

Steedman, Dr. Isaiah G. W., Saint Louis, Mo .....	1879-1883
Steele, Hon. John A., Midway, Ky .....	1876-1883+
Steelman, J. R., Little Rock, Ark. [deceased].....	1876-1877
Sterling, Dr. E., Cleveland, Ohio .....	1873-1874
Stillwell, E. M., Bangor, Me .....	1872-1886
Stream, Albert T., North Cove, Wash .....	1877-1882
Sweeny, Robert Ormsby, Saint Paul, Minn .....	1875-1884
Sweney, William M., M. D., Red Wing, Minn.....	1883-1884
Sweney, William W., M. D., Red Wing, Minn. [deceased Aug. 12] .....	1878-1882
Taggart, J. H., Yuma, Ariz .....	1881-1883+
Talbot, Thomas, North Bellerica, Mass .....	1870-1872
Thomas, Pack, Louisville, Ky .....	1876
Timmons, William E., Snow Hill, Md.....	1873
Tompkins, C. H., New York, N. Y. (formerly Rhode Island) .....	1868
Traylor, W. W., San Francisco, Cal .....	1882-1883
Trespan, Capt. J. R., Tarborough, N. C .....	1878-1879
Trockmorton, S. R., San Francisco, Cal.....	1870-1883
Turley, Hon. W. T., Knoxville, Tenn.....	1877-1880
Tyler, Robert, Montgomery, Ala .....	1872-1880
Valentine, C. L., Janesville, Wis .....	1879-1887
Van Antwerp, Dr. William, Mount Sterling, Ky.....	1880-1884
Vance, Hon. Z. B., Charlotte, N. C.....	1878-1879
Wadleigh, John S., Laconia, N. H.....	1874-1876
Walker, John B., Madisonville, Ky. [moved and address lost].....	1878-1883+
Wall, Asa, Winchester, Va .....	1871-1874
Walton, Hon. C. J., Munfordville, Ky .....	1876-1883+
Watkins, S. S., Minn., superintendent .....	1882
Webber, Col. Samuel, Manchester, N. H.....	1876-1881
Weeks, Seth, Corry, Pa., superintendent hatchery.....	1882
Welch, William, Madison, Wis .....	1874-1878
Welsher, H. W., Madison, Wis .....	1878-1881
Welsher, W. A., Madison, Wis .....	1878
Wheatland, Henry, Salem, Mass.....	1857
White, Christian S., Romney, W. Va .....	1877-1885
Wilson, P. M., Raleigh, N. C .....	1880
Woodbury, John G., San Leandro, Cal., superintendent of fishery .....	1883+
Woodruff, George N., Sherman, Conn.....	1880-1884
Woodson, Hon. Silas, Saint Joseph, Mo .....	1879-1883
Woodward, Henry, Middletown, Conn .....	1868-1869
Worrall, James, Harrisburg, Pa .....	1870-1872
Worth, S. G., Morgantown, N. C.....	1878-1883+
Wright, William, Newark, N. J.....	1883-1883+
Dibble, A. B., Grass Valley, Cal .....	1883-1884
Douglass, Henry, Sandusky, Ohio, superintendent .....	1883
Eckardt, Chas. George, St. Louis, Mo., superintendent .....	1883

## 7.—GROWTH AND PROTECTION OF CARP FROM TURTLES, ETC.

By EDWARD STABLER.

[From a letter to Rudolph Hessel.]

Professor Baird and yourself have afforded me so much gratification that I can do no less that again thank you for the pleasure you have

been the means of conferring, for I can now at my pleasure take a 5-pound carp out of my pond, within 300 to 400 yards of my own door.

My pond contains some three-quarters of an acre. The supply of water is brought from the outside through a 4-inch pipe, which near the outlet or draining trough connects with a perpendicular iron pipe, at the top of which the water is discharged. During floods it is stopped in the outside ditch, and passes around the pond. The pond is lined with boards for 100 yards or more, making it proof against rats and cray-fish.

The carp weighed from one-half to three-quarters of a pound when they were received, April 1, 1882. I fed them pretty regularly last summer, and they grew wonderfully. They now come up of themselves to be fed. Last September I took three or four weighing quite 3 pounds apiece, which I returned to the water; and a few days ago, June 28, 1883, I took out a 5-pounder, to show how they increase in size, but did not kill this one either. It was 20 inches long and 8 inches broad, and appeared to have from a gill to half a pint of spawn in it. I do not think that those received spawned last season, as I have seen no young fish as yet.

In a year, if I like, I shall have all the sport desired in the way of fishing. I now have plenty of shooting, in cutting off turtle's heads with explosive shells. I have killed several dozen in this way, and some very large ones, say 12 inches in diameter. I learned from an acquaintance who has some large carp that in draining his pond he found the tails of some of his large fish bitten off, no doubt by large turtles, which were seen there.

On account of my frequent shooting at the pond, the remaining turtles have become almost as wild as wild turkeys, scarcely showing more than the nose above the water, and for a moment only; but it is enough if I can see the head a few seconds, as the shell explodes on striking the water and kills them, and in about thirty-six hours they float on the surface and can be taken out.

I was much surprised recently, when in setting a hook with meat-bait to catch the turtles—they are frequently taken in this way—I caught several eels of about 2 feet or over in length. They could only have entered through the ingress pipe three or four years ago, when of a finger's length, and through wire gauze having a one-fourth inch mesh. They have grown almost as rapidly as the carp.

As soon as my fish have done spawning, I will let off the water and clean out turtles, eels, snakes, and all. Now that I have the fish and am keeping them so successfully I do not intend that depredators shall have the benefit.

Professor Baird has benefited a very large number by the distribution of these and other valuable fish, and he deserves, and doubtless receives, the thanks of hundreds, if not of thousands, far and near.

SANDY SPRING, MD., *June 31, 1883.*