

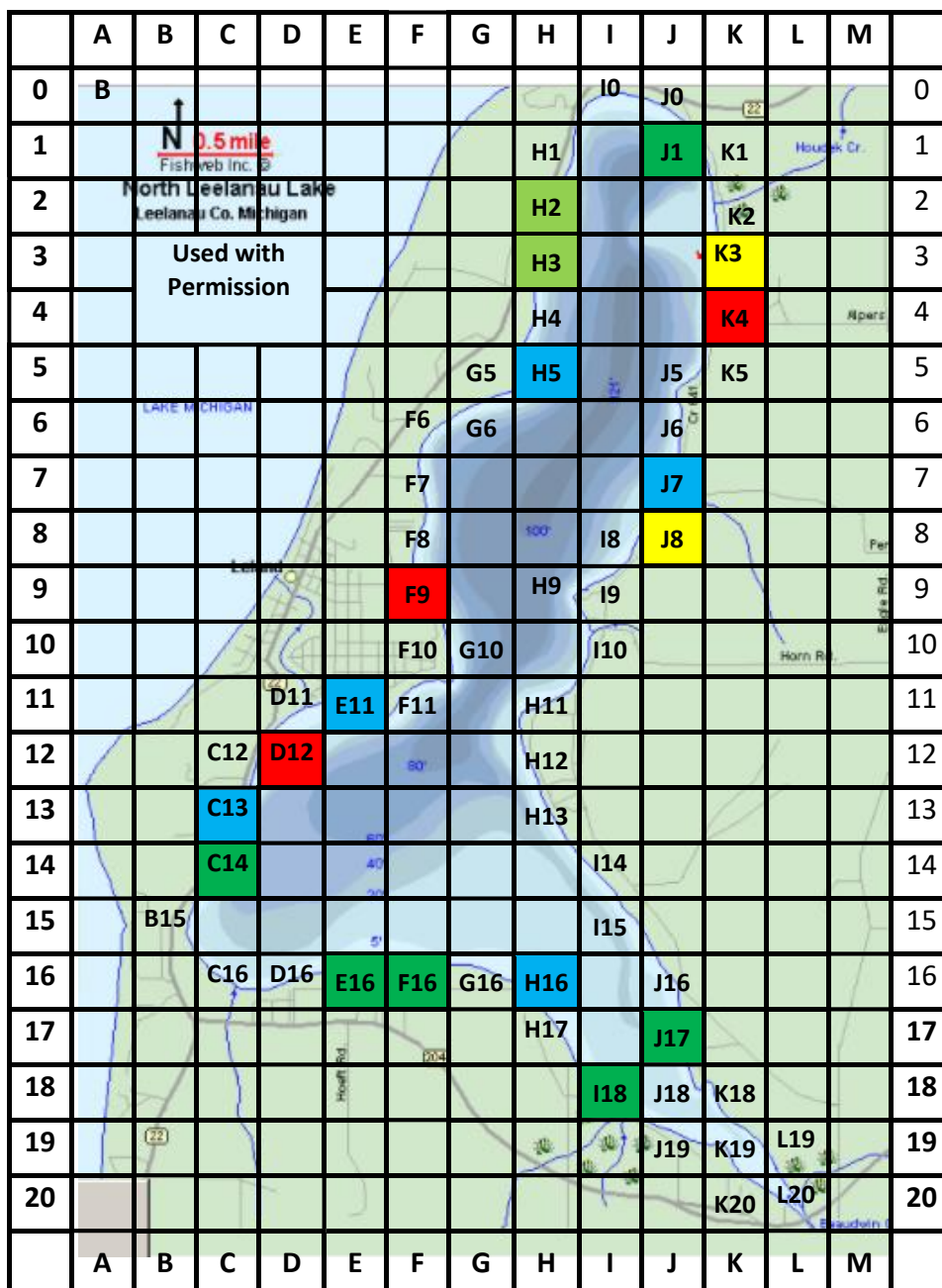
Annual Report North Lake Leelanau Swimmers' Itch Thru 9-11-21

Key to # Cases in Each Quadrant			
1	2	3	4 or more

Swimmers' Itch Summary Statistics					
Lake	# Reports	# Cases	Worst severity from each report		
			Mild	Moderate	Severe
North Lake	40	142	6	29	5
South Lake	10	24	5	4	1

North Lake Familiar Locations

Schneiders Beach (H17); Leland-Chandler St (D11); Leland-4th St. (E11); Nedows Bay(F9); Celebration/Cemetery Pt. (H5); Suelzer Park (K3); Porter Landing Horn Rd End (J6), Wardens Pt (H11).



Annual Report North Lake Leelanau Swimmer's' Itch Reports Comments 9-11-21					
Quadrant	Date	# Swimming	# w/ Itch	Severity	Comments
B15	07/04/2021	10	9	Moderate	Shallow water, some on shoreline some just off shore
B15	08/15/2021	4	4	Moderate	Swimming off-shore from raft to raft.
C13	07/04/2021	8	6	Severe	I reported my family's swimmer's itch cases a couple days ago, but have since discovered two more in our group who have swimmer's itch. Of 7 adults and 2 children who went swimming at the sandbar near M-22 south of the inlet to Leland, 5 adults and 1 child got swimmer's itch for a total of 6 of 8 people. 1 case was mild, 4 were moderate, and 1 is severe.
C13	07/06/2021	4	1	Moderate	
C14	07/04/2021	6	6	Moderate	In front of my house, while putting dock sections in. N. Manitou Trail
D12	6/12/2021	10	10	Moderate	Few houses down from the whaleback trail going away from the river.
D12	07/04/2021	3	3	Moderate	Sand bar by M22. We were in the boat and got out to wade in 3-4 depth spend most of the day there.
D12	06/12/2021	3	3	Moderate	Next to M22 in the sandbar. Anchored in 3-4 water. I reported July 4 recently too. The third person on both weekends were different. I notice for both weekends that I had very few bumps. Where the other two were covered. And the only thing I do differently is use Neutrogena SPF 70 my legs, the other two on both weekends did not use sin block on legs. Maybe the itch organism does not like sun block. But I have to admit that I am not allergic to poison ivy so maybe thats it
D12	07/04/2021	9	4	Moderate	Sand bar on north lake by M-22, between E Oxford Rd and the inlet to Leland.
D12	08/02/2021	5	3	Severe	Left side of straight going into Leland. This is where everyone was anchored up and swimming.
D12	08/02/2021	5	3	Severe	Left side of straight going into Leland. This is where everyone was anchored up and swimming.
E11	06/29/2021	4	1	Mild	One person was the only one walking on the bottom and stirring up the sand, etc. The others were just swimming. It was on her hands and legs.

E11	8/8/2021	3	3	Moderate	End of Grand Avenue. Went into the water off the end of the dock, avoided close to shore. But it's pretty shallow for quite a ways out.
E16	07/11/2021	1	1	Mild	tall cedar trail is in Robinsons Bay on the south side of that Bay
F16	07/04/2021	1	1	Moderate	On E Detzer Rd
F9	6/8/2021	3	3	Moderate	At home on juniper trail - kids playing in shallow water in the morning.
F9	07/04/2021	7	2	Moderate	Nedows bay and by the cemetery. With little kids, in shallow water most of the time.
F9	07/08/2021	4	4	Severe	Leland Yacht Club. Children as well as a number of instructors reported becoming infected during sailing school.
F9	07/17/2021	7	7	Moderate	We were swimming at Nedow's beach. We felt itchy within the first hour so we left and showered immediately. Today some of us have the telltale itchy red bumps. The child who was in the water longest has the most.
F9		2	2	Mild	I had a few incidents over the summer where I felt itchy on my back or other areas I could not see well, but I never found spots. A friend had numerous spots that I saw on her legs, but she said they developed several days after she swam with me at our dock, so I suspect she got them elsewhere.
H2		8	8	Moderate	
H3	07/25/2021	4	4	Moderate	
H5	06/28/2021	7	7	Severe	From Nedows to Brady's Point. Severe problems throughout the month
H5	09/07/2021	3	3	Moderate	We swam in front of our cottage which is just north of Cemetery Point. Three of us swam for about 45 minutes and I have about 20 spots, my wife 12 or 13 and my daughter 9. It is surprising to get swimmers' itch this late in the year.
H16	6/15/2021	5	5	Moderate	We were anchored at the sandbar with our family. Three children, ages 13,11 and 8 got it the worst. They were in the water entire time, only exiting to towel off and leave. All of us towed off briskly and still had many spots of swimmers itch.

H16	07/04/2021	6	6	Moderate	We were swimming in the shallow water of the sand bar. All 6 of us got swimmers itch. My son, husband and sister in law who were down in the water the most got it the worst. It was a very windy day and mid morning through lunch that we were there.
I18	07/16/2021	4	3	Moderate	North Lake Leelanau Dr, One person never gets SI. The rest ranged from 8 to about 50 spots. 50 feet and in towards shore.
J1	06/23/2021	3	3	Moderate	Three kids age 8 through 10 swam early afternoon and were immediately itchy after swimming despite an immediate shower. One developed a rash immediately, the second by the next morning and third kid by later that day. Tons of large bumps/blisters and so itchy. 3 days later, still so itchy and spots not yet diminishing.
J7	06/23/2021	1	1	Mild	Northern part of quadrant. My husband and I were in shallow water as we situated our smaller boats onto lifts for the summer. Although I tried not to dry off until I had rinsed off, I ended up with quite a few spots on my legs and any place where my bathing suit was tight on my skin.
J7		1	1	Moderate	It's always bad over here on the east side up to about three feet of water. I routinely get over 50 at a time.
J17	07/03/2021	5	3	Moderate	They were floating in tubes.
J8	07/01/2021	3	3	Moderate	Stayed in waist deep water about 30 yards off shore
J8	07/01/2021	3	3	Moderate	North lake Leelanau. Stayed in waist deep water about 30 yards off shore
J8	07/04/2021	6	5	Moderate	North lake Leelanau
K3	6/13/2021	1	1	Moderate	Swimming with a wetsuit. Got a moderate amount in exposed areas
K3	07/05/2021	2	2	Severe	We parked at the township park and swam off the steps
K3	08/25/2021	7	7	Moderate	We were swimming shortly after lunch. There was a wind toward shore that day. We were wading with children and were close to shore. It was a warmer day for the week.
K4	6/5/2021	10	6	Severe	At the second dock north of the rock wall- three adults putting dock in the water, 7 kids playing in the shallow water.
K4	6/12/2021	1	1	Moderate	I was not swimming, working on boat hoist. Stood in the water for approximately 30 minutes on 6/12/2021 and 6/13/2021. Thank you
K4	07/03/2021	6	6	Moderate	Off the dock- first dock north of the rock wall

K4	08/08/2021	3	1	Mild	JUST NORTH OF ALPERS. SWAM FOR 30 MINUTES; NEVER IN SHALLOW WATER. WAIST DEEP OR HIGHER THE WHOLE TIME.
K4	07/04/2021	3	2	Mild	The 3 persons were young children and in 3 ft. depth of water for the most part.

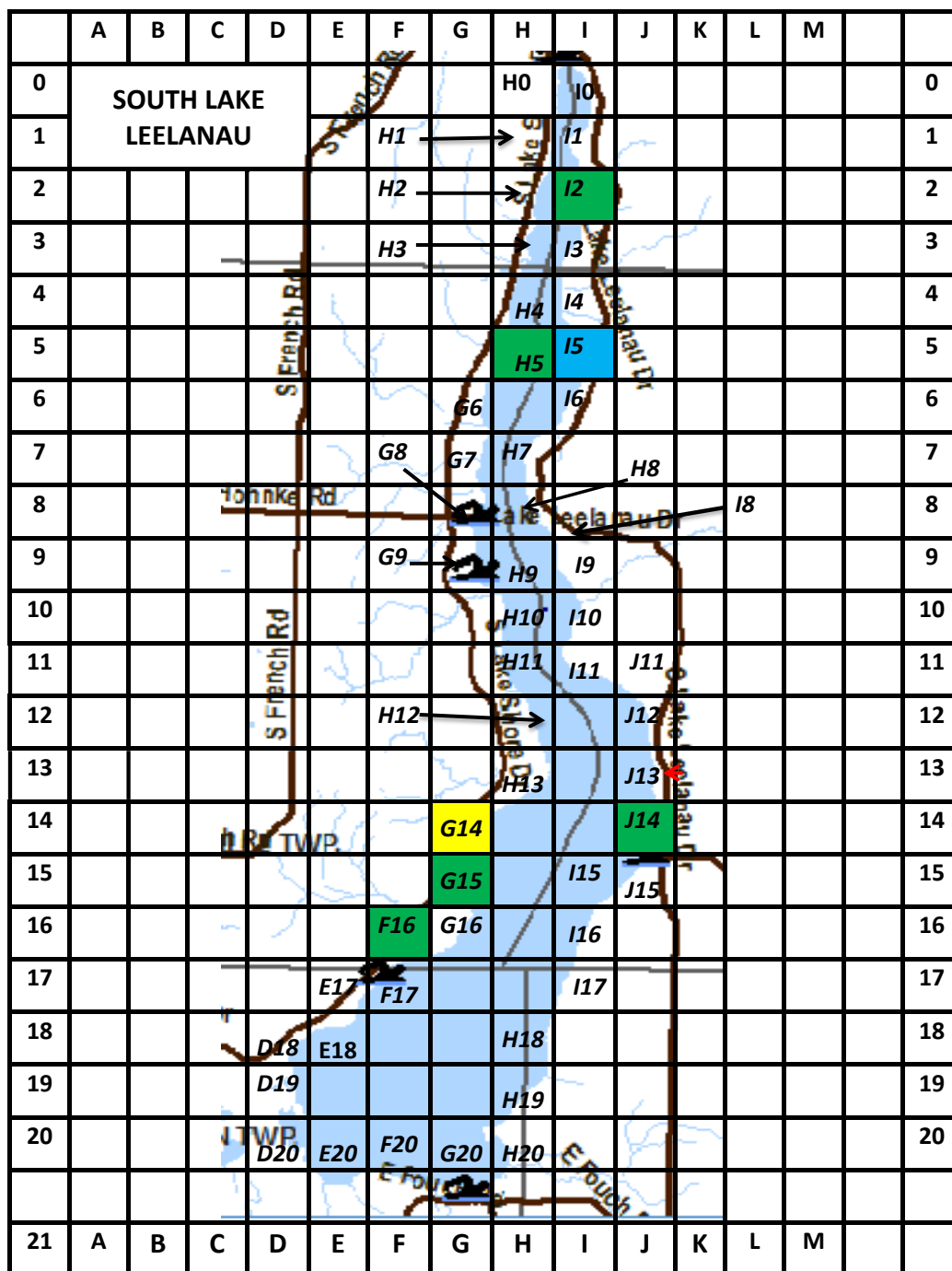
Annual Report S. Lake Leelanau Swimmers' Itch Reports Thru 9-11-21

Key to # Cases in Each Quadrant			
1	2	3	4 or more

Swimmers' Itch Summary Statistics					
Lake	# Reports	# Cases	Worst severity from each report		
			Mild	Moderate	Severe
North Lake	40	142	6	29	5
South Lake	10	24	5	4	1

South Lake Familiar Locations

L. Leelanau RV Pk (G6); Centerville Twp Pk-Honke Rd (G8); DNR Boat Ramp (G9); Kelenski Pt (H13); Leelanau Pines CG (G16); Solon Twp Pk (F17); Perrins Landing (G20); Bingham Twp Park (J14); Merbert Crk. Mouth (I10); Fountain Pt. (I1); DNR Boat Ramp S of Hwy 204 (I0)



Annual Report South Lake Leelanau Swimmers' Itch Comments Through 9-11-21					
Quadrant	Date	# Swimming	# w/ Itch	Severity	Comments
G14	06/20/2021	8	6	Moderate	Kids were swimming in the shallows and we towed dried when done and they still got it
G14	06/12/2021	2	2	Moderate	Glazier Persik Beach. End of the dock in the afternoon.
G14	06/20/2021	3	2	Mild	Glazier Persik beach.
G15	07/17/2021	3	3	Mild	
H5	06/10/2021	1	1	Mild	West shore next to farm (cows) mid morning near shoreline moving rocks around.
I2	06/08/2021	2	2	Mild	We were wading at our shore, adjusting our dock and launching jet skis.
I5	06/05/2021	3	2	Moderate	End of Sandy Ridge Road.
I5	06/18/2021	5	4	Severe	Sandy Ridge road.... Putting in a dock
J14	07/03/2021	8	1	Mild	Bingham Township Park
F16	06/28/2021	2	1	Moderate	On the border of quadrant 16 and 17.