

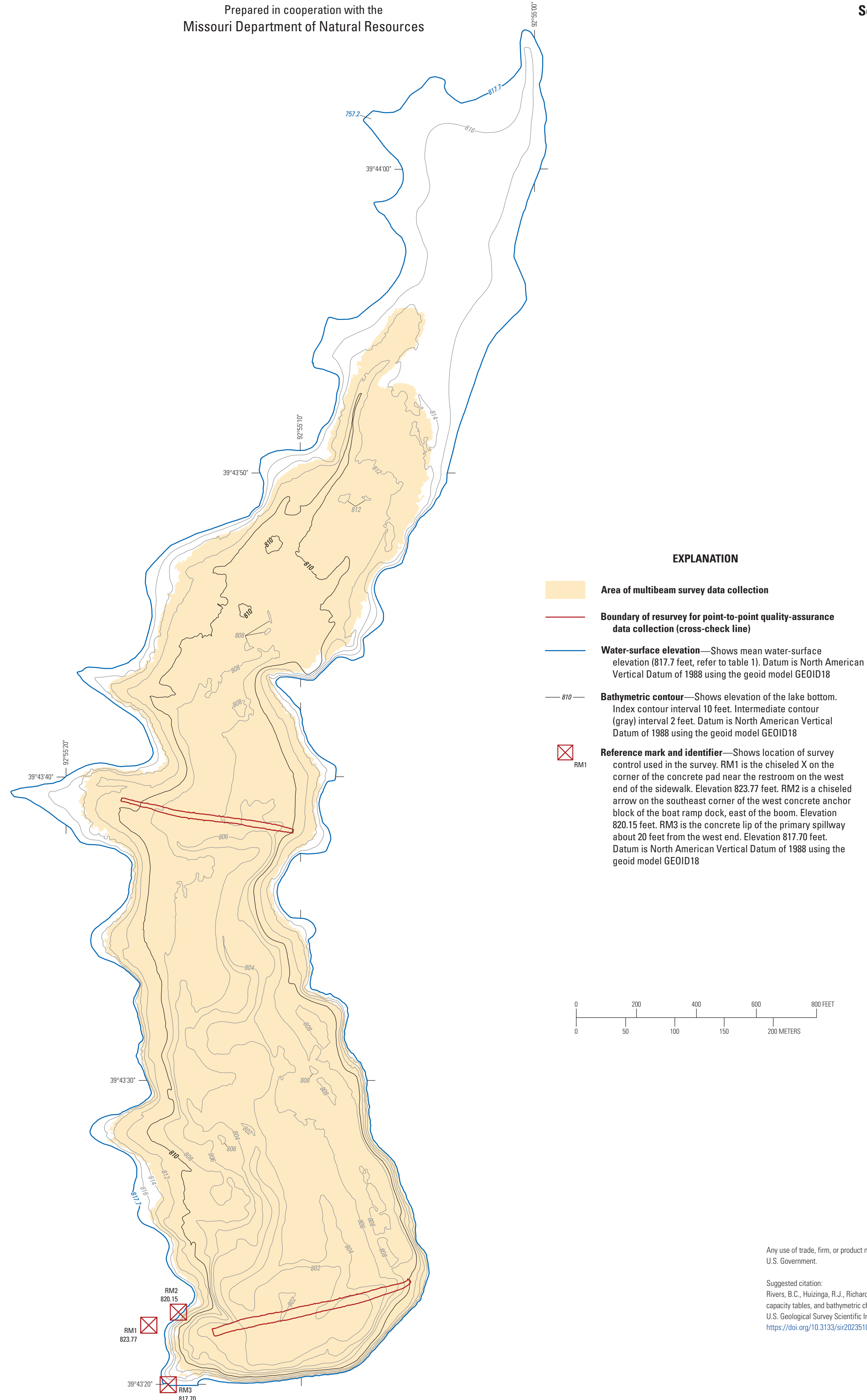
**Table 1.** Surface area and capacity at specified water-surface elevations for Marceline Old Reservoir near Marceline, Missouri, March 31, 2021.

[Primary spillway elevation is about 817.7 feet; the mean water-surface elevation during the survey was about 817.7 feet (row shaded in the table)]

Water-surface elevation, <sup>1</sup> in feet	Surface area, in acres	Capacity, <sup>2</sup> in acre-feet
802.0	2.53	2.19
804.0	6.67	10.7
806.0	13.4	30.5
808.0	22.1	64.8
810.0	32.7	121
812.0	40.7	194
814.0	47.8	282
816.0	56.6	386
817.7	65.4	489

<sup>1</sup>Elevations are referenced to the North American Vertical Datum of 1988 using the geoid model GEOID18.

<sup>2</sup>Capacities were calculated from surface testing at 0.14-foot vertical accuracy at a 95-percent confidence level. An explanation of the vertical accuracy calculation can be found in the "Bathymetric Surface, Contour Map, and Bathymetric Change Quality Assurance" section of the report of which this plate is a part.



Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

Suggested citation:  
Rivers, B.C., Huizinga, R.J., Richards, J.M., and Waite, G.J., 2023, Bathymetric contour maps, surface area and capacity tables, and bathymetric change maps for selected water-supply lakes in northeastern Missouri, 2021: U.S. Geological Survey Scientific Investigations Report 2023–5108, xx p., and 12 oversized plates, <https://doi.org/10.3133/sir20235108>.

ISSN 2228-4328 (online)  
<https://doi.org/10.3133/sir20235108>

## Bathymetric Contour Map and Surface Area and Capacity Table for Marceline Old Reservoir (lake 25) near Marceline, Missouri, 2021

By  
Benjamin C. Rivers, Richard J. Huizinga, Joseph M. Richards, and Garett J. Waite  
2023