

Loon Observations, Stumpf Lake, Spring 2010

Date	Time	Weather	Activity
9/8/10	8:15-8:40 a.m.		Spot-check, no loons.
9/6/10	9:00-9:30 a.m.	60°F calm	No loons, checked lake extensively.
9/2/10			Email from Kevin Kenow: "I just received preliminary findings from the Wildlife Health Lab...based on gross examination, the Stumpf Lake male had chronic severe respiratory and systemic aspergillosis. Tissues surrounding the transmitter implant did not appear to be adversely affected by the implant. The air sacs have been submitted for fungal culture."
8/29/10	1:30-2:00 p.m.	83°F south wind 10-15 mph	NO loons, checked lake extensively.
8/27/10			Email from Kevin dated 8/26/10 10 p.m. I have some unpleasant news to report. This morning when I checked the satellite location data, I found that the Stumpf Lake male transmission records indicated a cold temperature (about 21 degrees C). A plot of the location data throughout the day indicated the bird drifted SSE in Green Bay to the shoreline just south of Sturgeon Bay, WI. I drove over to Sturgeon Bay and found the carcass this afternoon. I am now in Madison and plan to submit the carcass to the National Wildlife Health Center first thing tomorrow morning for complete necropsy, including testing for type-E botulism. I will keep you posted on any findings. Kevin
8/27	11:45 a.m.-12:30 p.m.	78°F SW wind 10-15 mph	No loons, checked lake extensively and surveyed both East and West Gemini as well.
8/26/10	8:00-8:15 p.m.		1 loon drifting midlake south of the dock.
8/14/10	12:45-1:30 p.m.	77°F Sunny, NW wind 10 mph	Both chicks were diving southwest of the dock. One surfaced with a minnow and either gave it or allowed the other to take it. Near the end of the period, the female wailed, she was quite a bit farther north of the chicks. Later in the day, I used the spotting scope to see if I could still see the 'reddish spot' I noticed on the two previous days and I did not see it.
8/13/10	7:15-7:30 a.m.	69°F Thunderstorm, NW wind	Initially, I could not see any loons from the dock but as I turned away to go to a different spotting location, I heard the female wail three times (2-note, 3-note and 2 note). When I turned back to

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		5-10 mph	the dock, I saw the female with both chicks west of the brick well-house (north of the dock) and they were moving south. (I did not hear wing-beats, so I wonder if she surfaced from a dive and called to the chicks.) She preened and as she did, I seemed to see a reddish spot on her lower left side at the waterline when she was upright. At first the chicks just followed her but then began to circle her with open beaks. At 7:24 she dove for 15 seconds, then 45 seconds, then 78 seconds, and 46 seconds. Occasionally, one chick briefly dove with her (15 seconds) while the other peered. She began feeding them at 7:27.
8/12/10	10:25-11:15 a.m.	Mid 80s°F, sunny glassy calm	<p>The two chicks were between the buoy and the tip of the peninsula, drifting and alert. The female was not in sight anywhere on Stumpf Lake, but there was one adult loon on East Gemini . This loon was preening with bill dips and arranging back and side feathers. I thought I saw a reddish area on the back left side at water level. At the time, I wondered if it was the left orange band of the male, but could not see the antenna.</p> 
8/11/10	2:30-3:15 p.m.	95°F NW wind 5-10 mph	The two chicks were in the southwest corner of the platform bay, in their regular resting location. One chick had its head tucked. The other chick panted and occasionally dipped its open beak into the water. The female was not visible in the platform bay, the inlet bay or north of the pedestrian bridge. However, there was one adult loon on East Gemini.
8/10/10	7:45-8:50 a.m.	71°F glassy calm, humid, overcast	The female was feeding the two chicks southwest of the platform. When she surfaced with minnows, the chicks would race toward her, almost hydroplaning. The chicks also made many hoarse cheeps, begging. At 8:10 she surfaced with a fish and hooted once as she brought the fish to the chick. At 8:12, she stopped diving and began preening: head rubs, oil extraction, washing feathers, and rearing with outstretched wing shakes. At 8:18, she made a 3-note wail and swam south (in my general direction). Immediately after that, I heard a bald eagle call repeatedly behind me. I think the eagle was perched because the call did not change direction and volume until a couple minutes later when it faded to the east. The two chicks were with the female at that point. The female

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			<p>continued to swim with one or both chicks circling her, sometimes with open beaks toward her. The smaller chick seemed to be more insistent than the larger chick. The female held her head high and either ignored them or changed directions. At 8:35, one of the chicks hooted (hoarsely) twice. Then each of the chicks seemed to clack their beaks at the female while they circled her. Shortly after this, the female began peering while swimming and then diving and feeding the chicks again</p>
8/10/10	1:25-2:30 p.m.	Raining	<p>Rice Lake, Paynesville: Local homeowners said that 8-10 loons routinely were found in the bay where the Stumpf male was located on August 5th. From the public access boat landing in the SW corner of the lake (253rd Ave), I saw up to nine birds that might have been loons. On closer inspection, I could confirm that 5 were loons—two seemed to be associated with each other. Water quality does not seem to be as high as Stumpf lake but it is a much larger lake.</p>
8/9/10	7:30-8:15 a.m.	71°F glassy calm, very humid, partly cloudy	<p>The female was feeding minnows to the two chicks (just west of the old brick well-house—north of the dock, south of the pedestrian bridge.) She was making 50 second dives.</p> <p>Kevin Kenow, USGS ecologist, reports that the Stumpf male is still on Rice Lake.</p>
8/8/10	9:00-10:00 a.m.	High 70s°F, glassy calm at first, calm south wind develops	<p>Both chicks were in the southwest corner where they often rest. The chick that was farthest south swam to the other chick. For a minute they circled and seemed to be beak-to-beak. Then this chick swam another 5 meters north and both tucked their heads. I checked the inlet and outlet bays as well as I could and did not see either parent. During that time, the chicks swam north to a point west of the dock. There they started preening. I went to East Gemini where I saw one loon drifting. I could not see an antenna or bands.</p>
8/6/10	2:30-3:15 p.m.	~80°F partly cloud, NW wind	<p>Both chicks were sleeping with their head tucked in the southwest corner where they often sleep. At 2:45 both chicks started moving to the northeast and 2:52, one parent (I think it was the female) appeared west of the dock. She made long dives and started feeding the chicks.</p>
8/5/10	6:00-6:50 p.m.	77° F mostly west wind ~5 mph	<p>The female parent was with the chicks in the southwest corner of the lake where they often rest and sleep. She wailed (2-note) and held her head high looking around, after which one circled her while the other chick's head was tucked. Then she started diving, up to 1 minute and 30 seconds while the chicks followed. After a several long dives she started feeding the chicks near the west shore opposite the dock.</p> <p>Per Kevin Kenow, USGS ecologist, the Stumpf male was on Stumpf lake August 2nd but was on Rice Lake near Paynesville August 5th</p>

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			(Latitude/Longitude: 45.369, -94.628).
7/29/10	8:10-9:00 p.m.	74°F clear skies, glassy calm	<p>Eagle encounter: Initially the two chicks were swimming south toward one parent. The male and female adults were diving along the east 1/3 of the southern arm of the lake. The larger chick was more aggressively following the adults while the smaller chick lagged. At 8:25, the female surfaced with a fish that I estimate was about 15-20 cm in length. It hooted and swam and dove toward the largest (closest) chick. Then she dropped the fish and the chick ate it. The smaller chick hurried to join them. At 8:36 one of the chicks was fed another rather large fish (length 10-15 cm). Near the western shore opposite the dock one of the chicks dove for 30 seconds. At 8:43 the chicks began to swim rapidly southwest where both parents had surfaced. The parents hooted and fed the chicks. At 8:51, the female surfaced with something in her beak. She repeated hit the water with it and with beak up gulped above the surface. Then the female wailed twice (2-note, then 3-note). The male was on the surface closer to the tip of the peninsula and the two chicks were near her. Both parents continued diving and feeding the chicks. At 8:58, one parent had a fish with a diameter that appeared to be ½ to 2/3 diameter of the loon’s head. While recorded this in my notebook, I heard two wails that had very short introductory notes and sharp ending notes—like squeals. I saw that a bald eagle had swooped down by the loon with the fish. There was splashing and the eagle flew up and then swooped down again and then the eagle flew south. The adult loon that was not a part of the encounter postured with outstretched wings at the eagle’s departure. I counted heads and all four loons, parents and two chicks were still there. I assume the eagle got the fish and I wonder if the wails at 8:51 were an alert to the others of the eagle’s presence?</p>
7/26/10	12:45-2:03 p.m.	Mid-70°F SW wind 10mph	<p>Initially one parent was diving with the chicks nearby on the eastern part of the lake. Then the larger chick led the way as the two chicks swam north, and near the dock turned west. At 12:56 I heard a “cheep” which I attributed to one of the chicks (a begging call? Per http://blog.syracuse.com/indepth/2008/07/audio_hear_the_calls_of_the_co.html) The parent was preening and four minutes after I heard the “cheep” the chicks began diving and peering. At 1:04, I saw a chick tip its head back as though it was eating something. The parent approached the diving chicks and wailed a 3-note wail then and reared with outstretched wings. Then a chick reared with outstretched wings and the parent dove. Later the parents were diving near the dock.</p>
7/24/10	3:40-4:30	~80°F Sunny	<p>Checking angle of antenna on male. Male and 2 chicks were in the southwestern corner in the lake. As we approached the male swam away from the chicks and tremoloed repeatedly. Was so disturbed by us that he also ran on the water a short distance.</p>

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			<p>Female was not observed—looked over north and southeast part of lake (not the inlet but using binoculars did not see her there).</p> 
7/23/10	9:09-11:00 a.m.	68°F NW 5-10 mph wind , initially mostly nimbus clouds but at the end of the	<p>Initially both parents were diving and coming up in the same location together. The dives were 30-45 seconds long. The chicks were primarily in the southwestern corner of main body of the lake. My observations were not continuous because I was changing locations to get a better view. At 9:45 both parents were about 1000 meters northeast of the chicks in the main body of the lake. At 9:48, I saw that the male was with the chicks in the southwest corner of the main body of the lake. He stayed nearby as one chick slept with its head tucked and the other chick intermittently circled him, sometimes appearing to tip its beak downward in front of the male. The male sometimes drifted or swam as much as 10-15 meters away from the sleeping chick, often facing north toward the main body of the lake. At 10:13, the alert chick swam south into a patch of seaweeds where it repeatedly dipped its head into the water. I wondered if it was feeding on something in the weeds. The sleeping chick roused a couple of times but was still asleep at 10:45. After the 9:45 observation of the female, I did not see her the rest of the period.</p>
7/21/10	8:30-9:45 a.m.	low 70s F, glassy calm	<p>When I first arrived, the chicks were in the southern part of the lake drifting with their heads tucked, presumably sleeping. The male and female were about 500 meters northeast of the chicks drifting, occasionally panting, occasional foot waggle. Close to 9:00, the Stumpf male which was the farthest NE of the chicks swam past the female, giving three hoots, toward the southwest. When he passed the chicks, they roused and started following him. The female also started following him. When they reached the southeast corner of the lake, where I often see the Stumpf male sleep, the female and two chicks stopped and drifted and eventually all three tucked their heads, presumably sleeping. All four loons were within about 15 meters of one another. While they slept, the male drifted, looking around and made left and right foot waggles, did a head rub and a tail wiggle. After about 10 minutes of sleeping, the female roused and the male tucked its head, presumably sleeping. The female remained alert, with wing stretches, side rolls foot waggles and a couple of peers near the end of the observation period. The male was still asleep when I left and had been for about 15 minutes.</p>
7/20/10	12:00-1:00	77° F, calm NW wind	<p>Initially one chick and two adults were west of the dock closer to the west shore. The second chick was mid-lake west of the</p>

Date	Time	Weather	Activity
	p.m	(~5 mph), partly cloudy	platform. Eventually the two chicks met in the southwest part of the lake in quiet water. The male stayed to the north of them, the female was diving. About half-way through the observation period, the female surfaced near the male and someone hooted. She dove briefly under him then made a longer dive while he peered. Then she swam toward the chicks, both of whom were sleeping. The chicks occasionally roused, but mostly slept the remainder of the observation time. The female stayed with them, initially preening, later just drifting nearby. The male swam farther north and dove occasionally.
7/19/10	8:00- 8:30 p.m.	77°F. sunny, high clouds, calm	Initially the female was swimming south of the dock with the two chicks in tow. The male was west of the dock. After he wailed four times, the female and chicks joined him and both parents began diving.
7/17/10	12:15- 12:45 p. m.	80°F, calm southeast wind	The male was drifting in the south end of the lake, the female was farther north initially but joined the male later. The two (banded) chicks were swimming together. The male followed the female out and peered with her and a chick followed him back when he returned to his "spot" farther south.
7/16/10	11:00 a.m.- 12:35 p.m.	84°F, calm W-SW breeze	Initially the male was drifting and panting in the south end of the lake while the female dove north of him and west of the dock. The chicks either followed her or drifted together. He extended his right foot and occasionally did both left and right foot waggles. Then he tucked his head and apparently slept. At 11:47 a.m. while the male was sleeping an intruder loon landed on the lake about 170 meters west of the female. The intruder appeared to be slightly smaller than the female loon. The female approached the intruder and they made splashy dives together or peered. The chicks moved closer to the dock during this. At 11:54, the male was awake and started swimming slowly toward the female and the intruder loon who were continuing the splashy dives and peering. At 11:58 the male joined the female and the intruder. All circled and made splashy dives. However, the female and the intruder seemed to be the ones having the stand-off—often the male loon stayed above the surface and would peer after the female and intruder dove. This continued until about 12:07 when all started preening and had a few foot waggles. During this time, the male and I presume its mate (it seemed the larger of the two non-male loons) often swam side by side facing the presumed intruder. There was a hoot by someone. The presumed mate of the male also did several bill dips toward the male. And then the splashy diving continued by the female and the intruder and sometimes the male too. Once both the presumed mate and the presumed intruder surfaced with something in their beaks, it might have been weeds. The chicks at this point had moved closer to the commotion. At 12:20 all three adults made long dives (>30 seconds). The male surfaced and with his chest up and neck

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			stretched high apparently looking for the presumed intruder. The presumed mate surfaced near him and she swam with a more level head and joined him. The presumed intruder surfaced about 50 meters from the male and its presumed mate and then made a running start into the wind to take off at 12:27 p.m. The male yodeled twice each time with two repeating phrases. Then the male made a running start into the wind and flew after the intruder. Shortly after that the female followed. Lots of airborne tremolos followed. Just before I left, one of the loons (I'm not sure which) returned to the lake and rejoined the chicks.
7/15/10	2:00 p.m.	77°F W-SW wind 7-10 mph	Both chicks were swimming together toward a diving parent southwest of the dock. I went to a better observation point and saw that the male was drifting close to the western shore (quieter water). The female emerged from a weedy area south of him. After she emerged she did some vigorous splashing both above and below water--I presume to remove the weeds. The chicks were together about 200 feet north of the parents.
7/14/10	12:45-2:00	77°F very humid, sprinkling, calm	Female and two chicks were in the southern part of the lake. The female was diving and feeding the chicks while the male was still north of the pedestrian bridge with its head tucked. It apparently slept for about 15 minutes and then roused. He waggled each foot several times and occasionally stretched one foot out above water.
7/13/10	5:30-7:30 p.m.		Kayaked on Stumpf to find the male. The female was leading 2 chicks away from me as I searched the south side of the lake. I found the male north of the pedestrian bridge preening and diving.
7/12/10			USGS tagging of loons ¹
7/9/10	6:00-8:16 a.m.	61°F glassy calm	Intruder loons and both parents were swimming
7/7/10	1:10-2:05 p.m.	High 70s°F, calm west wind	Two parents dove (45 -60 seconds) in the southeastern part of the lake while the chicks drifted west of them. One chick dove for 15 seconds. One chick seems larger than the other. The chicks started following the parents who fed the chicks. At 1:40 one chick seemed to have its head tucked, presumably napping while the other chick and parent swam side-by-side. Parents occasionally dove, occasionally preened and waggled feet.
7/6/10	3:30-4:00 P.M.	80°F calm wind	The two chicks are west of the platform in the middle of the lake. Both parents are on opposite sides of the lake, one parent is preening. One of the parents wailed (2-note) in response to the

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Lake/Territory	Leg band no.	Capture date	Capture time	Gender	Mass (g)	Culmen (mm)	Head (mm)	Tarsus (mm)	Body length with tail (mm)	Geolocator tag ID	PTT ID	Color bands Right	Color bands Left
Stumpf Lake	1038-94240	12-Jul-10	22:31	Male	4060	87.56	183.99	81.42	789	L250A-1843	55482 S		O/S
Stumpf Lake	1038-94250	12-Jul-10	22:45	Unk	1990	49.67	131.19	76.63	577	.	.	Bs/G	Gs/S
Stumpf Lake	1038-94239	12-Jul-10	22:45	Unk	1840	46.48	116.80	71.88	544	.	.	Bs/Gs	Gs/S
Sagatagan Lake	1038-94241	13-Jul-10	1:00	Male	4470	86.83	202.08	85.50	798	L250A-1778	55480 S		G/S

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			launching of a boat from the dock and both parents submarine-swam (backs below surface of the water). Later the parents began feeding the chicks while the chicks peered. The chicks dove for up to 10 seconds. At one point, a chick reared up and then dove.
7/5/10	10:30-11:00 a.m.	70°F calm	One parent and two chicks were swimming southeast toward the other parent who wailed. The chicks are about ½ to 2/3 the length of the parents and remained in the southwest corner as the parents started diving. The parents twice made long dives (45 seconds) coming up together. When the parents surfaced near the buoy, and hooted 11 times. I could not see the chicks. Ten minutes later the parents started swimming south near where the chicks were last seen. A few minutes later, I saw the chicks swimming from an inlet just south of the platform. One of the parents wailed six times (2-note wail) and the chicks swam toward the parents.
6/29/10	1:40-2:10		Both parents and both chicks were in the south end of the lake. The chicks have dark heads with grayish-brown bodies. All appear to be drifting with heads tucked near the body. The chicks lengths' were about 2/3 the adult length. At 1:59 one parent dove, and the chicks roused. The loons moved northeast but continued to drift during the rest of the observation period.
6/19/10	1:20 p.m.	West wind 5-10 mph cloudy	Two parents and two chicks drifting near the west shore opposite the dock.
6/18/10	1:40-2:45 p.m.	75°F sunny, south-southwest wind, storms the previous afternoon	The loons (2 parents & 2 chicks) were at the south end of Stumpf, and made several two-note wails and a long hoot/monotone wail. The parents dove repeatedly (30 -55 seconds). The chicks stayed close together and followed the parents. When the parents were more than 500 meters from the chicks one of them called a long hoot/monotone wail followed by a hoot. Shortly after that one parent had joined the chicks briefly but both parents continued to dive. The female stopped diving and stayed with the chicks while the male continued to dive. She wailed three times, a 2-note wail, a 3-note wail, and a 2-note wail while the male was underwater. He surfaced near the dock (where I was) and wailed seven times (each a 2-note wail). He swam south toward the female and chicks who were west of the platform. Shortly after that the male reared and stretched his wings and resumed diving. The female remained with the chicks.
6/17/10	8:15-8:45 p.m.	70°F humid calm	Both parents and both chicks were in the southwest corner of the lake. One parent was preening with multiple side rolls. The other parent drifted with the chicks.
6/15/10	11:50 a.m.-12:20 p.m.	60°F heavy rain	Both parents wailed. One wail sounded strangled. The parents were north of the peninsula. One chick was on the parent's back while the other parent peered and dove.

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6/13/10	1:50-2:20 p.m.	69°F calm	A wail, and north of the pedestrian bridge I saw each parent had a chick on its back. The chicks alternately swam or rode the parents back. The parents were swimming with the male seeming to lead. The male wailed and shortly after that the female twice dove briefly (10 seconds). She peered swimming to the male. Both began diving.
6/11/10	4:20 p.m.	66°F high humidity (84%) 7 mpg north wind	From the tip of the peninsula I heard six wails. One parent had two chicks on its back. I think it was the female. The presumed male was preening.
6/9/10	7:30 a.m.	60°F overcast, N-NW wind 10-15 mph	Retrieved egg shell and membrane fragments. Only two egg membranes. Both parents and chicks were along the west shore opposite the dock.
6/8/10	8:00 a.m.	59°F raining	Successful hatching : 2 chicks with adults, piggybacking during heavy rain. ~ 30 days incubation
6/8/10	3:00 p.m.	63°F cloudy, calm wind 3 mph	Parents and chicks swimming toward platform. One parent loon hoots and wails twice. The leading parent appears to be the female (a little smaller than the trailing loon.) Parents are swimming rapidly and the chicks have difficulty keeping up—one chick was as much as 6 body lengths behind the trailing parent. Twice, the leading parent (female?) got on the nest on the platform and settled as though arranging an egg. It stayed a minute or less each time. The trailing loon and chicks circled the platform and one chick got on the platform. Soft hoots. After about 10 minutes of this excursion, the parents swam to mid-lake giving a long hoot that seemed to call the chicks to them.
6/7/10	4:28 p.m.	73°F, SW wind 5 mph	Still nesting.
6/5/10	6:50 a.m.	59°F glassy calm, sprinkling	Still nesting.
6/4/10	7:20 a.m.	66°F humid, partly cloudy, calm	Still nesting
6/3/10	7:15-7:30 a.m.	50°F calm sunny	Intruders : Yodel with 6 repeating phrases heard from Stumpf; tremolo from the north. Four loons swimming together in the middle of the lake, no loon on the nest. During this encounter, there were soft hoots, outstretched wings by more than one loon and a yodels from the home male loon that ranged from 3-5 repeating phrases. Eventually, one by one the intruder loons used running take-offs and flew south. After their departure, the home loons overlapped calls; the male yodeled with 2 repetitions and the female wailed or made long hoots. One of the home loons settled on the nest about 5 minutes after the intruders left.
6/2/10	7:00	53°F Nw	One loon on the nest and the other loon was diving. The two

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	a.m.	wind 5 mph high clouds.	exchanged positions, leaving the eggs uncovered no more than 3 minutes.
6/1/10	6:15 a.m.	60°F calm partly cloud	Still nesting.
5/31/10	4:00 - 4:40 p.m.	80°F west wind 5-10 mph partly cloudy	One loon is on the nest and the other is near the platform at first. The loon on the nest was panting; its mate swam and dove in the south end of Stumpf.
5/28/10	7:40- 8:00 a.m.	59° Clear, calm	One loon on the nest. Its mate performed a variety of activities, preening (side rolls rotating clockwise and counterclockwise, and head rubs) peering, diving, outstretching its wings
5/27/10	6:30- 7:30 a.m.	59°F calm, clear skies	Loon on nest, its mate performed a variety of activities: side rolls, outstretched wings, swimming, foot waggles, then takes about 5 minute long naps with its head tucked on its side while it drifted. After an eagle flies north over the nest, the nesting loon wails twice and looks toward the sleeping loon. The sleeping loon swims toward the nest. Later the sleepy loon yodels five times, each with two repeats. Nothing was observed to prompt this. Then an airborne tremolo from the south east and the male yodeled four times. However, this time there were 3 repeating syllables (do-do, do-do, do-do).
5/26/10	11:30- 1:00	70°F, north wind	Three fishermen were on the dock and the loon on the nest had its head lowered. The other loon was positioned between the dock and the platform and preening with outstretched wings, side rolls. When the fishermen left, the nesting loon raised its head and was panting.
5/24/10	7:30- 8:00 a.m.	77°F humid, partly cloudy	One loon on the platform and the other loon is drifting by the buoy, preening.
5/14/10	1:00- 2:30 p.m.	~70°F west wind 10-15 mph	The nesting loon is sensitive to walkers on the trail behind it (on the east shore), going into a 'hang-over' (lowered head) position. The other loon was W-SW of the platform preening—side rolls, outstretched wings. The loons exchanged positions. The loon on the nest panted.
5/12/10	9:30- 10:00 a.m.	~50°F, overcast, north wind	1 loon on nest, the other loon swam closer, peering and making short dives. The nesting loon appeared to be rearranging nest material. Much of the platform is underwater and only one small pile of grass remains. The loon on the nest left the nest and within 5 minutes the second loon got on the nest, rearranged the egg(s) and settled on it/them.
5/8/10			Incubation begins? 1 loon reported nesting on the platform
5/5/10	7:00- 8:00 a.m.	45°F SW-W wind 10-15 mph	Both loons were swimming north of the pedestrian bridge, occasionally diving, preening and foot waggling. One yodeled twice, each time with 2 repeats. Coordinated splashy dives and bill dips also occurred.
5/3/10	8:00-	46°F S-SW	Both loons were swimming about mid-lake south of the platform

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	8:30 a.m.	wind 5-10 mph, partly cloudy	and one yodeled with three repetitions. Both circled the platform.
5/2/10	12:00 - 1:00 P.M.	56°F W-SW wind >10-15 mph, partly to mostly clouding	One loon diving near the pedestrian bridge (south side); when it swam it swam with only its head above water. The water was rough in this area and the wind strong.
4/28/10	3:30-5:00 p.m.	68°F South wind 10-15 mph	Both loons on the lake sometimes widely separated, sometimes close together making splashing coordinated dives. During one of these encounters, one of the loons broke the surface of the water with a rapid dive parallel to the surface of the water.
4/26/10	4:00-5:30 p.m.	65°F N-NW wind 40 mph	2 loons occasionally making coordinated splashy dives, preening in the area between the dock and the pedestrian bridge. No evidence of nesting on the platform.
4/16/10	7:00-8:00 a.m.	43°F N wind 10-20 mph	2 loons diving occasionally and preening in bay north of the pedestrian bridge swam to the hummocks of grass south of the pedestrian bridge where a goose was nesting. The goose honked noisily when one of the geese approached the nest.
4/14/10	5:30-6:00 p.m.	73°F humid (light rain in the morning, south wind 10-20 mph)	2 loons making coordinated splashy dives by the platform
4/13/10	5:45-6:15 – p.m.	66°F SE wind ~10-15 mph, (thunderstorms in the morning) partly cloudy	Loon called 'home': One loon mid-lake south of the buoy wailed 11 times in 6 minutes. A second loon few in from the NW and joined it. Both loons dove and once seemed to perform 'leap-frog' diving (1 dive under the other, the 2 nd dive under the first). Coordinated splash dives and outstretched wings also took place during this encounter. One loon (female) appears shorter than the other (male).
4/12/10	5:30 - 6:00 p.m.	68°F mostly cloudy, slight breeze S-SW	Goose/territorial encounter: One loon was on the platform rearranging nesting material; the other loon was in the water facing it when a Canadian goose approached the platform from the south. The loon in the water appeared to see the goose first and dove with a splash when the goose neared the platform. The loon on the platform left the platform. Both loons continued to splashily dive repeatedly across (west) the lake. Occasionally, they would lower their heads while facing the goose that appeared menacing (to me!) The goose followed them, turning its head to watch the loons' actions. When the three approached the west shore, one of the loons outstretched its wings and then dove splashily just in front of the goose. The goose continued traveling

Date	Time	Weather	Activity
			north while the two loons swam south and circled back to the platform. On the way back, one of the loons (male) yodeled three times, each with two repeating syllables.
4/11/10	2:00 p.m.	68°F sunny mild wind 5-10 mph from the south Many people on campus	Spotted one loon by Beaver pond, preening.
4/9/10	6:00-6:30 p.m.	63°F light S-SW wind	Courtship/bonding: 1 loon by the Beaver pond (south end of the east channel of Stumpf) swims NE toward the platform. It wailed and a returning wail came from the NW. The Stumpf loon continued to wail 9 more times within 4 minutes. Just before the last wail, there was a yodel from the east, perhaps from Lake Sagatagan. Shortly after the last wail, 2 loons were spotted swimming toward each other. One outstretched its wings and then the two made 8 short coordinated splashy dives. Both outstretched their wings and then swam toward the buoy.
4/8/10	7:30 - 8:15 a.m.	25-35°F sunny, mild NE breeze	2 loons diving/preening.
4/7/10	7:20 a.m.	35-40°F sunny, calm	Possible take-over attempt: 1 flying loon lands on the water near the tip of the peninsula. 2 other loons were already on the lake and were making coordinated splashy dives and peering. The newly arrived loon joined them. One of the loons outstretched its wings during this encounter.
4/6/10	8:45-10:30 a.m.	45-50°F mostly overcast	Courtship/bonding: 2 loons, sometimes swimming together and making short coordinated splashy dives. One stretched wings out during one of these encounters. They also peered simultaneously around the loon platform. Towards the end of the observation period, the loons swam near the hummocks of grass south of the pedestrian bridge causeway. A Canadian goose was nesting in this area.
4/4/10		55°F, north wind	1 loon circled and dove around temperature buoy
4/3/10		55°F, wind 10-20 mph	1 loon swimming near platform
4/1/10	Noon		Placed platform along east shoreline just south the 1910 Sagatagan washout to Stumpf.
3/31/10		Unseasonably warm	Ice out
	7:40		1 loon left the group and with a running start flew over the

Date	Time	Weather	Activity
	a.m.		pedestrian bridge following the lake N-NE. Another loon caught up to it flying in the same direction. Tremolos while flying.
	8:30 a.m.		Male loon near the boat dock yodeled three times, each yodel had 2 repeating phrases (hoo whee <u>do-do do-do</u>) and outstretched its wings. The other loon (female) swam parallel to the peninsula south.
	8:30 p.m.	80°F calm	No loon on the nest for about 5 minutes while both were near the buoy. One of the loons hooted. The male yodeled twice with 2 or 3 repetitions. The female wailed. They made splashy coordinated dives before one of the loons got on the nest, turned the egg(s) and settled down.
	5:00- 5:30 p.m.	71°F partly cloudy, misty	Two parents and one chick on the the north side of the pedestrian bridge. One parent wailed when a canoe came into view while the other reared with outstretched wings.
	3:15 p.m.	Wind gusts up to 20 mph from SE	Both parents and both chicks were still in the southeast corner swimming close together. The chicks were about ¼-1/3 the length of the adult.