
Peamouth Spawning Events in Bellevue

2005-2010



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Thanks to all the Peamouth Patrol volunteers. Their dedication and keen observations made it possible to learn much about peamouth spawning in Bellevue.

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Summary

Peamouth are minnows that are native to Lake Washington. They live most of their lives in the lake, but spawn on lakeshores and in streams. They are known to spawn in at least four Bellevue streams. It is thought that the reconstruction of the fish ladder between Mercer Slough and Kelsey Creek allowed easier access for peamouth beginning in spring of 2004. Volunteers for the City of Bellevue have watched for their spring spawning events from 2005 through 2010, and peamouth have been observed spawning one to five times each year between April and June. Peamouth spawning events in Bellevue were generally observed near the Wilburton Railroad Trestle on Kelsey Creek, though spawning distribution is not well known. Spawning events involved hundreds or thousands of fish, and left the stream bottom coated in a layer of yellow or light brown eggs. Wildlife including raccoons, bald eagles and great blue herons were seen in the area during and after the spawning events. Peamouth have rarely been observed spawning in the upper reaches of Kelsey Creek or the West Tributary, despite regular visits by volunteers during spawning events downstream. These survey efforts are improving upon current knowledge about when and where peamouth spawn, and it is hoped that this information will help our understanding of what triggers peamouth spawning and what can be done to improve their spawning distribution.

Background

Peamouth (*Mylocheilus caurinus*) are a fish in the minnow family, and are native to Lake Washington. They are fairly common and widespread in Washington state, and are also found in northern Oregon, Idaho, western Montana and a few streams in British Columbia and Alberta, Canada. Peamouth are found on Vancouver Island, being one of the few minnows able to live in salt water.

Limited details about peamouth life history and behavior are known, in large part because they are not a popular sport fish; although they reportedly have a “good flavor,” they are very bony (Wydoski and Whitney 2003). There have been times when they have been a common food item, such as during the Great Depression.

Peamouth in Lake Washington can commonly grow to twelve inches in length. Their mouths are shaped like they could hold a pea, which is the reason for their name. They have alternating dark, yellow and reddish stripes along their sides. Peamouth have generally been found in the warmest waters in the lake. They feed largely on invertebrates; midge larvae and snails comprised 75-80% of their diet in one study, which also found bivalves, amphipods and isopods in their stomachs (Nishimoto 1973). Young eat zooplankton, and older peamouth may eat plankton and fish such as sculpin (Wydoski and Whitney 2003). They can live up to about 13 years, and generally become mature enough to reproduce by their third or fourth year. Very little is



Figure 1. Peamouth spawning in a Bellevue stream.

known about where peamouth spawn or what triggers their spawn timing. A single peamouth female can produce approximately 5,000 to 35,000 eggs; bigger fish produce proportionally more eggs (Nishimoto 1973). Unlike salmon, incubation is short, approximately seven days. Juveniles are extremely small (the size of fir needles) and are believed to move directly to the lake after hatching.

Peamouth spawning in the Lake Washington basin has not been well-documented. It is thought that they probably spawn along the lake shore on gravelly beaches and in tributary streams to Lake Washington with suitable gravel, possibly during twilight or at night. One account stated that “peamouth spawn in late May and early June,” and presumed that peamouth “observed in the tributary streams of Lake Washington in late spring” were there to spawn (Wydoski and Whitney 2003). During Lake Washington surveys conducted in 1970, 1971 and 1972, adult fish that were ripe for spawning were caught from late April until late June, and spawning was documented from May through July (Nishimoto 1973). Spawning was documented by examining the fish for evidence that they had spawned, and the percent of spawned fish varied greatly among years sampled, especially in May. Very little actual spawning was documented by surveyors who did spawning surveys by walking along gravelly beaches in 1972. One Bellevue volunteer reported seeing 11-25 peamouth on the beach near the Mercer Island boat ramp on April 22, 2005, but spawning was not verified. Peamouth are also reported to spawn in the Cedar River about three miles from the mouth, and in the Ship Canal between Lake Union and Lake Washington.

Peamouth in Lake Washington were generally found near the lake bottom during the winter at depths of up to 60 feet, and within 20 feet of the lake bottom at depths of up to 200 feet. During the spring and summer they generally move closer to the shore. They were always found where the water temperature was the warmest (Wydoski and Whitney 2003), but it is not known whether this is because of food availability, cover availability, or temperature preference (Nishimoto 1973).

Lake temperatures during spawning in 1972 were between 10.8C to 16.3C, and averaged 12.7C (Nishimoto 1973), and it was speculated that warmer water temperatures may influence spawning timing, or it may be other factors. Lake Washington water temperatures have been increasing on average since 1964 (King County 2007), with warmer and colder trends occurring some years.



Figure 2. Mercer Slough fish ladder (site #445) before being reconstructed (photo on left) and after reconstruction (photo on right) in 2003.

The number of peamouth in Lake Washington is unknown; the variety of species and habitat used by fish in the lake make it difficult to use any one capture method to sample all fish. During the late 1960s and early 1970s, Peamouth apparently were a large component of the fish caught in the areas where they were sampled, comprising around 30-40% of the individual fish captured: fish sampling in the 1970s using vertical and horizontal gill nets with multiple mesh sizes from 1-5-inches year-round captured 16 species of fish, of which peamouth comprised 29.4% (Hansen 1972). Other gill net studies in the early 1970s captured 34.9% peamouth during the spring (Hansen 1970) and 39.8% peamouth in nearshore areas during the summer (Lindsey 1972). Fyke nets and horizontal gill nets set in Yarrow Bay in the spring caught 42.2% peamouth (Walden 1969). Nishimoto (1973) used horizontal gill nets in lakeshore areas around Lake Washington, and captured 22 species of fish, of which 37.1 percent were peamouth.

History of Peamouth in Bellevue

Peamouth were known to spawn in April in Sturtevant Creek, in western Bellevue, as early as the late 1980s and 1990s (C. Paulsen, pers. comm.). The fish ladder in Mercer Slough was known at that time to block peamouth from passing – photos were taken of fish attempting to jump over it and failing. Regular surveys for peamouth were not conducted at Sturtevant Creek, but they probably continued spawning there until the fish passage barrier at Mercer Slough was removed in the summer of 2003 (Figure 2).

On April 29, 2003, Bellevue staff observed peamouth spawning in Sturtevant Creek (Figure 3). Peamouth were also seen at the Mercer Slough fish ladder at 118th Avenue SE and SE 8th Street, but only a few peamouth were able to pass over it.



Figure 3. Peamouth spawning in Sturtevant Creek, Bellevue, April 29, 2003.

On April 28, 2004, the first spring following the reconstruction of the Mercer fish ladder, a peamouth spawning event occurred that stunned biologists from the City of Bellevue: peamouth were so densely packed into Kelsey Creek under the Wilburton Trestle that it would have been impossible to plant a foot without touching a fish (Figure 4),



Figure 4. Peamouth spawning event in Kelsey Creek, April 28, 2004.

and afterwards, the bottom of the stream was literally covered with a layer of sticky yellow peamouth eggs. This was the most peamouth ever seen at one time. Equally shocking was that all of the fish had returned to the lake by the next day, with the exception of a few carcasses.

The surprise arrival and short length of stay led to more questions about peamouth in Bellevue. In response, volunteers were recruited to watch for peamouth during late April of 2005 and to fan out over more streams in Bellevue; thus the Peamouth Patrol began. This report documents the

Peamouth Patrol surveys and results from 2005 through 2010.

Methods

Surveys

Peamouth observations were made by Bellevue staff opportunistically or after receiving calls from the public in the 1990s, 2003 and 2004. Even with immediate response, often the fish had finished spawning and were gone before Bellevue staff could get to the site. The Peamouth Patrol was started by Bellevue's Stream Team program manager, Laurie Devereaux, in 2005: volunteers were recruited, trained to identify peamouth, and assigned to look for peamouth at specific sites. Volunteers were asked to visit their site(s) at least twice a week during daylight hours and look for peamouth for 15 minutes at each site. For the first two years, volunteers signed up for particular dates in advance. When this proved difficult to coordinate and ensure coverage of the key sites, volunteers were asked to check one of three core sites (Mercer Slough Fish Ladder/445, Kelsey at Wilburton Trestle/13A, and Kelsey at 121st Ave SE/13B) at least twice weekly at their convenience, and to visit other sites as they could, and when any spawning was observed anywhere. This resulted in much better coverage, even though sometimes volunteers would visit sites on the same dates. Multiple visits on the same day turned out to be advantageous as a volunteer may not see anything in the morning, but may see tens or hundreds of peamouth in the afternoon.

Starting in 2008, Bellevue had volunteers participate in the Peamouth Lottery, and volunteers who guessed the date of a peamouth spawning event won prizes. Volunteers were asked to immediately notify Bellevue staff when the first peamouth was observed. Bellevue staff would then call all other volunteers and ask them to visit the core sites and other sites as soon as possible.

Volunteers were trained to identify peamouth using photographs and videos, and shown photos and video of the similar-sized largescale sucker (*Catostomus macrocheilus*). Field data collected during Peamouth Patrol surveys included: site number and name, date, start and end times, number of live and dead peamouth observed, number citizens the surveyor talked with, and optional notes about water clarity, weather, and wildlife observations. Beginning in 2008, volunteers were asked to note whether peamouth eggs were present because the eggs are a good indicator of spawning, and it helps to better document the start and end of each spawning event. The 2009 survey form can be found in [Appendix A](#).

Egg Incubation

Bellevue staff collected a small number of peamouth eggs on May 9, 2005 from the West Tributary of Kelsey Creek. The eggs were held in a small aquarium with an aerator at temperatures between 65 and 72 degrees Fahrenheit. Time to hatching and the size of the young fish were measured, and the fish were returned to the site where they originated within two days of hatching.

Sites

Peamouth observation sites were located where peamouth were believed to be likely to spawn and where the creek could easily be seen from public property. Since the Salmon Watcher program (volunteers watch for spawning salmon in the fall) already had a map of such sites, these same sites were used for the Peamouth Patrol (Figure 5). For the first two years, volunteers signed up for sites convenient to them. Starting in 2007, volunteers watched for peamouth first at the Mercer Slough fish ladder (site 445) and at Kelsey Creek under the Wilburton Trestle (sites 13A and 13B), because these

were the areas of greatest spawning activity, then viewed other sites. If peamouth were seen at any of these sites, the volunteers notified Bellevue staff, who then called the remaining volunteers so other sites could be visited.

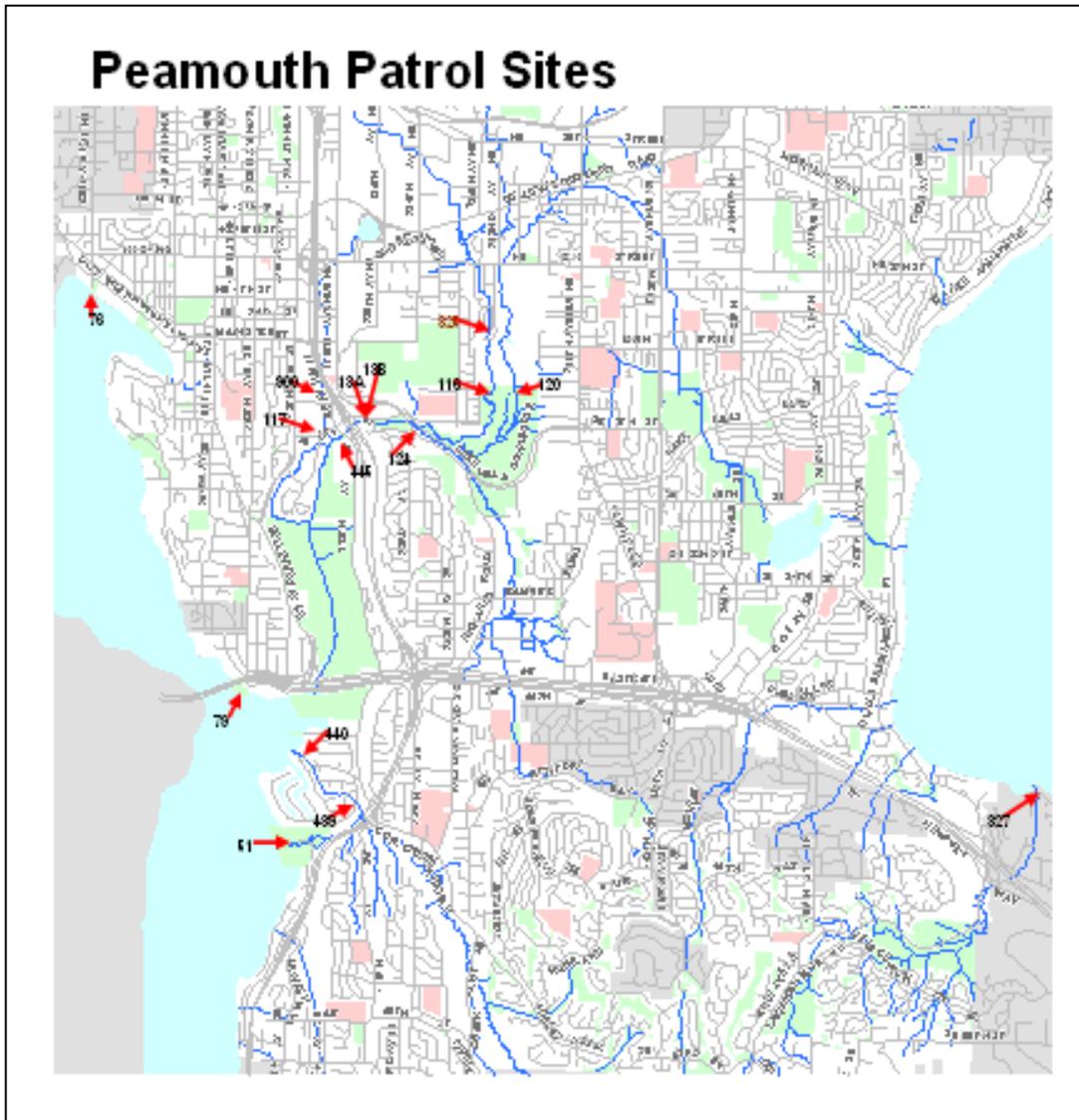


Figure 5. Map of Peamouth Patrol sites in Bellevue, 2005-2010.

Table 1. Peamouth Patrol survey sites, 2005-2010.

Site Number	Site Name
<i>13, 13A, 13B</i>	<i>Kelsey Creek at Wilburton Trestle (A – under trestle; B – at culvert upstream of trestle)</i>
27	Richards Creek at Bannerwood Park
51	Newcastle Beach Park
76	Clyde Hill Beach Park
79	Enatai Beach Park
116	West Tributary at Kelsey Creek Farm
117	Sturtevant Creek at SE 8th St.
120	Kelsey Creek at Kelsey Creek Farm
124	Kelsey Creek at Lake Hills Connector
325	West Tributary - Private Property
327	Lewis Creek at 185th Pl
439	Coal Creek at Newport, Cascade Key #14
440	Coal Creek at Newport, Skagit Key #16
<i>445</i>	<i>Mercer Slough Fish Ladder</i>
900	Sturtevant Creek at SE 6th St.

Bold italic print: Core peamouth spawning sites.

Peamouth Spawning Triggers

It is generally not known what causes peamouth to begin spawning. Possible environmental triggers considered included lake temperature and stream flow in Kelsey Creek. Lake temperatures were compared between the years where known April or May spawning events occurred between 2003 and 2009. Lake temperatures were taken from King County gauges. Flow levels at the Mercer flow gauge, which is located just below site 13A at the Kelsey Creek railroad trestle, were compared for the dates that peamouth spawning events occurred for consistent flow rates or patterns.

Timing of peamouth observations was evaluated by determining the percent of surveys that were conducted at different times of day and comparing that with the percent of peamouth detections during each time period. Survey times were grouped in two-hour batches from 4:00 am to midnight; no surveys occurred between midnight and 4:00 am, so this time period was not subdivided. Standard error of the mean was used to test significant differences between the number of surveys conducted during a 2-hour time block and the percent of total peamouth detections during that same time block.

Results

Survey Effort

A formal survey program was implemented in 2005, after Bellevue staff visited peamouth spawning sites in 2003 and 2004 because of learning about spawning events from phone calls to the office by people who happened to observe the fish. With each year, as more was learned about spawning event timing, the survey time period was lengthened. Due to the incremental learning about spawning timing and the volunteer nature of the survey efforts, survey timing gradually expanded to include more of May and then June.

The Peamouth Patrol began in 2005. Dedicated volunteers and a small group of Bellevue staff conducted springtime surveys for peamouth between 2005 and 2010. Up to twenty volunteers and staff surveyed for peamouth each year (Table 2). Several volunteers returned to survey each year. The largest volunteer turnout (20) was in 2005, but the amount of time contributed by volunteers was highest in 2006, with over 72 hours of total survey time by 13 volunteers (Table 3). Over the six year period, surveyors have spent a total of over 326 hours searching for peamouth.



Figure 6. Peamouth Patrol volunteers and others watching peamouth spawn in Kelsey Creek.

Table 2. Number of volunteers that surveyed each site for peamouth each year, 2005-2010. Some volunteers surveyed multiple sites.

Site Name (Site Number)	Number of Individual Volunteers					
	2005	2006	2007	2008	2009	2010
<i>Kelsey at Wilburton Trestle (13)</i>	13	7	8	7	8	8
Richards at Bannerwood Park (27)	3	1	-	-	1	-
Newcastle Beach Park (51)	-	2	-	-	1	-
Clyde Hill Beach Park (76)	-	2	-	-	1	-
Enatai Beach Park (79)	2	1	1	-	1	-
West Tributary at Kelsey Creek Farm (116)	2	1	2	3	1	1
Sturtevant Creek at SE 8th St. (117)	2	3	-	-	2	1
Kelsey at Kelsey Creek Farm (120)	3	2	2	-	1	1
Kelsey at Lake Hills Connector (124)	1	-	1	3	1	3
West Tributary-private property (325)	1	-	1	1	1	-
Lewis Creek at 185th Pl (327)	2	-	1	1	2	-
Coal Creek at Newport, Cascade Key #14 (439)	2	-	-	-	2	1
Coal Creek at Newport, Skagit Key #16 (440)	2	1	-	-	2	1
<i>Mercer Slough Fish Ladder (445)</i>	8	5	6	7	8	6
Sturtevant at SE 6th St. (900)	2	2	-	-	1	1
All sites	20	13	10	9	9	10

Table 3. Time spent conducting Peamouth Patrol surveys by year, 2005-2010.

Year	Survey Time
2005	66 hrs, 31 min
2006	72 hrs, 3 min
2007	53 hrs, 44 min
2008	37 hrs, 3 min
2009	53 hrs, 33 min
2010	43 hrs, 30 min
Total Time	326 hrs, 24 min

The maximum number of days that a peamouth site was visited each year was 15 in 2005, 22 in 2006, 30 in 2007, 28 in 2008, 45 in 2009, and 42 in 2010 (Table 4). Surveys were conducted on the most days beginning in 2007, when surveys were conducted into May and June. In 2005 and 2006, surveys were not conducted after the first week in May. Kelsey Creek at Wilburton Trestle and Mercer Fish Ladder were the most visited sites because they were the designated core sites, although the West Tributary (a tributary of Kelsey Creek) private property site was also visited frequently. Other sites were visited by fewer volunteers; some were visited on a regular basis, and some were visited only after being notified that peamouth were actively spawning at the core site(s).

Table 4. Days of Peamouth Patrol observations for years 2005 through 2010 at each Bellevue site.

Site Name (Site Number)	# Days of Observations					
	2005	2006	2007	2008	2009	2010
<i>Kelsey at Wilburton Trestle (13A&B)</i>	14	19	30	23	45	41
Richards at Bannerwood Park (27)	14	1	-	-	2	-
Newcastle Beach Park (51)	-	15	-	-	1	-
Clyde Hill Beach Park (76)	-	3	-	-	1	-
Enatai Beach Park (79)	5	1	2	-	1	-
West Tributary at Kelsey Creek Farm (116)	7	2	10	4	1	1
Sturtevant Creek at SE 8th St. (117)	15	8	-	-	6	2
Kelsey at Kelsey Creek Farm (120)	5	2	6	-	1	1
Kelsey at Lake Hills Connector (124)	2	1	5	3	1	3
West Tributary-private property (325)	10	-	21	13	21	-
Lewis Creek at 185th Pl (327)	9	-	9	7	5	-
Coal Creek at Newport, Cascade Key #14 (439)	12	-	-	-	2	1
Coal Creek at Newport, Skagit Key #16 (440)	11	8	-	-	6	2
<i>Mercer Fish Ladder (445)</i>	14	22	22	28	30	42
Sturtevant at SE 6th St. (900)	11	8	0	0	2	2

Bold, italic print = core sites

Peamouth Spawning in Bellevue Streams

Despite six years of spring peamouth surveys, we still do not know what triggers peamouth spawning, the full extent of peamouth spawning distribution in Bellevue, when or how many spawning events occur, or whether each adult spawns once or more each year. However, new information about peamouth spawning in Bellevue was learned during six years of spring surveys. The earliest documented date of a peamouth spawning event between 2005 and 2010 was April 25, which occurred in 2005 (Table 5). The latest that a first spawning event occurred was in 2009, when peamouth were first seen spawning on May 10. The latest spawning date documented occurred in 2008 on June 15, which was the first year that surveys were conducted during the month of June. June spawning events were also documented in 2009 (June 4) and 2010 (June 7-8), indicating that surveys in June in the future could reveal additional spawning events. The first time a second spawning event was documented was in 2005, when staff at Kelsey Creek Farm saw peamouth spawning in the West Tributary. In all years that volunteers were on Peamouth Patrol, at least two spawning events were documented. Three spawning events were documented in 2008 and 2009, and five spawning events were recorded in 2010.



Figure 7. Spawning Peamouth in Bellevue, with yellow eggs covering the gravel substrate below.

In addition to the spawning events noted in Table 5, peamouth were observed at the following locations:

- Sturtevant Creek spawning event and peamouth attempting to jump up the Mercer Slough fish ladder on April 29, 2003;
- Kelsey Creek at the Wilburton Trestle, April 28, 2004, massive peamouth spawning event; fish were gone the next day;
- West Tributary at Kelsey Farm Park, May 8, 2005, hundreds of peamouth spawned;
- Kelsey Creek at the confluence with Richards Creek at Lake Hills Connector, May 11, 2006, many peamouth on both sides of the culvert, and May 8, 2010, over 11-25 peamouth were seen.

Spawning events occurred over a short period of time, and generally were over in one to three days after the first spawning was observed. For example, at the Kelsey Creek Trestle (site 13A&B) in 2006, the following were observed:

- April 28 – 11-25 peamouth at 2:00 p.m.
- April 29 – thousands at 11:00 a.m.
- April 30 – about half as many
- April 31 – no fish present

Peamouth were often observed on the same day or within one day at two sites that are within one quarter mile distance of each other: the Mercer Slough fish ladder and upstream at the Wilburton Trestle. In 2003, peamouth spawned in Sturtevant Creek at the same time as fish were seen attempting to pass through the Mercer Slough fish ladder. In 2005, peamouth were observed spawning in the West Tributary of Kelsey Creek about eleven days after they were observed at the Mercer Slough fish ladder. During spawning events, the number of peamouth would increase within days or hours from less than ten fish to hundreds of fish, then quickly diminish until all fish returned to Lake Washington (with the exception of a few that died or were eaten by wildlife).

Spawning generally occurred in riffles, where water was no more than six to eight inches deep. If rains occurred and the water level rose, peamouth were seen spawning in the shallower edges of the creek, and the eggs would be exposed to the air when the water receded. During the spawning events and immediately afterwards the bottom of the stream was blanketed with a layer of tiny (approximately four millimeter diameter) gray eggs adhered to the rocks and other substrate. The eggs turned yellow when they ripened (Figure 7).

Despite Peamouth Patrol surveyors visiting many other sites during spawning events, most of the spawning was observed in Kelsey Creek near the Wilburton Trestle. Because the other sites were not visited as often, and because of the large distances between peamouth observation sites, it is very possible that spawning events in places other than the two main sites were missed.

Time of day of surveys between 2005 and 2009 tended towards afternoon and evening hours. For example, over 70% of peamouth surveys began between noon and 8:00 pm, and 27% of surveys were conducted between 6:00 am and noon. There was no statistically significant difference between the likelihood of detecting peamouth during morning or afternoon hours, however, the percent of total detections was slightly lower than the percent of total observations for the majority of the morning 2-hour time periods beginning at 4:00 am (Figure 8). With multiple surveys on some days, we evaluated whether the first sighting during a spawning event was in the morning or afternoon/evening. For the eight days that were the first or only day of a peamouth spawning event and that also had at least one morning and one afternoon/evening survey, peamouth were first seen before noon on seven days. On the six other first or only peamouth spawning event days, volunteers did not visit the site before noon.

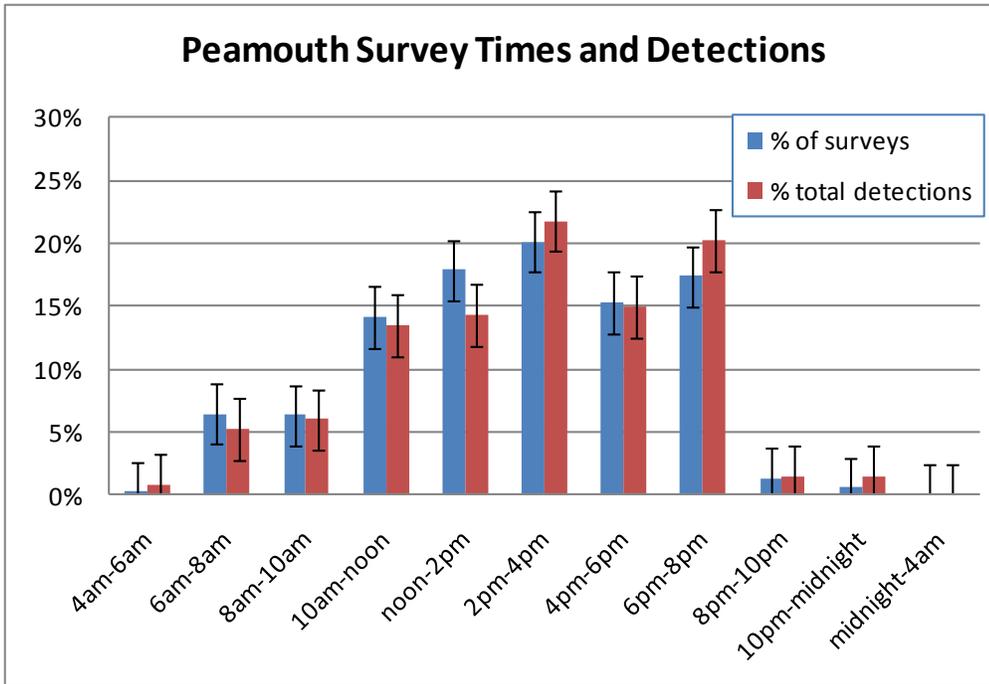


Figure 8. Percent of all peamouth surveys (n=804) that occurred at different times of day compared with the percent of all peamouth detections (n=133) at different times of day for all surveys between 2005 and 2009.

Peamouth Egg Incubation

Peamouth incubated indoors hatched within 7-9 days. Hatching occurred over the weekend, so the time of day of hatching is unknown. Newly hatched peamouth were almost translucent except for the eyes and heart, and were approximately seven to ten millimeters in total length (Figure 9).



Figure 9. Young Peamouth caught in a net in Mercer Slough on May 17, 2007. Note three different size classes of Peamouth.

Citizen Contacts

Volunteers were encouraged to talk to people they encountered while out watching for peamouth, and the number of people the volunteers contacted increased by 22 between 2005 and 2006, and then only slightly with each year surveys were conducted until 2008 (Table 6). There were ten fewer citizen contacts in 2009 than there were in 2008.

Table 6. Citizens contacted by Peamouth Patrol volunteers during surveys, 2005 through 2009.

Year	Number of Citizens Contacted
2005	11
2006	33
2007	39
2008	44
2009	34
2010	32
Total	193

Wildlife

Many different types of wildlife were seen at sites where volunteers were watching for peamouth. Wildlife was most commonly seen at the site where the most spawning occurs and the most volunteer observations occur, along Kelsey Creek at the Wilburton Trestle. However, wildlife may congregate at this site in the spring specifically to eat peamouth based on reported wildlife observations; six different species were observed eating either peamouth adult fish (raccoon, river otter, crow, great blue heron - Figure 10) or their eggs (mallard). Other mammals and birds observed at peamouth observation sites included river otters, belted kingfishers, ducks, Canada geese, hawks and bald eagles (Table 7).



Figure 10. Great blue heron at Kelsey Creek in Bellevue.

Table 7. Wildlife observed during peamouth surveys at sites in Bellevue, 2005-2010.

Site	Year	Canada goose	Great blue heron	Bald eagle	Mallard	Belted kingfisher	Woodpecker	Crow	Steller's jay	American robin	Wood duck	Hawk	Duck	Anna's hummingbird	Song sparrow	Spotted towhee	Beaver	Raccoon	River otter	Rabbit	Muskrat	Crayfish	Turtle	
Kelsey at Wilburton Trestle (13)	2005		p																		p			
	2006		n		p								n							n				
	2007		p		p					n	p		n											
	2008			p									n											
	2009	p	p	n	p	n		p			n		n	n		n	n	p						
	2010		p	p	n		n	p	n	n	n		n		p			n	p	n			n	
Richards Creek at Bannerwood Park (27)	2009				n																			
Newcastle Beach Park (51)	2006																					n		
Clyde Hill Beach Park (76)	2006												n											
	2009												n											
Enatai Beach Park (79)	2009																							n
Sturtevant (117)	2010	p																						
Kelsey at Lake Hills Connector (124)	2010							n	n															
West Tributary - Private Property (325)	2007		n		n																			
	2009		n																					
Coal Creek (439)	2009					n																		
Coal Creek at Newport, Skagit Key #16 (440)	2005												n											
	2006		n					n																
	2010					n																		
Mercer Slough Fish Ladder (445)	2005	n	n																					
	2006		n									n	n											
	2007		n																	n				
	2008	n	n																				n	
	2009	n	n			n							n											
	2010	n	p										n							n				
Lewis (327)	2005			n																				

p - associated w/ spawning event
n - not associated w/ spawning event
shade - active predation on peamouth or eggs observed

Potential Peamouth Spawning Triggers

Lake temperature has been speculated to be a factor in determining when peamouth spawn. One hypothesis is that in the years when peamouth spawned in April, the lake temperatures were warmer than the years when they did not spawn until May.

Stream flow during peamouth spawning events was compared between 2005 and 2009. During a majority (2005 – 6 of 6; 2006 - 5 of 7; 2007 – 5 of 7; 2008 – 8 of 8; 2009 – 4 of 4) of days that peamouth spawning events were observed (28 of 32, or 88%), the mean daily flow as measured at the Mercer gauge on Kelsey Creek was between 5 and 15 cfs (Table 8). Some observed spawning events occurred when the discharge was much higher than 15 cfs, so while there is a general pattern of spawning near 7-10 cfs, it is not a consistent pattern. Spawning events are compared to discharge rates for April through June for 2007 and 2009 (Figure 11); this also shows that spawning usually occurs when stream flows are lower than 10 cfs, but not always.

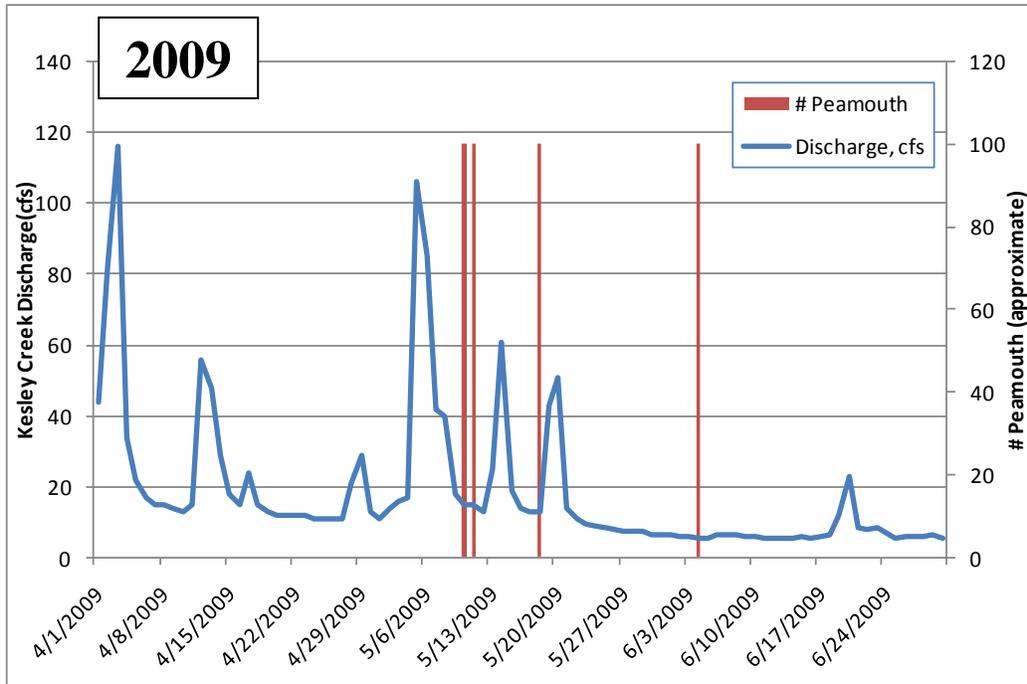
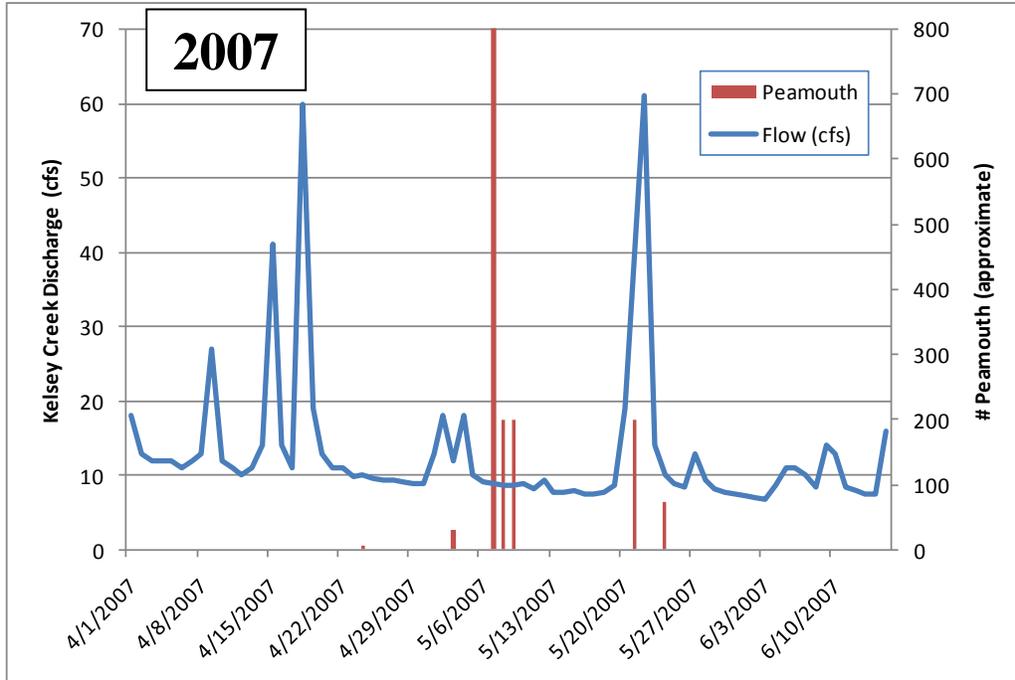


Figure 11. Mean daily discharge at Kelsey Creek (USGS Mercer Creek Gauge) compared to observed peamouth spawning events in Kelsey Creek for 2007 and 2009.

Table 8. Stream flow at the Mercer Creek USGS gauge during observed Peamouth spawning events at Kelsey Creek under the Trestle (site 13), 2005 through 2009.

Date	Kelsey Creek Flow (cubic feet per second)	Number of Peamouth
April 29, 2003	9.4	>100
April 28, 2004	13	>1000
April 24, 2005	13	<10
April 25, 2005	9.8	~20
April 26, 2005	9.8	26-99
April 27, 2005	9.6	>1000
April 28, 2005	13	>1000
May 8, 2005	10	>100*
April 28, 2006	9.2	<25
April 29, 2006	38	>100
April 30, 2006	32	>100
May 10, 2006	9.2	>100
May 11, 2006	9.0	>100
May 12, 2006	8.8	>100
May 13, 2006	8.5	25
April 24, 2007	10	<10
May 2, 2007	18	<100
May 7, 2007	8.9	>1000
May 8, 2007	8.6	>100
May 9, 2007	8.6	>100
May 21, 2007	38	>100
May 24, 2007	10	<100
May 5, 2008	9.6	>1000
May 6, 2008	9.0	>1000
May 7, 2008	8.9	>1000
May 17, 2008	8.0	>100
May 18, 2008	7.7	<10
May 29, 2008	7.6	>100
June 14, 2008	8.3	<10
June 15, 2008	7.8	<25
May 10, 2009	15	>100
May 11, 2009	15	>100
May 18, 2009	13	>100
June 4, 2009	5.5	>100

*West Tributary spawning event only.

Discussion

Peamouth spawning events are spectacular to witness due to the huge numbers of fish. The volunteer effort to conduct spring spawning surveys added much to what is known about peamouth spawning. Specifically, the earliest date that peamouth were observed spawning since 2005 has ranged from April 25 to May 10, a difference of 15 days between years. The latest spawning event observed has ranged from April 28 to June 15. It was learned that peamouth spawning events

happen quickly. Because they often last less than 24 hours, it is very likely that spawning events occurred that were not observed by Bellevue volunteers, especially during 2005 when the last survey was done on May 3, and other years when surveys were conducted sporadically, or ended before the middle of June. While much was learned about the frequency of spawning in lower Kelsey Creek, the entire distribution of peamouth spawning areas in Bellevue remains unknown due to the few locations of peamouth observation sites.

Peamouth are a native fish to Lake Washington, and their influence on endangered or listed salmon in Lake Washington is unknown. Juvenile and adult peamouth may compete with salmon for similar food; the former eat zooplankton, and the latter eat similar invertebrates as do salmon. Young peamouth may be a salmon food source (Wydoski and Whitney 2003), and they may be eaten by other predators that eat small salmon. Peamouth spawning events in Bellevue's creeks apparently benefit a variety of other wildlife, including great blue herons, ducks, hawks, bald eagles and river otters. Many of these animals have been seen at peamouth spawning sites during or after spawning events, and some have been seen eating peamouth adults or eggs.

Recommendations

Peamouth Patrol surveys have increased in number of days surveyed since 2005, despite fewer volunteers participating in more recent years. Consistent daily coverage is necessary to discover peamouth spawning events because these events are unpredictable and occur over such a short period of time – sometimes less than 24 hours. Missing even one survey day might mean missing an entire spawning event. The dedicated Peamouth Patrol volunteers, as well as new recruits, should be encouraged to conduct enough surveys to attempt to have consistent daily surveys at the Mercer fish ladder and Kelsey Trestle sites. As city resources allow, it is also recommended that more volunteers are recruited for better coverage, or that Bellevue staff conduct peamouth surveys on days when volunteers cannot survey. Walking surveys should also be conducted in the lower section of Kelsey Creek and the lower sections of its tributary streams (West Tributary and Richards, Sturtevant, Goff, and Valley Creeks) to determine whether there are other preferred spawning sites. Volunteers also report having a difficult time detecting peamouth eggs when they are known to be in the streams, so additional training to improve egg detection would improve the reliability of this spawning indicator.

It is not known how many peamouth spawning events might occur each year and how far into the month of June they might occur; in 2008, 2009 and 2010, June spawning events were observed for the first time. Volunteers should also be encouraged to continue surveys until middle or late June at a similar level of intensity as April and May surveys.

Peamouth enter Mercer Slough from Lake Washington. The mouth of Mercer Slough is very near Enatai Park, which has a canoe rental shop. It would be interesting to coordinate with the staff at the park, as well as Bellevue Parks canoe trip leaders, and ask them to be on the lookout for peamouth swimming up Mercer Slough. Although visibility tends to be poor in the Mercer Slough, this could perhaps serve as an early notice to Bellevue staff and volunteers when peamouth are about to arrive at the fish ladder.

With the uncertainty about what triggers peamouth to spawn, volunteers could begin to check stream water temperatures and air temperatures to see if, over time, a trend can be detected between peamouth spawning and stream or air temperature. Alternatively, various lake water temperature

monitoring stations could be compared to peamouth spawning timing to see if any correlations are detected. Spawning may also coincide with precipitation patterns and stream discharge rates. For example, some of the spawning events observed between 2005 and 2009 occurred when the discharge rate near the Mercer Slough fish ladder was between eight and ten cubic feet per second, and had recently fallen from a higher discharge rate. Bellevue staff should continue to check for correlations between the flow rates at the Mercer Gauge and spawning event timing, to determine whether flow rates appear to trigger peamouth spawning. Other conditions that may affect peamouth spawning include barometric pressure, moon phases, or night-time light levels. Eurasian milfoil growing in Mercer Slough may reduce or affect the timing of peamouth spawning in Kelsey Creek, since the densest growth generally occurs in the summer months.

Wildlife observations at peamouth sites may indicate spawning events and possible peamouth predators. Peamouth Patrol volunteers may benefit from additional training on identifying and documenting wildlife seen during surveys. These wildlife data can also help the City of Bellevue document wildlife known within particular drainage basins as an indicator of the ecological health of an area.

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Appendix B – Peamouth Survey Data

Peamouth spring spawning data for Bellevue streams, 2005 through 2010. Data are listed in order first by year, then stream, site number, and date. For site names, see the report text and site map.

Surveyor Name	Site Number	Stream	Date	Start Time	End Time	Total Time	Number of Live Peamouth	Number of Dead Peamouth	Total Number of Peamouth	Eggs Present	Number of Citizens Present	Comments
2005 Peamouth Data												
Qui	439	Coal Creek	4/16/05	8:50	9:05	0:15	0	0	0	N/R		raining, rush current
Nelson	439	Coal Creek	4/17/05	6:31	6:47	0:16	0	0	0	N/R		water clear
Qui	439	Coal Creek	4/21/05	19:05	19:30	0:25	?	0	?	N/R	1	not sure if they're peamouth
Qui	439	Coal Creek	4/22/05	9:40	10:05	0:25	0	0	0	N/R	1	2 suckers went up the ladder
Nelson	439	Coal Creek	4/23/05	6:12	6:27	0:15	0	0	0	N/R		water clear
Nelson	439	Coal Creek	4/24/05	7:31	7:46	0:15	0	0	0	N/R		water clear
Qui	439	Coal Creek	4/26/05	18:10	18:30	0:20	0	0	0	N/R		sunny
Nelson	439	Coal Creek	4/27/05	18:10	18:25	0:15	0	0	0	N/R		water clear
Nelson	439	Coal Creek	4/30/05	7:31	7:46	0:15	0	0	0	N/R		water high, tea colored
Nelson	439	Coal Creek	5/1/05	7:02	7:17	0:15	0	0	0	N/R		water clear
Nelson	439	Coal Creek	5/7/05	8:34	8:49	0:15	0	0	0	N/R		water clear
Nelson	439	Coal Creek	5/8/05	7:19	7:34	0:15	0	0	0	N/R		water clear
Galloway	439	Coal Creek	5/12/05	16:00	16:45	0:45	0	0	0	N/R		14.0 C
Qui	440	Coal Creek	4/16/05	8:25	8:45	0:20	0	0	0	N/R		raining, high water level, dirty water
Nelson	440	Coal Creek	4/17/05	6:50	7:05	0:15	0	0	0	N/R		water clear
Qui	440	Coal Creek	4/21/05	18:43	19:00	0:17	0	0	0	N/R		sunny, 20C/68F, duck
Nelson	440	Coal Creek	4/23/05	6:29	6:43	0:14	0	0	0	N/R		saw fish briefly - 10-12" (sucker), very dark colored, broad head, stish. Saw fish 6" - looked snakelike (details on data sheet)
Nelson	440	Coal Creek	4/24/05	7:48	8:03	0:15	0	0	0	N/R		9 Lamprey (2 groups of 4-5)
Qui	440	Coal Creek	4/26/05	18:34	18:50	0:16	0	0	0	N/R		sunny
Nelson	440	Coal Creek	4/27/05	18:26	18:41	0:15	0	0	0	N/R		1 Lamprey & what looked like at caddisfly larva moving along the top of a rock
Nelson	440	Coal Creek	4/30/05	7:47	8:02	0:15	0	0	0	N/R		
Nelson	440	Coal Creek	5/1/05	7:18	7:33	0:15	0	0	0	N/R		1 Lamprey
Nelson	440	Coal Creek	5/7/05	8:18	8:33	0:15	0	0	0	N/R		1 Lamprey, also saw heron at 119 and Coal Creek Pkwy
Nelson	440	Coal Creek	5/8/05	7:35	7:50	0:15	0	0	0	N/R		
Petra	13	Kelsey Creek	4/25/05	18:25	18:30	0:05	11 to 25	0	11 to 25	N/R		very active
Schubach	120	Kelsey Creek	4/14/05	15:10	15:40	0:30	0	0	0	N/R		nest under bridge?
Petra	120	Kelsey Creek	4/21/05	18:50	19:08	0:18	0	1	1	N/R		10" dead fish south of bridge, found live fish near west trib bridge
Galloway	120	Kelsey Creek	4/23/05	8:00	8:20	0:20	0	0	0	N/R		
Petra	120	Kelsey Creek	4/24/05	15:30	15:45	0:15	0	0	0	N/R		
Petra	120	Kelsey Creek	4/25/05	18:00	18:18	0:18	0	0	0	N/R		
Schubach	124	Kelsey Creek	4/27/05	14:30	14:50	0:20	0	0	0	N/R		3 golf balls, 2 suckers
Schubach	124	Kelsey Creek	4/28/05	15:25	15:30	0:05	0	0	0	N/R		
Devereaux	13A	Kelsey Creek	4/25/05	10:45	10:50	0:05	20+	0	20+	N/R		
Schubach	13A	Kelsey Creek	4/27/05	15:00	15:15	0:15	100s	0	100s	N/R		suckers amongst peamouth
Qui	13A	Kelsey Creek	4/30/05	7:30	7:50	0:20	5	0	5	N/R		8-12"
Qui	13A	Kelsey Creek	4/30/05	17:55	18:15	0:20	1	0	1	N/R		12"
Qui	13A	Kelsey Creek	5/1/05	7:20	7:35	0:15	0	0	0	N/R		foggy
Qui	13A	Kelsey Creek	5/1/05	17:21	17:40	0:19	0	0	0	N/R		sunny
Palovich	13A	Kelsey Creek	4/15/05	7:45	8:00	0:15	0	0	0	N/R		
Palovich	13A	Kelsey Creek	4/22/05	7:50	8:05	0:15	0	0	0	N/R		quick glimpses of 2 15-18" fish holding close to bottom near log. Feeding on

Peamouth Spawning in Bellevue, 2005-2010

Surveyor Name	Site Number	Stream	Date	Start Time	End Time	Total Time	Number of Live Peamouth	Number of Dead Peamouth	Total Number of Peamouth	Eggs Present	Number of Citizens Present	Comments
												drifting items ignoring insect hatch. Appeared to be trout. Cutthroats? (no color patterns visible from high on bank)
Ross	13A & 124	Kelsey Creek	4/13/05	9:15	9:45	0:30	0	0	0	N/R		
Ross	13A & 124	Kelsey Creek	4/17/05	16:00	16:15	0:15	0	0	0	N/R		
Ross	13A & 124	Kelsey Creek	4/23/05	11:00	11:20	0:20	0	0	0	N/R		
Ross	13A & 124	Kelsey Creek	4/27/05	11:15	11:30	0:15	0	0	0	N/R		small fish jumping (trout?)
Ross	13A & 124	Kelsey Creek	4/28/05	17:30	17:45	0:15	3	0	3	N/R		saw 1 rabbit! Just missed peamouths! Dam.
Komorowski	117	Sturtevant Creek	4/14/05	6:40	6:55	0:15	0	0	0	N/R		
Komorowski	117	Sturtevant Creek	4/15/05	6:40	6:55	0:15	0	0	0	N/R		
Komorowski	117	Sturtevant Creek	4/16/05	9:45	10:00	0:15	0	0	0	N/R		heavy flow, rain
Komorowski	117	Sturtevant Creek	4/17/05	8:20	8:35	0:15	0	0	0	N/R		
Komorowski	117	Sturtevant Creek	4/18/05	6:40	6:55	0:15	0	0	0	N/R		
Komorowski	117	Sturtevant Creek	4/19/05	6:40	6:55	0:15	0	0	0	N/R		
Komorowski	117	Sturtevant Creek	4/20/05	6:40	6:55	0:15	0	0	0	N/R		
Komorowski	117	Sturtevant Creek	4/21/05	6:40	6:55	0:15	0	0	0	N/R		
Galloway	117	Sturtevant Creek	4/21/05	19:03	20:15	1:12	0	0	0	N/R		15.9 at 0.5'
Komorowski	117	Sturtevant Creek	4/22/05	6:40	6:55	0:15	0	0	0	N/R		
Komorowski	117	Sturtevant Creek	4/23/05	8:30	8:45	0:15	0	0	0	N/R		
Komorowski	117	Sturtevant Creek	4/25/05	6:40	6:55	0:15	0	0	0	N/R		
Komorowski	117	Sturtevant Creek	4/26/05	6:40	6:55	0:15	0	0	0	N/R		
Komorowski	117	Sturtevant Creek	4/27/05	6:45	7:00	0:15	0	0	0	N/R		
Komorowski	117	Sturtevant Creek	4/28/05	6:40	6:55	0:15	0	0	0	N/R		
Johnson	900	Sturtevant Creek	4/13/05	12:15	12:30	0:15	0	0	0	N/R		water clear
Johnson	900	Sturtevant Creek	4/14/05	10:30	10:45	0:15	0	0	0	N/R		water clear
Johnson	900	Sturtevant Creek	4/15/05	17:30	17:35	0:05	0	0	0	N/R		water murky
Johnson	900	Sturtevant Creek	4/16/05	17:45	17:55	0:10	0	0	0	N/R		water murky
Johnson	900	Sturtevant Creek	4/17/05	17:40	17:50	0:10	0	0	0	N/R		water clear
Johnson	900	Sturtevant Creek	4/18/05	18:50	19:00	0:10	0	0	0	N/R		partly clear
Johnson	900	Sturtevant Creek	4/21/05	19:05	19:10	0:05	0	0	0	N/R		water clear
Galloway	900	Sturtevant Creek	4/22/05	19:45	20:10	0:25	0	0	0	N/R		13 C
Johnson	900	Sturtevant Creek	4/23/05	13:35	13:45	0:10	0	0	0	N/R		The stream was flowing on the north side of the culvert and the water was clear. On the south side of the culvert the water was stagnant and cloudy - culvert may be clogged.
Johnson	900	Sturtevant Creek	4/25/05	17:00	17:10	0:10	0	0	0	N/R		
Galloway	900	Sturtevant Creek	4/28/05	13:45	13:50	0:05	0	0	0	N/R		15.3 at 0.5'
2006 Peamouth Data												
Tokuda	440	Coal Creek	4/15/06	10:45	10:58	0:13	0	0	0	N/R		cloudy
Tokuda	440	Coal Creek	4/20/06	13:20	13:35	0:15	0	0	0	N/R	1	8 suckers
Tokuda	440	Coal Creek	4/22/06	18:07	18:22	0:15	0	0	0	N/R		
Tokuda	440	Coal Creek	4/22/06	18:07	18:22	0:15	0	0	0	N/R		
Tokuda	440	Coal Creek	4/26/06	15:00	15:15	0:15	0	0	0	N/R		cloudy, cold
Tokuda	440	Coal Creek	4/29/06	13:21	13:29	0:08	0	0	0	N/R		cloudy, drizzle
Tokuda	440	Coal Creek	5/1/06	13:05	13:20	0:15	0	0	0	N/R		2-3" skinny fish w/ wiggly swim mode
Tokuda	440	Coal Creek	5/6/06	14:02	14:17	0:15	0	0	0	N/R		crow wading in water; overcast, windy

Peamouth Spawning in Bellevue, 2005-2010

Surveyor Name	Site Number	Stream	Date	Start Time	End Time	Total Time	Number of Live Peamouth	Number of Dead Peamouth	Total Number of Peamouth	Eggs Present	Number of Citizens Present	Comments
Tokuda	440	Coal Creek	5/12/06	10:02	10:18	0:16	0	0	0	N/R	2	heron fishing for 4-5" fish
Gratt	120	Kelsey Creek	4/30/06	12:15	12:30	0:15	0	0	0	N/R		
Artero	120	Kelsey Creek	5/12/06	18:08	18:24	0:16	0	0	0	N/R		
Gratt	124	Kelsey Creek	5/11/06	10:30	10:45	0:15	26-99	0	100+	N/R		fish on both sides of street culvert but more on downstream side
Albach	116/120	Kelsey Creek	5/2/06	12:20	12:30	0:10	0	0	0	N/R		
Harris	13A	Kelsey Creek	4/18/06	19:40	19:50	0:10	0	0	0	N/R		
Harris	13A	Kelsey Creek	4/18/06	19:40	19:50	0:10	0	0	0	N/R		
Tokuda	13A	Kelsey Creek	4/22/06	17:30	17:45	0:15	0	0	0	N/R		sunny; stinky
Tokuda	13A	Kelsey Creek	4/22/06	17:31	17:46	0:15	0	0	0	N/R		smells like sewer; tiny fish .5"
Gratt	13A	Kelsey Creek	4/24/06	14:15	14:30	0:15	0	0	0	N/R		
Devereaux	13A	Kelsey Creek	4/25/06	15:30	15:35	0:05	0	0	1-10	N/R		suckers
Devereaux	13A	Kelsey Creek	4/26/06	20:30	20:35	0:05	0	0	0	N/R		blue heron
Devereaux	13A	Kelsey Creek	4/27/06	15:00	15:05	0:05	0	0	13	N/R		suckers
Gratt	13A	Kelsey Creek	4/28/06	13:50	14:05	0:15	11-25	0	20+	N/R		1 might have been a sucker
Gratt	13A	Kelsey Creek	4/29/06	10:50	11:00	0:10	29-99	0	100	N/R		
Gratt	13A	Kelsey Creek	4/29/06	12:30	2:00	1.5	100+	0	100+	N/R		rain at 2:00
Tokuda	13A	Kelsey Creek	4/29/06	12:43	12:58	0:15	100+	1	100+	N/R		spawning event
Leff	13A	Kelsey Creek	4/29/06	13:00	13:30	0:30	100+	1-5	100+	N/R	4	first run; tons of fish; overcast, chilly
Gratt	13A	Kelsey Creek	5/8/06	14:45	15:00	0:15	0	0	0	N/R		2 male mallards
Gratt	13A	Kelsey Creek	5/10/06	15:00	15:15	0:15	0	0	0	N/R		1 male mallard
Artero	13A	Kelsey Creek	5/11/06	14:04	14:06	0:02	100+	0	0	N/R		
Tokuda	13A&B	Kelsey Creek	4/29/06	12:30	13:00	0:30	hundreds	0	hundreds	N/R		spawning
Devereaux	13A&B	Kelsey Creek	5/10/06	13:00	13:15	0:15	0	0	0	N/R		
Albach	13B	Kelsey Creek	4/22/06	12:20	12:30	0:10	0	0	0	N/R		good spot to watch
Gratt	13B	Kelsey Creek	4/24/06	14:30	14:45	0:15	0	0	0	N/R		
Devereaux	13B	Kelsey Creek	4/25/06	15:25	15:30	0:05	0	0	0	N/R		
Gratt	13B	Kelsey Creek	4/29/06	11:00	11:10	0:10	100+	0	100+	N/R		
Albach	13B	Kelsey Creek	4/29/06	11:35	11:50	0:15	100+	0	100+	N/R		fantastic
Artero	13B	Kelsey Creek	4/29/06	14:09	14:25	0:16	100+	2	100+	N/R		raining
Gratt	13B	Kelsey Creek	4/30/06	11:30	11:45	0:15	100+	0	100+	N/R		still going about 1/2?
Artero	13B	Kelsey Creek	4/30/06	12:09	12:39	0:30	100+	1	100+	N/R		
Strohofer	13B	Kelsey Creek	5/2/06	11:15	11:20	0:05	0	0	0	N/R		
Albach	13B	Kelsey Creek	5/2/06	11:50	12:05	0:15	0	0	0	N/R		stellerdag and ducks
Artero	13B	Kelsey Creek	5/3/06	11:45	12:01	0:16	0	0	0	N/R		
Gratt	13B	Kelsey Creek	5/5/06	12:30	12:45	0:15	0	0	0	N/R		eggs
Artero	13B	Kelsey Creek	5/5/06	14:06	14:22	0:16	0	0	0	N/R		BIG blue herons ((2)
Artero	13B	Kelsey Creek	5/6/06	14:44	15:01	0:17	0	0	0	N/R		river otter
Strohofer	13B	Kelsey Creek	5/7/06	16:55	17:00	0:05	0	0	0	N/R		saw 3 ducks
Gratt	13B	Kelsey Creek	5/8/06	15:00	15:15	0:15	0	0	0	N/R		
Artero	13B	Kelsey Creek	5/8/06	18:19	18:35	0:16	0	0	0	N/R		
Gratt	13B	Kelsey Creek	5/10/06	15:00	15:15	0:15	0	0	0	N/R		
Gratt	13B	Kelsey Creek	5/10/06	18:40	19:00	0:20	100+	0	300?	N/R	2	was there
Gratt	13B	Kelsey Creek	5/11/06	7:45	8:00	0:15	100+	3	300?	N/R		called
Gratt	13B	Kelsey Creek	5/11/06	9:15	9:30	0:15	100+	3	180	N/R		Linda Allen Report
Artero	13B	Kelsey Creek	5/11/06	13:47	14:03	0:16	0	0	0	N/R		
Albach	13B	Kelsey Creek	5/11/06	17:03	17:15	0:12	100+	0	100+	N/R		
Gratt	13B	Kelsey Creek	5/12/06	8:00	8:10	0:10	11-25	7	20	N/R		
Gratt	13B	Kelsey Creek	5/12/06	9:30	9:45	0:15	11-25	7	20	N/R		
Tokuda	13B	Kelsey Creek	5/12/06	10:35	10:40	0:05	100+	7+	lots	N/R	2	spawning

Peamouth Spawning in Bellevue, 2005-2010

Surveyor Name	Site Number	Stream	Date	Start Time	End Time	Total Time	Number of Live Peamouth	Number of Dead Peamouth	Total Number of Peamouth	Eggs Present	Number of Citizens Present	Comments
Tokuda	13B	Kelsey Creek	5/12/06	10:35	10:40	0:05	100+	7+	lots	N/R	2	spawning
Artero	13B	Kelsey Creek	5/12/06	18:45	19:08	0:23	100+	25	0	N/R		
Artero	13B	Kelsey Creek	5/13/06	11:52	12:15	0:23	25	100	0	N/R		
Gratt	116	Kelsey West Trib	4/30/06	12:00	12:15	0:15	0	0	0	N/R		
Gratt	116	Kelsey West Trib	5/11/06	10:00	10:15	0:15	0	0	0	N/R		no fish
Foulon	51	Lake Washington	4/14/06	18:00	18:30	0:30	0	0	0	N/R		
Foulon	51	Lake Washington	4/15/06	10:00	10:30	0:30	0	0	0	N/R		
Foulon	51	Lake Washington	4/16/06	19:00	19:30	0:30	0	0	0	N/R		
Foulon	51	Lake Washington	4/17/06	18:00	18:30	0:30	0	0	0	N/R		breezy
Foulon	51	Lake Washington	4/18/06	19:15	19:30	0:15	0	0	0	N/R	2	partly cloudy, calm
Foulon	51	Lake Washington	4/19/06	19:00	19:30	0:30	0	0	0	N/R		partly cloudy, calm
Foulon	51	Lake Washington	4/20/06	18:00	18:30	0:30	0	0	0	N/R	2	partly cloudy, calm
Foulon	51	Lake Washington	4/21/06	19:15	19:45	0:30	0	0	0	N/R		partly cloudy, slight breeze
Foulon	51	Lake Washington	4/22/06	19:30	20:00	0:30	0	0	0	N/R	1	clear, slight breeze
Foulon	51	Lake Washington	4/23/06	19:00	19:30	0:30	0	0	0	N/R	1	clear, slight breeze
Foulon	51	Lake Washington	4/24/06	19:30	20:00	0:30	0	0	0	N/R		clear, calm
Foulon	51	Lake Washington	4/25/06	20:00	20:30	0:30	0	0	0	N/R		one muskrat in the bulkhead
Foulon	51	Lake Washington	4/26/06	9:00	9:30	0:30	0	0	0	N/R		
Foulon	51	Lake Washington	4/27/06	19:00	19:30	0:30	0	0	0	N/R		
Raish	51	Lake Washington	4/28/06	16:55	17:20	0:25	0	0	0	N/R		not a good spot; water too cloudy and too many people disrupting water
Albach	76	Lake Washington	4/15/06	11:57	12:05	0:08	0	0	0	N/R		raining; friendly duck
Albach	76	Lake Washington	4/19/06	13:40	13:52	0:12	0	0	0	N/R	1	lots of little kids
Jackson	76	Lake Washington	5/6/06	15:54	16:11	0:17	0	0	0	N/R	3	
Albach	79	Lake Washington	4/19/06	14:20	14:34	0:14	0	0	0	N/R		two boats fishing under bridge; boy went into lake after a ball
Albach	No # (Private Property)	Medydenbauer Bay	4/19/06	13:58	14:07	0:09	0	0	0	N/R		water on east side of 101 appears to flow into a culvert too deep; don't think a fish can make it up
Albach	No # (Private Property)	Medydenbauer Bay	4/24/06	13:30	13:35	0:05	0	0	0	N/R	1	could only see 2' from edge on either side; only ~15' before it goes into a culvert; duck w/ about 8 ducklings
Leff	445	Mercer Slough	4/16/06	19:00	19:15	0:15	0	0	0	N/R	1	high water level; much turbidity; lots of sm. Flies; 1 great blue heron' 1 hawk
Underwood	445	Mercer Slough	4/18/06	12:00	12:30	0:30	0	0	0	N/R		
Harris	445	Mercer Slough	4/18/06	19:30	19:45	0:15	0	0	0	N/R		
Harris	445	Mercer Slough	4/18/06	19:30	19:45	0:15	0	0	0	N/R		
Leff	445	Mercer Slough	4/20/06	18:55	19:15	0:20	0	0	0	N/R	1	water level 2" lower than the 16th; one duck; not as many flies
Artero	445	Mercer Slough	4/21/06	18:28	18:44	0:16	0	0	0	N/R		1 sucker
Harris	445	Mercer Slough	4/21/06	19:10	19:30	0:20	0	0	0	N/R		2 people in canoes came up slough
Harris	445	Mercer Slough	4/21/06	19:10	19:30	0:20	0	0	0	N/R		2 people in canoes came up slough
Albach	445	Mercer Slough	4/22/06	12:50	13:02	0:12	0	0	0	N/R		water flowing over gradual taper of first weir
Artero	445	Mercer Slough	4/23/06	14:38	14:54	0:16	0	0	0	N/R		
Underwood	445	Mercer Slough	4/24/06	12:15	12:30	0:15	0	0	0	N/R		
Gratt	445	Mercer Slough	4/24/06	14:50	15:00	0:10	0	0	0	N/R		
Harris	445	Mercer Slough	4/24/06	19:00	19:15	0:15	0	0	0	N/R		
Harris	445	Mercer Slough	4/24/06	19:00	19:15	0:15	0	0	0	N/R		
Gratt	445	Mercer Slough	4/25/06	9:30	9:45	0:15	0	0	0	N/R		
Devereaux	445	Mercer Slough	4/25/06	15:25	15:30	0:05	0	0	0	N/R		small trout feeding
Leff	445	Mercer Slough	4/25/06	17:20	17:35	0:15	0	0	0	N/R		lots of foliage on water surface; more green algae growing; much warmer than prior two

Peamouth Spawning in Bellevue, 2005-2010

Surveyor Name	Site Number	Stream	Date	Start Time	End Time	Total Time	Number of Live Peamouth	Number of Dead Peamouth	Total Number of Peamouth	Eggs Present	Number of Citizens Present	Comments
												times
Artero	445	Mercer Slough	4/25/06	17:52	18:11	0:19	0	0	0	N/R		
Albach	445	Mercer Slough	4/26/06	12:35	12:47	0:12	0	0	0	N/R		water 4" lower than last time
Leff	445	Mercer Slough	4/26/06	15:00	15:15	0:15	0	0	0	N/R		1 great blue heron; lots more detritis floating on water surface; much colder
Artero	445	Mercer Slough	4/27/06	15:05	16:05	1:00	0	0	0	N/R		1 big sucker
Gratt	445	Mercer Slough	4/28/06	13:30	13:45	0:15	0	0	0	N/R		
Underwood	445	Mercer Slough	4/29/06	10:00	12:00	2:00	100+	0	100+	N/R	4	
Leff	445	Mercer Slough	4/29/06	13:30	13:45	0:15	0	0	1	N/R		saw fish jump up
Artero	445	Mercer Slough	4/29/06	13:45	14:01	0:16	26-99	0	26-99	N/R		raining
Artero	445	Mercer Slough	4/30/06	12:45	13:01	0:16	2	0	2	N/R		
Strohofer	445	Mercer Slough	4/30/06	14:40	15:00	0:20	11-25	0	35	N/R	4	water level .40
Strohofer	445	Mercer Slough	4/30/06	14:40	15:00	0:20	11-25	0	35	N/R	4	water level .40
Underwood	445	Mercer Slough	5/1/06	7:30	7:45	0:15	5	1	6	N/R		
Strohofer	445	Mercer Slough	5/2/06	11:05	11:10	0:05	0	0	0	N/R		water running fast
Albach	445	Mercer Slough	5/2/06	12:40	12:50	0:10	0	1	1	N/R		
Artero	445	Mercer Slough	5/3/06	12:08	12:25	0:17	0	0	0	N/R		
Artero	445	Mercer Slough	5/5/06	13:37	13:54	0:17	0	0	0	N/R		
Artero	445	Mercer Slough	5/6/06	14:07	14:24	0:17	0	0	0	N/R		eel (lamprey?)
Strohofer	445	Mercer Slough	5/7/06	16:40	16:55	0:15	0	0	0	N/R		water level below 10
Albach	445	Mercer Slough	5/8/06	14:40	14:50	0:10	0	0	0	N/R		beautiful day for walking
Artero	445	Mercer Slough	5/8/06	17:56	18:12	0:16	0	0	0	N/R		
Artero	445	Mercer Slough	5/11/06	13:21	13:41	0:20	1	0	0	N/R		
Albach	445	Mercer Slough	5/11/06	17:25	17:35	0:10	0	0	0	N/R		
Artero	445	Mercer Slough	5/13/06	12:29	12:45	0:16	1	0	0	N/R		
Jackson	27	Richards Creek	5/6/06	16:51	17:06	0:15	0	0	0	N/R	0	
Tokuda	117	Sturtevant Creek	4/16/06	15:10	15:25	0:15	0	0	0	N/R		light to moderate car traffic
Komorowski	117	Sturtevant Creek	4/19/06	15:20	15:35	0:15	0	0	0	N/R		
Tokuda	117	Sturtevant Creek	4/20/06	12:45	13:00	0:15	0	0	0	N/R		filtered sun; bubbles
Tokuda	117	Sturtevant Creek	4/20/06	12:45	13:00	0:15	0	0	0	N/R		lots of bubbles (methane?)
Albach	117	Sturtevant Creek	4/22/06	13:10	13:17	0:07	0	0	0	N/R	1	asked directions
Komorowski	117	Sturtevant Creek	4/22/06	14:30	14:45	0:15	0	0	0	N/R		
Komorowski	117	Sturtevant Creek	4/25/06	15:20	15:35	0:15	0	0	0	N/R		
Komorowski	117	Sturtevant Creek	4/28/06	15:10	15:30	0:20	0	0	0	N/R		
Komorowski	117	Sturtevant Creek	5/2/06	15:20	15:35	0:15	0	0	0	N/R		
Tokuda	117	Sturtevant Creek	4/29/06	13:09	13:12	0:03	0	0	0	N/R		less than 15 min.
Johnson	900	Sturtevant Creek	4/19/06	18:05	18:15	0:10	0	0	0	N/R		
Albach	900	Sturtevant Creek	4/22/06	13:22	13:35	0:13	0	0	0	N/R		followed creek up to where it goes under I-405
Johnson	900	Sturtevant Creek	4/24/06	17:45	17:55	0:10	0	0	0	N/R		
Johnson	900	Sturtevant Creek	4/27/06	16:30	16:35	0:05	0	0	0	N/R		
Johnson	900	Sturtevant Creek	5/3/06	18:00	18:10	0:10	0	0	0	N/R		
Johnson	900	Sturtevant Creek	5/6/06	15:00	15:10	0:10	0	0	0	N/R		
Albach	900	Sturtevant Creek	5/8/06	14:30	14:35	0:05	0	0	0	N/R		beautiful day for walking
Johnson	900	Sturtevant Creek	5/15/06	17:10	17:15	0:05	0	0	0	N/R		
2007 Peamouth Data												
Albach	13	Kelsey Creek	4/26/07	11:15	11:24	0:09	0	0	0	N/R	1	1 fat robin
Albach	13	Kelsey Creek	4/30/07	13:48	13:58	0:10	0	0	0	N/R	0	water low & clear
Albach	13	Kelsey Creek	5/5/07	12:15	12:27	0:12	0	0	0	N/R		low water
Albach	13	Kelsey Creek	5/7/07	11:55	12:08	0:13	0	0	0	N/R		
Farrell	120	Kelsey Creek	4/16/07	14:20	14:45	0:25	0	0	0	N/R		water high, fast

Peamouth Spawning in Bellevue, 2005-2010

Surveyor Name	Site Number	Stream	Date	Start Time	End Time	Total Time	Number of Live Peamouth	Number of Dead Peamouth	Total Number of Peamouth	Eggs Present	Number of Citizens Present	Comments
Farrell	120	Kelsey Creek	4/18/07	15:00	15:25	0:25	0	0	0	N/R		water high, fast
Farrell	120	Kelsey Creek	4/20/07	15:45	15:55	0:10	0	0	0	N/R		?
Farrell	120	Kelsey Creek	4/23/07	16:30	16:45	0:15	0	0	0	N/R		?
Farrell	120	Kelsey Creek	4/25/07	14:10	14:35	0:15	0	0	0	N/R	1	?
Mackey	120	Kelsey Creek	4/26/07	13:20	13:35	0:15	0	0	0	N/R		
Mackey	124	Kelsey Creek	4/25/07	18:20	18:30	0:10	0	0	0	N/R		
Mackey	124	Kelsey Creek	4/26/07	12:45	12:52	0:07	0	0	0	N/R		
Mackey	124	Kelsey Creek	5/8/07	18:00	18:30	0:30	0	0	0	N/R		water somewhat murky
Mackey	124	Kelsey Creek	5/21/07	17:00	17:10	0:10	0	0	0	N/R		
Mackey	124	Kelsey Creek	5/24/07	18:50	18:55	0:05	0	0	0	N/R		
Strohofer	13A	Kelsey Creek	4/15/07	16:15	16:25	0:10	0	0	4	N/R		suckers
Blue	13A	Kelsey Creek	4/17/07	11:05	11:20	0:15	0	0	0	N/R		saw blue heron
Mackey	13A	Kelsey Creek	4/19/07	18:30	18:45	0:15	0	0	0	N/R		low to medium flow
Tokuda	13A	Kelsey Creek	4/20/07	13:25	13:40	0:15	0	0	0	N/R		sunny
Albach	13A	Kelsey Creek	4/21/07	12:04	12:08	0:04	0	0	0	N/R		
Bartos	13A	Kelsey Creek	4/21/07	13:20	13:35	0:15	0	0	0	N/R		sunny, warm
Blue	13A	Kelsey Creek	4/25/07	11:00	11:10	0:10	0	0	0	N/R		
Artero	13A	Kelsey Creek	4/25/07	14:41	14:57	0:16	0	0	0	N/R		
Mackey	13A	Kelsey Creek	4/25/07	17:25	17:40	0:15	1-10	0	1-10	N/R		
Mackey	13A	Kelsey Creek	4/26/07	12:22	12:37	0:15	0	0	0	N/R		
Artero	13A	Kelsey Creek	4/26/07	13:38	13:54	0:16	0	0	0	N/R		
Bartos	13A	Kelsey Creek	4/28/07	12:19	12:34	0:15	0	0	0	N/R		saw blue heron
Strohofer	13A	Kelsey Creek	4/28/07	12:20	12:35	0:15	0	0	0	N/R		1 large blue heron; ducks
Strohofer	13A	Kelsey Creek	4/29/07	14:35	14:45	0:10	0	0	0	N/R		train passed over
Tokuda	13A	Kelsey Creek	4/30/07	13:25	13:40	0:15	0	0	0	N/R		partly sunny
Paulsen	13A	Kelsey Creek	4/30/07	13:30	13:45	0:15	0	0	0	N/R	2	2 peamouth volunteers
Artero	13A	Kelsey Creek	4/30/07	19:09	19:25	0:16	0	0	0	N/R		sucker swimming upstream
Paulsen	13A	Kelsey Creek	5/1/07	8:05	8:15	0:10	0	0	0	N/R		
Strohofer	13A	Kelsey Creek	5/2/07	7:15	7:30	0:15	26-99	1	30	N/R		
Strohofer	13A	Kelsey Creek	5/2/07	10:40	10:55	0:15	0	0	0	N/R		
Tokuda	13A	Kelsey Creek	5/2/07	12:05	12:20	0:15	0	0	0	N/R		partly sunny; murky water
Artero	13A	Kelsey Creek	5/2/07	14:53	15:10	0:17	0	0	0	N/R		big blue heron
Paulsen	13A	Kelsey Creek	5/3/07	9:30	9:40	0:10	0	0	0	N/R		
Artero	13A	Kelsey Creek	5/3/07	18:25	18:41	0:16	0	0	0	N/R		
Artero	13A	Kelsey Creek	5/5/07	12:48	13:04	0:16	0	0	0	N/R		
Mackey	13A	Kelsey Creek	5/6/07	18:05	18:20	0:15	0	0	0	N/R		1 fish jumped, no ID
Strohofer	13A	Kelsey Creek	5/7/07	8:00	8:17	0:17	1000+	0	2000	N/R	4	cool!
Albach	13A	Kelsey Creek	5/7/07	18:10	18:15	0:05	0	1	1	N/R	2	
Tokuda	13A	Kelsey Creek	5/8/07	12:45	13:00	0:15	100+	2	100+	N/R		still arriving; not packed between rocks and not a lot of orange around mouths
Mackey	13A	Kelsey Creek	5/8/07	18:00	18:30	0:30	0	0	0	N/R		
Mackey	13A	Kelsey Creek	5/8/07	18:00	18:30	0:30	100+	0	100+	N/R		
Tokuda	13A	Kelsey Creek	5/9/07	13:20	13:35	0:15	~50	6	~56	N/R		mostly in tunnel on right going upstream; blue heron
Mackey	13A	Kelsey Creek	5/9/07	17:30	17:55	0:25	0	0	0	N/R		one larger (4-5#) fish, probably sucker
Artero	13A	Kelsey Creek	5/9/07	18:49	19:06	0:17	100+	7	100+	N/R		pair of mallards; pair of wood ducks
Strohofer	13A	Kelsey Creek	5/10/07	7:30	7:45	0:15	0	0	0	N/R		3 ducks
Mackey	13A	Kelsey Creek	5/12/07	18:50	19:00	0:10	0	0	0	N/R		
Artero	13A	Kelsey Creek	5/15/07	12:09	12:25	0:16	0	0	0	N/R		wood duck drake
Tokuda	13A	Kelsey Creek	5/16/07	10:30	10:45	0:15	0	0	0	N/R		light colored sediment and foam; 4 mallards feeding on peamouth roe?

Peamouth Spawning in Bellevue, 2005-2010

Surveyor Name	Site Number	Stream	Date	Start Time	End Time	Total Time	Number of Live Peamouth	Number of Dead Peamouth	Total Number of Peamouth	Eggs Present	Number of Citizens Present	Comments
Artero	13A	Kelsey Creek	5/17/07	13:10	13:26	0:16	0	0	0	N/R		lots of birds out
Tokuda	13A	Kelsey Creek	5/19/07	16:20	16:40	0:20	0	0	2	N/R		2 suckers; 1 heron; 4 mallards; 2 wood ducks
Tokuda	13A	Kelsey Creek	5/21/07	10:25	10:43	0:18	100+	2	100+	N/R		spawning; probably spawning since yesterday b/c dead fish do not look very fresh
Mackey	13A	Kelsey Creek	5/21/07	17:45	17:55	0:10	0	0	0	N/R		
Mackey	13A	Kelsey Creek	5/24/07	18:00	18:25	0:25	26-99	4	26-99	N/R	1	
Mackey	13A	Kelsey Creek	5/25/07	18:35	18:45	0:10	0	0	0	N/R		
Albach	13A&B	Kelsey Creek	4/18/07	12:50	13:05	0:15	0	0	0	N/R	0	water depth of far side is 2.6
Farrell	13A&B	Kelsey Creek	4/18/07	13:50	14:00	0:10	0	0	0	N/R		?
Farrell	13A&B	Kelsey Creek	4/20/07	16:00	16:20	0:20	0	0	0	N/R		?
Farrell	13A&B	Kelsey Creek	4/23/07	16:50	17:00	0:10	0	0	0	N/R		?
Mackey	13A&B	Kelsey Creek	4/23/07	18:10	18:27	0:17	0	0	0	N/R		
Albach	13A&B	Kelsey Creek	5/15/07	12:20	12:30	0:10	0	0	0	N/R	1	2 ducks
Albach	13A&B	Kelsey Creek	5/17/07	12:10	12:23	0:13	0	0	0	N/R		7 ducks, 1 fat robin
Blue	13B	Kelsey Creek	4/19/07	12:15	12:25	0:10	0	0	0	N/R		saw blue heron
Bartos	13B	Kelsey Creek	4/21/07	13:40	13:55	0:15	0	0	0	N/R		saw blue heron
Mackey	13B	Kelsey Creek	4/25/07	17:45	18:00	0:15	0	0	0	N/R		
Blue	13B	Kelsey Creek	4/26/07	12:15	12:28	0:13	0	0	0	N/R		
Albach	13B	Kelsey Creek	5/7/07	18:10	18:15	0:05	many	0	many	N/R	6	
Bartos	13B	Kelsey Creek	5/8/07	15:25	15:50	0:25	too many	0	too many	N/R	5	
Mackey	13B	Kelsey Creek	5/8/07	18:00	18:30	0:30	100+	1	100+	N/R		
Mackey	13B	Kelsey Creek	5/9/07	18:05	18:10	0:05	1-10	2	1-10	N/R		
Albach	13B	Kelsey Creek	5/10/07	12:02	12:08	0:06	0	0	0	N/R		
Albach	13B	Kelsey Creek	5/12/07	12:10	12:20	0:10	0	0	0	N/R		2 ducks
Albach	13B	Kelsey Creek	5/23/07	13:05	13:10	0:05	0	0	0	N/R		
Albach	13B	Kelsey Creek	5/24/07	11:45	11:55	0:10	many	3	many	N/R		wow
Mackey	13B	Kelsey Creek	5/24/07	18:30	18:40	0:10	0	3	3	N/R		
Farrell	116	Kelsey West Trib	4/16/07	14:00	14:15	0:15	0	0	0	N/R		water high, fast
Farrell	116	Kelsey West Trib	4/18/07	14:45	14:50	0:05	0	0	0	N/R		water high, fast
Farrell	116	Kelsey West Trib	4/20/07	15:25	15:40	0:15	0	0	0	N/R		?
Farrell	116	Kelsey West Trib	4/23/07	16:10	16:25	0:15	0	0	0	N/R		?
Farrell	116	Kelsey West Trib	4/25/07	14:10	14:35	0:10	0	0	0	N/R		?
Mackey	116	Kelsey West Trib	4/26/07	13:50	14:05	0:15	0	0	0	N/R	1	
Mackey	116	Kelsey West Trib	5/9/07	18:15	18:20	0:05	0	5	5	N/R		
Mackey	116	Kelsey West Trib	5/12/07	18:30	18:37	0:07	0	0	0	N/R		
Mackey	116	Kelsey West Trib	5/24/07	19:05	19:10	0:05	0	0	0	N/R		
Mackey	116	Kelsey West Trib	5/25/07	18:20	18:27	0:07	0	0	0	N/R		
Daar	325	Kelsey West Trib	4/15/07	11:00	11:30	0:30	0	0	0	N/R		
Daar	325	Kelsey West Trib	4/16/07	14:00	14:30	0:30	0	0	0	N/R		
Daar	325	Kelsey West Trib	4/17/07	12:00	14:00	2:00	0	0	0	N/R		
Daar	325	Kelsey West Trib	4/18/07	8:00	8:30	0:30	0	0	0	N/R		
Daar	325	Kelsey West Trib	4/19/07	15:00	15:30	0:30	0	0	0	N/R	1	great blue heron in stream
Daar	325	Kelsey West Trib	4/20/07	13:00	14:00	1:00	0	0	0	N/R		dead fish un ID 16-18"
Daar	325	Kelsey West Trib	4/22/07	15:00	15:30	0:30	0	0	0	N/R	2	
Daar	325	Kelsey West Trib	4/24/07	13:00	14:00	1:00	0	0	0	N/R		
Daar	325	Kelsey West Trib	4/26/07	15:00	15:30	0:30	0	0	0	N/R		
Daar	325	Kelsey West Trib	4/27/07	16:00	16:30	0:30	0	0	0	N/R		2 mallards
Daar	325	Kelsey West Trib	4/29/07	16:00	17:00	1:00	0	0	0	N/R		
Daar	325	Kelsey West Trib	4/30/07	14:00	14:30	0:30	0	0	0	N/R		

Peamouth Spawning in Bellevue, 2005-2010

Surveyor Name	Site Number	Stream	Date	Start Time	End Time	Total Time	Number of Live Peamouth	Number of Dead Peamouth	Total Number of Peamouth	Eggs Present	Number of Citizens Present	Comments
Daar	325	Kelsey West Trib	5/2/07	14:00	15:00	1:00	0	0	0	N/R		
Daar	325	Kelsey West Trib	5/4/07	13:00	15:00	2:00	0	0	0	N/R		
Daar	325	Kelsey West Trib	5/6/07	14:00	15:00	1:00	0	0	0	N/R	3	
Daar	325	Kelsey West Trib	5/8/07	15:00	17:00	2:00	0	0	0	N/R		
Daar	325	Kelsey West Trib	5/10/07	14:00	16:00	2:00	0	0	0	N/R		
Daar	325	Kelsey West Trib	5/12/07	14:00	16:00	2:00	0	0	0	N/R	1	
Daar	325	Kelsey West Trib	5/16/07	16:00	17:00	1:00	0	0	0	N/R		
Daar	325	Kelsey West Trib	5/21/07	14:00	14:30	0:30	0	0	0	N/R		
Daar	325	Kelsey West Trib	5/25/07	14:00	14:30	0:30	0	0	0	N/R		
Farrell	79	Lake Washington	4/16/07	13:30	13:45	0:15	0	0	0	N/R		water high
Farrell	79	Lake Washington	4/18/07	14:10	14:30	0:20	0	0	0	N/R		major sewer construction; high and muddy
Mackey	327	Lewis Creek	4/19/07	11:30	11:45	0:15	0	0	0	N/R	1	clear water; low flow
Mackey	327	Lewis Creek	4/23/07	17:10	17:45	0:35	0	0	1	N/R	1	20 to 24 fish, probably suckers
Mackey	327	Lewis Creek	4/24/07	14:20	14:30	0:10	0	0	1	N/R	1	1 dead rainbow trout
Mackey	327	Lewis Creek	4/26/07	11:25	11:40	0:15	0	0	0	N/R		
Mackey	327	Lewis Creek	5/6/07	17:40	17:55	0:15	0	0	0	N/R		
Mackey	327	Lewis Creek	5/9/07	17:00	17:10	0:10	0	0	0	N/R		
Mackey	327	Lewis Creek	5/12/07	17:20	17:35	0:15	0	0	0	N/R		
Mackey	327	Lewis Creek	5/21/07	16:23	16:38	0:15	0	0	0	N/R		
Mackey	327	Lewis Creek	5/24/07	17:05	17:20	0:15	0	0	0	N/R		
Strohofer	445	Mercer Slough	4/15/07	16:25	16:45	0:20	0	0	0	N/R		
Albach	445	Mercer Slough	4/18/07	13:10	13:15	0:05	0	0	0	N/R	0	water rushing through
Komorowski	445	Mercer Slough	4/19/07	15:50	16:05	0:15	0	0	0	N/R		
Mackey	445	Mercer Slough	4/19/07	18:00	18:15	0:15	0	0	0	N/R		low to medium flow
Strohofer	445	Mercer Slough	4/21/07	13:00	13:15	0:15	0	0	0	N/R		
Mackey	445	Mercer Slough	4/23/07	18:35	18:50	0:15	0	0	0	N/R		1 small dead sucker
Strohofer	445	Mercer Slough	4/24/07	10:00	10:15	0:15	0	0	0	N/R		
Tokuda	445	Mercer Slough	4/25/07	10:50	11:05	0:15	0	0	0	N/R		partly sunny
Artero	445	Mercer Slough	4/25/07	14:18	14:34	0:16	0	0	0	N/R		1 river otter
Mackey	445	Mercer Slough	4/25/07	16:50	17:15	0:25	1-10	0	1-10	N/R		
Mackey	445	Mercer Slough	4/26/07	11:57	12:15	0:18	0	0	0	N/R		1 fished jumped, could not ID
Artero	445	Mercer Slough	4/26/07	13:17	13:33	0:16	0	0	0	N/R		
Komorowski	445	Mercer Slough	4/26/07	15:45	16:00	0:15	0	0	0	N/R		
Komorowski	445	Mercer Slough	4/28/07	13:30	13:45	0:15	0	0	0	N/R		
Strohofer	445	Mercer Slough	4/29/07	14:50	15:00	0:10	0	0	0	N/R		heron on tree branch
Paulsen	445	Mercer Slough	4/30/07	13:50	14:10	0:20	0	0	0	N/R		
Artero	445	Mercer Slough	4/30/07	19:33	19:49	0:16	0	0	0	N/R		
Paulsen	445	Mercer Slough	5/1/07	1:35	1:55	0:20	0	0	0	N/R		
Paulsen	445	Mercer Slough	5/1/07	7:40	8:00	0:20	0	0	0	N/R		
Strohofer	445	Mercer Slough	5/2/07	7:20	7:30	0:10	0	0	0	N/R		blue heron
Artero	445	Mercer Slough	5/2/07	14:26	14:43	0:17	0	0	0	N/R	1	1 river otter
Paulsen	445	Mercer Slough	5/3/07	9:10	9:25	0:15	0	0	0	N/R		
Artero	445	Mercer Slough	5/3/07	18:48	19:06	0:18	0	0	0	N/R		1-2 suckers
Paulsen	445	Mercer Slough	5/4/07	12:00	12:15	0:15	0	0	0	N/R		
Artero	445	Mercer Slough	5/5/07	12:22	12:39	0:17	0	0	0	N/R		
Strohofer	445	Mercer Slough	5/7/07	7:45	7:58	0:13	100+	0	100+	N/R	3	
Artero	445	Mercer Slough	5/7/07	16:11	16:27	0:16	26-99	0	26-99	N/R		very sunny
Albach	445	Mercer Slough	5/7/07	17:50	17:55	0:05	many	0	many	N/R		coming over in groups
Mackey	445	Mercer Slough	5/8/07	18:00	18:30	0:30	0	0	0	N/R		water murky
Artero	445	Mercer Slough	5/9/07	18:21	18:44	0:23	1	0	1	N/R	1	moving upstream; ~70% confident ID
Mackey	445	Mercer Slough	5/9/07	18:40	18:50	0:10	0	0	0	N/R		

Peamouth Spawning in Bellevue, 2005-2010

Surveyor Name	Site Number	Stream	Date	Start Time	End Time	Total Time	Number of Live Peamouth	Number of Dead Peamouth	Total Number of Peamouth	Eggs Present	Number of Citizens Present	Comments
Artero	445	Mercer Slough	5/15/07	11:48	12:04	0:16	0	0	0	N/R		smelled fishy; lots of floating duck poop
Artero	445	Mercer Slough	5/17/07	12:47	13:03	0:16	0	0	0	N/R		~5" UID fish in pool at top step
Mackey	445	Mercer Slough	5/24/07	19:18	19:23	0:05	0	0	0	N/R		
Albach	900	Sturdevant Creek	4/21/07	12:15	12:18	0:03	0	0	0	N/R		
Paulsen	900	Sturdevant Creek	4/30/07	14:15	14:20	0:05	0	0	0	N/R		
Paulsen	900	Sturdevant Creek	5/1/07	8:20	8:25	0:05	0	0	0	N/R		
Paulsen	900	Sturdevant Creek	5/1/07	14:00	14:05	0:05	0	0	0	N/R		
2008 Peamouth Data												
Paulsen	13	Kelsey Creek	5/6/08	17:10	17:20	0:10	100+	0	100+	N	-	Activity indicated spawning near pilings
Nielsen	120	Kelsey Creek	4/25/08	11:00	11:20	0:20	0	0	0	N	1	
Nielsen	124	Kelsey Creek	4/25/08	10:10	10:25	0:15	0	0	0	N	0	
Mackey	124	Kelsey Creek	5/6/08	15:30	15:35	0:05	0	0	0	N	0	Low flow
Hawn	124	Kelsey Creek	5/6/08	16:00	16:15	0:15	0	0	0	N	0	
Mackey	124	Kelsey Creek	5/29/08	19:53	19:55	0:02	0	0	0	N	0	
Nielsen	13A	Kelsey Creek	4/17/08	11:15	11:30	0:15	0	0	0	N	0	
Hawn	13A	Kelsey Creek	4/22/08	19:00	19:15	0:15	0	0	0	N	0	
Lohman	13A	Kelsey Creek	4/28/08	17:00	17:30	0:30	0	0	0	N	0	
Hawn	13A	Kelsey Creek	5/4/08	12:15	12:30	0:15	0	0	0	N	0	
Hawn	13A	Kelsey Creek	5/6/08	15:10	15:40	0:30	100+	1	100+	Y	2	More fish than I can count; maybe 1000s
Paulsen	13A	Kelsey Creek	5/6/08	16:45	17:10	0:25	100+	0	100+	Y	-	Lower riffle near sewer pipes very active this year
Lohman	13A	Kelsey Creek	5/6/08	17:00	18:00	1:00	100+	3	100+	Y	8	
Strohofer	13A	Kelsey Creek	5/6/08	19:10	19:25	0:15	1000+	2	1000+	Y	6	
Heath	13A	Kelsey Creek	5/17/08	15:15	15:30	0:15	20+	0	20+	?	0	
Hawn	13A	Kelsey Creek	5/18/08	9:00	9:15	0:15	0	3	3	Y	0	
Nielsen	13B	Kelsey Creek	4/17/08	11:35	11:58	0:23	0	0	0	N	0	
Mackey	13B	Kelsey Creek	4/22/08	18:29	18:30	0:01	0	0	0	N	0	Low flow
Peltzer	13B	Kelsey Creek	4/30/08	10:10	10:30	0:20	0	0	0	N	0	Cold
Mackey	13B	Kelsey Creek	4/30/08	18:25	18:37	0:12	0	0	0	N	0	Low flow
Peltzer	13B	Kelsey Creek	5/2/08	14:00	14:15	0:15	0	0	0	N	0	
Mackey	13B	Kelsey Creek	5/4/08	17:25	17:35	0:10	0	0	0	N	0	Low flow
Peltzer	13B	Kelsey Creek	5/5/08	15:20	15:40	0:20	1000+	0	1000+	Y	3	
Peltzer	13B	Kelsey Creek	5/5/08	15:50	16:05	0:15	1000+	0	1000+	Y	0	
Mackey	13B	Kelsey Creek	5/6/08	15:10	15:22	0:12	100+	2	100+	Y	2	Low flow
Heath	13B	Kelsey Creek	5/6/08	18:15	18:30	0:15	100+	0	100+	?	3	
Devereaux	13B	Kelsey Creek	5/7/08	9:30	10:30	1:00	1000+	-	1000+	Y	0	Same as night before, 1000s but less active and stream is covered with eggs.
Peltzer	13B	Kelsey Creek	5/7/08	14:00	14:30	0:30	100+	0	100+	Y	1	
Mackey	13B	Kelsey Creek	5/7/08	14:20	14:45	0:25	100+	6	100+	Y	2	
Mackey	13B	Kelsey Creek	5/8/08	19:32	19:40	0:08	0	0	0	Y	0	
Peltzer	13B	Kelsey Creek	5/14/08	15:30	15:40	0:10	0	0	0	N	0	ducks
Mackey	13B	Kelsey Creek	5/15/08	17:03	17:18	0:15	0	0	0	N	0	
Peltzer	13B	Kelsey Creek	5/16/08	19:00	19:15	0:15	0	0	0	N	0	
Peltzer	13B	Kelsey Creek	5/17/08	10:00	10:20	0:20	10	3	13	N	3	
Heath	13B	Kelsey Creek	5/17/08	15:30	15:45	0:15	100+	0	100+	Y	0	
Mackey	13B	Kelsey Creek	5/18/08	14:15	14:30	0:15	1-10	0	1-10	Y	2	
Mackey	13B	Kelsey Creek	5/25/08	16:43	16:58	0:15	0	0	0	Y	0	Clear water
Mackey	13B	Kelsey Creek	5/29/08	10:59	11:09	0:10	26-99	1	100+	Y	0	Low flow
Devereaux	13B	Kelsey Creek	5/29/08	16:20	16:40	0:20	100+	5	100+	Y	0	Tons of eggs in the riffles. Peamouth actively spawning & seem to still be coming upstream

Peamouth Spawning in Bellevue, 2005-2010

Surveyor Name	Site Number	Stream	Date	Start Time	End Time	Total Time	Number of Live Peamouth	Number of Dead Peamouth	Total Number of Peamouth	Eggs Present	Number of Citizens Present	Comments
Devereaux	13B	Kelsey Creek	5/29/08	16:40	16:45	0:05	100+	2	100+	Y	0	Actively spawning in riffle
Mackey	13B	Kelsey Creek	5/29/08	16:50	16:55	0:05	100+	5	100+	Y	0	Loads of eggs
Mackey	13B	Kelsey Creek	5/29/08	18:55	19:05	0:10	100+	5	100+	Y	0	Loads of eggs
Mackey	13B	Kelsey Creek	5/29/08	20:20	20:24	0:04	26-99	0	26-99	Y	0	
Mackey	13B	Kelsey Creek	5/30/08	10:53	10:55	0:02	0	0	0	Y	0	
Mackey	13B	Kelsey Creek	6/5/08	14:53	14:59	0:06	0	0	0	N	0	Muddy looking--rain
Mackey	13B	Kelsey Creek	6/8/08	17:14	17:26	0:12	0	0	0	N	0	Clear water
Mackey	13B	Kelsey Creek	6/14/08	18:50	19:02	0:12	1-10	0	1-10	N	0	Low flow
Mackey	13B	Kelsey Creek	6/15/08	5:55	6:21	0:26	11-25	0	11-25	?	0	huge bald eagle
Mackey	13B	Kelsey Creek	6/15/08	20:58	21:10	0:12	0	1	1	?	0	
Mackey	13B	Kelsey Creek	6/17/08	18:50	18:55	0:05	0	0	0	N	0	
Nielsen	116	Kelsey West Trib	4/25/08	10:35	10:50	0:15	0	0	0	N	4	
Heath	116	Kelsey West Trib	4/26/08	11:55	12:10	0:15	0	0	0	N	0	
Mackey	116	Kelsey West Trib	5/6/08	15:45	16:00	0:15	0	0	0	N	0	Low flow
Mackey	116	Kelsey West Trib	5/29/08	20:01	20:12	0:11	0	0	0	N	0	
Daar	325	Kelsey West Trib	4/21/08	14:00	14:30	0:30	0	0	0	N	0	
Daar	325	Kelsey West Trib	4/25/08	13:00	13:30	0:30	0	0	0	N	0	
Daar	325	Kelsey West Trib	4/30/08	14:00	14:15	0:15	0	0	0	N	0	
Daar	325	Kelsey West Trib	5/2/08	13:00	13:30	0:30	0	0	0	N	0	
Daar	325	Kelsey West Trib	5/7/08	15:00	15:30	0:30	0	0	0	N	0	
Daar	325	Kelsey West Trib	5/10/08	15:00	15:30	0:30	0	0	0	N	0	
Daar	325	Kelsey West Trib	5/15/08	14:00	14:15	0:15	0	0	0	N	0	
Daar	325	Kelsey West Trib	5/18/08	10:00	10:20	0:20	0	0	0	N	0	
Daar	325	Kelsey West Trib	5/21/08	10:00	10:30	0:30	0	0	0	N	0	
Daar	325	Kelsey West Trib	5/23/08	14:00	14:15	0:15	0	0	0	N	0	
Daar	325	Kelsey West Trib	5/27/08	14:00	14:15	0:15	0	0	0	N	0	
Daar	325	Kelsey West Trib	5/30/08	10:00	10:15	0:15	0	0	0	N	0	
Daar	325	Kelsey West Trib	6/1/08	10:00	10:20	0:20	0	0	0	N	0	
Daar	325	Kelsey West Trib	6/1/08	15:00	15:30	0:30	0	0	0	N	0	
Mackey	327	Lewis Creek	4/22/08	17:35	17:50	0:15	0	0	0	N	1	Clear water
Mackey	327	Lewis Creek	5/4/08	16:20	16:30	0:10	0	0	0	N	0	Clear water
Mackey	327	Lewis Creek	5/6/08	10:10	10:15	0:05	0	0	0	N	0	Low flow
Mackey	327	Lewis Creek	5/15/08	16:30	16:45	0:15	0	0	0	N	1	Low flow
Mackey	327	Lewis Creek	5/29/08	9:35	9:50	0:15	0	0	0	N	0	Very low flow
Mackey	327	Lewis Creek	6/2/08	7:18	7:28	0:10	0	0	0	N	0	Very low flow
Mackey	327	Lewis Creek	6/17/08	17:57	18:02	0:05	0	0	0	N	0	Very low flow
Nielsen	445	Mercer Slough	4/17/08	10:30	10:50	0:20	0	0	0	N	0	Small dead fish, 6", silver.
Strohofer	445	Mercer Slough	4/18/08	10:15	10:30	0:15	0	0	0	N	0	
Hawn	445	Mercer Slough	4/20/08	11:30	11:45	0:15	0	0	0	N	0	
Heath	445	Mercer Slough	4/20/08	14:15	14:30	0:15	0	0	0	N	0	
Strohofer	445	Mercer Slough	4/21/08	17:35	17:45	0:10	0	0	0	N	0	
Mackey	445	Mercer Slough	4/22/08	18:09	18:19	0:10	0	0	0	N	0	Usually murkiness
Strohofer	445	Mercer Slough	4/23/08	17:30	17:40	0:10	0	0	0	N	0	
Heath	445	Mercer Slough	4/26/08	15:00	15:15	0:15	0	0	0	N	1	a heron flew overhead
Lohman	445	Mercer Slough	4/28/08	16:30	17:00	0:30	0	0	0	N	0	
Strohofer	445	Mercer Slough	4/29/08	17:55	18:10	0:15	0	0	0	N	0	
Mackey	445	Mercer Slough	4/30/08	18:05	18:17	0:12	0	0	0	N	0	Usually murkiness
Peltzer	445	Mercer Slough	4/30/08	18:15	19:00	0:45	0	0	0	N	0	Water was dark
Heath	445	Mercer Slough	5/1/08	12:25	12:40	0:15	0	0	0	N	0	
Peltzer	445	Mercer Slough	5/4/08	11:20	11:40	0:20	0	0	0	N	0	
Mackey	445	Mercer Slough	5/4/08	17:48	18:00	0:12	0	0	0	N	0	High lake level

Peamouth Spawning in Bellevue, 2005-2010

Surveyor Name	Site Number	Stream	Date	Start Time	End Time	Total Time	Number of Live Peamouth	Number of Dead Peamouth	Total Number of Peamouth	Eggs Present	Number of Citizens Present	Comments
Heath	445	Mercer Slough	5/4/08	18:00	18:15	0:15	0	0	0	N	1	
Strohofer	445	Mercer Slough	5/4/08	18:52	18:59	0:07	0	0	0	N	0	family of canadian geese
Peltzer	445	Mercer Slough	5/5/08	18:25	18:45	0:20	0	0	0	N	0	
Mackey	445	Mercer Slough	5/6/08	14:05	14:25	0:20	26-99	0	100+	N	2	Usualy murkiness
Hawn	445	Mercer Slough	5/6/08	15:45	16:00	0:15	0	0	0	N	0	
Strohofer	445	Mercer Slough	5/6/08	18:00	18:10	0:10	0	0	0	N	1	The water smelled bad
Paulsen	445	Mercer Slough	5/6/08	18:30	19:05	0:35	0	0	0	N	-	
Mackey	445	Mercer Slough	5/7/08	13:50	14:10	0:20	0	0	0	N	0	One small unidentified fish
Mackey	445	Mercer Slough	5/8/08	19:10	19:25	0:15	0	0	0	Y	0	
Mackey	445	Mercer Slough	5/15/08	17:30	17:55	0:25	0	0	0	N	0	12-24 small 2" to 3" unidentified fish
Mackey	445	Mercer Slough	5/16/08	18:43	18:57	0:14	0	0	0	N	0	Approx. 2 dozen 2"-3" unidentified fish
Hawn	445	Mercer Slough	5/18/08	9:15	9:30	0:15	0	0	0	N	0	
Mackey	445	Mercer Slough	5/18/08	16:15	16:30	0:15	1-10	0	1-10	N	0	Like an aquarium...lots of unidentified fish!
Mackey	445	Mercer Slough	5/25/08	17:05	17:35	0:30	0	0	0	N	0	Approx. 3-4 dozen 2"-3" unidentified fish; 2 eels
Mackey	445	Mercer Slough	5/25/08	17:05	17:35	0:30	0	0	0	N	0	
Mackey	445	Mercer Slough	5/28/08	17:45	18:00	0:15	0	0	0	N	0	
Mackey	445	Mercer Slough	5/28/08	17:45	18:00	0:15	0	0	0	N	0	1 crayfish; approx. 1 dozen 2"-3" unidentified fish
Mackey	445	Mercer Slough	5/29/08	16:08	16:37	0:29	26-99	0	26-99	N	0	Usualy murkiness
Devereaux	445	Mercer Slough	5/29/08	16:50	17:00	0:10	20	0	20	N	0	About as many peamouth going downstream as were going upstream. 3' fish also going up & down. Peamouth swimming slowly @ bottom of top weir.
Mackey	445	Mercer Slough	5/29/08	19:16	19:36	0:20	26-99	0	26-99	N	0	High lake level
Mackey	445	Mercer Slough	5/29/08	20:31	20:46	0:15	11-25	0	11-25	N	0	Low flow
Mackey	445	Mercer Slough	5/30/08	10:29	10:40	0:11	0	1	1	N	0	One peamouth head
Mackey	445	Mercer Slough	6/5/08	15:35	15:50	0:15	0	0	0	N	0	Muddy looking--rain
Mackey	445	Mercer Slough	6/8/08	16:52	17:07	0:15	0	0	0	N	0	High lake level
Mackey	445	Mercer Slough	6/14/08	18:30	18:42	0:12	0	0	0	N	0	Usualy murkiness
Mackey	445	Mercer Slough	6/15/08	6:30	6:45	0:15	0	0	0	N	0	
Mackey	445	Mercer Slough	6/17/08	19:03	19:08	0:05	0	0	0	N	0	Still high lake level
Paulsen	No #	Mercer Slough Native Park	5/6/08	18:10	18:30	0:20	0	0	0	N	-	No site number - tributaries and shoreline
Paulsen	900	Sturtevant Creek	5/6/08	17:30	17:50	0:20	0	0	0	N	-	
2009 Peamouth Data												
Komorowski	439	Coal Creek	4/20/09	12:15	12:20	0:05	0	0	0	N		two 12" fish
Nielsen	439	Coal Creek	5/25/09	11:45	12:00	0:15	0	0	0	N		1 belted kingfisher, clean and clear stream, sunny; heard a large fish jump at ladder, couldn't locate
Komorowski	440	Coal Creek	5/10/09	19:55	20:10	0:15	0	0	0	N		
Komorowski	440	Coal Creek	5/11/09	15:20	15:35	0:15	0	0	0	N		
Komorowski	440	Coal Creek	5/16/09	14:30	14:45	0:15	0	0	0	N		
Komorowski	440	Coal Creek	5/21/09	16:25	16:40	0:15	0	0	0	N		2" fish or tadpole
Nielsen	440	Coal Creek	5/25/09	11:15	11:30	0:15	0	0	0	N		lovely creek! clear and clean
Komorowski	440	Coal Creek	5/26/09	15:15	15:30	0:15	0	0	0	N		
Mackey	13	Kelsey Creek	4/23/09	19:07	19:19	0:12	0	0	0	N		one beaver
Mackey	13	Kelsey Creek	4/27/09	17:50	18:05	0:15	0	0	0	N	2	citizens saw eagle in tree
Mackey	13	Kelsey Creek	4/30/09	18:20	18:35	0:15	0	0	0	N		one beaver
Komorowski	13	Kelsey Creek	5/1/09	14:55	15:10	0:15	0	0	0	N		
Mackey	13	Kelsey Creek	5/2/09	15:12	15:23	0:11	0	0	0	N		one dead sucker (5 lb)
Mackey	13	Kelsey Creek	5/3/09	19:02	19:12	0:10	0	0	0	N		no wildlife

Peamouth Spawning in Bellevue, 2005-2010

Surveyor Name	Site Number	Stream	Date	Start Time	End Time	Total Time	Number of Live Peamouth	Number of Dead Peamouth	Total Number of Peamouth	Eggs Present	Number of Citizens Present	Comments
Mackey	13	Kelsey Creek	5/4/09	17:17	17:28	0:11	0	0	0	N		clear water
Mackey	13	Kelsey Creek	5/7/09	20:18	20:25	0:07	0	0	0	N		medium-high flow
Komorowski	13	Kelsey Creek	5/8/09	15:00	15:15	0:15	0	0	0	N		still high flow from rain
Mackey	13	Kelsey Creek	5/14/09	18:30	18:42	0:12	0	0	0	Y		medium flow
Mackey	13	Kelsey Creek	5/16/09	18:53	19:06	0:13	0	0	0	Y		2 mallards
Mackey	13	Kelsey Creek	5/17/09	17:50	17:53	0:03	0	0	0	Y		
Mackey	13	Kelsey Creek	5/18/09	16:20	16:40	0:20	100+	0	100+	Y		one mallard
Mackey	13	Kelsey Creek	5/20/09	18:26	18:35	0:09	0	0	0	Y		low flow
Mackey	13	Kelsey Creek	5/25/09	15:50	16:05	0:15	0	0	0	?		one sucker (3 lb), one mallard
Mackey	13	Kelsey Creek	5/26/09	16:53	17:02	0:09	0	0	0	?		one small bird (wren?)
Mackey	13	Kelsey Creek	5/29/09	14:10	14:20	0:10	0	0	0	?		3 mallard ducks
Mackey	13	Kelsey Creek	5/29/09	17:15	17:20	0:05	0	0	0	?		1 small bird, no ducks
Mackey	13	Kelsey Creek	5/30/09	19:00	19:12	0:12	0	0	0	N		one small bird (sparrow?)
Mackey	13	Kelsey Creek	6/1/09	9:40	9:50	0:10	0	0	0	N		3 spider-like bugs
Mackey	13	Kelsey Creek	6/4/09	18:30	18:45	0:15	100+	0	100+	?		4 spider-like bugs, 1 woodchuck bird
Mackey	13	Kelsey Creek	6/5/09	14:40	14:53	0:13	0	0	0	Y		2 mallards eating eggs
Mackey	13	Kelsey Creek	6/7/09	12:46	12:58	0:12	0	0	0	?		no wildlife
Mackey	13	Kelsey Creek	6/11/09	12:42	12:55	0:13	0	0	0	?		
Mackey	13	Kelsey Creek	6/12/09	15:23	15:33	0:10	0	0	0	N		low flow
Mackey	13	Kelsey Creek	6/15/09	16:14	16:18	0:04	0	0	0	N		4 spider-like bugs
Mackey	13	Kelsey Creek	6/17/09	15:45	15:50	0:05	0	0	0	N		one raccoon and spider-like bugs
Mackey	13	Kelsey Creek	6/18/09	16:43	16:48	0:05	0	0	0	N		
Mackey	13	Kelsey Creek	6/23/09	18:18	18:23	0:05	0	0	0	N		two birds: 1 kingfisher and 1 unknown
Nielsen	120	Kelsey Creek	5/11/09	11:00	11:15	0:15	0	0	0	N	3 (mom w/ kids)	occ. sun, many small kids, occ. small fish seen in creek
Nielsen	124	Kelsey Creek	4/27/09	13:05	13:20	0:15	0	0	0	N		water clear; several golf balls in creek
Sugarman	13A	Kelsey Creek	4/16/09	16:35	16:50	0:15	0	0	0	N		cloudy, 60 degrees, clear water
Glidden	13A	Kelsey Creek	4/17/09	15:25	15:45	0:20	0	0	0	N		sunny and warm, clear water
Glidden	13A	Kelsey Creek	4/22/09	16:05	17:00	0:55	0	0	0	N		clear water
Tokuda	13A	Kelsey Creek	4/23/09	14:15	14:30	0:15	0	0	0	N		1 Anna's hummingbird
Nielsen	13A	Kelsey Creek	4/24/09	11:05	11:25	0:20	0	0	0	N		water clear, small amt. "foam" at far bank edge by branches. Rufous-sided towhee - male - calling - Water level 1.10
Glidden	13A	Kelsey Creek	4/26/09	15:35	16:05	0:30	0	0	0	N		clear skies & water
Tokuda	13A	Kelsey Creek	4/28/09	11:20	11:35	0:15	0	0	0	N		3 suckers, 1 wood duck
Nielsen	13A	Kelsey Creek	5/1/09	9:45	10:00	0:15	0	0	0	N		water clear. Sunny & warm. hummingbird feeding
Nielsen	13A	Kelsey Creek	5/4/09	10:05	10:20	0:15	0	0	0	N	2	road crew, sign holder lots of construction going on, water clear under trestle, areas of foam in water under lg pipes
Tokuda	13A	Kelsey Creek	5/4/09	11:55	12:10	0:15	0	0	0	N		1 mallard, clear water
Sugarman	13A	Kelsey Creek	5/6/09	13:45	14:00	0:15	0	0	0	N		water level 150 cm
Glidden	13A	Kelsey Creek	5/7/09	13:20	13:50	0:30	0	0	0	N		GBH, mallard
Sugarman	13A	Kelsey Creek	5/8/09	15:45	16:00	0:15	0	0	0	N		water level 150 cm
Glidden	13A	Kelsey Creek	5/9/09	11:00	12:30	1:30	0	0	0	N		partly cloudy, spotted 2 fish, too fast to ID
Nielsen	13A	Kelsey Creek	5/9/09	12:05	12:20	0:15	0	0	0	N	1	ran into another stream watcher. 70 deg, water 50 deg.
Glidden	13A	Kelsey Creek	5/10/09	10:15	10:45	0:30	0	0	0	N	1	
Sugarman	13A	Kelsey Creek	5/10/09	18:45	19:00	0:15	100+	8	108+	Y	1	citizen said he grew up in Bellevue, 1963, 64, saw peamouth as a kid
Glidden	13A	Kelsey Creek	5/10/09	22:15	22:45	0:30	0	0	0	N	1	
Nielsen	13A	Kelsey Creek	5/11/09	10:15	10:30	0:15	0	0	0	N		no eggs or fish seen traveling - ?

Peamouth Spawning in Bellevue, 2005-2010

Surveyor Name	Site Number	Stream	Date	Start Time	End Time	Total Time	Number of Live Peamouth	Number of Dead Peamouth	Total Number of Peamouth	Eggs Present	Number of Citizens Present	Comments
Peltzer	13A	Kelsey Creek	5/11/09	18:10	18:40	0:30	50	16	66	N	1	windy, clean water
Sugarman	13A	Kelsey Creek	5/11/09	18:15	18:30	0:15	100+	15	115+	Y	3	fewer than yesterday, less frantic swimming
Peltzer	13A	Kelsey Creek	5/13/09	18:15	18:30	0:15	0	0	0	Y		heavy rain
Nielsen	13A	Kelsey Creek	5/17/09	11:50	12:05	0:15	0	0	0	N		shade 62 deg, water 56 deg
Tokuda	13A	Kelsey Creek	5/18/09	12:50	13:15	0:25	50+	0	50+	Y		steady stream arriving, starting to arrive (look small)
Tokuda	13A	Kelsey Creek	5/21/09	11:35	11:50	0:15	0	0	0	N		1-2 brown birds (dipper/wren?) hanging around
Sugarman	13A	Kelsey Creek	5/24/09	12:20	12:35	0:15	8	0	8	Y		1 GBH at culvert, 1 mallard
Tokuda	13A	Kelsey Creek	5/28/09	10:50	11:00	0:10	0	0	0	N		1 heron (wading), 3 mallards
Nielsen	13A	Kelsey Creek	5/29/09	11:00	11:15	0:15	0	0	0	N		warm and sunny, shallow water
Tokuda	13A	Kelsey Creek	6/4/09	14:10	14:30	0:20	0	0	0	N		lots of splashes downstream they are coming
Tokuda	13A	Kelsey Creek	6/4/09	15:00	15:15	0:15	100+	0	100+	N		spawning -- raccoon got one
Sugarman	13A	Kelsey Creek	6/5/09	18:15	18:30	0:15	0	0	0	Y		1 mallard
Tokuda	13A	Kelsey Creek	6/8/09	13:20	13:35	0:15	0	0	0	N		
Sugarman	13A	Kelsey Creek	6/8/09	16:30	16:45	0:15	0	0	0	N		
Sugarman	13A	Kelsey Creek	6/9/09	8:00	8:15	0:15	0	0	0	N		1 mallard
Sugarman	13A	Kelsey Creek	6/11/09	11:45	12:00	0:15	0	0	0	N		
Glidden	13B	Kelsey Creek	4/17/09	15:00	15:20	0:20	0	0	0	N		sunny and warm, clear water
Glidden	13B	Kelsey Creek	4/22/09	15:45	16:00	0:15	0	0	0	N		clear water
Nielsen	13B	Kelsey Creek	4/24/09	11:25	11:50	0:25	0	0	0	N		bird calls only, lack of debris in water and edge, good to see
Heath	13B	Kelsey Creek	4/24/09	16:45	17:00	0:15	0	0	0	N		very sunny
Glidden	13B	Kelsey Creek	4/26/09	15:00	15:30	0:30	0	0	0	N		clear skies and water, mallard
Nielsen	13B	Kelsey Creek	4/27/09	13:45	14:00	0:15	0	0	0	N		
Nielsen	13B	Kelsey Creek	5/1/09	10:10	10:35	0:25	0	0	0	?		area of color change in shallows next to rocks - couldn't get close to creek from this location for ID, plus 2 buckets of debris near road
Nielsen	13B	Kelsey Creek	5/4/09	10:25	10:50	0:25	0	0	0	N		belted kingfisher!! Water clear.
Glidden	13B	Kelsey Creek	5/7/09	13:55	14:30	0:35	0	0	0	N	2	new railing being installed
Nielsen	13B	Kelsey Creek	5/9/09	12:25	12:30	0:05	0	0	0	N		new wooden hand rail - great addition!
Heath	13B	Kelsey Creek	5/9/09	16:20	16:35	0:15	0	0	0	N		beautiful weather
Heath	13B	Kelsey Creek	5/10/09	17:45	18:15	0:30	100s+	20	100s+	Y		phoned - overcast
Glidden	13B	Kelsey Creek	5/10/09	22:45	23:30	0:45	300+	12	312	Y	1	clear water
Glidden	13B	Kelsey Creek	5/10/09	22:45	23:30	0:45	300+	12	300+	Y	1	clear water, at night
Glidden	13B	Kelsey Creek	5/11/09	9:00	10:30	1:30	200	20	220	Y	6	crows, heron, canada geese
Nielsen	13B	Kelsey Creek	5/11/09	10:00	10:10	0:10	100+	16	1000+	Y	1	overcast. Hundreds of peamouth.
Heath	13B	Kelsey Creek	5/15/09	17:15	17:30	0:15	0	0	0	Y		eggs remaining from the spawning on Sunday
Heath	13B	Kelsey Creek	5/17/09	12:00	12:15	0:15	0	0	0	Y		ducks, hot and sunny
Nielsen	13B	Kelsey Creek	5/17/09	12:10	12:25	0:15	0	0	0	Y		all signs of dead fish gone, eggs still in stream
Heath	13B	Kelsey Creek	5/25/09	17:00	17:15	0:15	0	0	0	N		duck in water, heron flew over, water level low
Nielsen	13B	Kelsey Creek	5/29/09	11:20	11:35	0:15	0	0	0	N		quiet day for birds, lots of cottonwood fluff in the air
Nielsen	13B	Kelsey Creek	6/4/09	17:10	17:30	0:20	100+	0	100+	?	2 (stream team)	action spawning
Nielsen	116	Kelsey West Trib	4/27/09	13:30	13:45	0:15	0	0	0	N		h2o clear, banks redone and trees inserted for fish rest and comfort - looks great! a

Peamouth Spawning in Bellevue, 2005-2010

Surveyor Name	Site Number	Stream	Date	Start Time	End Time	Total Time	Number of Live Peamouth	Number of Dead Peamouth	Total Number of Peamouth	Eggs Present	Number of Citizens Present	Comments
												few dead transplanted trees along the walkway need to be removed
Daar	325	Kelsey West Trib	4/22/09	15:00	15:30	0:30	0	0	0	N		
Daar	325	Kelsey West Trib	4/26/09	11:00	11:30	0:30	0	0	0	N		
Daar	325	Kelsey West Trib	4/29/09	11:00	11:15	0:15	0	0	0	N		
Daar	325	Kelsey West Trib	5/1/09	11:00	11:30	0:30	0	0	0	N	1	
Daar	325	Kelsey West Trib	5/3/09	15:00	15:15	0:15	0	0	0	N		
Daar	325	Kelsey West Trib	5/6/09	15:00	15:15	0:15	0	0	0	N		
Daar	325	Kelsey West Trib	5/6/09	19:00	19:05	0:05	0	0	0	N		heavy rain, turbid
Daar	325	Kelsey West Trib	5/7/09	17:00	17:15	0:15	0	0	0	N		water level receding
Daar	325	Kelsey West Trib	5/8/09	18:45	19:00	0:15	0	0	0	N		great blue heron
Daar	325	Kelsey West Trib	5/11/09	12:00	12:30	0:30	0	0	0	N		
Daar	325	Kelsey West Trib	5/11/09	18:00	18:15	0:15	0	0	0	N		
Daar	325	Kelsey West Trib	5/13/09	12:00	12:15	0:15	0	0	0	N		
Daar	325	Kelsey West Trib	5/14/09	16:00	16:15	0:15	0	0	0	N		
Daar	325	Kelsey West Trib	5/18/09	16:00	16:15	0:15	0	0	0	N		
Daar	325	Kelsey West Trib	5/20/09	16:00	16:15	0:15	0	0	0	N		
Daar	325	Kelsey West Trib	5/22/09	9:00	9:15	0:15	0	0	0	N		
Daar	325	Kelsey West Trib	5/23/09	10:00	10:30	0:30	0	0	0	N		great weather
Daar	325	Kelsey West Trib	5/26/09	10:00	10:20	0:20	0	0	0	N		good weather
Daar	325	Kelsey West Trib	5/29/09	14:00	14:30	0:30	0	0	0	N		
Daar	325	Kelsey West Trib	6/3/09	10:00	10:30	0:30	0	0	0	N		
Daar	325	Kelsey West Trib	6/7/09	9:00	9:30	0:30	0	0	0	N		
Daar	325	Kelsey West Trib	6/12/09	10:00	10:15	0:15	0	0	0	N		
Daar	325	Kelsey West Trib	6/12/09	14:00	14:15	0:15	0	0	0	N		
Daar	325	Kelsey West Trib	6/15/09	10:00	10:30	0:30	0	0	0	N		
Nielsen	51	Lake Washington	5/25/09	10:25	10:45	0:20	0	0	0	N	lots	cool, clean beach, lots of people w/ kids, small fingerlings off extension, dark color, 11-25.
Nielsen	76	Lake Washington	4/25/09	13:05	13:20	0:15	0	0	0	N	2	2 ducks
Nielsen	79	Lake Washington	4/25/09	13:35	13:55	0:20	0	0	0	N		1 dead fish, doubt it is a peamouth, lots of driftwood, lg turtle on beach at water line, cool - cloudy and windy!
Mackey	327	Lewis Creek	5/29/09	18:50	19:00	0:10	0	0	0	N		no wildlife; low flow
Mackey	327	Lewis Creek	6/11/09	17:36	17:49	0:13	0	0	0	N		2" to 6" fish present
Mackey	327	Lewis Creek	6/12/09	13:40	13:50	0:10	0	0	0	N		2" to 6" fish present
Mackey	327	Lewis Creek	6/15/09	15:38	15:45	0:07	0	0	0	N		some 2" to 6" fish
Glidden	445	Mercer Slough	4/22/09	14:30	15:00	0:30	0	0	0	N	2	cloudy weather, small 2" fish feeding off algae on fish ladder, glimpsed 12" bass?
Mackey	445	Mercer Slough	4/23/09	18:50	19:02	0:12	0	0	0	N		low-medium flow
Nielsen	445	Mercer Slough	4/24/09	10:40	11:00	0:20	0	0	0	N		water clear, 2 canada geese, cool and sunny
Glidden	445	Mercer Slough	4/26/09	16:25	17:30	1:05	0	0	0	N		clear skies and water, great blue heron
Komorowski	445	Mercer Slough	4/27/09	10:10	10:25	0:15	0	0	0	N		
Nielsen	445	Mercer Slough	4/27/09	12:45	13:00	0:15	0	0	0	N		water - 2 ducks - area clean of debris
Mackey	445	Mercer Slough	4/27/09	17:20	17:30	0:10	0	0	0	N		no wildlife
Mackey	445	Mercer Slough	4/30/09	18:00	18:13	0:13	0	0	0	N		clear water
Nielsen	445	Mercer Slough	5/1/09	10:45	11:00	0:15	0	0	0	N	0	egg clump of ivory white in clear gelatinous material -- small B-B size - called for ID?
Komorowski	445	Mercer Slough	5/1/09	14:30	14:45	0:15	0	0	0	N		twenty 4-6" fish, 1 heron
Mackey	445	Mercer Slough	5/2/09	14:55	15:05	0:10	0	0	0	N		low flow
Sugarman	445	Mercer Slough	5/3/09	15:30	15:45	0:15	0	0	0	N		kingfisher, school of small minnow 2"

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Surveyor Name	Site Number	Stream	Date	Start Time	End Time	Total Time	Number of Live Peamouth	Number of Dead Peamouth	Total Number of Peamouth	Eggs Present	Number of Citizens Present	Comments
Mackey	445	Mercer Slough	5/3/09	18:53	18:59	0:06	0	0	0	N		
Nielsen	445	Mercer Slough	5/4/09	9:40	10:00	0:20	0	0	0	N		overcast, few birds singing, cool, quiet
Mackey	445	Mercer Slough	5/4/09	17:00	17:10	0:10	0	0	0	N		2 small birds
Sugarman	445	Mercer Slough	5/6/09	13:30	13:45	0:15	0	0	0	N		rain, high water flow, one fish
Glidden	445	Mercer Slough	5/7/09	14:35	14:50	0:15	0	0	0	N		high water flow, hard to see
Mackey	445	Mercer Slough	5/7/09	20:31	20:38	0:07	0	0	0	N		high flow
Nielsen	445	Mercer Slough	5/9/09	11:45	12:00	0:15	0	0	0	N		sun's out! Air temp 62, water temp 50. Shade near ladder, water not as clear.
Heath	445	Mercer Slough	5/9/09	16:00	16:15	0:15	0	0	0	N		in middle rung of ladder & shoal of smaller fish, not peamouth
Peltzer	445	Mercer Slough	5/10/09	10:10	10:26	0:16	0	0	0	N		spotted heron, suds - water high
Glidden	445	Mercer Slough	5/10/09	11:30	11:45	0:15	0	0	0	N		
Heath	445	Mercer Slough	5/10/09	18:20	18:35	0:15	30+	0	30+	N		peamouth leaping up last rung at a rate of 1 per every 5 sec
Komorowski	445	Mercer Slough	5/10/09	18:30	18:45	0:15	26-99	0	26-99	N	2	peamouth are here
Glidden	445	Mercer Slough	5/10/09	23:30	23:45	0:15	0	0	0	N		
Mackey	445	Mercer Slough	5/14/09	18:07	18:23	0:16	0	0	0	N		1 duck, small 2"-6" fish
Tokuda	445	Mercer Slough	5/15/09	15:35	15:50	0:15	0	0	0	N		nice day, sunny
Heath	445	Mercer Slough	5/15/09	17:00	17:15	0:15	0	0	0			small shoal of fish, not peamouth. Hot and sunny
Mackey	445	Mercer Slough	5/16/09	18:32	18:44	0:12	0	0	0	N		2 spider-like bugs, one bird
Nielsen	445	Mercer Slough	5/17/09	11:20	11:45	0:25	0	0	0	N		sunny
Mackey	445	Mercer Slough	5/17/09	17:42	17:47	0:05	0	0	0	N		4 geese
Mackey	445	Mercer Slough	5/18/09	17:08	17:23	0:15	11-25	0	11-25	N		
Mackey	445	Mercer Slough	5/20/09	18:06	18:18	0:12	0	0	0	N		no wildlife
Nielsen	445	Mercer Slough	5/25/09	12:05	12:20	0:15	0	0	0	N		
Mackey	445	Mercer Slough	5/25/09	15:30	15:40	0:10	0	0	0	N	1	lots 2" to 6" fish
Heath	445	Mercer Slough	5/25/09	16:45	17:00	0:15	0	0	0	N		small shoal of fish in fish ladder
Mackey	445	Mercer Slough	5/26/09	16:30	16:40	0:10	0	0	0	N		lots 2" to 6" fish, 1 spider-like bug
Mackey	445	Mercer Slough	5/29/09	13:50	14:00	0:10	0	0	0	N		1 aquatic bird (diver) - merganser
Mackey	445	Mercer Slough	5/29/09	16:55	17:05	0:10	0	0	0	N		some 2" to 6" fish
Mackey	445	Mercer Slough	5/30/09	19:26	19:33	0:07	0	0	0	N		no wildlife
Tokuda	445	Mercer Slough	6/4/09	14:40	14:55	0:15	5+	0	5+	N		also lots of 1-1/2 -- 2" fish giong up
Nielsen	445	Mercer Slough	6/4/09	16:45	17:00	0:15	0	0	0	N		50+ small 1-3 fingerlings @ ladder area near concrete wall - unable to identify color dark w/ shiny streaks. bro branches at upper area, safety hazard!
Mackey	445	Mercer Slough	6/4/09	18:59	19:11	0:12	0	0	0	N		low flow
Mackey	445	Mercer Slough	6/5/09	15:00	15:07	0:07	0	0	0	N		top fish ladder blocked w/ branches
Mackey	445	Mercer Slough	6/7/09	12:27	12:39	0:12	0	0	0	N		2 ducks, family of geese (9)
Mackey	445	Mercer Slough	6/11/09	12:25	12:35	0:10	0	0	0	N		no wildlife
Mackey	445	Mercer Slough	6/12/09	15:02	15:14	0:12	0	0	0	N		some 2" to 6" fish
Mackey	445	Mercer Slough	6/15/09	16:26	16:34	0:08	0	0	0	N		low flow
Nielsen	27	Richards Creek	4/27/09	13:25	13:30	0:05	0	0	0	N		2 mallards, slow water flow; sunny; water clear
Nielsen	27	Richards Creek	5/11/09	10:40	10:55	0:15	0	0	0	N		several small (2-3in) fish, no distinguishing markings, just darkish (greyish brown thinish)
Nielsen	117	Sturtevant Creek	4/27/09	12:00	12:30	0:30	0	0	0	N		clear water, some branches in stream
Nielsen	117	Sturtevant Creek	5/4/09	10:55	11:20	0:25	0	0	0	N		
Glidden	117	Sturtevant Creek	5/7/09	15:00	15:15	0:15	0	0	0	N		
Glidden	117	Sturtevant Creek	5/10/09	11:45	12:00	0:15	0	0	0	N		

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Surveyor Name	Site Number	Stream	Date	Start Time	End Time	Total Time	Number of Live Peamouth	Number of Dead Peamouth	Total Number of Peamouth	Eggs Present	Number of Citizens Present	Comments
Glidden	117	Sturtevant Creek	5/10/09	23:45	0:00	0:15	0	0	0	N		
Nielsen	117	Sturtevant Creek	5/17/09	11:00	11:15	0:15	0	0	0	N		more algae on bottom
Nielsen	117	Sturtevant Creek	6/4/09	16:30	16:45	0:15	0	0	0	N		very slow flow
Glidden	900	Sturtevant Creek	5/7/09	15:25	15:50	0:25	0	0	0	N		
Glidden	900	Sturtevant Creek	5/10/09	12:00	12:15	0:15	0	0	0	N		
2010 Peamouth Data												
Komorowski	439	Coal Creek	5/12/10	13:45	14:00	0:15	0	0	0	N		
Llewellyn	439	Coal Creek	5/13/10	4:45	4:50	0:05	0	0	0	N		sunny, clear water
Komorowski	439	Coal Creek	5/17/10	13:45	14:00	0:15	0	0	0	N	0	3 large scale suckers
Komorowski	439	Coal Creek	5/23/10	13:00	13:15	0:15	0	0	0	N	0	
Komorowski	439	Coal Creek	6/13/10	14:00	14:15	0:15	0	0	0	N	0	
Llewellyn	440	Coal Creek	5/6/10	4:08	4:15	0:07	0	0	0	N		sunny, water clear, belted kingfisher
Llewellyn	440	Coal Creek	5/13/10	4:55	5:00	0:05	0	0	0	N		sunny, clear water
Tribble	120	Kelsey Creek	6/13/10	9:00	9:05	0:05	0	0	0	N	3	clear water; some foam accumulation
McRoberts	124	Kelsey Creek	5/8/10	13:55	14:05	0:10	11-25	0	11-25	N		H2O clear same depth
Tribble	124	Kelsey Creek	5/14/10	11:00	11:05	0:05	0	0	0	N	0	multiple Jays alarmed by crow. Foam may be diminished.
Llewellyn	124	Kelsey Creek	5/25/10	5:50	6:00	0:10	0	0	0	N		sandy bottom
Ess	445	Kelsey Creek	4/20/10	12:00	12:15	0:15	0	0	0	N		
Llewellyn	13A	Kelsey Creek	4/14/10	1:50	2:08	0:18	0	0	0	N		sunny, clear water, 1 song bird, occasional whiff of sewage
Tribble	13A	Kelsey Creek	4/14/10	5:50	6:10	0:20	0	0	0	N		no wildlife; rain, clear weather, water clear
Ess	13A	Kelsey Creek	4/20/10	12:15	12:30	0:15	0	0	0	N		
Ess	13A	Kelsey Creek	4/28/10	9:15	9:30	0:15	0	0	0	Y		
Tokuda	13A	Kelsey Creek	4/30/10	14:30	14:45	0:15	0	0	0	Y	0	1 racoon, wood duck pair, brown foam
Ess	13A	Kelsey Creek	5/3/10	13:15	13:30	0:15	0	0	0	Y		2 mallards
Ess	13A	Kelsey Creek	5/4/10	10:00	10:15	0:15	0	0	0	Y		4 mallards
Tribble	13A	Kelsey Creek	5/5/10	6:15	6:25	0:10	0	0	0	N		water level 0.85 near gauge; 1.8 far gauge
Ess	13A	Kelsey Creek	5/5/10	12:00	12:15	0:15	0	0	0	Y		
Ess	13A	Kelsey Creek	5/6/10	10:45	11:00	0:15	0	0	0	Y	1	
Tokuda	13A	Kelsey Creek	5/6/10	14:10	14:25	0:15	0	0	0	N	0	5 wood ducks
Ess	13A	Kelsey Creek	5/6/10	15:00	15:15	0:15	0	0	0	?		
Ess	13A	Kelsey Creek	5/7/10	16:00	16:15	0:15	0	0	0	?		
Ess	13A	Kelsey Creek	5/7/10	19:00	19:15	0:15	0	0	0	N	1	
Tribble	13A	Kelsey Creek	5/7/10	NA	NA	0:15	0	0	0	N		water level 0.1/1.1
Ess	13A	Kelsey Creek	5/8/10	8:30	8:45	0:15	0	0	0	N	0	
Ess	13A	Kelsey Creek	5/8/10	15:00	15:15	0:15	100	0	100	Y	1	
Tribble	13A	Kelsey Creek	5/9/10	1:40	1:55	0:15	0	0	0	N		0.1/1.1, 8" fish on deeper (north) side of channel -squat bottom feeder looking
Llewellyn	13A	Kelsey Creek	5/9/10	11:40	12:10	0:30	100+	0	100+	Y		Blue Heron & River otter catch salmon
Ess	13A	Kelsey Creek	5/9/10	13:00	13:15	0:15	50	1	51	Y	1	
Ess	13A	Kelsey Creek	5/10/10	15:15	15:30	0:15	2	0	2	Y	0	May be suckers or other fish?
Ess	13A	Kelsey Creek	5/11/10	15:10	15:25	0:15	0	0	0	Y	0	
Tribble	13A	Kelsey Creek	5/12/10	6:05	NA	NA	0	0	0	N		0.1/1.0; slight overcast
Ess	13A	Kelsey Creek	5/12/10	15:00	15:15	0:15	0	0	0	?	0	
Ess	13A	Kelsey Creek	5/13/10	15:00	15:15	0:15	0	0	0	N	0	
Ess	13A	Kelsey Creek	5/16/10	14:30	14:45	0:15	12	0	12	N	0	
Ess	13A	Kelsey Creek	5/16/10	18:00	18:15	0:15	24	0	24	N	2	
Ess	13A	Kelsey Creek	5/17/10	13:15	13:30	0:15	6	0	6	N	0	
Ess	13A	Kelsey Creek	5/25/10	14:50	15:05	0:15	100	0	100	Y	0	Just before rain
Ess	13A	Kelsey Creek	5/26/10	22:45	23:00	0:15	24	0	24	Y	0	raining

Peamouth Spawning in Bellevue, 2005-2010

Surveyor Name	Site Number	Stream	Date	Start Time	End Time	Total Time	Number of Live Peamouth	Number of Dead Peamouth	Total Number of Peamouth	Eggs Present	Number of Citizens Present	Comments
Ess	13A	Kelsey Creek	6/1/10	17:30	17:45	0:15	0	0	0	Y	0	
Tokuda	13A	Kelsey Creek	6/23/10	15:05	15:20	0:15	0	0	0	N	0	750 (approx) filtered sun
Waters	13A/13B	Kelsey Creek	4/15/10	12:15	12:30	0:15	0	0	0	N		
Llewellyn	13A/13B	Kelsey Creek	4/17/10	4:15	4:25	0:10	0	0	0	N		cloudy sky, clear water, insects
Llewellyn	13A/13B	Kelsey Creek	4/19/10	3:38	3:50	0:12	0	0	0	N		overcast, clear water, River Otter
Waters	13A/13B	Kelsey Creek	4/19/10	11:45	12:00	0:15	0	0	0	N		
Waters	13A/13B	Kelsey Creek	4/21/10	4:45	5:00	0:15	0	0	0			water high 170
Llewellyn	13A/13B	Kelsey Creek	4/22/10	3:35	3:49	0:14	0	0	0	N		partly sunny, clear water, 2 pockets of foam bubbles, river otter, bird, bugs.
Waters	13A/13B	Kelsey Creek	4/23/10	1:45	2:00	0:15	0	0	0	N		water low 130, foam & soap
McRoberts	13A/13B	Kelsey Creek	4/27/10	10:55	11:10	0:15	0	0	0	N		cloudy/H2O clear
Llewellyn	13A/13B	Kelsey Creek	4/28/10	10:15	10:25	0:10	0	0	0	N		clear water, overcast, pair of mallard ducks, no fish/eggs
Llewellyn	13A/13B	Kelsey Creek	4/29/10	3:50	4:05	0:15	0	0	0	N		clear water, overcast, whiff of sewage, bird
McRoberts	13A/13B	Kelsey Creek	4/29/10	14:55	15:10	0:15	0	0	0	?		water dropped 2.5"
Mackey	13A/13B	Kelsey Creek	4/29/10	16:11	16:25	0:14	0	0	0	?	2	clear water
Waters	13A/13B	Kelsey Creek	5/1/10	5:05	5:20	0:15	0	0	0	Y		raccoon tracks under trestle
Llewellyn	13A/13B	Kelsey Creek	5/2/10	3:40	3:50	0:10	0	0	0	N		overcast, clear water, pair wood ducks
Mackey	13A/13B	Kelsey Creek	5/2/10	9:40	9:50	0:10	0	0	0	?		1 rabbit, 1 blue jay, 1 unident. Bird: brown wren?
McRoberts	13A/13B	Kelsey Creek	5/2/10	10:55	11:10	0:15	0	0	0	Y		H2O clear same depth
Waters	13A/13B	Kelsey Creek	5/3/10	10:40	11:00	0:20	0	0	0	Y	1	mallard (2) eating
Mackey	13A/13B	Kelsey Creek	5/4/10	11:00	11:10	0:10	0	0	0	?	1	3 ducks
Heath	13A/13B	Kelsey Creek	5/4/10	15:30	16:00	0:30	0	0	0	N		
Llewellyn	13A/13B	Kelsey Creek	5/6/10	3:40	3:50	0:10	0	0	0	N		sunny, clear water
Mackey	13A/13B	Kelsey Creek	5/6/10	10:30	10:40	0:10	0	0	0	N		3 ducks - 1 female with 10 ducklings
McRoberts	13A/13B	Kelsey Creek	5/6/10	11:55	12:10	0:15	0	0	0	?		H2O clear same depth
Heath	13A/13B	Kelsey Creek	5/6/10	15:15	15:30	0:15	0	0	0	Y	1	sunny & warm
Waters	13A/13B	Kelsey Creek	5/7/10	6:50	7:00	0:10	0	0	0	Y		
Mackey	13A/13B	Kelsey Creek	5/8/10	10:37	10:51	0:14	100+	0	100+	?		2 ducks
Waters	13A/13B	Kelsey Creek	5/8/10	12:15	12:45	0:30	100+	0	100+	Y		ducks - mallard/wood
McRoberts	13A/13B	Kelsey Creek	5/8/10	13:35	13:50	0:15	26-99	1	25-98	N		H2O clear same depth
Mackey	13A/13B	Kelsey Creek	5/8/10	17:15	17:34	0:19	26-99	0	26-99	?		low to medium flow; woodpecker
Waters	13A/13B	Kelsey Creek	5/10/10	4:30	4:45	0:15	0	0	0	Y		mallard
Llewellyn	13A/13B	Kelsey Creek	5/10/10	4:55	5:05	0:10	0	0	0	N?		overcast, water clear, no discernable eggs
Llewellyn	13A/13B	Kelsey Creek	5/13/10	5:20	5:35	0:15	0	0	0	N		sunny, clear water
Mackey	13A/13B	Kelsey Creek	5/13/10	13:55	14:07	0:12	0	0	0	?		no wildlife
Waters	13A/13B	Kelsey Creek	5/15/10	1:30	1:45	0:15	0	0	0	Y		robin, sparrow - water low
Llewellyn	13A/13B	Kelsey Creek	5/16/10	5:15	5:30	0:15	26-99	0	26-99	N		cloudy, 2 groups of fish
Mackey	13A/13B	Kelsey Creek	5/16/10	11:32	11:45	0:13	100+	0	100+	?		
McRoberts	13A/13B	Kelsey Creek	5/16/10	14:35	15:00	0:25	26-99	0	26-99	?		water clear 2" lower
Waters	13A/13B	Kelsey Creek	5/17/10	4:00	NA	NA	0	0	0	Y		eggs at small culvert
Llewellyn	13A/13B	Kelsey Creek	5/17/10	4:10	4:20	0:10	0	0	0	N		sunny, water clear
McRoberts	13A/13B	Kelsey Creek	5/17/10	13:30	13:40	0:10	2	0	2	N		water clear same depth
Llewellyn	13A/13B	Kelsey Creek	5/20/10	4:50	5:00	0:10	0	0	0	N		sunny, water clear
Mackey	13A/13B	Kelsey Creek	5/20/10	19:30	19:35	0:05	0	0	0	?		no wildlife
McRoberts	13A/13B	Kelsey Creek	5/21/10	14:00	14:15	0:15	0	0	0	N		water clear up 2", saw a large otter-swam from the trestle to the culvert & back
Mackey	13A/13B	Kelsey Creek	5/23/10	18:53	19:04	0:11	0	0	0	N		medium to high flow
Ostergaard	13A/13B	Kelsey Creek	5/26/10	9:45	10:30	0:45	75	1	76	Y	0	
Mackey	13A/13B	Kelsey Creek	5/26/10	16:08	16:22	0:14	11-25	0	11-25	?		high flow

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Surveyor Name	Site Number	Stream	Date	Start Time	End Time	Total Time	Number of Live Peamouth	Number of Dead Peamouth	Total Number of Peamouth	Eggs Present	Number of Citizens Present	Comments
Mackey	13A/13B	Kelsey Creek	5/26/10	16:45	16:52	0:07	26-99	0	26-99	?		no wildlife
Mackey	13A/13B	Kelsey Creek	5/27/10	12:14	12:24	0:10	0	0	0	?		no wildlife
Waters	13A/13B	Kelsey Creek	5/29/10	10:45	11:00	0:15	0	0	0	Y		stream high 170, crayfish below trestle
Waters	13A/13B	Kelsey Creek	6/1/10	12:00	12:15	0:15	0	0	0	N	1	
Mackey	13A/13B	Kelsey Creek	6/1/10	12:20	12:32	0:12	0	0	0	N		low to medium flow
Mackey	13A/13B	Kelsey Creek	6/3/10	18:05	18:13	0:08	0	0	0	N		woodpecker
Mackey	13A/13B	Kelsey Creek	6/7/10	18:15	18:40	0:25	26-99	0	26-99	?		low-medium slow
Waters	13A/13B	Kelsey Creek	6/8/10	6:30	6:45	0:15	15	0	15	Y		blue heron
Mackey	13A/13B	Kelsey Creek	6/9/10	18:14	18:25	0:11	0	0	0	?		high flow
Mackey	13A/13B	Kelsey Creek	6/10/10	17:15	17:27	0:12	0	0	0	N		blue heron
Waters	13A/13B	Kelsey Creek	6/11/10	1:30	1:45	0:15	0	0	0	N		water high @ 180
Mackey	13A/13B	Kelsey Creek	6/13/10	17:40	17:49	0:09	0	0	0	N		low flow
Mackey	13A/13B	Kelsey Creek	6/17/10	16:35	16:40	0:05	0	0	0	N		no wildlife
Mackey	13A/13B	Kelsey Creek	6/19/10	18:48	18:57	0:09	0	0	0	N		low flow
Mackey	13A/13B	Kelsey Creek	6/23/10	16:20	16:28	0:08	0	0	0	N		no wildlife
Mackey	13A/13B	Kelsey Creek	6/26/10	20:35	20:42	0:07	0	0	0	N		3 rabbits
Mackey	13A/13B	Kelsey Creek	6/27/10	17:20	17:27	0:07	0	0	0	N		no wildlife
Mackey	13A/13B	Kelsey Creek	6/29/10	17:35	17:41	0:06	0	0	0	N		low flow
Mackey	13A/13B	Kelsey Creek	7/3/10	16:02	16:16	0:14	0	0	0	N		1 woodpecker
Llewellyn	13B	Kelsey Creek	4/14/10	1:40	1:45	0:05	0	0	0	N		sunny, water clear, few flying insects (no birds, other)
Tribble	13B	Kelsey Creek	4/15/10	5:20	5:35	0:15	0	0	0	N		Sudsy water; clear weather
Heath	13B	Kelsey Creek	4/15/10	19:40	19:55	0:15	0	0	0	N	1	beautiful spring evening
Heath	13B	Kelsey Creek	4/23/10	14:40	14:55	0:15	0	0	0	N		overcast but dry
Glidden	13B	Kelsey Creek	4/27/10	6:05	6:20	0:15	11	0	11	?	1	heron, 1 sucker present
Waters	13B	Kelsey Creek	4/27/10	6:45	7:40	0:55	12	0	12	Y		
Waters	13B	Kelsey Creek	4/28/10	9:15	9:45	0:30	0	0	0	Y		
Heath	13B	Kelsey Creek	4/28/10	13:50	14:05	0:15	0	0	0	Y		2 large herons
Heath	13B	Kelsey Creek	4/29/10	15:45	16:00	0:15	0	0	0	N	1	
Tribble	13B	Kelsey Creek	5/5/10	6:30	6:35	0:05	0	0	0	N		
Heath	13B	Kelsey Creek	5/7/10	13:45	14:00	0:15	0	0	0	N		duck spotted
Glidden	13B	Kelsey Creek	5/8/10	1:45	2:25	0:40	200	0	200	N	3	bald eagle
Llewellyn	13B	Kelsey Creek	5/8/10	4:30	4:47	0:17	100+	0	100+	Y		sunny, clear water
Tribble	13B	Kelsey Creek	5/9/10	2:00	2:30	0:30	26-99	0	26-99	?		heron landed toward trestle & left; salmonberries ripening
Glidden	13B	Kelsey Creek	5/12/10	2:00	2:15	0:15	0	0	0	N		
Tribble	13B	Kelsey Creek	5/12/10	NA	6:20	NA	0	0	0	N		tea colored water
Tribble	13B	Kelsey Creek	5/13/10	5:50	6:05	0:15	0	0	0	N	0	mallard pair deeping near snag and on snag; 1 & 3 foot accumulation/foam
Glidden	13B	Kelsey Creek	5/14/10	1:40	1:55	0:15	0	0	0	N		Duck (mallard)
Tribble	13B	Kelsey Creek	5/14/10	10:20	10:35	0:15	0	0	0	N	0	sunny; tea colored water
Heath	13B	Kelsey Creek	5/15/10	10:40	10:55	0:15	0	0	0	N		beautiful sunny day
Heath	13B	Kelsey Creek	5/15/10	15:40	15:55	0:15	0	0	0	N		beautiful sunny day
Heath	13B	Kelsey Creek	5/16/10	19:15	19:30	0:15	30-40	0	30-40	N		came down after alert at noon
Tribble	13B	Kelsey Creek	5/17/10	8:15	8:30	0:15	0	0	0	N	0	Geese, several species of small birds chorus
Llewellyn	13B	Kelsey Creek	5/22/10	12:45	12:55	0:10	0	0	0	N		sediment in water after downpour
Llewellyn	13B	Kelsey Creek	5/25/10	5:30	5:45	0:15	100+	0	100+	N		cloudy, clear water
Llewellyn	13B	Kelsey Creek	5/27/10	4:30	4:40	0:10	0	0	0	N		overcast, water clear
Tribble	13B	Kelsey Creek	6/3/10	5:35	5:45	0:10	0	0	0	N	0	clear water; perhaps higher than normal
Ostergaard	13B	Kelsey Creek	6/8/10	8:30	9:00	0:30	0	1	1	Y	0	bald eagle

Peamouth Spawning in Bellevue, 2005-2010

Surveyor Name	Site Number	Stream	Date	Start Time	End Time	Total Time	Number of Live Peamouth	Number of Dead Peamouth	Total Number of Peamouth	Eggs Present	Number of Citizens Present	Comments
Tribble	116	Kelsey West Trib	6/13/10	8:50	8:55	0:05	0	0	0	N	4	cloudy water
Llewellyn	445	Mercer Slough	4/14/10	1:15	1:28	0:13	0	0	0	N		sunny, water brackish, few waterbugs flying insects (no birds etc.)
Komorowski	445	Mercer Slough	4/15/10	13:10	13:25	0:15	0	0	0	N	0	
Heath	445	Mercer Slough	4/15/10	19:20	19:35	0:15	0	0	0	N	1	beautiful spring evening
Ess	445	Mercer Slough	4/16/10	17:30	17:45	0:15	0	0	0	N		
Komorowski	445	Mercer Slough	4/21/10	12:50	13:10	0:20	0	0	0	N		
Llewellyn	445	Mercer Slough	4/22/10	4:00	4:05	0:05	0	0	0	N		sunny, slight brackish water, some foam bubbles. Insects.
Heath	445	Mercer Slough	4/23/10	14:25	14:40	0:15	0	0	0	N		overcast but dry
Heath	445	Mercer Slough	4/29/10	15:30	15:45	0:15	0	0	0	N	1	very sunny.
Mackey	445	Mercer Slough	4/29/10	15:50	16:03	0:13	0	0	0	N	1	Low to medium flow
Mackey	445	Mercer Slough	5/2/10	9:15	9:24	0:09	0	0	0	N		1 river otter, 2 unid birds: merganser?
Komorowski	445	Mercer Slough	5/3/10	13:30	13:40	0:10	0	0	0	N		
Mackey	445	Mercer Slough	5/4/10	10:30	10:38	0:08	0	0	0	N		1 river otter, 4 geese
Tribble	445	Mercer Slough	5/5/10	6:00	6:10	0:10	0	0	0	N		clear sky; recent rain
Llewellyn	445	Mercer Slough	5/6/10	3:55	4:00	0:05	0	0	0	N		sunny, water brackish
Tribble	445	Mercer Slough	5/6/10	5:15	5:30	0:15	0	0	0	N		
Mackey	445	Mercer Slough	5/6/10	10:50	10:58	0:08	0	0	0	N		no wildlife
Komorowski	445	Mercer Slough	5/6/10	13:30	13:45	0:15	0	0	0	N		
Heath	445	Mercer Slough	5/6/10	14:50	15:05	0:15	0	0	0	N		sunny & warm
Heath	445	Mercer Slough	5/7/10	14:45	15:00	0:15	0	0	0	N		beautiful sunny day
Mackey	445	Mercer Slough	5/8/10	10:05	10:29	0:24	26-99	0	26-99	N		low to medium flow
Komorowski	445	Mercer Slough	5/8/10	13:20	13:45	0:25	26-99	0	26-99	N	1	run, many peamouth
Llewellyn	445	Mercer Slough	5/13/10	5:10	5:15	0:05	0	0	0	N		sunny, brackish water
Mackey	445	Mercer Slough	5/13/10	14:24	14:34	0:10	0	0	0	N		no wildlife
Komorowski	445	Mercer Slough	5/14/10	13:00	13:15	0:15	0	0	0	N	0	spotted 6" resident fish
Llewellyn	445	Mercer Slough	5/16/10	5:00	5:08	0:08	0	0	0	N		cloudy
Mackey	445	Mercer Slough	5/16/10	10:47	11:02	0:15	1-10	0	1-10	N		low flow
Mackey	445	Mercer Slough	5/16/10	11:57	12:03	0:06	26-99	0	26-99	N		blue heron
Komorowski	445	Mercer Slough	5/16/10	13:30	13:45	0:15	11	0	11	N	0	
Tribble	445	Mercer Slough	5/17/10	7:55	8:10	0:15	0	0	0	N	0	slightly overcast
Komorowski	445	Mercer Slough	5/20/10	13:30	13:45	0:15	0	0	0	N	0	blue heron
Mackey	445	Mercer Slough	5/20/10	19:44	19:51	0:07	0	0	0	N		low flow
Mackey	445	Mercer Slough	5/23/10	19:16	19:24	0:08	0	0	0	N		medium to high flow
Komorowski	445	Mercer Slough	5/24/10	13:30	13:45	0:15	0	0	0	N	0	
Komorowski	445	Mercer Slough	5/25/10	13:45	14:00	0:15	28	0	28	N	0	
Mackey	445	Mercer Slough	5/26/10	17:00	17:08	0:08	?	0	?	N		difficult viewing, high flow
Komorowski	445	Mercer Slough	5/27/10	13:00	13:15	0:15	0	0	0	N	0	
Komorowski	445	Mercer Slough	6/1/10	12:55	13:10	0:15	0	0	0	N	1	
Mackey	445	Mercer Slough	6/1/10	13:15	13:24	0:09	0	0	0	N		no wildlife
Mackey	445	Mercer Slough	6/3/10	17:42	17:50	0:08	0	0	0	N		low to medium flow
Komorowski	445	Mercer Slough	6/5/10	13:00	13:15	0:15	0	0	0	N	0	
Komorowski	445	Mercer Slough	6/7/10	13:45	14:00	0:15	0	0	0	N	0	
Mackey	445	Mercer Slough	6/7/10	18:00	18:10	0:10	0	0	0	N		no wildlife
Mackey	445	Mercer Slough	6/9/10	17:53	18:03	0:10	0	0	0	N		medium to high flow
Komorowski	445	Mercer Slough	6/10/10	13:30	13:45	0:15	0	0	0	N	0	
Mackey	445	Mercer Slough	6/10/10	17:47	17:55	0:08	0	0	0	N		
Komorowski	445	Mercer Slough	6/12/10	13:30	13:45	0:15	0	0	0	N	0	
Mackey	445	Mercer Slough	6/13/10	18:08	18:08	0:00	0	0	0	N		low flow
Komorowski	445	Mercer Slough	6/14/10	12:45	13:00	0:15	0	0	0	N	0	

Peamouth Spawning in Bellevue, 2005-2010

Surveyor Name	Site Number	Stream	Date	Start Time	End Time	Total Time	Number of Live Peamouth	Number of Dead Peamouth	Total Number of Peamouth	Eggs Present	Number of Citizens Present	Comments
Mackey	445	Mercer Slough	6/17/10	17:02	17:07	0:05	0	0	0	N		
Komorowski	445	Mercer Slough	6/18/10	13:00	13:15	0:15	0	0	0	N	0	3 unid. fish, 2-8", 1-3"
Mackey	445	Mercer Slough	6/19/10	18:28	18:37	0:09	0	0	0	N		
Komorowski	445	Mercer Slough	6/21/10	13:00	13:15	0:15	0	0	0	N	0	
Mackey	445	Mercer Slough	6/23/10	16:34	16:41	0:07	0	0	0	N		
Komorowski	445	Mercer Slough	6/24/10	13:30	13:45	0:15	0	0	0	N	0	
Mackey	445	Mercer Slough	6/26/10	21:13	21:18	0:05	0	0	0	N		low flow
Mackey	445	Mercer Slough	7/3/10	15:47	15:54	0:07	0	0	0	N		
Ess	117	Sturtevant Creek	4/16/10	17:45	18:00	0:15	0	0	0	N		
Ess	117	Sturtevant Creek	4/20/10	11:45	12:00	0:15	0	0	0	N		canadian geese
Ess	900	Sturtevant Creek	4/16/10	17:15	17:30	0:15	0	0	0	N	1	
Ess	900	Sturtevant Creek	4/20/10	11:30	11:45	0:15	0	0	0	N	1	

Notes:

N/R: Not recorded, N: No, Y: Yes

Time is recorded in 24 hour format.

Staff:

Devereaux= Laurie Devereaux

Gratt= Karen Gratt

Ostergaard= Elissa Ostergaard

Paulsen= Kit Paulsen