

U.S. Department of the Interior U.S. Geological Survey



Scientific Investigations Report 2023–5046 Plate 7 of 9

Table 1.Surface area and capacity at specified water-
surface elevations for Garden City Lake near Garden City,
Missouri, July 13, 2020.

[Primary spillway elevation is about 892.0 feet and the emergency spillway elevation is about 893.1 feet; the mean water-surface elevation during the survey was about 891.5 feet (row shaded in the table)]

Water-surface elevation, ¹ in feet	Surface area, in acres	Capacity,² in acre-feet
880.0	1.02	0.54
882.0	4.00	5.01
884.0	10.6	20.3
886.0	14.4	45.2
888.0	20.5	80.3
890.0	24.4	126
891.5	26.4	164
892.0	27.7	177
893.1	30.4	209

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

²Capacities were calculated from surface testing at 0.09-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.

Bathymetric Contour Map and Surface Area and Capacity Table for Garden City Lake (lake 20) near Garden City, Missouri, 2020

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