

PEALE (A.C.)

DEPARTMENT OF THE INTERIOR—U. S. GEOLOGICAL SURVEY
CHARLES D. WALCOTT, DIRECTOR

THE
PRODUCTION OF MINERAL WATERS

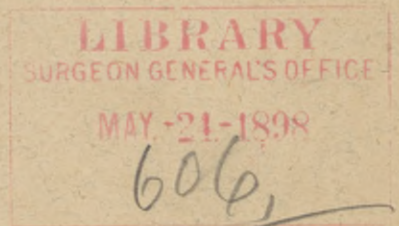
IN

1895

BY

A. C. PEALE

EXTRACT FROM THE SEVENTEENTH ANNUAL REPORT OF THE SURVEY, 1895-96
PART III—MINERAL RESOURCES OF THE UNITED STATES, CALENDAR YEAR
1895: DAVID T. DAY, CHIEF OF DIVISION OF MINERAL RESOURCES



WASHINGTON
GOVERNMENT PRINTING OFFICE
1896

DEPARTMENT OF THE INTERIOR—U. S. GEOLOGICAL SURVEY
CHARLES D. WALCOTT, DIRECTOR

THE
PRODUCTION OF MINERAL WATERS

IN

1895

BY

A. C. PEALE

EXTRACT FROM THE SEVENTEENTH ANNUAL REPORT OF THE SURVEY, 1895-96
PART III—MINERAL RESOURCES OF THE UNITED STATES, CALENDAR YEAR
1895: DAVID T. DAY, CHIEF OF DIVISION OF MINERAL RESOURCES



LIBRARY
SURGEON GENERAL'S OFFICE
MAY-24-1898

WASHINGTON
GOVERNMENT PRINTING OFFICE
1896

MINERAL WATERS.

By A. C. PEALE.

PRODUCTION.

For the year 1895 the total number of springs on the list is 370, which is a gain of 13 over 1894. The new springs added to the list number 29, and 16 have been dropped because no reports have been received from them for several years. The number of springs actually reporting sales in 1895 is 297, as compared with 286 in 1894. The list of springs not included in the returns numbers 73. Many of these report that no sales were made in 1895. Among the springs included in this delinquent list are many that in previous years have been among the largest producers and have long been well known in the market.

In 1895 the total production (including an estimate for the delinquent springs of one-half their last reported production) is 21,463,543 gallons, an apparent loss of 106,665 gallons over the figures of 1894. The valuation of the product is \$4,254,237, as compared with \$3,741,846 in 1894, a gain of \$512,391. When the figures given by the 297 springs actually reporting are compared with the 286 springs reporting in 1894, there is shown a gain of 311,927 gallons and an increase in valuation of \$610,630. The average price per gallon in 1895 was 19 cents.

The North Atlantic States are credited with 115 springs, a net gain of 10 over 1894. Four springs, the water from which is no longer sold, have been dropped, and 14 springs new to the list have been added. The springs reporting sales in 1895 number 88, and their figures show a gain of 451,379 gallons and an increase of \$84,520 in the value of the product. The new springs added to the list are as follows:

Maine: Blue Hill Mineral Spring, Pine Spring.
New Hampshire: Amherst Mineral Spring.
Vermont: Vermont Mineral Spring.
Massachusetts: Abajone Spring, Cohanet Spring.
Connecticut: Arethusa Springs.
New York: Salubria Springs, Great Bear Spring.
New Jersey: Pine Grove Mineral Spring.
Pennsylvania: Aquatone Spring, Great Indian Spring, Ponce de Leon Spring,
Tuscarora Lithia Spring.

In the South Atlantic States the list of 1894 is reduced by 4 springs, leaving the total number for the section at 71 for 1895. Of these, 51

report sales, showing an increase of 287,623 gallons and an increase in valuation of \$158,480.

The South Central States show little change from 1894. Two new springs have been added to the list and 1 has been dropped. The total number credited to the section is 43. The springs reporting sales in 1895 number 35. The figures show an increase in production of 26,993 gallons, but there is a decrease in valuation of \$112,764. The springs not on the list of 1894, and which appear for the first time on the list of 1895, are the following:

Tennessee: Dixie Mineral Spring.

Mississippi: Mount Pleasant Mineral Spring.

The North Central States show a net gain of 6 springs, 10 springs having been added to the list of 103 of 1894 and 4 being dropped. Sales are reported from 92. Although there is a decrease of 486,318 gallons in the production, there is an increase in valuation of \$461,796. The 10 springs new to the list are the following:

Ohio: Midland Mineral Springs, Wewoka Spring.

Indiana: Greenwood Sanitarium Well.

Illinois: Apollo Springs, Magnesia Spring, Min-ni-Ni-yan Spring, Aurora Lithia Spring.

Michigan: No-chee-mo Mineral Spring.

Wisconsin: Castalia Spring, Elein Spring.

The Western States and Territories show little change, the last remaining at 42, as in 1894. Three new springs have been added to the list and 3 have been taken away from it. Reports of sales have been received from 31 springs, showing a gain of 26,280 gallons, with an increased valuation of \$18,597. The springs new to the list are as follows:

Oregon: Lehman Springs.

California: California Elixir Mineral Spring, Mount Lowe Springs.

Production of mineral waters for 1895, by States and Territories.

| State or Territory. | Springs reporting. | Product. | Value. |
|---------------------|--------------------|-----------------|----------|
| | | <i>Gallons.</i> | |
| Alabama | 3 | 16,300 | \$14,921 |
| Arkansas | 6 | 532,110 | 10,011 |
| California | 16 | 653,935 | 229,907 |
| Colorado | 4 | 60,900 | 19,450 |
| Connecticut | 3 | 36,520 | 1,904 |
| Georgia | 2 | 54,000 | 10,400 |
| Illinois | 12 | 164,550 | 29,375 |
| Indiana | 10 | 136,560 | 17,531 |
| Iowa | 4 | 50,900 | 6,290 |
| Kansas | 5 | 19,300 | 8,375 |

Production of mineral waters for 1895, by States and Territories—Continued.

| State or Territory. | Springs reporting. | Product. | Value. |
|---|--------------------|-----------------|-------------|
| | | <i>Gallons.</i> | |
| Kentucky | 6 | 88, 650 | \$12, 300 |
| Maine | 9 | 362, 580 | 35, 359 |
| Maryland | 4 | 116, 000 | 14, 860 |
| Massachusetts | 25 | 2, 583, 285 | 139, 148 |
| Michigan | 13 | 525, 100 | 178, 320 |
| Minnesota | 2 | 214, 000 | 18, 800 |
| Mississippi | 6 | 179, 531 | 42, 137 |
| Missouri | 8 | 413, 044 | 127, 670 |
| New Jersey | 2 | 66, 000 | 7, 750 |
| New Hampshire | 3 | 1, 613, 200 | 642, 540 |
| New Mexico | 3 | 22, 500 | 3, 025 |
| New York | 24 | 2, 232, 097 | 550, 421 |
| North Carolina | 8 | 121, 017 | 31, 300 |
| Ohio | 12 | 246, 968 | 43, 439 |
| Oregon | 3 | 22, 850 | 4, 830 |
| Pennsylvania | 15 | 1, 594, 875 | 173, 884 |
| Rhode Island | 3 | 121, 000 | 6, 650 |
| South Carolina | 2 | 55, 500 | 11, 050 |
| Tennessee | 4 | 50, 645 | 9, 604 |
| Texas | 10 | 1, 479, 570 | 72, 100 |
| Vermont | 4 | 59, 350 | 15, 225 |
| Virginia | 29 | 579, 187 | 214, 209 |
| Washington | 2 | 39, 000 | 4, 020 |
| West Virginia | 5 | 23, 009 | 4, 554 |
| Wisconsin | 24 | 3, 150, 960 | 395, 018 |
| Other States (<i>a</i>) | 6 | 1, 599, 200 | 785, 150 |
| Total | 297 | 19, 284, 193 | 3, 891, 527 |
| Estimated production of springs not reporting sales | 73 | 2, 179, 350 | 362, 710 |
| Grand total | 370 | 21, 463, 543 | 4, 254, 237 |

a These include the States in which only 1 spring each has reported. They are Florida, Idaho, Montana, Nebraska, South Dakota, and Utah.

Production of natural mineral waters from 1883 to 1895.

| Geographic division. | Springs reporting. | Gallons sold. | Value. |
|----------------------|--------------------|---------------|-------------|
| 1883. | | | |
| North Atlantic | 38 | 2, 470, 670 | \$282, 270 |
| South Atlantic | 27 | 312, 090 | 64, 973 |
| North Central | 37 | 1, 435, 809 | 323, 600 |
| South Central | 21 | 1, 441, 042 | 139, 973 |
| Western | 6 | 169, 812 | 52, 787 |
| | 129 | 5, 829, 423 | 863, 603 |
| Estimated | 60 | 1, 700, 000 | 256, 000 |
| Total | 189 | 7, 529, 423 | 1, 119, 603 |
| 1884. | | | |
| North Atlantic | 38 | 3, 345, 760 | 328, 125 |
| South Atlantic | 27 | 464, 718 | 103, 191 |
| North Central | 37 | 2, 070, 533 | 420, 515 |
| South Central | 21 | 1, 526, 817 | 147, 112 |
| Western | 6 | 307, 500 | 85, 200 |
| | 129 | 7, 715, 328 | 1, 084, 143 |
| Estimated | 60 | 2, 500, 000 | 375, 000 |
| Total | 189 | 10, 215, 328 | 1, 459, 143 |
| 1885. | | | |
| North Atlantic | 51 | 2, 527, 310 | 192, 605 |
| South Atlantic | 32 | 908, 692 | 237, 153 |
| North Central | 45 | 2, 925, 288 | 446, 211 |
| South Central | 31 | 540, 436 | 74, 100 |
| Western | 10 | 509, 675 | 86, 776 |
| | 169 | 7, 411, 401 | 1, 036, 845 |
| Estimated | 55 | 1, 737, 000 | 276, 000 |
| Total | 224 | 9, 148, 401 | 1, 312, 845 |
| 1886. | | | |
| North Atlantic | 49 | 2, 715, 050 | 177, 969 |
| South Atlantic | 38 | 720, 397 | 123, 517 |
| North Central | 40 | 2, 048, 914 | 401, 861 |
| South Central | 31 | 822, 016 | 58, 222 |
| Western | 14 | 781, 540 | 137, 796 |
| | 172 | 7, 087, 917 | 899, 365 |
| Estimated | 53 | 1, 862, 400 | 384, 705 |
| Total | 225 | 8, 950, 317 | 1, 284, 070 |

MINERAL WATERS.

1029

Production of natural mineral waters from 1883 to 1895—Continued.

| Geographic division. | Springs reporting. | Gallons sold. | Value. |
|----------------------|--------------------|---------------|-------------|
| 1887. | | | |
| North Atlantic | 40 | 2, 571, 004 | \$213, 210 |
| South Atlantic | 34 | 614, 041 | 147, 149 |
| North Central | 38 | 1, 480, 820 | 208, 217 |
| South Central | 29 | 741, 080 | 87, 946 |
| Western | 12 | 1, 236, 324 | 288, 737 |
| | 153 | 6, 643, 269 | 945, 259 |
| Estimated | 62 | 1, 616, 340 | 316, 204 |
| Total | 215 | 8, 259, 609 | 1, 261, 463 |
| 1888. | | | |
| North Atlantic | 42 | 2, 856, 799 | 247, 108 |
| South Atlantic | 32 | 1, 689, 387 | 493, 489 |
| North Central | 38 | 2, 002, 373 | 325, 839 |
| South Central | 19 | 426, 410 | 71, 215 |
| Western | 15 | 1, 853, 679 | 421, 651 |
| | 146 | 8, 828, 648 | 1, 559, 302 |
| Estimated | 52 | 750, 000 | 120, 000 |
| Total | 198 | 9, 578, 648 | 1, 679, 302 |
| 1889. | | | |
| North Atlantic | 60 | 4, 106, 464 | 471, 575 |
| South Atlantic | 47 | 646, 239 | 198, 032 |
| North Central | 86 | 6, 137, 776 | 604, 238 |
| South Central | 33 | 500, 000 | 43, 356 |
| Western | 32 | 1, 389, 992 | 431, 257 |
| Total | 258 | 12, 780, 471 | 1, 748, 458 |
| 1890. | | | |
| North Atlantic | 55 | 5, 043, 074 | 1, 175, 512 |
| South Atlantic | 39 | 647, 625 | 245, 760 |
| North Central | 71 | 5, 050, 413 | 737, 672 |
| South Central | 30 | 604, 571 | 81, 426 |
| Western | 25 | 869, 504 | 253, 578 |
| | 220 | 12, 215, 187 | 2, 493, 948 |
| Estimated | 53 | 1, 692, 231 | 106, 802 |
| Total | 273 | 13, 907, 418 | 2, 600, 750 |

Production of natural mineral waters from 1883 to 1895—Continued.

| Geographic division. | Springs reporting. | Gallons sold. | Value. |
|----------------------|--------------------|---------------|-------------|
| 1891. | | | |
| North Atlantic | 62 | 5,724,752 | \$1,591,746 |
| South Atlantic | 41 | 796,439 | 313,443 |
| North Central | 68 | 8,010,556 | 482,082 |
| South Central | 29 | 629,015 | 106,022 |
| Western | 27 | 1,123,640 | 414,564 |
| | 227 | 16,284,402 | 2,907,857 |
| Estimated | 61 | 2,108,330 | 88,402 |
| Total | 288 | 18,392,732 | 2,996,259 |
| 1892. | | | |
| North Atlantic | 65 | 6,853,722 | 1,933,416 |
| South Atlantic | 47 | 1,062,945 | 353,193 |
| North Central | 74 | 11,566,440 | 1,834,732 |
| South Central | 32 | 693,544 | 109,334 |
| Western | 24 | 1,261,453 | 594,469 |
| | 242 | 21,438,104 | 4,825,144 |
| Estimated | 41 | 438,500 | 80,826 |
| Total | 283 | 21,876,604 | 4,905,970 |
| 1893. | | | |
| North Atlantic | 79 | 8,351,192 | 1,844,845 |
| South Atlantic | 49 | 1,092,829 | 304,736 |
| North Central | 78 | 8,833,712 | 1,073,427 |
| South Central | 35 | 1,139,959 | 122,331 |
| Western | 29 | 675,041 | 307,623 |
| | 270 | 20,092,733 | 3,652,962 |
| Estimated | 60 | 3,451,762 | 593,772 |
| Total | 330 | 23,544,495 | 4,246,734 |
| 1894. | | | |
| North Atlantic | 83 | 8,217,528 | 1,488,361 |
| South Atlantic | 55 | 660,120 | 129,143 |
| North Central | 82 | 6,914,900 | 1,115,322 |
| South Central | 37 | 2,319,813 | 273,836 |
| Western | 29 | 859,905 | 274,235 |
| | 286 | 18,972,266 | 3,280,897 |
| Estimated | 71 | 2,677,342 | 460,949 |
| Total | 357 | 21,569,608 | 3,741,846 |

Production of natural mineral waters from 1883 to 1895—Continued.

| Geographic division. | Springs reporting. | Gallons sold. | Value. |
|----------------------|--------------------|---------------|-------------|
| 1895. | | | |
| North Atlantic | 88 | 8,668,907 | \$1,572,881 |
| South Atlantic | 51 | 953,713 | 287,623 |
| North Central..... | 92 | 6,428,582 | 1,577,118 |
| South Central..... | 35 | 2,346,806 | 161,073 |
| Western..... | 31 | 886,185 | 292,832 |
| | 297 | 19,284,193 | 3,891,527 |
| Estimated..... | 73 | 2,179,350 | 362,710 |
| Total | 370 | 21,463,543 | 4,254,237 |

LIST OF COMMERCIAL SPRINGS.

ALABAMA.

One spring has been dropped from the list for Alabama, and of the 4 remaining the following 3 report sales in 1895:

Bailey Springs, Bailey Springs, Lauderdale County.
 Healing Springs, Healing Springs, Washington County.
 Wilkinson's Matchless Mineral Water, Greenville, Butler County.

ARKANSAS.

Of the 7 springs credited to Arkansas the following 6 report:

Arkansas Lithia Springs, Hope, Hempstead County.
 Blance Springs, near Hot Springs, Garland County.
 Dovepark Springs, Dovepark, Hot Spring County.
 Eureka Springs, Eureka Springs, Carroll County.
 Potash Sulphur Spring, Hot Springs, Garland County.
 Sulphur Springs, Sulphur Springs, Benton County.

CALIFORNIA.

California's list is increased by 2 new springs, and 1 has been dropped, leaving the total at 20 springs. Of these, the following 16 report:

Etna Springs, Lidell, Napa County.
 Alhambra Mineral Spring, Martinez, Contra Costa County.
 Almaden Vichy Springs, New Almaden, Santa Clara County.
 Azule Natural Seltzer Water, San Jose, Santa Clara County.
 Bartlett Springs, Bartlett Springs, Lake County.
 California Elixir Mineral Spring, near South Riverside, Riverside County.
 Castalian Mineral Water, Inyo County.
 Coronado Mineral Spring, Coronado, San Diego County.

El Toro Spring, Novato, Marin County.
 Mount Lowe Springs, near Pasadena, Los Angeles County.
 Napa Soda Springs, Napa Soda Springs, Napa County.
 Ojai Hot Springs, Matilija, Ventura County.
 Pacific Congress Springs, Saratoga, Santa Clara County.
 Shasta Mineral Spring, Shasta Springs, Siskiyou County.
 Tolenas Soda Spring, Fairfield, Solano County.
 Tuscan Springs, Redbluff, Tehama County.

COLORADO.

One spring is dropped from the list, and of the 8 remaining 4 are delinquent in 1895. The following 4 report:

Canyon City Vichy Springs, Canyon City, Fremont County.
 Carlile Soda and Iron Springs, near Pueblo, Pueblo County.
 Colorado Carlsbad Springs, Barr, Arapahoe County.
 Hiawatha Spring, Manitou, El Paso County.

CONNECTICUT.

One new spring is added to Connecticut's list, making the total 8, but of these only the 3 following report for 1895:

Althea Spring, Waterbury, New Haven County.
 Arethusa Springs, Seymour, New Haven County.
 Oxford Chalybeate Spring, Oxford, New Haven County.

FLORIDA.

One spring taken from Florida's list leaves only the following, which reports:

Magnolia Springs, Magnolia Springs, Clay County.

GEORGIA.

Two of the 3 springs credited to Georgia report for 1895. They are:

Bowden Lithia Springs, Lithia Springs, Douglas County.
 Hughes Mineral Spring, near Rome, Floyd County.

IDAHO.

There is no change reported for Idaho. It is still represented by 1 spring, as follows:

Idanha Spring, Soda Springs, Bannock County.

ILLINOIS.

Four new springs are added to the list, making the total for the State 16; of these 12 report sales, as follows:

American Carlsbad, Nashville, Washington County.
 Apollo Springs, Dupage County.
 Aurora Lithia Spring, Montgomery, Kane County.
 Black Hawk Springs, Rock Island, Rock Island County.
 Diamond Mineral Spring, Grantfork, Madison County.

Magnesia Spring, Montgomery, Kane County.
 Min-ni-Ni-yan Spring, Bristol, Kendall County.
 Perry Springs, Perry Springs, Pike County.
 Red Avon Mineral Springs, Avon, Fulton County.
 Sailor Springs, Sailor Springs, Clay County.
 Sanicula Springs, Ottawa, Lasalle County.
 Tivoli Spring, Chester, Randolph County.

INDIANA.

One spring has been taken from the list and 1 has been added, so that the total for 1895 remains at 11, as in 1894. The following report:

Emerald Spring, Indiana Mineral Springs, Warren County.
 French Lick Springs, French Lick, Orange County.
 Greenwood Sanitarium Well, Greenwood, Johnson County.
 Indiana Mineral Springs, Indiana Mineral Springs, Warren County.
 Kickapoo Magnetic Springs, Kickapoo, Warren County.
 King's Mineral Springs, Muddyfork, Clark County.
 Lodi Artesian Well, Silverwood, Fountain County.
 Magnetic Mineral Springs, Terre Haute, Vigo County.
 Magnetic Mineral Well, Fort Wayne, Allen County.
 West Baden Springs, West Baden, Orange County.

IOWA.

Iowa loses 1 spring in 1895, leaving the total at 6. Of these the following 4 report:

Colfax Mineral Spring, Colfax, Jasper County.
 Mynster Springs, Council Bluffs, Pottawattamie County.
 Siloam Springs, Iowa Falls, Hardin County.
 White Sulphur Spring, White Sulphur, Scott County.

KANSAS.

The 1895 list for Kansas remains the same as for 1894, viz, 7. The following 5 report:

Blazing's Natural Medical Spring, Manhattan, Riley County.
 Genda Mineral Springs, Genda Springs, Cowley County.
 Jewell County Lithium Spring, Montrose, Jewell County.
 Topeka Mineral Wells, Topeka, Shawnee County.
 Waconda Springs, Cawker City, Mitchell County.

KENTUCKY.

All of Kentucky's springs report sales in 1895. They are 6 in number, as follows:

Anita Springs, Lagrange, Oldham County.
 Bedford Springs, Bedford, Trimble County.
 Blue Lick Springs, Blue Lick Springs, Nicholas County.
 Crab Orchard Springs, Crab Orchard, Lincoln County.
 St. Patrick's Well, Louisville, Jefferson County.
 Upper Blue Lick Springs, Blue Lick Springs, Nicholas County.

LOUISIANA.

No reports of sales have been received from any of the springs of Louisiana.

MAINE.

Two springs are added to the list and 2 have been taken from it, leaving the total for 1895 the same as in 1894. Of the 14 springs credited to the State the following 9 report sales:

Blue Hill Mineral Spring, Blue Hill, Hancock County.
 Cold Bowling Spring, Steep Falls, Limington, York County.
 Crystal Springs, Auburn, Androscoggin County.
 Keystone Spring, East Poland, Androscoggin County.
 Paradise Spring, Brunswick, Cumberland County.
 Pine Spring, Topsham, Sagadahoc County.
 Underwood Springs, Falmouth Foreside, Cumberland County.
 Wilson Spring, North Raymond, Cumberland County.
 Windsor Mineral Spring, Lewiston, Androscoggin County.

MARYLAND.

One spring is delinquent for 1895. The remaining 4 report sales. They are:

Carroll Spring, Forest Glen, Montgomery County.
 Chattolane Springs, Chattolane, Baltimore County.
 Strontia Mineral Spring, Brooklandville, Baltimore County.
 Takoma Springs, Takoma, Montgomery County.

MASSACHUSETTS.

Two springs are taken from the list for Massachusetts and 2 are added, leaving the total 27, as in 1894. Of these the following 25 report for 1895:

Abajone Spring, Woburn, Middlesex County.
 Ballardville Lithia Spring, Lowell, Middlesex County.
 Belmont Hill Spring, Everett, Middlesex County.
 Belmont Natural Spring, Belmont, Middlesex County.
 Blue Hill Silver Spring, Milton, Norfolk County.
 Burnham Spring, Methuen, Essex County.
 Cohanet Spring, Taunton, Bristol County.
 Columbia Lithia Spring, Revere, Suffolk County.
 Commonwealth Mineral Spring, Waltham, Middlesex County.
 Crystal Mineral Spring, Methuen, Essex County.
 Diamond Spring, Lawrence, Essex County.
 Electric Spring, Lynn, Essex County.
 Everett Crystal Spring, Everett, Middlesex County.
 Goulding Spring, Whitman, Plymouth County.
 Harvard Crystal Spring, Allston, Suffolk County.
 Indian Spring, Brighton, Suffolk County.
 Leland Mineral Spring, Lowell, Middlesex County.
 Massasoit Spring, Springfield, Hampden County.

Middlesex Mountain Spring, Malden, Middlesex County.
 Moose Hill Spring, Swampscott, Essex County.
 Nobscot Mountain Spring, Framingham, Middlesex County.
 Robbins Spring, Arlington, Middlesex County.
 Sheep Rock Spring, Lowell, Middlesex County.
 Simpson Spring, South Easton, Bristol County.

MICHIGAN.

The list for Michigan stands at 14, 2 springs having been taken from it and 1 added. The following 13 report sales in 1895:

Americanus Spring, Lansing, Ingham County.
 Blue Rock Spring, Grand Rapids, Kent County.
 Clarke Red Cross Well, Big Rapids, Mecosta County.
 Magnetic Mineral Springs, Spring Lake, Ottawa County.
 Medea Spring, Mount Clemens, Macomb County.
 Moorman Well, Ypsilanti, Washtenaw County.
 Mount Clemens Pagoda Spring, Mount Clemens, Macomb County.
 Mount Clemens Sprudel Water, Mount Clemens, Macomb County.
 No-ché-mo Mineral Spring, Reed City, Osceola County.
 Plymouth Rock Well, Plymouth, Wayne County.
 Salutaris Spring, St. Clair Springs, St. Clair County.
 Ypsilanti Mineral Spring, Ypsilanti, Washtenaw County.
 Zauber Wasser, Hudson, Lenawee County.

MINNESOTA.

Two of Minnesota's 3 springs report sales in 1895. They are:

Indian Medical Spring, Elk River, Sherburne County.
 Mankato Mineral Springs, near Mankato, Blue Earth County.

MISSISSIPPI.

Mississippi gains 1 spring over 1894, the total for 1895 being 6. All the springs report. They are:

Brown's Wells, Browns Wells, Copiah County.
 Castalian Springs, Durant, Holmes County.
 Godbold Mineral Well, Summit, Pike County.
 Mount Pleasant Mineral Spring, Mount Pleasant, Marshall County.
 Robinson Mineral Spring, Madison County.
 Stafford Mineral Springs, near Vosburg, Jasper County.

MISSOURI.

All of Missouri's springs report for 1895. They are 8 in number, as follows:

B. B. Mineral Springs, Bowling Green, Pike County.
 Blue Lick Springs, Blue Lick, Saline County.
 Eldorado Springs, Cedar County.
 Excelsior Springs, Excelsior Springs, Clay County.
 Lineville Mineral Springs, Mercer County, near Lineville, Iowa.
 Paris Springs, Paris Springs, Lawrence County.
 Randolph Springs, Randolph Springs, Randolph County.
 Sweet Springs, Sweet Springs, Saline County.

MONTANA.

Only 1 spring in Montana reports sales for 1895. It is:

Lissner's Mineral Springs, Helena, Lewis and Clarke County.

NEBRASKA.

Nebraska's 1 spring reports for 1895. It is:

Victoria Mineral Springs, New Helena, Custer County.

NEW HAMPSHIRE.

One spring is added to the list, making the total for the State 4. Of these the following 3 report for 1895:

Amherst Mineral Spring, Amherst, Hillsboro County.

Londonderry Lithia Spring, Londonderry, Rockingham County.

Pack Monadnock Lithia Spring, Temple, Hillsboro County.

NEW JERSEY.

One new spring is added to the list for New Jersey, bringing the total up to 2. Both report for 1895. They are:

Kalium Springs, Collingswood, Camden County.

Pine Grove Mineral Spring, Woodbury, Gloucester County.

NEW MEXICO.

One spring is taken from the list, leaving 3 as the total for the Territory. All report for 1895, as follows:

Coyote Soda Spring, Coyote Canyon, Bernalillo County.

Harsch's Iron Springs, Coyote Canyon, Bernalillo County.

Ojo Caliente Spring, Ojo Caliente, Taos County.

NEW YORK.

The list for New York is increased by 2 new springs, making the total 31. Of these the following 24 report sales in 1895:

Avon Sulphur Spring, Avon, Livingston County.

A. D. Ayer Amherst Mineral Springs, near Williamsville, Erie County.

Boonville Mineral Springs, Boonville, Oneida County.

Cayuga Water, Cayuga, Cayuga County.

Colonial Mineral Springs, West Deer Park, Suffolk County.

Deep Rock Springs, Oswego, Oswego County.

Esperanza Mineral Springs, Lake Keuka, Yates County.

Great Bear Spring, Fulton, Oswego County.

Massena Springs, Massena, St. Lawrence County.

Salubria Springs, Watkin, Schuyler County.

Saratoga Springs, Saratoga County:

Champion Spring.

Empire Spring.

Excelsior Spring.

Hathorn Spring.

Old Putnam Spring.

Saratoga Springs, Saratoga County—Continued.

- Patterson Spring.
- Royal Spring.
- Saratoga Kissingen Spring.
- Saratoga Vichy Spring.
- Saratoga Victoria Spring.
- Union Spring.
- Sulphur Springs, Richfield Springs, Otsego County.
- Table Rock Mineral Spring, Honeoye Falls, Monroe County.
- White Sulphur Spring, Sharon Springs, Schoharie County.

NORTH CAROLINA.

Two springs are taken from North Carolina's list, leaving the total 8, all of which report for 1895. They are:

- Ashley Bromine and Arsenic Spring, Ashe County.
- Barium Springs, Barium Springs, Iredell County.
- Lemon Springs, Lemon Springs, Moore County.
- Park's Spring, Caswell County, near Danville, Va.
- Panacea Springs, Warren County.
- Seven Springs, Seven Springs, Wayne County.
- Shaw's Healing Springs, Littleton, Halifax County.
- Thompson's Bromine Arsenic Springs, Crumpler, Ashe County.

OHIO.

Two new springs increase Ohio's list from 12 in 1894 to 14 in 1895. The following 12 report sales:

- Crum Mineral Springs, Austintown, Mahoning County.
- Crystal Rock Spring, Erie County.
- Devonian Mineral Spring, Lorain, Lorain County.
- La Fountain Mineral Springs, Fountain Park, Champaign County.
- Magnetic and Saline Spring, Marysville, Union County.
- Midland Mineral Springs, Midland, Midland County.
- Mustcash Spring, Erie County.
- Puritas Mineral Springs, Rockport, Cuyahoga County.
- Purtlebaugh Mineral Springs, Urbana, Champaign County.
- Rex Mineral Spring, New Richmond, Clermont County.
- Sulphur Lick Springs, Anderson, Ross County.
- Wewoka Spring, near Richards Station, Lucas County.

OREGON.

One new spring is added to the list, bringing the total up to 3. All report as follows:

- Lehman Springs, Hubbard, Marion County.
- Siskiyou Spring, Soda Springs, Jackson County.
- Wilhoit Springs, Wilhoit, Clackamas County.

PENNSYLVANIA.

Four new springs added to the list bring the total up to 21. Of these the following 15 report sales in 1895:

- Aquatone Mineral Spring, Aquetong, Bucks County.
- Black Barren Mineral Spring, Pleasant Grove, Lancaster County.

Cloverdale Lithia Springs, Newville, Cumberland County.
 Cresson Springs, Cresson, Cambria County.
 Eureka Springs, Saegerstown, Crawford County.
 Gettysburg Katalysine Spring, Gettysburg, Adams County.
 Gray Spring, Cambridgeboro, Crawford County.
 Great Indian Spring, Glen Summit, Luzerne County.
 Parker Mineral Spring, Gardeau, McKean County.
 Pavilion Spring, Wernersville, Berks County.
 Ponce de Leon Spring, Meadville, Crawford County.
 Pulaski Natural Mineral Springs, Pulaski, Lawrence County.
 Rosscommon Springs, Wind Gap, Monroe County.
 Susquehanna County Mineral Springs, Rush, Susquehanna County.
 Tuscarora Lithia Spring, McClaysville, Juniata County.

RHODE ISLAND.

There is no change in the Rhode Island list for 1895, and the 3 springs report sales. They are:

Gladstone Spring, Narragansett Pier, Washington County.
 Holly Spring, Woonsocket, Providence County.
 Ochee Mineral and Medical Springs, Johnson, Providence County.

SOUTH CAROLINA.

Only 2 of South Carolina's springs report sales in 1895. They are:

Chicks Springs, Chicks Springs, Greenville County.
 Harris Lithia Spring, Waterloo, Laurens County.

SOUTH DAKOTA.

The 1 spring credited to South Dakota reports sales in 1895. It is:

Hot Springs of South Dakota, Hot Springs, Fall River County.

TENNESSEE.

One new spring is added to the list, making the total 6. Of these the following 4 report for 1895:

Dixie Mineral Spring, Knoxville, Knox County.
 Idaho Springs, St. Bethlehem, Montgomery County.
 Red Boiling Springs, Red Boiling Springs, Macon County.
 Tate Epsom Springs, Tate Spring, Grainger County.

TEXAS.

The list for Texas shows no change in 1895, remaining at 13. Of these the following 10 report sales:

Capp's Well, Longview, Gregg County.
 Dalby Springs, Dalby Springs, Bowie County.
 Hynson's Natural Iron Spring, Marshall, Harrison County.
 Mineral Wells, Mineral Wells, Palo Pinto County.
 Montvale Springs, Marshall, Harrison County.
 Overall Mineral Wells, Franklin, Robertson County.

Rosborough Springs, Marshall, Harrison County.
 Slack's Wells, Fayette County, near Waelder, Gonzales County.
 Tioga Mineral Wells, Grayson County.
 Wootan Wells, Wootan Wells, Robertson County.

UTAH.

Only 1 of Utah's two springs reports sales for 1895. It is:
 Wasatka Springs, Salt Lake City, Salt Lake County.

VERMONT.

One new spring is added to the list, making the total for the State 5.
 Of these the following 4 report sales for 1895:

Clarendon Springs, Clarendon Springs, Rutland County.
 Equinox Spring, Manchester, Bennington County.
 Missisquoi Mineral Springs, Sheldon, Franklin County.
 Vermont Mineral Spring, Brookline, Windham County.

VIRGINIA.

There is no change in the list for Virginia. Of the 34 springs credited to the State, 29 report sales in 1895. They are:

Blue Ridge Springs, Botetourt County.
 Buffalo Lithia Springs, Buffalo Lithia Springs, Mecklenburg County.
 Chase City Mineral Springs, Chase City, Mecklenburg County.
 Cove Lithia Springs, near Wytheville, Wythe County.
 Crockett Arsenic Lithia Spring, Shawsville, Montgomery County.
 Farmville Lithia Springs, Cumberland County, near Farmville, Prince Edward County.
 Harris Anti-Dyspeptic and Tonic Spring, Burkeville, Nottoway County.
 Healing Springs, Healing Springs, Bath County.
 Iron Lithia Springs, Tip Top, Tazewell County.
 Jordan White Sulphur Spring, Stephenson, Frederick County.
 Lake Como Lithia Spring, Henrico County.
 Massanetta Springs, Harrisonburg, Rockingham County.
 Nye Lithia Springs, Wytheville, Wythe County.
 Osceola Springs, near Pleasant Valley, Rockingham County.
 Otterburn Lithia and Magnesia Springs, Amelia, Amelia County.
 Pæonian Springs, Loudoun County.
 Powhatan Lithia and Alum Springs, Tobaccoville, Powhatan County.
 Pine Mountain Springs, Washington County.
 Rawley Springs, Rawley Springs, Rockingham County.
 Rockbridge Alum Springs, Goshen Bridge, Rockbridge County.
 Seawright Magnesian Lithia Spring, Staunton, Augusta County.
 Seven Springs, near Glade Spring, Washington County.
 Shenandoah Alum Springs, Shenandoah Alum Springs, Shenandoah County.
 Steephill Ferro-phospho-magnesium Spring, North Staunton, Augusta County.
 Swineford's Arsenic Lithia Springs, Osceola.
 Virginia Magnesian Alkaline Springs, near Staunton, Augusta County.
 Virginia Waukesha Lithia Springs, Staunton, Augusta County.
 Wallawhatoola Alum Springs, near Millboro Spring, Bath County.
 Wolf Trap Lithia Springs, Wolf Trap, Halifax County.

WASHINGTON.

Two of the 3 springs credited to the State of Washington report sales for 1895. They are:

Cascade Springs, near Cascades, Skamania County.
 Medical Lake, Medical Lake, Spokane County.

WEST VIRGINIA.

One spring is taken from the list, leaving the total 6, of which 5 report. They are:

Capon Springs, Capon Springs, Hampshire County.
 Irondale Springs, Independence, Preston County.
 Salt Sulphur Springs, Salt Sulphur Springs, Monroe County.
 Triplet Well, Calf Creek, Grant District, Pleasants County.
 White Sulphur Springs, White Sulphur Springs, Greenbrier County.

WISCONSIN.

Two new springs are added to Wisconsin's list, making the total 28. Of these 24 report in 1895. They are:

Allouez Mineral Springs, Green Bay, Brown County.
 Bay City Springs, Ashland, Ashland County.
 Bethania Mineral Spring, Osceola, Polk County.
 Castalia Springs, Wauwatosa, Milwaukee County.
 Darlington Mineral Springs, Darlington, Lafayette County.
 Fort Crawford Springs, Prairie du Chien, Crawford County.
 Great Geysers Spring, Palmyra, Jefferson County.
 Lebens Wasser, Green Bay, Brown County.
 Nee-Ska-Ra Mineral Spring, Wauwatosa, Milwaukee County.
 Salvator Springs, Green Bay, Brown County.
 Shealtiel Springs, Waupaca, Waupaca County.
 Sheboygan Spring, Sheboygan, Sheboygan County.
 Sparkling Spring, Milwaukee, Milwaukee County.
 St. John Mineral Spring, Green Bay, Brown County.
 Wautoma Mineral Spring, Waushara County.
 Waukesha Springs, Waukesha County:
 Almanaris Springs.
 Arcadian Spring.
 Bethesda Mineral Spring.
 Elein Springs.
 Fountain Spring.
 Horeb Spring.
 Siloam Spring.
 Waukesha Hygeia Mineral Spring.
 Silurian Mineral Spring.

Summary of reports of mineral springs for 1895.

| States and Territories. | Springs re- porting. | Springs not reporting. | Total used commers- cially. |
|---------------------------|-------------------------|---------------------------|-----------------------------------|
| NORTH ATLANTIC STATES. | | | |
| Maine..... | 9 | 5 | 14 |
| New Hampshire..... | 3 | 1 | 4 |
| Vermont..... | 4 | 1 | 5 |
| Massachusetts..... | 25 | 2 | 27 |
| Rhode Island..... | 3 | 0 | 3 |
| Connecticut..... | 3 | 5 | 8 |
| New York..... | 24 | 7 | 31 |
| New Jersey..... | 2 | 0 | 2 |
| Pennsylvania..... | 15 | 6 | 21 |
| SOUTH ATLANTIC STATES. | | | |
| Delaware..... | 0 | 0 | 0 |
| Maryland..... | 4 | 1 | 5 |
| District of Columbia..... | 0 | 0 | 0 |
| Virginia..... | 29 | 5 | 34 |
| West Virginia..... | 5 | 1 | 6 |
| North Carolina..... | 8 | 0 | 8 |
| South Carolina..... | 2 | 2 | 4 |
| Georgia..... | 2 | 1 | 3 |
| Florida..... | 1 | 0 | 1 |
| SOUTH CENTRAL STATES. | | | |
| Kentucky..... | 6 | 0 | 6 |
| Tennessee..... | 4 | 2 | 6 |
| Alabama..... | 3 | 1 | 4 |
| Mississippi..... | 6 | 0 | 6 |
| Louisiana..... | 0 | 1 | 1 |
| Texas..... | 10 | 3 | 13 |
| Indian Territory..... | 0 | 0 | 0 |
| Arkansas..... | 6 | 1 | 7 |
| Oklahoma..... | 0 | 0 | 0 |
| NORTH CENTRAL STATES. | | | |
| Ohio..... | 12 | 2 | 14 |
| Indiana..... | 10 | 1 | 11 |
| Illinois..... | 12 | 4 | 16 |
| Michigan..... | 13 | 1 | 14 |
| Wisconsin..... | 24 | 4 | 28 |
| Minnesota..... | 2 | 1 | 3 |
| Iowa..... | 4 | 2 | 6 |
| Missouri..... | 8 | 0 | 8 |

MINERAL RESOURCES.

Summary of reports of mineral springs for 1895—Continued.

| States and Territories. | Springs re- porting. | Springs not reporting. | Total used commer- cially. |
|---------------------------------|-------------------------|---------------------------|----------------------------------|
| NORTH CENTRAL STATES—continued. | | | |
| North Dakota | 0 | 0 | 0 |
| South Dakota | 1 | 0 | 1 |
| Nebraska | 1 | 0 | 1 |
| Kansas | 5 | 2 | 7 |
| WESTERN STATES AND TERRITORIES. | | | |
| Alaska | 0 | 0 | 0 |
| Wyoming | 0 | 0 | 0 |
| Montana | 1 | 1 | 2 |
| Colorado | 4 | 4 | 8 |
| New Mexico | 3 | 0 | 3 |
| Arizona | 0 | 0 | 0 |
| Utah | 1 | 1 | 2 |
| Nevada | 0 | 0 | 0 |
| Idaho | 1 | 0 | 1 |
| Washington | 2 | 1 | 3 |
| Oregon | 3 | 0 | 3 |
| California | 16 | 4 | 20 |
| Total | 297 | 73 | 370 |

IMPORTS AND EXPORTS.

Prior to 1884 the Treasury Department did not distinguish natural mineral waters from those that were artificial; since 1883 the distinction has been made, but the artificial waters have not been classified according to the receptacles in which they have been imported. The importation is shown in the two tables following, with a table of exports appended.

MINERAL WATERS.

1043

Mineral waters imported and entered for consumption in the United States 1867, to 1883, inclusive.

| Fiscal year ended June 30— | In bottles of 1 quart or less. | | In bottles in excess of 1 quart. | |
|----------------------------|--------------------------------|----------|----------------------------------|--------|
| | Quantity. | Value. | Quantity. | Value. |
| | <i>Bottles.</i> | | <i>Quarts.</i> | |
| 1867..... | 370,610 | \$24,913 | 3,792 | \$360 |
| 1868..... | 241,702 | 18,438 | 22,819 | 2,052 |
| 1869..... | 344,691 | 25,635 | 9,739 | 802 |
| 1870..... | 433,212 | 30,680 | 18,025 | 1,743 |
| 1871..... | 470,947 | 34,604 | 2,320 | 174 |
| 1872..... | 892,913 | 67,951 | | |
| 1873..... | 35,508 | 2,326 | | |
| 1874..... | 7,238 | 691 | | |
| 1875..... | 4,174 | 471 | | |
| 1876..... | 25,758 | 1,899 | | |
| 1877..... | 12,965 | 1,328 | | |
| 1878..... | 8,229 | 815 | | |
| 1879..... | 28,440 | 2,352 | | |
| 1880..... | 207,554 | 19,731 | | |
| 1881..... | 150,326 | 11,850 | | |
| 1882..... | 152,277 | 17,010 | | |
| 1883..... | 88,497 | 7,054 | | |

| Fiscal year ended June 30— | Not in bottles. | | All not artificial. | | Total value. |
|----------------------------|-----------------|--------|---------------------|----------|--------------|
| | Quantity. | Value. | Quantity. | Value. | |
| | <i>Gallons.</i> | | <i>Gallons.</i> | | |
| 1867..... | | \$137 | | | \$25,410 |
| 1868..... | 554 | 104 | | | 20,594 |
| 1869..... | 1,042 | 245 | | | 26,682 |
| 1870..... | 2,063 | 508 | | | 32,931 |
| 1871..... | 1,336 | 141 | | | 34,919 |
| 1872..... | 639 | 116 | | | 68,067 |
| 1873..... | 355 | 75 | 394,423 | \$98,151 | 100,552 |
| 1874..... | 95 | 16 | 199,035 | 79,789 | 80,496 |
| 1875..... | 5 | 2 | 395,956 | 101,640 | 102,113 |
| 1876..... | | | 447,646 | 134,889 | 136,788 |
| 1877..... | | 22 | 520,751 | 167,458 | 168,808 |
| 1878..... | | | 883,674 | 350,912 | 351,727 |
| 1879..... | 3 | 4 | 798,107 | 282,153 | 284,509 |
| 1880..... | | | 927,759 | 285,798 | 305,529 |
| 1881..... | 55 | 26 | 1,225,462 | 383,616 | 395,492 |
| 1882..... | | | 1,542,905 | 410,105 | 427,115 |
| 1883..... | | | 1,714,085 | 441,439 | 448,493 |

MINERAL RESOURCES.

Imports for years 1884 to 1895.

| Year ended— | Artificial mineral waters. | | Natural mineral waters. | |
|--------------------|----------------------------|---------|-------------------------|-----------|
| | Gallons. | Value. | Gallons. | Value. |
| June 30, 1884..... | 29,366 | \$4,591 | 1,505,298 | \$362,651 |
| 1885..... | 7,972 | 2,157 | 1,660,072 | 397,875 |
| Dec. 31, 1886..... | 62,464 | 16,815 | 1,618,960 | 354,242 |
| 1887..... | 13,885 | 4,851 | 1,915,511 | 385,906 |
| 1888..... | 12,752 | 4,411 | 1,716,461 | 341,695 |
| 1889..... | 36,494 | 8,771 | 1,558,968 | 368,661 |
| 1890..... | 22,328 | 7,133 | 2,322,008 | 433,281 |
| 1891..... | 26,700 | 8,700 | 2,019,833 | 392,894 |
| 1892..... | 16,052 | 9,089 | 2,266,123 | 497,660 |
| 1893..... | 6,086 | 2,992 | 2,321,081 | 506,866 |
| 1894..... | 7,753 | 3,047 | 1,891,964 | 417,500 |
| 1895..... | 101,115 | 19,151 | 2,104,811 | 506,384 |

Exports of natural mineral waters of domestic production from the United States.

| Fiscal year ending June 30— | Value. | Fiscal year ending June 30— | Value. |
|-----------------------------|--------|-----------------------------|---------|
| 1875..... | \$162 | 1881..... | \$1,029 |
| 1876..... | 80 | 1882..... | 421 |
| 1879..... | 1,529 | 1883..... | a 459 |
| 1880..... | 1,486 | | |

a None reported since 1883.

