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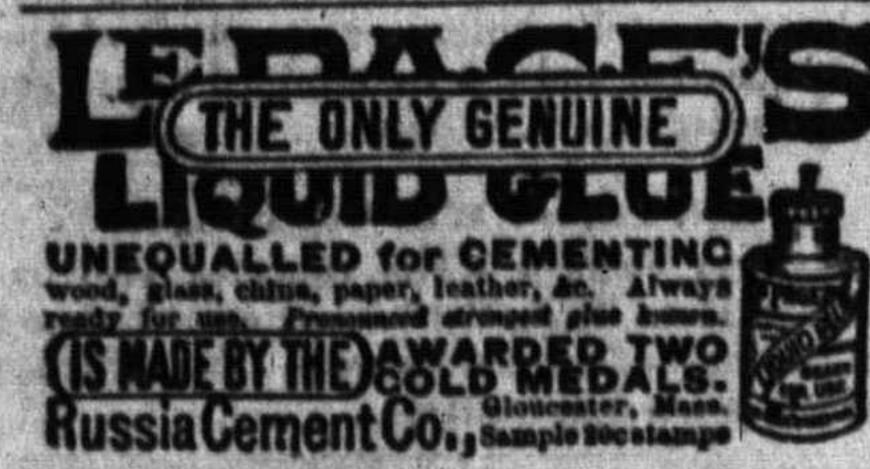
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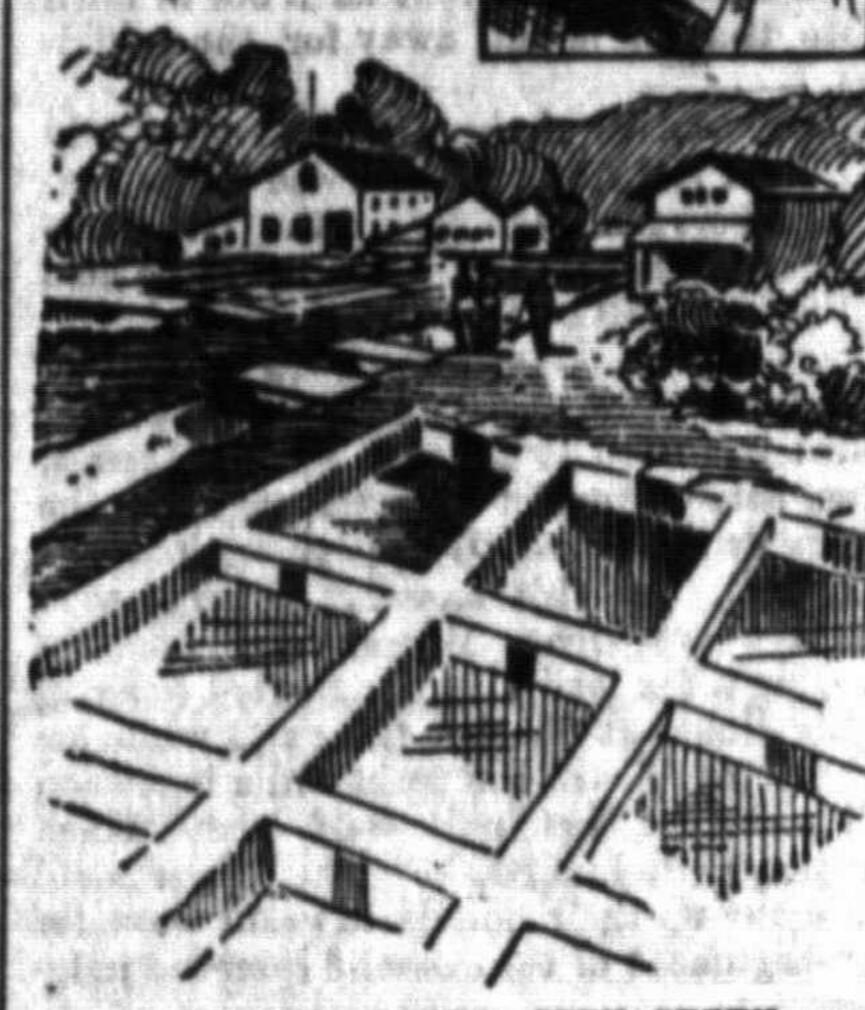
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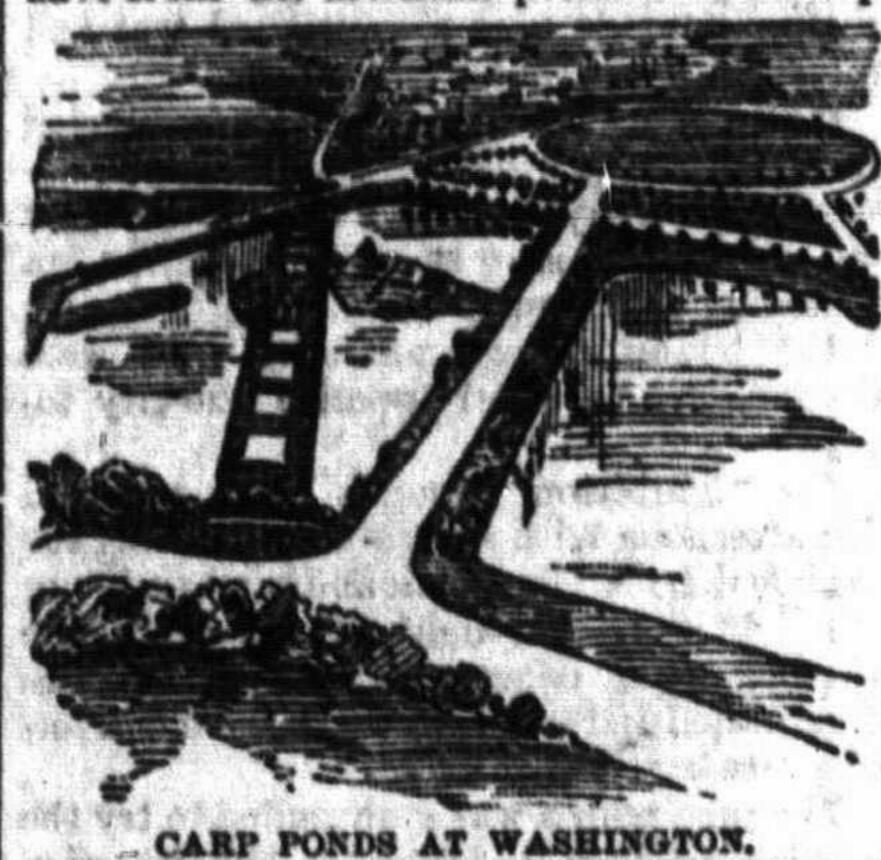
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hold on the public mind that in 1871 the United States congress created a commission of fisheries, with Professor Spencer F. Baird at its head, and soon after fish culture became a regular "fad," with many curious and some amusing results.

Whenever new fish were planted in any stream the old fishermen along its banks began to look out for them, and the result was that scores of peculiar creatures were sent to the experts which proved to be merely old habitues of the stream previously unnoticed. In Utah the Mormons tried various plans to utilize the streams flowing into Great Salt lake. They planted oysters at the mouths of Jordan and Bear rivers; but when the wind sent the lake waters up the stream the strong brine killed the oysters. They next tried W. ADAMS, mnfr. Men's work a specialty planting eels in the Jordan; but the creatures followed the current down into the lake and were soon "pickled." In one instance a very large eel was set afloat in hope that he would work up stream; three months later he was picked out of the shallow water on the east shore by a rancher, who broiled him and found him delicious. He had simply been floating about for three months in strong brine, and might have floated there for years without "spoiling."

In Colorado remarkable success has been attained, and all the valleys between Denver and the mountains are dotted with lovely fish ponds. In the mountains the original trout have been killed by the "tailings" from the quartz mills; but Colorado expects to have from her artificial ponds a richer sup-



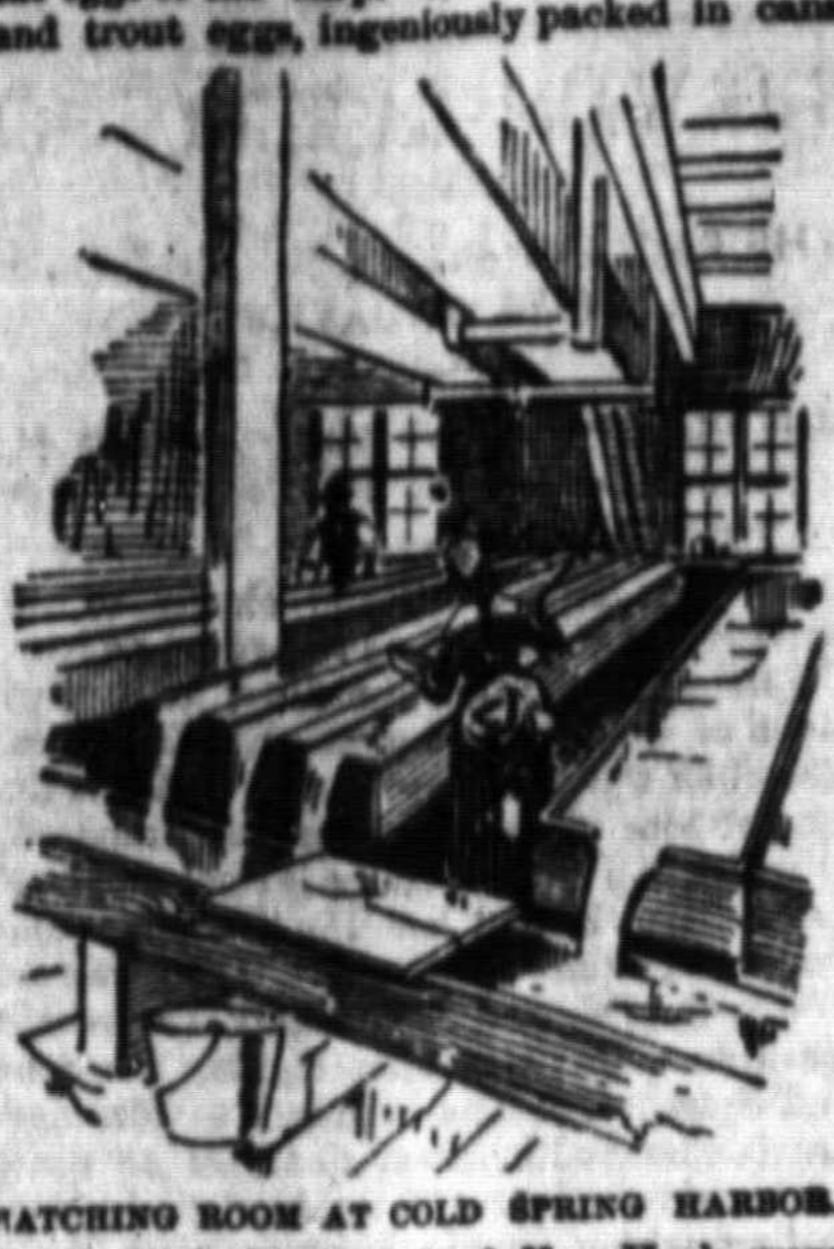
ply of fish food than ever. In all the central west fish ponds abound; and on many a farm in Indiana, Illinois and adjacent states, well stocked pond fed by a "living spring" is an object of great interest and value. The invention of Seth Green's shad hatching box, the transportation tanks devised by the United States commission, the Brackett trays by which the hatching capacity in a small space is multiplied many times, the Ferguson batching jars and numerous other devices have enabled Canada and the United States to exchange with each other and with all the world; and now one may find far up in the Rocky mountains, 8,000 or even 10,000 feet above the sea, young fish whose progenitors were from the North Atlantic and Pacific, from the headwaters of the Columbia and the streams of northern Canada, the elevation securing the cold, clear water which latitude had secured. The extent of this remarkable work cannot be set forth here; the reports of the commissioners of the two countries can alone do it justice.

Perhaps the most curious result of this work has been hybridization, which was first successfully accomplished by Seth and M. A.

Green. By impregnating the eggs of the milt of another

bred the trout or salmon of one coast with those of another and produced hybrids as far removed from either mule; but, unlike that animal, several of these bybrids have proved

S. F. BAIRD. prolific, thus creating new species. In many instances, however, no reproduction has been discovered. It has also been discovered that the eggs of some species are adapted to hatch in still water, others in a current and still others in an eddy; the eggs of the shad follow the current, gliding around obstructions, while those of the smelt, herring, carp and others have a glutinous coating, which makes



many other parts of the world and native species received in turn; and it is believed that in a few years every nation will have in It would require many columns to simply mention the American streams and lakes stocked with new fish, the boats employed in the service, the "ways" constructed to enable fish once more to ascend their old favorite streams, whence they had been cut off by dams, the interesting reports and other work of the commission.

The hatching room at Cold Spring Harbor, L. I., is a good specimen of the class, and asalmost the entire process from "squeezing" the "ripe male" and mingling the discharge with the eggs of the female, down to the time when the eggs are developed sufficiently for the eyes to appear, in which condition fishes are hached side by side, the tanks being supplied by the needed element. This belongs to the state of New York, as also does that at Caledonia, which was made famous by Seth Green.

all this work, but it is known that it will be immense. The popular interest in the subject was shown at the noted fisheries exhibition at Berlin in 1880, where all the leading nations except France made handsome displays of their progress. It is also manifest in the fact of an enlightened public opinion all over the country; where but a few years ago the destruction of the fish in a stream was but a trifle it is now regarded as a crime. So many streams and lakes have been stocked and with such success that we may safely anticipate a vast increase in man's food supply.

BASEBALL IN NEW ENGLAND.

Manager spence Gives Reasons for Its

Manager Spence, of the Indianapons cup, was for several seasons actively connected with baseball in New England and therefore qualified in a manner to give an intelligent opinion on the status of the game in that section. He says: "The financial failure of the clubs, as a whole, in the New England league, is the natural sequence of high salaries. They were by no means small when I was in Portland, but now I understand they are larger than ever. They are too high. With salary lists of from \$900 to \$1,000 per month, a circuit of cities close together, evenly matched and well managed clubs, I think a league could be easily made a success. In the west clubs are run on a more liberal scale. They will run clubs out there at a loss and spend \$1 more quickly than they spend 10 cents in the cast. The attendances are better, too. Then some years are better than others, and the fever fluctuates among the cities. There is no limit, however. I never saw a city yet where the people would go down into their pockets year after year." "How do you account for the falling off in

attendance in the New England cities?" "It is hard to account for it. It may be the changes in the League, which always affects the interest. It may be a satiety of baseball. Lowell has got a championship team, and thinks it has done its duty by it, and reads the papers, instead of bestowing generous support. We had on each of four occasions last season 3,000 people to see our games in Lowell. I don't know how we would have lived but for Lowell."

"Then you do not think the interest is gone in New England league games?"

"By no means. There is no reason why the League should not live on and successfully, but it can only be by a careful study of the causes that have operated against success heretofore."-Sporting Life:

Pitchers' Peculiarities.

Hitting a pitcher hard always brings out the little peculiarities which he possesses. It is amusing to watch Getzein, of Detroit, get pounded. The German gets so excited and mad that he can't talk straight, and stutters "Y-o-u b-g st-iff, make me s-ick." Galvin, when hit hard, raises his foot higher. Van Haltren dances about. Mark Baldwin tosses the ball about in his hands. Morris leans forward, as if exhausted, as the ball leaves his hand, and gazes about meekly. Casey trips over his own feet. O'Day tries for delay and pitches a ball every three minutes. Radbourn starts his raise ball. Sowders takes deliberate aim.-Pittsburg Chronicle-Tele-

Pitcher's Arm.

The question is often asked, "How long does a pitcher's arm last?" Ten years ago Spalding, McBride, Cummings, Knight, Bond, Bradley, Galvin, Fisher, Zettlein, Matthews, Nichols, Stearns and Parks were leading pitchers of America. Five years later only Bond, Bradley, Galvin and Matthews were left of this goodly company, and five years after that Galvin is the only one remaining. So in ten years the whole body of pitchers that flourished that long ago has disappeared from the face of the baseball field, and save Galvin there is nothing left to prove that they ever existed.

A very interesting innovation is proposed in billiards. In order to abolish absolutely the possibility of rail play, the plan is to play with two balls only, the count being made by a kiss after the first contact of object and cue balls.

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