, the twentieth day of January next (1874), and election to be conducted in the mode prescribed by law for the election of Members of Assembly.

In witness whereof I have hereunto signed my name and affixed the privy seal of the State, at the Capitol, in the City of Albany, this 26th day of December, in the year of our Lord one thousand eight hundred and seventy-three.

[Seal] JOHN A. DIX.

By the Governor:
JOHN W. DIX, Private Secretary.

STATE OF NEW-YORK, DEPARTMENT OF SECRETARY OF STATE, ALBANY, Dec. 27, 1873.

To MATTHEW T. BRENNAN, esq., Sheriff of the City and County of New-York.—Sir: Pursuant to a Proclamation of His Excellency the Governor of the State of New-York, a copy of which is hereunto inclosed, a Special election will be held in and for the Twenty-first Assembly District of the City and County of New-York on TUESDAY, the Twentieth day of January, 1874, for the election of a Member of Assembly in place of Henry W. Genet. Very respectfully,

G. HILTON SCRIBNER, Secretary of State.

SHERIFF'S OFFICE, NEW COUNTY HOUSE, CITY AND COUNTY OF NEW-YORK, Dec. 29, 1873.

I certify the foregoing to be true copies of the documents received by me, this day, from the Secretary of State.

MATTHEW T. BRENNAN, Sheriff of the City and County of New-York.

REMOVAL. M. SULLIVAN & Co., Bank Note Engravers, 327, 329, AND 331 BROADWAY, corner of Worth-st.

THE MONEY MARKET.

OFFICIAL REPORT N. Y. STOCK EXCHANGE SALES, JAN. 19, 1874.

SALES BEFORE THE CALL, 10 A. M.

Western Union		**Lake Shore**		**St Paul**	
600	75½	1,000	79¾	200	47½
600	75⅝	200	79⅞	200	47¼
1,000	75¼	400	c. 79¾	500	47
200	75¼	1,000	79⅞	100	46⅞
2,100	75	600	79½	300	47
1,500	74⅞	500	79⅝	200	47¼
200	75	900	79¼	100	47⅛
200	75⅛	400	79⅜	200	47¼
700	75¼	2,800	79½	300	47½
100	c. 75¼	4,800	79⅝	300	47¼
1,700	75⅜	1,300	s3. 79⅞	400	s3. 47½
800	75¼	4,650	79¾	**Toledo & Wabash**	
400	s3. 75½	100	s3. 79⅝	700	52½
200	75⅝	1,200	79⅝	500	52¾
Pacific Mail		600	79½	400	52⅝
1,000	40	600	79¾	600	52⅞
600	40⅛	300	79⅞	100	52¾
200	40¼	500	79¾	900	52½
300	40⅜	**Union Pacific**		**Han and St Joseph**	
1,000	40½	1,800	33⅜	200	31⅛
500	40⅝	3,100	33¾	**Ohio & Miss**	
85	40¾	600	s3. 33¾	500	33½
200	40⅝	1,100	c. 33⅝	400	c. 33⅞
600	s3. 40¾	900	s3. 33⅝	50	33½
100	s10. 40¾	600	33⅝	200	33⅝
N Y C & Hudson		400	c. 33⅞	100	s3. 33¾
2,800	102	500	33¾	**C, C & I C**	
400	102⅛	**North-West**		100	30½
200	102¼	500	59¾	200	30⅝
300	102⅛	500	60	200	c. 30¾
600	102¼	900	60½	100	30⅞
300	102⅜	**North-Western Pref**		100	31
100	102¼	200	s30. 72⅝	100	30⅞
100	s3. 102½	**St Paul Pref**		100	30¾
Boston, H & Erie		100	71½	200	30⅞
200	2¾	100	71⅞	100	31
		600	72	**St Louis, & K C**	
				100	31½

GOVERNMENT STOCK DEPARTMENT—10¼ O'CLOCK AND 11½ O'CLOCK, A. M.

U S 6s, 1881, Coupon		U S 5-20 Coupon, 1865, n	
500	118	10,000	bc. 116
1,000	bc. 117½	7,000	12.115¾
2,000	12.117⅝	1,000	small. 115¼
U S 5-20 Coupon, 1862		U S 5-20 Coupon, 1867	
2,000	113⅞	1,000	bc. 117
500 called bonds	bc. 112	1,000	12.117⅛
U S 5s, 10-40 Coupon		11,000	117
1,500	113¼	500	small. 116¼
10,000	12.113¾	U S 5-20 Coupon, 1868	
U S 5-20 Registered, 1865		2,000	c. 115½
2,000	12 c. 115½	U S 5-20 Coupon, 1868	
U S 6s, Currency		5,000	12.116⅞
2,000	12.114½		

FIRST BOARD—10¼ A. M.

Sales of State Bonds—Railroad Bonds—Bank and Railroad—Express Stocks, &c.

Tennessee 6s, old		**Mariposa L & Manf'g**		**Lake Shore**	
1,000	79¾	200	11	200	79⅛
Missouri 6s		100	10¾	700	79
2,000	bc. 93¼	**Pacific Mail**		500	s3. 78⅞
Michigan Cen 7s		200	bc. 40⅞	400	78¾
1,000	94	200	s3. 41	300	78⅝
Albany & Sus 1st M		100	40⅞	500	78½
10,000	100	400	40¾	700	78⅜
Lake Shore Con Reg		100	s3. 40⅞	1,200	78¼
1,000	99½	600	40⅞	300	78⅛
Pacific 7s, g'd by State of Missouri		200	40¾	800	78⅜
5,000	98	**Erie Railway**		400	78¾
Cent Pacific Gold Bds		200	bc. 48½	**North West**	
1,000	96¼	200	48¾	200	bc. 60¼
2,000	96⅛	**Harlem R R**		200	60¼
U Pacific R R 1st M		100	124½	400	60⅛
1,000	84⅞	100	bc. 124	200	60⅛
11,000	84⅝	**Western Union Tel**		100	60
Union Pacific 7s, L G		400	bc. 75⅝	300	60¼
8,000	80¼	100	75½	200	60⅜
10,000	80	100	s3. 75⅝	300	s3. 60½
North Missouri 1st		300	75½	**Rock Island**	
6,000	80	600	75⅝	100	bc. 104¼
7,000	80¼	300	75¾	400	104
C P & Ash 6s		500	75⅞	100	103⅞
500	36½	1,000	75	50	104
Chic & N W 1st M		800	74⅞	200	103¾
1,000	100	400	74¾	100	104
Chic & N W Consol City Bonds		600	74⅞	**Morris & Essex**	
21,000	85½	1,800	74½	38	91
Toledo & Wabash, 1st		500	c. 74½	**St Paul**	
St Louis div		600	74¾	200	bc. 47½
1,000	89½	500	74¼	500	47¼
Tol & Wabash 2d		400	74⅛	700	47⅛
5,000	89½	1,600	74	100	s3. 47
A & T H Income		600	73⅞	100	47¼
1,000	76	800	73¾	100	b3. 47⅜
N J Central 1st new		500	74	**St Paul Pref**	
1,000	105⅞	800	74⅛	300	bc. 72
Ohio & Miss 2d		1,100	74¼	100	71⅝
1,000	80	300	74⅜	400	71½
M & St Paul 7s, G'd		700	74½	**Toledo & Wabash**	
5,000	86½	**N Y C & Hudson**		400	bc. 53
M & St Paul 1st M Lst Div		100	bc. 102½	700	53⅛
1,000	91½	700	s3. 102⅜	100	b3. 53⅛
M & St Paul I & M Div		200	s3. 102¼	300	53
1,000	82	100	102⅜	400	52⅞
C, C & Ind Cent'l 1st		100	102	300	52¾
3,000	85	100	101⅞	100	52⅝
Chic & Mil 1st		300	102	300	52¼
6,000	92½	100	102⅛	**Del, Lack & W**	
Wisconsin & St P 1st		**Union Pacific**		300	100
5,000	80	1,500	33⅞	200	b3. 100
Chesapeake & Ohio 1st		200	33¾	400	100
1,000	60½	600	33⅞	300	c. 99⅞
Louisville & Nashville con '93		6,400	33½	**Pacific R R of Mo**	
3,000	88	700	c. 33½	400	bc. 32
Long Dock Bonds		2,300	33⅜	**Miss. Kan & Tex R R**	
2,000	93	**Mich Central R R**		200	bc. 15
Am Exchange Bank		500	85¼	**Pitts, Ft W & Ch Gd**	
50	109	**Lake Shore**		18	bc. 92
Metropolitan Bank		2,000	bc. 79⅞	**Han & St Jo**	
10	125	3,700	80	15	31
Market Bank		800	c. 79⅞	200	bc. 31⅛
25	120	600	79¾	**Han & St Joseph Pref**	
Park Bank		1,300	79⅞	100	bc. 39½
10	135	600	79⅞	**Ohio & Miss**	
Fourth Nat Bank		200	c. 79⅞	100	33⅞
20	107¼	200	79⅞	100	bc. s3. 33⅞
Del & Hudson Canal		300	79⅞	100	33⅞
120	119½	1,100	79	100	33⅞
Spring Mount Coal		500	s3. 78⅞	100	33¾
100	48	100	78⅞	**Ohio and Miss Pref**	
Panama		100	b3. 79	100	65
150	bc. 115	300	79	**C, C & I C**	

12¾ O'CLOCK—SALES BEFORE THE CALL.

Western Union Tel		**Lake Shore**		**Han & St Jo**	
1,400	74⅞	200	s3. 79¼	100	31
600	74¾	300	79⅜	100	31⅛
900	74⅞	1,200	79¼	100	31¼
100	75	500	79⅛	**Han & St Jo Pref**	
200	74⅞	500	c. 79	100	40½
200	74¾	200	79¼	**North-Western**	
100	s3. 75⅛	200	b30. 79½	100	60⅝
200	75	100	s3. 79¼	100	60½
300	74⅞	700	79⅝	500	60⅜
500	74¾	500	b3. 79¼	200	60½
1,400	75	600	79⅜	200	60⅜
200	74⅞	1,200	79⅜	100	60¼
800	b3. 75	800	79	100	60⅛
200	75⅛	200	79	500	60¾
200	75	300	78⅞	200	b3. 61
200	74⅞	300	c. 78⅞	400	60⅞
500	c. 74¾	100	b5. 79	100	60¾
300	74⅞	500	79	300	60¼
300	74¾	300	79⅛	**Ohio and Miss**	
500	74½	400	79¼	600	33⅞
900	74⅝	**Fort Wayne**		300	33¾
200	74¾	5	91¼	300	33⅜
Pacific Mail		**Union Pacific**		100	33⅜
100	b10. 41⅛	1,500	bc. 34	200	33⅞
200	41⅛	600	b3. 34	100	33⅞
200	41	200	b3. 34⅛	100	s3. 33¾
100	c. 75¼	200	b30. 34⅛	**C, C & I C**	
100	75¼	**North-West**		100	30½
700	75⅜	300	bc. 60⅝	200	30⅝
300	b3. 75½	600	60½	200	c. 30¾
Erie Railway		**North-Western Pref**		100