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Table DR1. Coring site locations and summary core data for lakes and data sets referenced in this study. Locations are from field GPS recordings, generally $\pm 10\text{m}$ or better. Core recovery reflects the particular core cited; other sites cored within each lake may capture greater sediment thickness. Recovered age reflects the oldest material recovered from the location; calculations of sediment flux may exclude late Pleistocene minerogenic sediment.

Lake name	core latitude	core longitude	sediment recovered, m	recovered age, cal yr BP	year cored
Herd	44.08908	-114.17387	11	2500	2013
Williams	45.01563	-113.97279	4.8	2560	2013
Jimmy Smith	44.168161	-114.401755	23	4950	2014
Carlson	44.28139	-113.75266	4	9040	2012
Hell Roaring	44.02445	-114.934333	5.2	9620	2013
Redfish	44.130965	-114.87555	3.9	10000	2007
Little Redfish	44.16159	-114.90839	4.7	14000	2008
Pettit	43.97969	-114.87751	3	13500	2007
Yellow Belly	44.000617	-114.87555	1.3	7550	1998
Payette	44.920533	-116.10995	1.2	3750	1998
Meadow	44.43248	-113.31594	3.5	14700	2010
Wallace	45.24663	-114.00571	4.8	14500	2010
Bay Horse	44.411683	-114.40305	6	13500	2013
Lava	43.38163	-113.72028	2.5	5600	2010

Table DR2. Chronological data summary for Herd Lake. Listed varve count depths are for 10 percent of the counted laminae. Counts are from high-resolution line scans generated at the LacCore Facility.

depth	method	material	age BP, cal/count	1σ age error, analytical	age error, est ¹	lab ²	^{14}C age
0.25	^{210}Pb	whole sed	-62.4	3.2	-	SCWRS	-
6.25	^{210}Pb	whole sed	-53.1	3.7	-	SCWRS	-
12.25	^{210}Pb	whole sed	-46.1	2.7	-	SCWRS	-
18.25	^{210}Pb	whole sed	-36.4	2.9	-	SCWRS	-
24.25	^{210}Pb	whole sed	-23.8	3.1	-	SCWRS	-
28.25	^{210}Pb	whole sed	-15.7	3.5	-	SCWRS	-
33.25	^{210}Pb	whole sed	-5.2	3.0	-	SCWRS	-
38.25	^{210}Pb	whole sed	7	3.6	-	SCWRS	-
42.25	^{210}Pb	whole sed	19.6	4.2	-	SCWRS	-
52	varve	count	50	-	1.5	LacCore	-
62	varve	count	69	-	2.1	LacCore	-
72	varve	count	84	-	2.5	LacCore	-
82	varve	count	97	-	2.9	LacCore	-
92	varve	count	110	-	3.3	LacCore	-
102	varve	count	124	-	3.7	LacCore	-
112	varve	count	141	-	4.2	LacCore	-
122	varve	count	155	-	4.7	LacCore	-
132	varve	count	172	-	5.2	LacCore	-
142	varve	count	191	-	5.7	LacCore	-
152	varve	count	209	-	6.3	LacCore	-
162	varve	count	225	-	6.8	LacCore	-
172	varve	count	235	-	7.1	LacCore	-
182	varve	count	250	-	7.5	LacCore	-
192	varve	count	262	-	7.9	LacCore	-
202	varve	count	277	-	8.3	LacCore	-
212	varve	count	291	-	8.7	LacCore	-
222	varve	count	305	-	9.2	LacCore	-
232	varve	count	322	-	9.7	LacCore	-
242	varve	count	341	-	10.2	LacCore	-
252	varve	count	354	-	10.6	LacCore	-
262	varve	count	364	-	10.9	LacCore	-
272	varve	count	378	-	11.3	LacCore	-
282	varve	count	398	-	11.9	LacCore	-
292	varve	count	412	-	12.4	LacCore	-
302	varve	count	426	-	12.8	LacCore	-
312	varve	count	438	-	13.1	LacCore	-
322	varve	count	451	-	13.5	LacCore	-
332	varve	count	467	-	14.0	LacCore	-
342	varve	count	484	-	14.5	LacCore	-
352	varve	count	491	-	14.7	LacCore	-
362	varve	count	508	-	15.2	LacCore	-
372	varve	count	523	-	15.7	LacCore	-
382	varve	count	538	-	16.1	LacCore	-
392	varve	count	558	-	16.7	LacCore	-

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402	varve	count	578	-	17.3	LacCore	-
412	varve	count	595	-	17.9	LacCore	-
422	varve	count	622	-	18.7	LacCore	-
432	varve	count	658	-	19.7	LacCore	-
442	varve	count	684	-	20.5	LacCore	-
451	varve	count	693	-	20.8	LacCore	-
461	varve	count	693	-	20.8	LacCore	-
471	varve	count	706	-	21.2	LacCore	-
481	varve	count	741	-	22.2	LacCore	-
491	varve	count	763	-	22.9	LacCore	-
501	varve	count	780	-	23.4	LacCore	-
511	varve	count	808	-	24.2	LacCore	-
521	varve	count	829	-	24.9	LacCore	-
531	varve	count	849	-	25.5	LacCore	-
541	varve	count	864	-	25.9	LacCore	-
551	varve	count	881	-	26.4	LacCore	-
561	varve	count	899	-	27.0	LacCore	-
571	varve	count	921	-	27.6	LacCore	-
581	varve	count	942	-	28.3	LacCore	-
591	varve	count	961	-	28.8	LacCore	-
601	varve	count	980	-	29.4	LacCore	-
611	varve	count	997	-	29.9	LacCore	-
621	varve	count	1016	-	30.5	LacCore	-
631	varve	count	1039	-	31.2	LacCore	-
641	varve	count	1060	-	31.8	LacCore	-
650	varve	count	1083	-	32.5	LacCore	-
660	varve	count	1113	-	33.4	LacCore	-
670	varve	count	1133	-	34.0	LacCore	-
680	varve	count	1169	-	35.1	LacCore	-
690	varve	count	1189	-	35.7	LacCore	-
700	varve	count	1213	-	36.4	LacCore	-
710	varve	count	1236	-	37.1	LacCore	-
720	varve	count	1252	-	37.6	LacCore	-
730	varve	count	1274	-	38.2	LacCore	-
740	varve	count	1300	-	39.0	LacCore	-
747.5	varve	count	1325	-	39.8	LacCore	-
757.5	varve	count	1352	-	40.6	LacCore	-
767.5	varve	count	1386	-	41.6	LacCore	-
777.5	varve	count	1418	-	42.5	LacCore	-
787.5	varve	count	1447	-	43.4	LacCore	-
797.5	varve	count	1483	-	44.5	LacCore	-
807.5	varve	count	1519	-	45.6	LacCore	-
817.5	varve	count	1547	-	46.4	LacCore	-
827.5	varve	count	1588	-	47.6	LacCore	-
1079	AMS ^{14}C	<250 μm charcoal	2530	30	-	CAMS 163783	2450

¹ Maximum counting error estimated at $\leq 3\%$ of age.² St. Croix Watershed Research Station, Science Museum of Minnesota (SCWRS).

LacCore Facility, University of Minnesota (LacCore). Center for Accelerator Mass Spectrometry, Lawrence Livermore National Laboratory (CAMS).