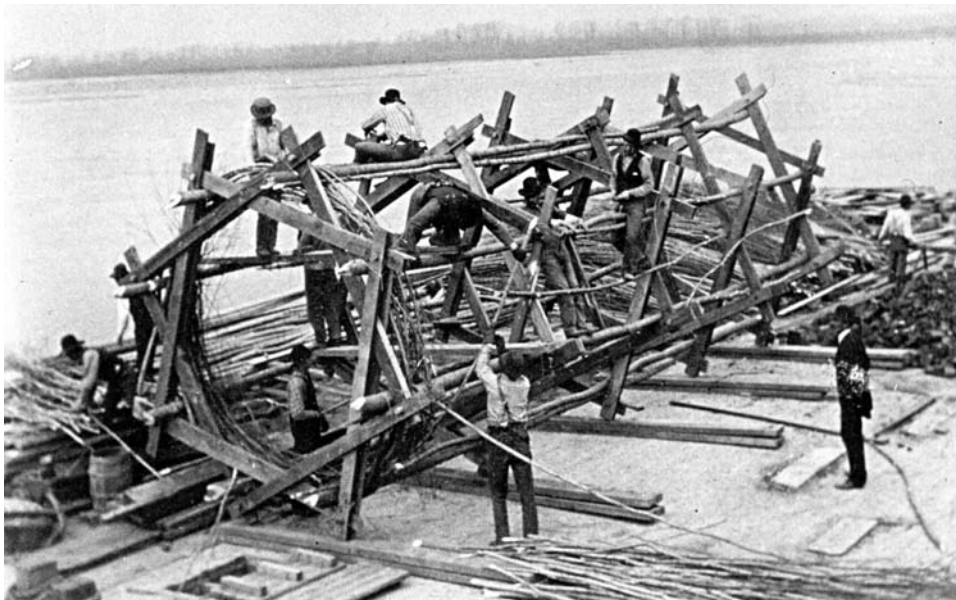




Gabion burs were used historically within streams or rivers for bank stabilization and were placed parallel or diagonal to flows. The gabion burs pictured (below) were built for the Missouri River below Kansas City in 1899. *Photo provided*

Kansas City District History

- ~1918 - Kansas City Navigation Company sells all its boats and barges to a Congressionally created federal barge line, which was authorized to operate between St. Louis and New Orleans.
- ~1923 - Congress appropriates \$1.2 million for channel improvements.
- ~1925 - Development advocates create the Missouri River Navigator Association. Secretary of Commerce Herbert Hoover keynotes initial meeting and describes his vision of a Mississippi Valley system of inland water, which included a nine-foot channel into the heartland with further improvements extending to Sioux City.
- ~1925 - Congress authorizes and directs the Secretary of War and the Federal Power Commission to prepare an estimate of costs to do studies of the nation's navigable streams with a view to planning mutually beneficial combinations of navigation, hydroelectric, flood control and irrigation works.
- ~1926 - Congress authorizes the extension of the navigation channel to Sioux City and authorized to be appropriated \$12 million.



This gabion burr was built for use at Howard Bend near St. Louis Missouri in 1899. *Photo provided*