

Figure 11. Bathymetric elevations from multibeam bathymetric survey (Smith and others, 2026) and lidar point-cloud data (U.S. Geological Survey, 2018, 2022b) for Pine Creek Lake, Oklahoma, 2024.

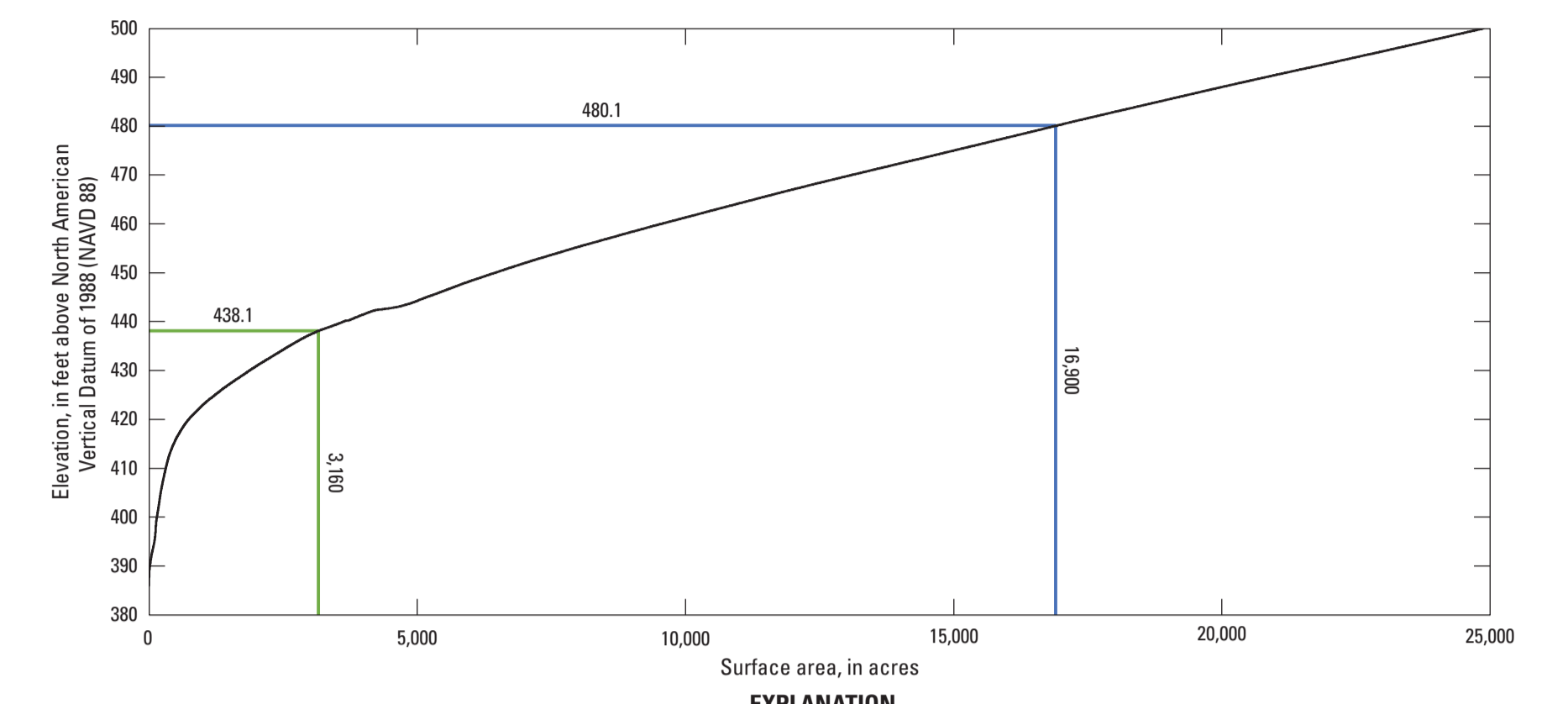


Figure 12. Relation between elevation and surface area generated from combined multibeam bathymetric survey data (Smith and others, 2026) and lidar point-cloud data (U.S. Geological Survey, 2018, 2022b) for Pine Creek Lake, Oklahoma, 2024.

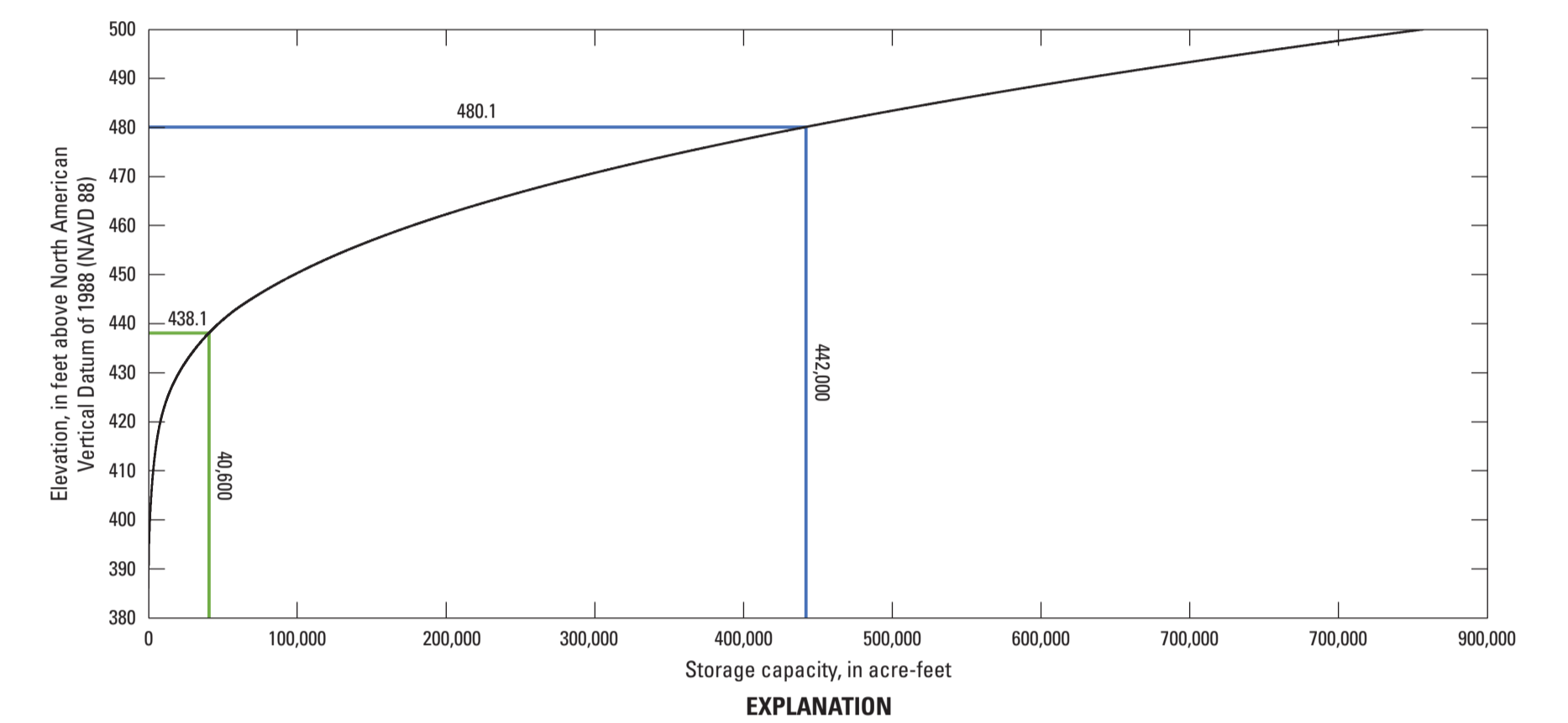


Figure 13. Relation between elevation and storage capacity generated from combined multibeam bathymetric survey data (Smith and others, 2026) and lidar point-cloud data (U.S. Geological Survey, 2018, 2022b) for Pine Creek Lake, Oklahoma, 2024.

Table 4. Storage capacity and surface area at selected elevations, Pine Creek Lake, Oklahoma, 2024 (Smith and others, 2026).
(NAVD 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 0.1 feet was added to convert NAVD 29 elevations to NAVD 88 elevations at Pine Creek Lake (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 NAVD 29)	Water-surface elevation (feet above NAVD 88)	Storage capacity (acre-feet)	Surface area (acres)	Water-surface elevation (feet above NAVD 29)	Water-surface elevation (feet above NAVD 88)	Storage capacity (acre-feet)	Surface area (acres)
389.0	388.1	1.00	2.16	445.0	445.1	69,500	5,200
389.0	389.1	5.26	6.94	446.0	446.1	74,800	5,450
390.0	390.1	17.2	18.0	447.0	447.1	80,400	5,690
391.0	391.1	41.5	30.4	448.0	448.1	86,200	5,940
392.0	392.1	78.5	44.5	449.0	449.1	92,300	6,210
393.0	393.1	131	62.7	450.0	450.1	98,600	6,490
394.0	394.1	205	84.2	451.0	451.1	105,000	6,790
395.0	395.1	298	101	452.0	452.1	112,000	7,040
396.0	396.1	406	114	453.0	453.1	119,000	7,300
397.0	397.1	523	121	454.0	454.1	127,000	7,630
398.0	398.1	648	127	455.0	455.1	135,000	7,940
399.0	399.1	778	134	456.0	456.1	143,000	8,260
400.0	400.1	919	148	457.0	457.1	151,000	8,590
401.0	401.1	1,070	163	458.0	458.1	160,000	8,910
402.0	402.1	1,240	178	459.0	459.1	169,000	9,250
403.0	403.1	1,430	191	460.0	460.1	178,000	9,580
404.0	404.1	1,630	204	461.0	461.1	188,000	9,930
405.0	405.1	1,840	219	462.0	462.1	198,000	10,300
406.0	406.1	2,060	235	463.0	463.1	209,000	10,600
407.0	407.1	2,310	254	464.0	464.1	220,000	11,000
408.0	408.1	2,570	272	465.0	465.1	231,000	11,300
409.0	409.1	2,850	293	466.0	466.1	242,000	11,700
410.0	410.1	3,160	314	467.0	467.1	254,000	12,000
411.0	411.1	3,480	336	468.0	468.1	266,000	12,400
412.0	412.1	3,830	360	469.0	469.1	279,000	12,800
413.0	413.1	4,210	390	470.0	470.1	292,000	13,100
414.0	414.1	4,610	424	471.0	471.1	305,000	13,500
415.0	415.1	5,060	464	472.0	472.1	319,000	13,900
416.0	416.1	5,540	507	473.0	473.1	333,000	14,300
417.0	417.1	6,070	559	474.0	474.1	347,000	14,700
418.0	418.1	6,660	613	475.0	475.1	362,000	15,000
419.0	419.1	7,300	676	476.0	476.1	377,000	15,400
420.0	420.1	8,010	745	477.0	477.1	393,000	15,800
421.0	421.1	8,800	822	478.0	478.1	409,000	16,200
422.0	422.1	9,680	921	479.0	479.1	425,000	16,500
423.0	423.1	10,600	1,020	480.0	480.1	442,000	16,900
424.0	424.1	11,700	1,120	481.0	481.1	459,000	17,300
425.0	425.1	12,900	1,240	482.0	482.1	477,000	17,700
426.0	426.1	14,200	1,360	483.0	483.1	495,000	18,100
427.0	427.1	15,600	1,490	484.0	484.1	513,000	18,500
428.0	428.1	17,200	1,620	485.0	485.1	531,000	18,900
429.0	429.1	18,800	1,750	486.0	486.1	551,000	19,300
430.0	430.1	20,700	1,890	487.0	487.1	570,000	19,600
431.0	431.1	22,600	2,030	488.0	488.1	590,000	20,000
432.0	432.1	24,700	2,180	489.0	489.1	610,000	20,400
433.0	433.1	27,000	2,330	490.0	490.1	631,000	20,900
434.0	434.1	29,400	2,480	491.0	491.1	652,000	21,300
435.0	435.1	31,900	2,620	492.0	492.1	673,000	21,700
436.0	436.1	34,600	2,790	493.0	493.1	695,000	22,100
437.0	437.1	37,500	2,960	494.0	494.1	717,000	22,500
438.0	438.1	40,600	3,160	495.0	495.1	740,000	22,900
439.0	439.1	43,800	3,410	496.0	496.1	763,000	23,300
440.0	440.1	47,400	3,650	497.0	497.1	787,000	23,700
441.0	441.1	51,200	3,910	498.0	498.1	811,000	24,100
442.0	442.1	55,200	4,150	499.0	499.1	835,000	24,500
443.0	443.1	59,600	4,670	499.9	500.0	857,000	24,900
444.0	444.1	64,400	4,960				

*Conservation pool elevation (USACE, 2024c).
†Flood control pool elevation (USACE, 2024c).

Bathymetric Map, Surface Area, and Storage Capacity for Pine Creek Lake, Oklahoma, 2024

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2026

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Digital files available at <https://doi.org/10.2133/sim3549>
Supporter names: Smith, K.A., Pierson, N.W., and Trevisan, A.R., 2026, Bathymetric maps, surface area, and storage capacities of Council Grove Lake and Marston Reservoir, Kansas, and Pine Creek Lake, Oklahoma: U.S. Geological Survey Scientific Investigations Map 3549, 4 sheets. Pp. pamphlet. <https://doi.org/10.2133/sim3549>
Associated data sets: Smith, K.A., Pierson, N.W., and Trevisan, A.R., 2026, Bathymetric maps, surface area and capacity of three selected lakes in central Kansas and southeastern Oklahoma, 2024: U.S. Geological Survey data release. <https://doi.org/10.2133/ds202602>
ISSN 2299-1229 (online)
<https://doi.org/10.2133/sim3549>