

Figure 8. Bathymetric elevations from multibeam bathymetric survey (Smith and others, 2026) and lidar point-cloud data (U.S. Geological Survey, 2022a) for Marion Reservoir, Kansas, 2024.

Table 3. Storage capacity and surface area at selected elevations, Marion Reservoir, Kansas, 2024 (Smith and others, 2026).

(NGVD 29, National Geodetic Vertical Datum of 1929; NAVD 88, North American Vertical Datum of 1988; NOAA, National Oceanic and Atmospheric Administration; USACE, U.S. Army Corps of Engineers. An offset of 0.3 foot was added to convert NGVD 29 elevations to NAVD 88 elevations at Marion Reservoir (NOAA, 2025). Water-surface elevation values in the final row correspond to the upper limit of the bathymetric surface digital terrain model.)

Water-surface elevation (feet above NGVD 29)	Water-surface elevation (feet above NAVD 88)	Storage capacity (acre-feet)	Surface area (acres)	Water-surface elevation (feet above NGVD 29)	Water-surface elevation (feet above NAVD 88)	Storage capacity (acre-feet)	Surface area (acres)
1,322.5	1,323.0	4.38	14.3	1,343.5	1,344.0	38,400	4,380
1,323.5	1,324.0	32.9	44.9	1,344.5	1,345.0	42,900	4,660
1,324.5	1,325.0	101	96.2	1,345.5	1,346.0	47,700	5,020
1,325.5	1,326.0	234	173	1,346.5	1,347.0	52,900	5,390
1,326.5	1,327.0	462	321	1,347.5	1,348.0	58,500	5,730
1,327.5	1,328.0	917	534	1,348.5	1,349.0	64,400	6,060
1,328.5	1,329.0	1,550	745	1,349.5	1,350.0	70,600	6,450
1,329.5	1,330.0	2,430	1,010	1,350.5	1,351.0	77,200	6,900
1,330.5	1,331.0	3,550	1,310	1,351.5	1,352.0	83,800	7,420
1,331.5	1,332.0	4,870	1,640	1,352.5	1,353.0	90,800	7,160
1,332.5	1,333.0	6,440	1,670	1,353.5	1,354.0	98,200	7,500
1,333.5	1,334.0	8,200	1,850	1,354.5	1,355.0	106,000	7,880
1,334.5	1,335.0	10,100	2,000	1,355.5	1,356.0	114,000	8,240
1,335.5	1,336.0	12,200	2,230	1,356.5	1,357.0	122,000	8,610
1,336.5	1,337.0	14,600	2,420	1,357.5	1,358.0	131,000	9,000
1,337.5	1,338.0	17,100	2,660	1,358.5	1,359.0	140,000	9,410
1,338.5	1,339.0	19,900	2,930	1,359.5	1,360.0	150,000	9,800
1,339.5	1,340.0	23,000	3,250	1,360.5	1,361.0	160,000	10,200
1,340.5	1,341.0	26,400	3,560	1,361.5	1,362.0	170,000	10,600
1,341.5	1,342.0	30,100	3,850	1,362.5	1,363.0	181,000	11,100
1,342.5	1,343.0	34,100	4,110	1,363.5	1,364.0	193,000	11,600

<sup>1</sup>Conservation pool elevation (USACE, 2024b).  
<sup>2</sup>Flood control pool elevation (USACE, 2024b).

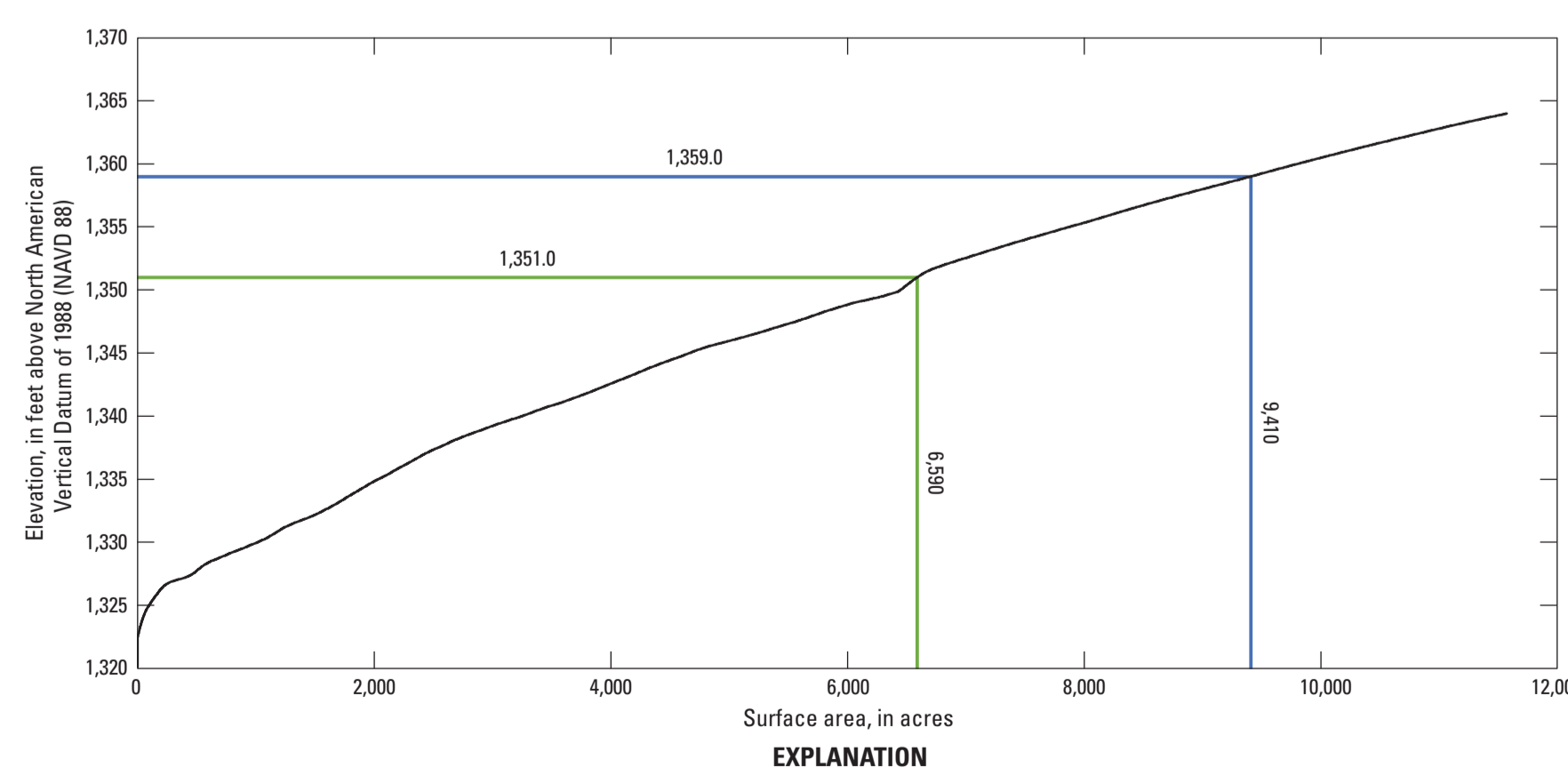


Figure 9. Relation between elevation and surface area generated from combined multibeam bathymetric survey data (Smith and others, 2026) and lidar point-cloud data (U.S. Geological Survey, 2022a) for Marion Reservoir, Kansas, 2024.

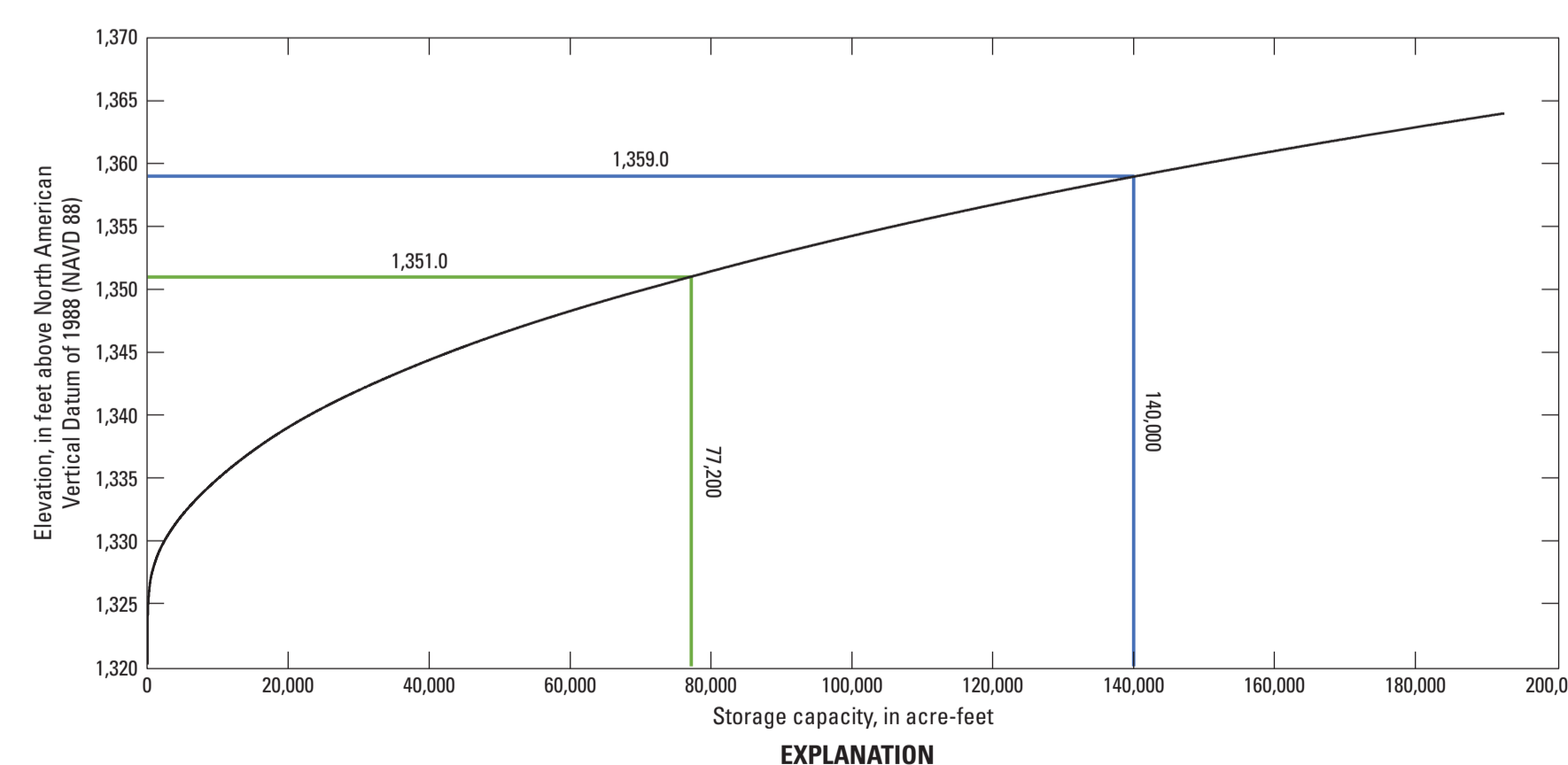


Figure 10. Relation between elevation and storage capacity generated from combined multibeam bathymetric survey data (Smith and others, 2026) and lidar point-cloud data (U.S. Geological Survey, 2022a) for Marion Reservoir, Kansas, 2024.

## Bathymetric Map, Surface Area, and Storage Capacity for Marion Reservoir, Kansas, 2024

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