Rafting on the Mississippi

Fred E. Boeckh

Iowa State University

Follow this and additional works at: https://lib.dr.iastate.edu/amesforester
Part of the Forest Sciences Commons

Recommended Citation
Available at: https://lib.dr.iastate.edu/amesforester/vol80/iss1/3

This Article is brought to you for free and open access by the Journals at Iowa State University Digital Repository. It has been accepted for inclusion in Ames Forester by an authorized editor of Iowa State University Digital Repository. For more information, please contact digirep@iastate.edu.
Rafting on the Mississippi
by Fred E. Boeckh, '28
Forest and Timber Superintendent for the Burlington Basket Company

In 1844, nearly a hundred years ago, the first log raft was floated down the Mississippi River. No power was used. The raft moved with the current and was guided by long oars or sweeps fastened on the back or stern of the raft. Strenuous working of the sweeps was required to keep the cumbersome raft in the main channel of the river.

It was not until 1863 that steamboats were used to push the rafts. By that time, pine logs were being transported on the Mississippi from the mouths of the Wisconsin, St. Croix, Chippewa and Black Rivers to points as far south as St. Louis.

Many thrilling tales have been told of those glamorous rafting days: how the logs were first "driven" down the smaller streams to the big river, sorted and formed into rafts and towed to the sawmills farther south. Often the rafts were grounded on the numerous bars or "broken up" on the point of an island or the pier of a bridge. Then the logs had to be "picked up" and entirely re-rafted before completing the downstream journey. Thousands of logs were lost going down the river. Months were required to make the trip.

In the days following the Civil War and continuing until around 1910, rafts could be seen on the river at almost any time of the day or night. Today a raft on the Mississippi is a rare sight and can only be seen on parts of the river. Many changes have been made in the methods of rafting and towing the logs. Motor driven launches have, for the most part, supplanted the more expensive steamboat. Rafts of five hundred logs are large now, whereas in the olden days a raft often contained ten thousand logs with more than a million board feet of material.

No other method of transporting logs from the forest to the factory has been found to be as cheap as this old time way, especially when the timber and the mill are both close to the river. The cost per thousand board feet per mile is less than three cents or at least five times as cheap as the same distance by railroad.

Almost all of the two million board feet of logs used yearly by the Burlington Basket Company are transported to the factory at Burlington by raft. The company owns over five thousands acres of Mississippi River bottomland between Burlington and Dubuque. Logs from this land are rafted and floated down the river distances ranging from ten to two hundred miles.

Mature trees from the company-owned forest areas or from privately-owned timberlands are cut mainly in the winter. The logs are hauled to the main channel of the river and piled along the high banks until the ice moves out in the spring. Hardwood varieties such as soft maple, cottonwood, white elm, red birch, sycamore, hackberry, and white ash are cut. Care must be taken to insure plenty of the good floating varieties like the soft maple and ash, which are piled with the low-floating elm, birch, and cottonwood. At the time of rafting, a good floater is placed alongside the poor floater in order that the entire raft floats high in the water. Even the buoyant varieties will become "waterlogged" after being in the water for any length of time; so the rafts must be taken out of the water soon after they reach their destination to avoid sinking.

The floods on the Mississippi River, which overflow the island and bottom lands, generally occur soon after the ice
leaves the river in the spring. Not every year do we experience these floods, but when they do occur it is almost impossible to prevent loss of logs if they are not all rafted before the water overflows the banks of the river.

No time can be lost in getting the logs rafted in the spring. With the water ice cold and the strong spring winds, this is a difficult task. Nor is it an easy job to guide the rafts during high water, with the treacherous currents, adverse winds and high waves. Landings are difficult and many times two and three lines have to be stretched to shore before the raft is landed for the night. Rafts are now rarely towed at night and each evening they must be tied to shore at a place in the channel protected from the wind and waves.

Progress down the river is very slow. The speed of the stream is between two and a half and four miles per hour. The power of the boats increases this by several miles so from ten to fifteen hours are required to travel a distance of forty miles.

In the old rafting days, when pine logs were being towed, the logs were not fastened together. A boom or enclosure was first formed by joining the ends of long logs, and other logs were placed close together inside this boom. Ropes were stretched from one side of the boom to the other across the logs. Drawing these ropes very tight made the raft solid and as the pine logs floated high there was no danger of the logs "ducking" under the boom in rough water. The boom thus formed the entire raft afloat. They are now made rigid by placing small saplings or binder poles at right angles of the logs and at both ends. An eight inch square boat spike is driven through the pole into the log. The logs vary in length from ten to twenty feet; so the binder poles are spaced about ten feet apart in order to catch both ends of all the logs. A few years ago wooden pines were used in place of the boat spikes to fasten the binder pole to the log. The holes were drilled with large hand augers through the pole and part way into the log. An ash or oak pin was driven into this hole. Such an operation was a slow, difficult job, which required a large crew of men and wasted a portion of the log. The wooden pin has now been almost entirely discarded for the quicker and cheaper boat spike.

When the raft reaches its destination, the spikes are pulled out and straighten for use again. A still better method of fastening the logs is that of using the old time chain dog or ring dog. This consists of a few links of chain with a piece of pointed steel called a dog at each end. One dog is driven into the log, the chain goes over the binder pole and the other dog is also driven into the log. Driving both dogs into the log will draw the chain tightly over the pole and the log is thus securely held in place. These chains are more expensive, costing about thirteen cents a piece, but they can be used over and over again, are easier to remove and do no break off in the log during rough weather as the spikes occasionally do.

Brails are now from 150 to 200 feet long, and a raft is generally made up of three brails side by side, making a total width of about sixty feet. The boats are "hitched" into the
stern of the raft and lines extend from the back of the launches to the outside corners of the raft. This gives the launch more rudder power in swinging the raft. Often more than one launch is used for towing, and even small stern wheel steamers are used. Either the boat is equipped with a small kitchen and sleeping quarters for the men or a cabin boat is carried along for these accommodations.

A crew of from three to five men is necessary on the raft. When the raft is being tied up, each man has his particular station and job. The boats swing the raft around and point it upstream. In this way, the boats can push against the current and help check the speed of the raft. The “head linesman” takes the end of a long rope in a skiff or small row boat, rows to the shore, lands and ties the rope to a convenient tree. The “checker” carefully pays out the line from the raft, his helper keeping the line from being tangled. Gradually, the speed of the raft is checked by wrapping or snubbing the rope around a pole securely fastened down near the center of the raft. If the “checker” attempts to stop the raft too soon, the line will break. When that happens, a second and even a third line may be run to shore before the raft is stopped. To tie up a raft without parting a line or breaking up part of the raft is a difficult task when you consider the tremendous weight of the logs and the speed of the current. It is a time when minutes count and each man must know exactly what to do and where to be. It is always a great relief to the raftsmen when the tow of logs is safely moored for the night.

Rafting today, like in the old days, presents a life of hard work, with many a thrill and a need for quick thinking and action. While it will always be the cheapest means of moving logs to the factory from the timberlands along the river, there will never be a great revival of rafting on the Mississippi. Small scale rafting, like that carried on by the Basket Factory, will doubtless be carried on in various sections of the river for a long time to come. Thus, the art of rafting and towing logs on the big river will not be entirely lost.

Reprinted from the 1933 Ames Forester.

---

PAUL BUNYON
By C. W. Martin

The hush of evening quieted the restless waters of Pelican lake. The sweetly melancholy song of the Hermit Thrush far away in the deep green of pine and balsam, drifted faintly across the rice covered bay announcing the angelus hour of the forest. I ceased my paddling and sat in silent reverance gazing on the flaming crimson of the western sky which silhouetted the slender cathedral spires of the spruces. Suddenly a loud halloo disturbed my reverie and turning quickly I say a grizzled man of enormous stature standing on the rocky shore.

I paddled swiftly to where he stood and, leaping out, I prepared to beach the canoe. Before I could do this the stranger picked up the canoe and set it down on the beach. Then seeing my evident consternation at this feat of strength he laughed heartily showing a set of white teeth beneath a heavy, wiry, moustache which resembled two gray whisk brooms set handle to handle.

“Don’t you know me?” he said. “I am Paul Bunyon.” Shades of Baron Munchausen! So this huge man with the kindly blue eyes and weather-beaten face was the great Paul Bunyon. I meekly introduced myself and asked him to share my cabin with me.

I led the way and Paul crawled through the door and sat down before the fireplace while I cooked dinner. When dinner was ready I asked Paul to dine, but he refused, saying that he had some food with him. Then reaching in his pocket, he pulled out a prune about he size of a Hubbard squash.

“This is my meal,” he said. “I produced this by crossing a California prune with a native son. As a result this prune is as full of energy as a native son is full of wind. So you see I am always well supplied with energy.”

After the meal Paul stowed away 4 plugs of Peerless in his cheek and we started into discuss Paul’s work and his associates.

“Where’s Brimstone Bill and the blue ox Babe?”

“Oh they are down in Virginia, Minnesota. You see Prout has opened up another iron mine there and we’re hoping there will be enough ore to make the old Babe a complete set of shows. The last one only had enough ore for three shoes.”

To me this seemed a bit incredulous but noting the honest look in Paul’s eyes, I had no