



## Boise Parks & Recreation 2016 Monarch Report

**M**onarch butterfly populations are in decline nationwide and Boise Parks & Recreation (BPR) has stepped up to take action, with the launch of Parks, Monarchs, and Milkweeds. Parks, Monarchs, and Milkweeds is a citizen science program aimed at protecting and enhancing monarch habitat, as well as monitoring monarch breeding activity and milkweed health in Boise parks.

To prepare for the launch of Parks, Monarchs, and Milkweeds, BPR staff and volunteers spent much of 2015 identifying and mapping milkweed patches, as well as developing support material for the program. There are six species of milkweed native to Idaho, however, showy milkweed is the only species that has been found in Boise parks. That aside, we were pleasantly surprised by the amount of milkweed found in Boise parks and see room for future habitat enhancement and development. As such, BPR is working with several volunteer groups to seed and plant milkweed at numerous locations through the fall of 2016.



*Showy Milkweed in  
Ann Morrison Park*

The launch of the citizen science component of Parks, Monarchs, and Milkweeds began ominously with a report of an unusual ice storm in the monarch's overwintering range in central Mexico, just as the spring migration was set to begin. This occurred after conservationists cheered a surge in monarch populations, with reports of the population having tripled over the previous year. Although exact losses are not known and initial reports were dire, only time will tell the impact the storm had.

Nonetheless, BPR kicked off its program on May 21, 2016, with optimism and a crew of energetic volunteers. We began the effort with a training course that instructed volunteers on what to look for and how to identify the different development stages of both the monarch butterfly and milkweed plant. Volunteers were also provided the opportunity to select which milkweed stands they wanted to keep tabs on, with available locations in Kathryn Albertson Park, Ann Morrison Park, and along the Bethine Church River Trail. Volunteers were in the field from May through September and visited their adopted milkweed sites regularly, committing over 120 hours and submitting over 250 data reports. All of which have been compiled for inclusion in a national database, managed by the Xerces Society. The collected information will help scientists determine the migration pattern of monarchs west of the Rockies, as well as study breeding activity.

Overall, June proved to be the busiest month for monarch activity. Volunteers counted numerous eggs as well as larvae, with most adult sightings occurring in late June. There was little to no larvae activity in either July and August, at any of the monitored sites. August and September also showed no reports of adult sightings. Kathryn Albertson Park provided the highest number of eggs, larvae, and adults. The



*Male monarch nectaring on milkweed plant in Ann Morrison Park.*

larvae were seen at multiple sites within Kathryn Albertson Park throughout June and July. Ann Morrison Park was busy with eggs and adults, but no larvae were seen this season. The Bethine Church River Trail has milkweed scattered throughout the path, however, there was little monarch activity reported. The little bit of activity that was seen on Bethine Church was from mid-June through mid-July.

#### **Kathryn Albertson Park**

Kathryn Albertson volunteers found 134 eggs, 8 larvae and saw 6 adult monarchs during the season. Of the 134 eggs observed, 73 of those eggs were seen in June. The ratio of eggs to larvae demonstrates the difficulties

larvae were having, maturing into pupae. Some speculate that predators of the larvae such as spiders, ants, and beetles, could be a factor. The adults were seen in flight or nectaring in the late morning to early afternoon when the temperature ranged from 75-85° F.

#### **Ann Morrison Park**

Those monitoring in Ann Morrison reported 59 eggs, 0 larvae and 11 adult monarchs. Almost all of the eggs observed, 47 of 59, were seen in June, along with 10 out of the 11 adult monarchs. This large milkweed patch in Ann Morrison is on east facing slope with a lot of sun, resulting in early milkweed growth compared to the other sites. The early growth and the high numbers of eggs and adults in June, leads one to surmise that this site may be one of the first places monarchs migrate to and start breeding activity in Boise. However, monarch migration paths and timelines in Idaho are largely unknown. It will be only through continued monitoring, that we'll be able to definitively draw this conclusion.

#### **Bethine Church River Trail**

The Bethine Church River Trail saw 11 eggs, 6 larvae and 1 adult monarch. The scattered milkweed along the trail range from full sun to partial shade, and from individual plants to large patches. The monarch activity reported occurred throughout June but dwindled from mid-July to the end of the season. As we continue to monitor the trail, we hope to see more substantial monarch activity.

Boise Parks & Recreation is committed to the conservation and preservation of the monarch butterfly and its habitat. Thanks to all our dedicated volunteers for your hard work making the initial season of Parks, Monarchs, and Milkweeds a success. Through the coming years, we hope to see both the program and monarch population grow in Boise!



## Boise Parks & Recreation 2016 Monarch Observation Data

LOCATION	LATITUDE	LONGITUDE	OBSERVER	DATE	TIME (MILITARY)	TEMPERATURE	PRECIPITATION	FEMALE MONARCHS	MALE MONARCHS	TOTAL MONARCHS	MONARCH BEHAVIOR	EGGS	LARVAE	PUPAE	COMMENTS
Ann Morrison Park #1	43.613786	-116.220404	Johnson, M.	6/10/2016	1330	90	none	0	0	0	None Present	0	0	0	
Ann Morrison Park #1	43.613786	-116.220404	Johnson, M.	6/24/2016	1955	68	none	0	0	0	None Present	0	0	0	
Ann Morrison Park #1	43.613786	-116.220404	Johnson, M.	6/30/2016	900	74	none	0	0	0	None Present	0	0	0	
Ann Morrison Park #1	43.613786	-116.220404	Johnson, M.	7/8/2016	938	66	none	0	0	0	None Present	0	0	0	
Ann Morrison Park #2	43.614526	-116.222991	Brueck, A.	5/21/2016	1115	65	none	0	0	0	None Present	0	0	0	No monarch activity.
Ann Morrison Park #2	43.614526	-116.222991	Brueck, A.	5/27/2016	1200	68	none	0	0	0	None Present	0	0	0	
Ann Morrison Park #2	43.614526	-116.222991	Brueck, A.	6/3/2016	1240	80	none	0	0	0	None Present	0	0	0	
Ann Morrison Park #2	43.614526	-116.222991	Brueck, A.	6/10/2016	1530	84	none	0	0	1	Flying (Foraging)	4	0	0	1 adult Monarch returned 4 times, seemed to be observing Milkweed carefully but only landed on a flower very briefly. Sex unknown.
Ann Morrison Park #2	43.614526	-116.222991	Brueck, A.	6/17/2016	1300	82	none	4	0	4	Nectaring	11	0	0	Almost all eggs on different plants than last week except for 1 plant. Saw possibly 4 female adults but at least 2 (I saw 2 at the same time). Others could be the same ones revisiting.
Ann Morrison Park #2	43.614526	-116.222991	Brueck, A.	6/24/2016	1245	77	none	3	0	3	Loafing/Perched, Nectaring	2	0	0	11 eggs last week, noticeably fewer this week.
Ann Morrison Park #2	43.614526	-116.222991	Brueck, A.	7/1/2016	1200	94	none	0	0	0	None Present	4	0	0	Saw no adults this time.
Ann Morrison Park #2	43.614526	-116.222991	Brueck, A.	7/8/2016	1230	87	none	0	1	1	Nectaring	0	0	0	
Ann Morrison Park #2	43.614526	-116.222991	Brueck, A.	7/15/2016	1115	81	none	0	0	0	None Present	2	0	0	1 egg found in shade and 1 egg in sun. Found part of an empty eggshell.
Ann Morrison Park #2	43.614526	-116.222991	Brueck, A.	7/22/2016	1105	85	none	0	0	0	None Present	4	0	0	All 4 eggs found in shade on young plants.
Ann Morrison Park #2	43.614526	-116.222991	Brueck, A.	8/1/2016	1200	87	none	0	0	0	None Present	0	0	0	No sign of old eggs.
Ann Morrison Park #2	43.614526	-116.222991	Brueck, A.	8/8/2016	1315	83	none	0	0	0	None Present	2	0	0	Found 1 empty egg without any holes from predation -- maybe heat or desiccation? Eggs were on plants that are healthy and one was in the shade.
Ann Morrison Park #2	43.614526	-116.222991	Brueck, A.	8/17/2016	1015	86	none	0	0	0	None Present	0	0	0	
Ann Morrison Park #3	43.614222	-116.223434	Johnson, M.	6/10/2016	1300	90	none	1	0	1	Flying (Foraging)	0	0	0	Not sure on gender of monarch seen.
Ann Morrison Park #3	43.614222	-116.223434	Johnson, M.	6/24/2016	1945	70	none	0	0	0	None Present		0	0	
Ann Morrison Park #3	43.614222	-116.223434	Johnson, M.	6/30/2016	830	74	none	1	0	1	Flying (Foraging)	30	0	0	
Ann Morrison Park #3	43.614222	-116.223434	Johnson, M.	7/8/2016	920	66	none	0	0	0	None Present		0	0	Eggs present - no number recorded.
Bethine Church River Trail #1	43.580252	-116.156944	Kaszczyszyn, E.	6/8/2016	2029	86	none	0	0	0	None Present	0	1	0	
Bethine Church River Trail #1	43.580252	-116.156944	Kaszczyszyn, E.	6/15/2016	1811		light	0	0	0	None Present	1	0	0	
Bethine Church River Trail #1	43.580252	-116.156944	Kaszczyszyn, E.	6/22/2016	1851	92	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #1	43.580252	-116.156944	Kaszczyszyn, E.	6/29/2016	1155	90	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #1	43.508396	-116.157117	Kaszczyszyn, E.	7/12/2016	1415	80	none	0	0	0	None Present	0	0	0	



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Bethine Church River Trail #1	43.580252	-116.156944	Kaszczyszyn, E.	7/12/2016	1415	80	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #1	43.580252	-116.156944	Kaszczyszyn, E.	7/21/2016	1026	80	none	0	0	0	None Present	3	0	0	
Bethine Church River Trail #1	43.580252	-116.156944	Kaszczyszyn, E.	8/3/2016	1003	68	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #1	43.580252	-116.156944	Kaszczyszyn, E.	8/10/2016	1353	73	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #2	43.580396	-116.157117	Kaszczyszyn, E.	6/8/2016	2023	88	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #2	43.580396	-116.157117	Kaszczyszyn, E.	6/15/2016	1819		light	0	0	0	None Present	0	0	0	
Bethine Church River Trail #2	43.580396	-116.157117	Kaszczyszyn, E.	6/22/2016	1858	92	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #2	43.580396	-116.157117	Kaszczyszyn, E.	6/29/2016	1151	90	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #2	43.580396	-116.157117	Kaszczyszyn, E.	7/21/2016	1021	80	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #2	43.580396	-116.157117	Kaszczyszyn, E.	8/3/2016	1008	68	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #2	43.580396	-116.157117	Kaszczyszyn, E.	8/10/2016	1356	73	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #3	43.580510	-116.157588	Kaszczyszyn, E.	6/8/2016	2009	88	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #3	43.580510	-116.157588	Kaszczyszyn, E.	6/15/2016	1826		light	0	0	0	None Present	0	0	0	
Bethine Church River Trail #3	43.580510	-116.157588	Kaszczyszyn, E.	6/22/2016	1905	91	none	0	0	0	None Present	1	0	0	
Bethine Church River Trail #3	43.580510	-116.157588	Kaszczyszyn, E.	6/29/2016	1147	90	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #3	43.580510	-116.157588	Kaszczyszyn, E.	7/12/2016	1408	80	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #3	43.580510	-116.157588	Kaszczyszyn, E.	7/21/2016	1018	80	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #3	43.580510	-116.157588	Kaszczyszyn, E.	8/3/2016	1012	68	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #3	43.580510	-116.157588	Kaszczyszyn, E.	8/10/2016	1359	73	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #4	43.580659	-116.157901	Kaszczyszyn, E.	6/8/2016	1958	92	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #4	43.580659	-116.157901	Kaszczyszyn, E.	6/18/2016	1836		moderate	0	0	0	None Present	0	0	0	
Bethine Church River Trail #4	43.580659	-116.157901	Kaszczyszyn, E.	6/22/2016	1915	91	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #4	43.580659	-116.157901	Kaszczyszyn, E.	6/29/2016	1142	90	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #4	43.580659	-116.157901	Kaszczyszyn, E.	7/12/2016	1404	80	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #4	43.580659	-116.157901	Kaszczyszyn, E.	7/21/2016	1015	80	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #4	43.580659	-116.157901	Kaszczyszyn, E.	8/3/2016	1016	68	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #4	43.580659	-116.157901	Kaszczyszyn, E.	8/10/2016	1404	73	none	0	0	0	None Present	0	0	0	



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Bethine Church River Trail #4.5	43.580749	-116.158216	Kaszczyszyn, E.	6/8/2016	1946	92	none	0	0	0	None Present	1	0	0	
Bethine Church River Trail #4.5	43.580749	-116.158216	Kaszczyszyn, E.	6/18/2016	1845		moderate	0	0	0	None Present	4	0	0	
Bethine Church River Trail #4.5	43.580749	-116.158216	Kaszczyszyn, E.	6/22/2016	1926	91	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #4.5	43.580749	-116.158216	Kaszczyszyn, E.	6/29/2016	1136	90	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #4.5	43.580749	-116.158216	Kaszczyszyn, E.	7/12/2016	1400	80	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #4.5	43.580749	-116.158216	Kaszczyszyn, E.	7/21/2016	1010	80	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #4.5	43.580749	-116.158216	Kaszczyszyn, E.	8/3/2016	1021	68	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #4.5	43.580749	-116.158216	Kaszczyszyn, E.	8/10/2016	1407	73	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #10	43.584996	-116.160641	Thomson, A.	6/8/2016	2030	83	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #10	43.584996	-116.160641	Thomson, A.	6/20/2016	1530	88	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #10	43.584996	-116.160641	Thomson, A.	6/26/2016	1330	84	none	0	0	0	None Present	0	1	0	1st instar larvae.
Bethine Church River Trail #10	43.584996	-116.160641	Thomson, A.	7/3/2016	1230	82		0	0	0	None Present	0	0	0	
Bethine Church River Trail #10	43.584996	-116.160641	Thomson, A.	7/11/2016	1340	72	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #10	43.584996	-116.160641	Thomson, A.	7/19/2016	1250	82		0	0	0	None Present	0	0	0	
Bethine Church River Trail #10	43.584996	-116.160641	Thomson, A.	7/27/2016	1015	80	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #10	43.584996	-116.160641	Thomson, A.	8/3/2016	1040	75		0	0	0	None Present	0	0	0	
Bethine Church River Trail #10	43.584996	-116.160641	Thomson, A.	8/12/2016	1500	86		0	0	0	None Present	0	0	0	
Bethine Church River Trail #10	43.584996	-116.160641	Thomson, A.	8/20/2016	1315	78		0	0	0	None Present	0	0	0	
Bethine Church River Trail #10	43.584996	-116.160641	Thomson, A.	9/4/2016	1300	75	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #12	43.587612	-116.162536	Thomson, A.	6/11/2016	1115	82		0	0	0	None Present	0	1	0	1st instar
Bethine Church River Trail #12	43.587612	-116.162536	Kirkpatrick, G.	6/12/2016	1110	68	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #12	43.587612	-116.162536	Kirkpatrick, G.	6/20/2016	1015	86	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #12	43.587612	-116.162536	Thomson, A.	6/20/2016	1510	88	none	0	0	0	None Present	0	1	0	2nd instar
Bethine Church River Trail #12	43.587612	-116.162536	Thomson, A.	6/26/2016	1400	84	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #12	43.587612	-116.162536	Kirkpatrick, G.	6/27/2016	855	86	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #12	43.587612	-116.162536	Thomson, A.	7/3/2016	1200	80	none	0	0	0	None Present	1	1	0	1 egg? 2nd instar larvae.
Bethine Church River Trail #12	43.587612	-116.162536	Kirkpatrick, G.	7/4/2016	1015	82		0	0	0	None Present	0	0	0	
Bethine Church River Trail #12	43.587612	-116.162536	Kirkpatrick, G.	7/10/2016	1408	68		0	0	0	None Present	0	0	0	



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Bethine Church River Trail #12	43.687612	-116.162536	Thomson, A.	7/11/2016	1320	72	none	1	0	1	Nectaring, Flying (Foraging)	0	1	0	1st instar larvae. Adult monarch gender unknown.
Bethine Church River Trail #12	43.587612	-116.162536	Kirkpatrick, G.	7/15/2016	2005	84		0	0	0	None Present	0	0	0	
Bethine Church River Trail #12	43.587612	-116.162536	Thomson, A.	7/19/2016	1235	82		0	0	0	None Present	0	0	0	
Bethine Church River Trail #12	43.587612	-116.162536	Kirkpatrick, G.	7/25/2016	1952	88		0	0	0	None Present	0	0	0	
Bethine Church River Trail #12	43.587612	-116.162536	Thomson, A.	7/27/2016	945	80		0	0	0	None Present	0	0	0	
Bethine Church River Trail #12	43.587612	-116.162536	Kirkpatrick, G.	8/1/2016	925	79		0	0	0	None Present	0	0	0	
Bethine Church River Trail #12	43.587612	-116.162536	Thomson, A.	8/3/2016	1000	74		0	0	0	None Present	0	0	0	
Bethine Church River Trail #12	43.587612	-116.162536	Kirkpatrick, G.	8/8/2016	1015	76		0	0	0	None Present	0	0	0	
Bethine Church River Trail #12	43.587612	-116.162536	Thomson, A.	8/12/2016	1442	84	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #12	43.587612	-116.162536	Kirkpatrick, G.	8/15/2016	930	82		0	0	0	None Present	0	0	0	
Bethine Church River Trail #12	43.587612	-116.162536	Thomson, A.	8/20/2016	1300	78		0	0	0	None Present	0	0	0	
Bethine Church River Trail #12	43.587612	-116.162536	Kirkpatrick, G.	8/23/2016	900	74	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #12	43.587612	-116.162536	Kirkpatrick, G.	8/30/2016	922	72	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #12	43.587612	-116.162536	Thomson, A.	9/4/2016	1235	75		0	0	0	None Present	0	0	0	
Bethine Church River Trail #12	43.587612	-116.162536	Kirkpatrick, G.	9/5/2016	1051	74	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #12.5	43.588092	-116.162923	Kirkpatrick, G.	6/12/2016	1056	66	none	0	0	0	Non Present	0	0	0	
Bethine Church River Trail #12.5	43.588092	-116.162923	Kirkpatrick, G.	6/20/2016	1000	82	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #12.5	43.588092	-116.162923	Kirkpatrick, G.	6/27/2016	845	84	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #12.5	43.588092	-116.162923	Kirkpatrick, G.	7/4/2016	1005	80		0	0	0	None Present	0	0	0	
Bethine Church River Trail #12.5	43.588092	-116.162923	Kirkpatrick, G.	7/10/2016	1400	68		0	0	0	None Present	0	0	0	
Bethine Church River Trail #12.5	43.588092	-116.162923	Kirkpatrick, G.	7/15/2016	1955	84		0	0	0	None Present	0	0	0	
Bethine Church River Trail #12.5	43.588092	-116.162923	Kirkpatrick, G.	8/1/2016	908	76		0	0	0	None Present	0	0	0	
Bethine Church River Trail #12.5	43.588092	-116.162923	Kirkpatrick, G.	8/8/2016	1002	78		0	0	0	None Present	0	0	0	
Bethine Church River Trail #12.5	43.588092	-116.162923	Kirkpatrick, G.	8/15/2016	922	74	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #12.5	43.588092	-116.162923	Kirkpatrick, G.	8/23/2016	847	68	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #12.5	43.588092	-116.162923	Kirkpatrick, G.	8/30/2016	915	78	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #12.5	43.588092	-116.162923	Kirkpatrick, G.	9/5/2016	1046	71	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #13	43.588555	-116.163492	Kirkpatrick, G.	6/12/2016	1050	64	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #13	43.588555	-116.163492	Kirkpatrick, G.	6/20/2016	955	82	none	0	0	0	None Present	0	0	0	



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Bethine Church River Trail #13	43.588555	-116.163492	Kirkpatrick, G.	6/27/2016	835	82	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #13	43.588555	-116.163492	Kirkpatrick, G.	7/4/2016	955	78		0	0	0	None Present	0	0	0	
Bethine Church River Trail #13	43.588555	-116.163492	Kirkpatrick, G.	7/10/2016	1345	69		0	0	0	None Present	0	0	0	
Bethine Church River Trail #13	43.588555	-116.163492	Kirkpatrick, G.	7/15/2016	1945	86		0	0	0	None Present	0	0	0	
Bethine Church River Trail #13	43.588555	-116.162923	Kirkpatrick, G.	7/25/2016	1930	90		0	0	0	None Present	0	0	0	
Bethine Church River Trail #13	43.588555	-116.163492	Kirkpatrick, G.	8/1/2016	857	72		0	0	0	None Present	0	0	0	
Bethine Church River Trail #13	43.588555	-116.163492	Kirkpatrick, G.	8/8/2016	954	78		0	0	0	None Present	0	0	0	
Bethine Church River Trail #13	43.588555	-116.163492	Kirkpatrick, G.	8/15/2016	910	78		0	0	0	None Present	0	0	0	
Bethine Church River Trail #13	43.588555	-116.163492	Kirkpatrick, G.	8/23/2016	840	65	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #13	43.588555	-116.168737	Kirkpatrick, G.	8/30/2016	907	69	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #13	43.588555	-116.163492	Kirkpatrick, G.	9/5/2016	1042	60	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #14	43.589012	-116.164984	Kirkpatrick, G.	6/12/2016	1045	64	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #14	43.589012	-116.164984	Kirkpatrick, G.	6/20/2016	950	68	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #14	43.589012	-116.164984	Kirkpatrick, G.	6/27/2016	825	81	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #14	43.589012	-116.164984	Kirkpatrick, G.	7/4/2016	945	76		0	0	0	None Present	0	0	0	
Bethine Church River Trail #14	43.589012	-116.164984	Kirkpatrick, G.	7/10/2016	1338	69		0	0	0	None Present	0	0	0	
Bethine Church River Trail #14	43.589012	-116.164984	Kirkpatrick, G.	7/15/2016	1940	87		0	0	0	None Present	0	0	0	
Bethine Church River Trail #14	43.589012	-116.164984	Kirkpatrick, G.	7/25/2016	1920	90		0	0	0	None Present	0	0	0	
Bethine Church River Trail #14	43.589012	-116.164984	Kirkpatrick, G.	8/1/2016	850	74		0	0	0	None Present	0	0	0	
Bethine Church River Trail #14	43.589012	-116.164984	Kirkpatrick, G.	8/8/2016	945	77	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #14	43.589012	-116.164984	Kirkpatrick, G.	8/15/2016	905	73	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #14	43.589012	-116.164984	Kirkpatrick, G.	8/23/2016	830	64	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #14	43.589012	-116.164984	Kirkpatrick, G.	8/30/2016	900	73	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #14	43.589012	-116.164984	Kirkpatrick, G.	9/5/2016	1035	69	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #14.5	43.590025	-116.168737	Kirkpatrick, G.	6/5/2016	1028	70	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #14.5	43.590025	-116.168737	Kirkpatrick, G.	6/12/2016	1035	68	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #14.5	43.590025	-116.168737	Kirkpatrick, G.	6/20/2016	840	79	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #14.5	43.590025	-116.168737	Kirkpatrick, G.	6/27/2016	915	86	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #14.5	43.590025	-116.168737	Kirkpatrick, G.	7/4/2016	920	80		0	0	0	None Present	0	0	0	



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Bethine Church River Trail #14.5	43.590025	-116.168737	Kirkpatrick, G.	7/10/2016	1327	69		0	0	0	None Present	0	0	0	
Bethine Church River Trail #14.5	43.590025	-116.168737	Kirkpatrick, G.	7/15/2016	1925	88		0	0	0	None Present	0	0	0	
Bethine Church River Trail #14.5	43.590025	-116.168737	Kirkpatrick, G.	7/25/2016	1905	95		0	0	0	None Present	0	0	0	
Bethine Church River Trail #14.5	43.590025	-116.168737	Kirkpatrick, G.	8/1/2016	835	72		0	0	0	None Present	0	0	0	
Bethine Church River Trail #14.5	43.590025	-116.168737	Kirkpatrick, G.	8/8/2016	927	74	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #14.5	43.590025	-116.168737	Kirkpatrick, G.	8/15/2016	850	73	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #14.5	43.590025	-116.168737	Kirkpatrick, G.	8/23/2016	818	64	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #14.5	43.590025	-116.168737	Kirkpatrick, G.	8/30/2016	852	74	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #15	43.589887	-116.169510	Kirkpatrick, G.	6/12/2016	1015	68	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #15	43.589887	-116.169510	Kirkpatrick, G.	6/20/2016	920	78	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #15	43.589887	-116.169510	Kirkpatrick, G.	6/27/2016	800	81	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #15	43.589887	-116.169510	Kirkpatrick, G.	7/4/2016	900	76		0	0	0	None Present	0	0	0	
Bethine Church River Trail #15	43.589887	-116.169510	Kirkpatrick, G.	7/10/2016	1315	68		0	0	0	None Present	0	0	0	
Bethine Church River Trail #15	43.589887	-116.169510	Kirkpatrick, G.	7/15/2016	1910	92		0	0	0	None Present	0	0	0	
Bethine Church River Trail #15	43.589887	-116.169510	Kirkpatrick, G.	7/25/2016	1750	96		0	0	0	None Present	0	0	0	
Bethine Church River Trail #15	43.589887	-116.169510	Kirkpatrick, G.	8/1/2016	820	74		0	0	0	None Present	0	0	0	
Bethine Church River Trail #15	43.589887	-116.169510	Kirkpatrick, G.	8/8/2016	915	74	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #15	43.589887	-116.169510	Kirkpatrick, G.	8/15/2016	835	73	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #15	43.589887	-116.169510	Kirkpatrick, G.	8/23/2016	810	64	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #15	43.589887	-116.169510	Kirkpatrick, G.	8/30/2016	845	68	none	0	0	0	None Present	0	0	0	
Bethine Church River Trail #15	43.589887	-116.169510	Kirkpatrick, G.	9/5/2016	1020	69	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #1	43.614912	-116.223342	Hunt, D.	5/23/2016	1623	70	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #1	43.614912	-116.223342	Hunt, D.	5/29/2016	1405	72	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #1	43.614912	-116.223342	Hunt, D.	6/4/2016	1420	87	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #1	43.614912	-116.223342	Hunt, D.	6/9/2016	1142	77	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #1	43.614912	-116.223342	Hunt, D.	6/11/2016	1351	70	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #1	43.614912	-116.223342	Hunt, D.	6/18/2016	1338	79	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #1	43.614912	-116.223342	Hunt, D.	6/23/2016	1345	82	none	0	0	0	None Present	0	0	0	





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Kathryn Albertson Park #1	43.614912	-116.223342	Hunt, D.	6/30/2016	1345	88	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #1	43.614912	-116.223342	Hunt, D.	7/5/2016	1326	76	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #1	43.614912	-116.223342	Hunt, D.	7/14/2016	915	75	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #1	43.614912	-116.223342	Hunt, D.	7/24/2016	843	84	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #1	43.614912	-116.223342	Hunt, D.	8/2/2016	1250	80	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #1	43.614912	-116.223342	Hunt, D.	8/14/2016	1628	88	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #1	43.614912	-116.223342	Hunt, D.	8/23/2016	1500	72	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #1	43.614912	-116.223342	Hunt, D.	8/31/2016	1340	82	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #2	43.615231	-116.223591	Hunt, D.	5/23/2016	1633	70	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #2	43.615231	-116.223591	Hunt, D.	5/29/2016	1416	72	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #2	43.615231	-116.223591	Hunt, D.	6/4/2016	1430	89	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #2	43.615231	-116.223591	Hunt, D.	6/9/2016	1156	77	none	0	0	1	Flying (Foraging)	7	1	0	1 Monarch Flying (Foraging), all monarch observations were north of the pumphouse. Larva in 1st stage.
Kathryn Albertson Park #2	43.615231	-116.223591	Hunt, D.	6/11/2016	1357	70	none	0	0	0	None Present	4	0	0	
Kathryn Albertson Park #2	43.615231	-116.223591	Hunt, D.	6/18/2016	1347	79	none	0	0	1	Flying (Foraging), Nectaring	5	1	0	2nd Instar
Kathryn Albertson Park #2	43.615231	-116.223591	Hunt, D.	6/23/2016	1402	82	none	0	0	1	Flying (Foraging), Nectaring	2	1	0	3rd Instar
Kathryn Albertson Park #2	43.615231	-116.223591	Hunt, D.	6/30/2016	1403	88	none	0	0	1	Flying (Foraging), Nectaring	0	0	0	I didn't see the instar I saw before.
Kathryn Albertson Park #2	43.615231	-116.223591	Hunt, D.	7/5/2016	1336	75	none	0	0	1	Flying (Foraging)	0	0	0	No sign of the instar seen previously.
Kathryn Albertson Park #2	43.615231	-116.223591	Hunt, D.	7/14/2016	929	72	none	0	0	0	None Present	0	0	0	Looked for night roosting monarch but didn't see any.
Kathryn Albertson Park #2	43.615231	-116.223591	Hunt, D.	7/24/2016	853	84	none	0	0	0	None Present	4	0	0	
Kathryn Albertson Park #2	43.615231	-116.223591	Hunt, D.	8/2/2016	1319	80	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #2	43.615231	-116.223591	Hunt, D.	8/14/2016	1641	90	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #2	43.615231	-116.223591	Hunt, D.	8/23/2016	1513	76	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #2	43.615231	-116.223591	Hunt, D.	8/31/2016	1350	86	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #3	43.615331	-116.224707	Varland, A.	5/30/2016	1532	69	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #3	43.615331	-116.224707	Varland, A.	6/9/2016	1843	70	none	0	0	0	None Present	17	0	0	About 1/5 of eggs on top of leaves, and 4/5 under leaves.
Kathryn Albertson Park #3	43.615331	-116.224707	Varland, A.	6/19/2016	1818	62	none	0	0	0	None Present	7	0	0	
Kathryn Albertson Park #3	43.615331	-116.224707	Varland, A.	6/22/2016	1841	68	none	0	0	0	None Present	3	1	0	Maybe one larvae? Color seemed too dark.
Kathryn Albertson Park #3	43.615331	-116.224707	Varland, A.	7/3/2016	1033	70	none	0	0	0	None Present	0	0	0	Seemed to be signs of chewing, but no monarchs of any stage.



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Kathryn Albertson Park #3	43.615331	-116.224707	Varland, A.	7/24/2016	1118	74	none	0	0	0	None Present	2	0	0	
Kathryn Albertson Park #3	43.615331	-116.224707	Varland, A.	8/2/2016	1755	74	none	0	0	0	None Present	2	0	0	
Kathryn Albertson Park #3	43.615331	-116.224707	Varland, A.	8/8/2016	1748	70	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #3	43.615331	-116.224707	Varland, A.	8/16/2016	1732	82	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #3	43.615331	-116.224707	Varland, A.	8/26/2016	1805	71	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #3	43.615331	-116.224707	Varland, A.	9/8/2016	1748	62	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #5	43.615774	-116.228472	Renner, C.	5/25/2016	1240	65	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #5	43.615774	-116.228472	Renner, C.	6/1/2016	1040	58	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #5	43.615774	-116.228472	Renner, C.	6/9/2016	1100	70	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #5	43.615774	-116.228472	Renner, C.	6/15/2016	1325	63	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #5	43.615774	-116.228472	Renner, C.	6/22/2016	1015	69	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #5	43.615774	-116.228472	Renner, C.	6/29/2016	1420	84	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #5	43.615774	-116.228472	Renner, C.	7/6/2016	1105	70	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #5	43.615774	-116.228472	Renner, C.	7/14/2016	1035	70	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #5	43.615774	-116.228472	Renner, C.	7/20/2016	940	68	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #5	43.615774	-116.228472	Coates, C.	7/27/2016	1035	78	none	0	0	0	None Present	4	0	0	
Kathryn Albertson Park #5	43.615774	-116.228472	Coates, C.	8/3/2016	1035	69		0	0	0	None Present	6	0	0	
Kathryn Albertson Park #5	43.615774	-116.228472	Coates, C.	8/10/2016	1257	72	none	0	0	0	None Present	6	0	0	
Kathryn Albertson Park #5	43.615774	-116.228472	Renner, C.	8/16/2016	1030	68	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #5	43.615774	-116.228472	Renner, C.	8/23/2016	1015	62	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #5	43.615774	-116.228472	Renner, C.	9/1/2016	1034	68	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #5	43.615774	-116.228472	Renner, C.	9/7/2016	1348	59		0	0	0	None Present	0	0	0	
Kathryn Albertson Park #6	43.615712	-116.228954	Coates, C.	5/25/2016	1056	68	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #6	43.615712	-116.228954	Coates, C.	6/2/2016	1243	76	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #6	43.615712	-116.228954	Renner, C.	6/6/2016	1047		none	0	0	0	None Present	3	0	0	3 plants with eggs, had 1 egg per plant and were 12-18" apart, not on the largest plants.
Kathryn Albertson Park #6	43.615712	-116.228954	Coates, C.	6/14/2016	1330	64	none	0	0	0	None Present	3	0	0	
Kathryn Albertson Park #6	43.615712	-116.228954	Coates, C.	6/23/2016	925	72	none	0	0	0	None Present	3	0	0	
Kathryn Albertson Park #6	43.615712	-116.228954	Coates, C.	6/29/2016	935	74	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #6	43.615712	-116.228954	Coates, C.	7/6/2016	1128	72	none	0	0	0	None Present	1	0	0	



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Kathryn Albertson Park #6	43.615712	-116.228954	Renner, C.	7/14/2016	1120	71	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #6	43.615712	-116.228954	Coates, C.	7/20/2016	1451	87	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #6	43.613787	-116.225733	Coates, C.	7/27/2016	947	76	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #6	43.615712	-116.228954	Coates, C.	7/27/2016	1012	76	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #6	43.615712	-116.228954	Coates, C.	8/3/2016	1012	68	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #6	43.615712	-116.228954	Coates, C.	8/10/2016	1322	73	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #6	43.615712	-116.228954	Coates, C.	8/17/2016	1328	80	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #6	43.615712	-116.228954	Coates, C.	8/24/2016	1105	70	none	0	0	0	None Present	2	0	0	
Kathryn Albertson Park #6	43.615712	-116.228954	Coates, C.	8/31/2016	1634	86	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #6	43.615712	-116.228954	Coates, C.	9/5/2016	1401	68	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #8	43.614885	-116.228186	Takasugi, A.	6/1/2016	1307	90	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #8	43.614885	-116.228186	Takasugi, A.	6/10/2016	1130	80	none	0	0	0	None Present	4	0	0	
Kathryn Albertson Park #8	43.614885	-116.228186	Takasugi, A.	6/15/2016	1240	60	none	0	0	0	None Present	2	1	0	Very small 2nd instar munching on a leaf.
Kathryn Albertson Park #8	43.614885	-116.228186	Takasugi, A.	6/28/2016	845	73	none	0	0	0	None Present	2	1	0	
Kathryn Albertson Park #8	43.614885	-116.228186	Takasugi, A.	7/5/2016	1200	73	none	0	0	0	None Present	4	0	0	
Kathryn Albertson Park #8	43.614885	-116.228186	Takasugi, A.	7/15/2016	930	70	none	0	0	0	None Present	4	0	0	
Kathryn Albertson Park #8	43.614885	-116.228186	Takasugi, A.	7/19/2016	848	70	none	0	0	0	None Present	4	0	0	
Kathryn Albertson Park #8	43.614885	-116.228186	Takasugi, A.	7/26/2016	1000	78	none	1	0	1	Flying (Foraging)	13	1	0	2nd larval instar.
Kathryn Albertson Park #8	43.614885	-116.228186	Takasugi, A.	8/1/2016	930	67	none	0	0	0	None Present	3	1	0	3rd instar larva.
Kathryn Albertson Park #8	43.614885	-116.228186	Takasugi, A.	8/9/2016	930	62	none	0	0	0	None Present	3	0	0	2 eggs were more translucent than creamy-colored.
Kathryn Albertson Park #8	43.614885	-116.228186	Takasugi, A.	8/22/2016	915	64	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #8	43.614885	-116.228186	Takasugi, A.	8/16/2016	1015	73	none	0	0	0	None Present	1	0	0	
Kathryn Albertson Park #12	43.613787	-116.225733	Renner, C.	5/25/2016	1305	70	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #12	43.614912	-116.223342	Renner, C.	6/1/2016	1015	62	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #12	43.613787	-116.225733	Renner, C.	6/9/2016	1030	70	none	0	0	0	None Present	4	0	0	Eggs were in shade on leaf closest to top of plant.
Kathryn Albertson Park #12	43.613787	-116.225733	Renner, C.	6/15/2016	1415	62	none	0	0	0	None Present	7	0	0	1 egg looked grown and 1 egg was on top of a leaf.
Kathryn Albertson Park #12	43.613787	-116.225733	Renner, C.	6/22/2016	930	59	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #12	43.613787	-116.225733	Renner, C.	6/29/2016	1340	87	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #12	43.613787	-116.225733	Renner, C.	7/6/2016	1035	68	none	0	0	0	None Present	0	0	0	



## Boise Parks & Recreation 2016 Monarch Observation Data

LOCATION	LATITUDE	LONGITUDE	OBSERVER	DATE	TIME (MILITARY)	TEMPERATURE	PRECIPITATION	FEMALE MONARCHS	MALE MONARCHS	TOTAL MONARCHS	MONARCH BEHAVIOR	EGGS	LARVAE	PUPAE	COMMENTS
Kathryn Albertson Park #12	43.613787	-116.225733	Renner, C.	7/14/2016	1000	65	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #12	43.613787	-116.225733	Renner, C.	7/20/2016	908	60	none	0	0	0	None Present	2	0	0	
Kathryn Albertson Park #12	43.613787	-116.225733	Coates, C.	8/3/2016	956	64	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #12	43.613787	-116.225733	Coates, C.	8/10/2016	1231	77	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #12	43.613787	-116.225733	Renner, C.	8/16/2016	950	68	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #12	43.613787	-116.225733	Renner, C.	8/23/2016	940	62	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #12	43.613787	-116.225733	Renner, C.	9/1/2016	1000	60	none	0	0	0	None Present	0	0	0	
Kathryn Albertson Park #12	43.613787	-116.225733	Renner, C.	9/7/2016	1325	63	none	0	0	0	None Present	0	0	0	