Appendix A: Summer 2018 YCC Crew Data Collection Calendar

◄ May

June 2018

July ►

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18 PM – Fairy Falls	19 All Day Old Faithful	20 All Day Norris	21 All Day Midway	22 AM – Fairy Falls	23
24	25 PM – Midway	26 All Day Norris	27 All Day Old Faithful	28 All Day Fairy Falls	29 AM – Midway	30

July 2018

◄ June | August ►

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2 PM – Old Faithful	3 All Day Fairy Falls	4	5 All Day Midway	6 AM – Old Faithful	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23 PM – Fairy Falls	24 All Day Old Faithful	25 All Day Norris	26 All Day Midway	27 AM – Fairy Falls	28
29	30 PM – Old Faithful	31 All Day Fairy Falls				

August 2018

◄ July | September ►

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 All Day Midway	2 All Day Norris	3 AM – Old Faithful	4
5	6 PM – Norris	7 All Day Midway	8 All Day Fairy Falls	9 All Day Old Faithful	10 AM – Norris	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Appendix B: Summary of Data Collection Hours and Effort by YCC Crews in Summer 2018

Date	Location	Data Collection Time Start	Data Collection End Time	Time Difference
18-Jun-2018	Fairy Falls	13:00	15:30	2:30
22-Jun-2018	Fairy Falls	9:00	12:00	3:00
28-Jun-2018	Fairy Falls	9:00	15:30	6:30
3-Jul-2018	Fairy Falls	9:00	15:30	6:30
23-Jul-2018	Fairy Falls	13:00	16:00	3:00
27-Jul-2018	Fairy Falls	9:00	12:00	3:00
31-Jul-2018	Fairy Falls	9:00	15:30	6:30
8-Aug-2018	Fairy Falls	9:00	15:30	6:30
21-Jun-2018	Midway	9:00	15:30	6:30
25-Jun-2018	Midway	12:30	16:00	3:30
29-Jun-2018	Midway	8:30	11:30	3:00
5-Jul-2018	Midway	9:00	15:30	6:30
26-Jul-2018	Midway	9:00	15:30	6:30
1-Aug-2018	Midway	9:00	15:30	6:30
7-Aug-2018	Midway	9:30	15:30	6:00
20-Jun-2018	Norris	9:00	15:30	6:30
26-Jun-2018	Norris	9:00	15:30	6:30
25-Jul-2018	Norris	9:00	15:30	6:30
2-Aug-2018	Norris	9:00	15:30	6:30
6-Aug-2018	Norris	12:30	15:30	3:00
10-Aug-2018	Norris	9:00	12:00	3:00
19-Jun-2018	Old Faithful	9:00	15:30	6:30
27-Jun-2018	Old Faithful	9:00	15:30	6:30
2-Jul-2018	Old Faithful	13:00	16:00	3:00
6-Jul-2018	Old Faithful	9:00	12:00	3:00
24-Jul-2018	Old Faithful	9:00	15:30	6:30
30-Jul-2018	Old Faithful	12:30	15:45	3:15
3-Aug-2018	Old Faithful	9:00	12:00	3:00
9-Aug-2018	Old Faithful	9:00	15:30	6:30

Focal Attraction Site	# Periods of Data Collection	Data Collection Effort (hh:mm)*
Fairy Falls	8	37:30
Midway Geyser Basin	7	38:30
Norris Geyser Basin	6	32:00
Old Faithful	8	38:15

Appendix C: Maps of counter and PAOT locations for YCC Crew data collection during Summer 2018

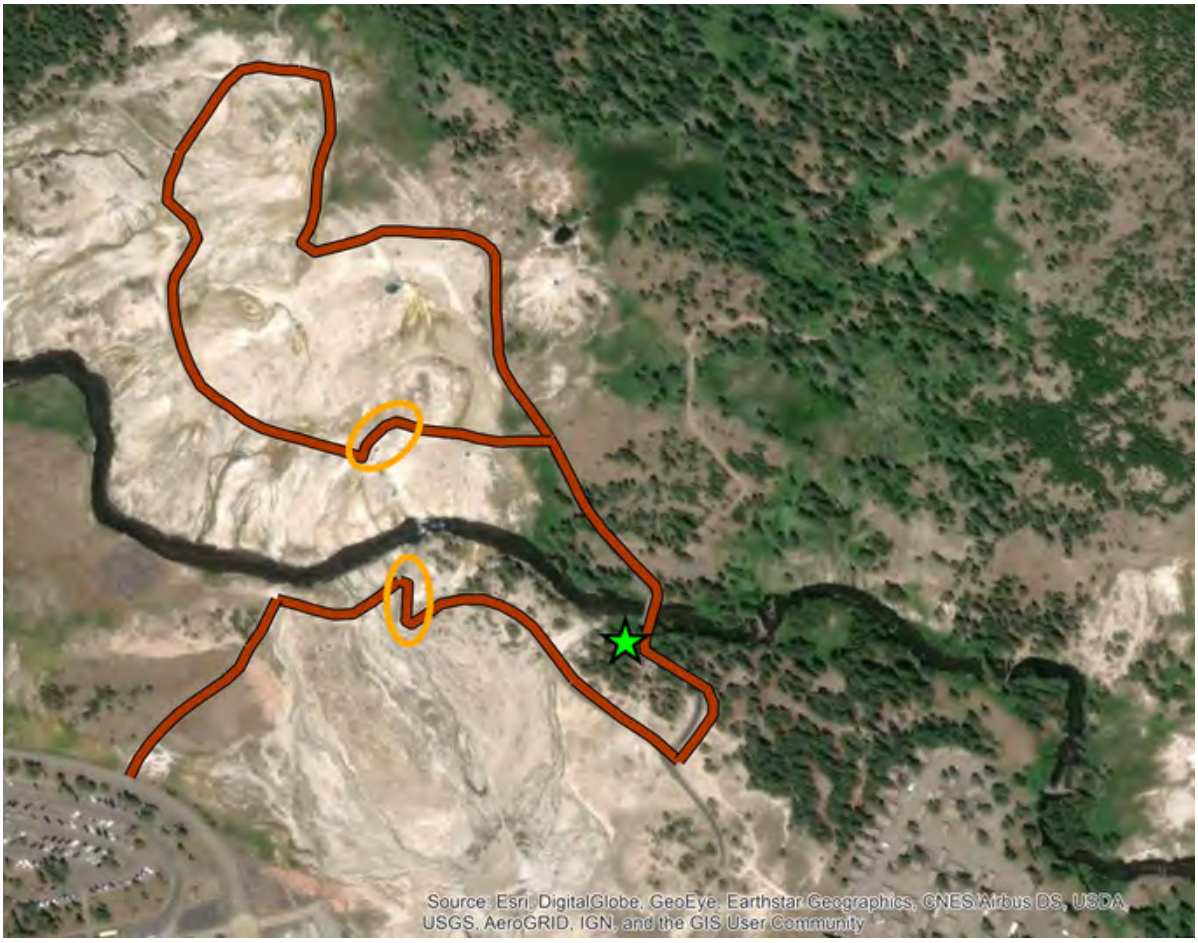
Brown Line = designated trail or boardwalk

Orange Circles = approximate locations of PAOT counts

Green Stars = approximate locations of trail counter installation.

<u>Fairy Falls & Midway Geyser Basin:</u>

Old Faithful:



Norris Geyser Basin:

NOTE: Norris Geyser Basin one PAOT location and the encounters count path for 2018 was different from 2017 due to boardwalk construction/repair. Visitors and the YCC Crew were unable to complete the entire Porcelain Basin loop as the back half of the loop was closed due to boardwalk construction. The YCC Intern from Summer 2018 provided the following photos from the 2018 season to describe the PAOT count location and the boardwalk section walked for encounter counts. Clarification is needed from the park on where the counter was placed at Norris for the 2018 data collection season.

Photo 1: PAOT boardwalk count location at Norris Geyser Basin. Photo by Claire Morris.

Photo 2: Another angle of PAOT boardwalk count location at Norris Geyser Basin. Photo by Claire Morris.

Photo 3: The brown path shows where YCC Crew members walked during encounter counts. Orange circle indicate locations for PAOT counts (estimated by Ashley D'Antonio).

Appendix D: Summary Tables for Parking Lot Counts

Table D.1. Average and standard deviation for parking lot counts at Fairy Falls by time of day (total number of designated spots = 74 gravel and 23 paved)

	Total Vehicles in Designated Spots		RV		Bus		Motorcycle	
Time	**Mean**	**SD±**	**Mean**	**SD±**	**Mean**	**SD±**	**Mean**	**SD±**
9:00	63	16	1	2	0	0	0	0
10:00	92	15	1	1	1	1	0	0
11:00	105	22	2	1	1	1	1	1
12:00	86	12	2	1	0	0	0	0
13:00	82	22	2	1	0	0	0	0
14:00	88	10	2	2	0	0	0	0
15:00	81	6	1	3	1	1	0	1
Overall	85	14	2	2	0	0	0	0

	Bike		Queue		Undesignated		Roadside	
Time	**Mean**	**SD±**	**Mean**	**SD±**	**Mean**	**SD±**	**Mean**	**SD±**
9:00	0	0	0	0	2	3	1	2
10:00	0	1	6	7	11	12	18	28
11:00	0	1	9	14	13	13	26	22
12:00	0	0	1	1	15	6	23	3
13:00	2	5	4	6	19	7	28	22
14:00	1	2	5	6	20	7	17	7
15:00	1	3	1	1	21	8	18	17
Overall	1	2	4	5	14	8	19	14

Table D.2. Average and standard deviation for parking lot counts at Fairy Falls Basin by date of data collection (total number of designated spots = 74 gravel and 23 paved)

	Total Vehicles in Designated Spots		RV		Bus		Motorcycle	
Date	**Mean**	**SD±**	**Mean**	**SD±**	**Mean**	**SD±**	**Mean**	**SD±**
6/18/2018	81	7	4	3	0	0	0	0
6/22/2018	102	38	1	1	1	1	0	0
6/28/2018	82	13	2	1	0	0	0	0
7/4/2018	91	18	0	1	0	0	0	0
7/23/2018	76	23	3	2	1	1	0	1
7/27/2018	80	25	1	1	0	0	0	0
7/31/2018	90	23	1	1	1	1	0	0
8/8/2018	81	5	1	2	0	0	1	1
Overall	**85**	**19**	**2**	**1**	**0**	**0**	**0**	**0**

	Bike		Queue		Undesignated		Roadside	
Date	**Mean**	**SD±**	**Mean**	**SD±**	**Mean**	**SD±**	**Mean**	**SD±**
6/18/2018	0	0	0	0	12	3	3	3
6/22/2018	0	1	1	1	1	1	2	2
6/28/2018	0	0	1	3	12	10	17	7
7/4/2018	0	0	6	4	18	9	12	9
7/23/2018	0	0	1	2	28	4	15	7
7/27/2018	0	0	0	0	22	14	12	12
7/31/2018	4	4	12	12	8	6	23	19
8/8/2018	0	0	3	8	17	10	50	29
Overall	**0**	**1**	**3**	**4**	**15**	**7**	**17**	**11**

Table D.3 Average and standard deviation for parking lot counts at Midway Geyser Basin by hour of the day (total number of designated spots = 55)

	Total Vehicles in Designated Spots		RV		Bus		Motorcycle	
Time	**Mean**	**SD±**	**Mean**	**SD±**	**Mean**	**SD±**	**Mean**	**SD±**
9:00	60	7	3	1	1	1	0	0
10:00	66	23	2	1	4	3	1	1
11:00	68	27	3	2	2	1	1	1
12:00	71	26	3	2	2	2	1	1
13:00	72	13	3	2	3	1	1	1
14:00	68	13	4	3	2	1	2	2
15:00	76	18	6	3	3	1	1	1
Overall	**69**	**18**	**3**	**2**	**2**	**1**	**1**	**1**

	Bike		Queue		Undesignated		Roadside	
Time	**Mean**	**SD±**	**Mean**	**SD±**	**Mean**	**SD±**	**Mean**	**SD±**
9:00	0	0	14	13	6	7	13	20
10:00	0	0	20	12	5	5	28	30
11:00	0	0	39	6	9	8	30	28
12:00	0	0	33	3	6	6	23	29
13:00	0	1	35	10	4	4	78	32
14:00	0	1	28	4	7	4	68	53
15:00	2	3	29	20	4	6	59	21
Overall	**0**	**1**	**28**	**10**	**6**	**5**	**42**	**30**

Table D.4. Average and standard deviation for parking lot counts at Midway Geyser Basin by date of data collection (total number of designated spots = 55)

	Total Vehicles in Designated Spots		RV		Bus		Motorcycle	
Date	**Mean**	**SD±**	**Mean**	**SD±**	**Mean**	**SD±**	**Mean**	**SD±**
6/21/2018	64	20	3	1	2	1	0	0
6/25/2018	56	1	4	3	2	1	2	2
6/29/2018	77	18	1	2	4	4	1	1
7/5/2018	61	17	5	3	1	1	0	1
7/20/2018	57	10	3	1	3	2	2	2
8/1/2018	69	5	3	3	2	1	1	1
8/7/2018	100	25	4	1	3	1	1	1
Overall	**69**	**14**	**3**	**2**	**2**	**2**	**1**	**1**

	Bike		Queue		Undesignated		Roadside	
Date	**Mean**	**SD±**	**Mean**	**SD±**	**Mean**	**SD±**	**Mean**	**SD±**
6/21/2018	0	0	27	5	8	4	65	14
6/25/2018	1	1	31	5	9	3	117	8
6/29/2018	0	0	15	23	7	8	6	10
7/5/2018	1	2	24	14	16	7	38	25
7/20/2018	0	0	33	5	5	2	9	13
8/1/2018	0	0	36	9	2	3	39	19
8/7/2018	0	0	30	15	0	0	0	0
Overall	**0**	**1**	**28**	**11**	**7**	**4**	**39**	**12**

Table D.5. Average and standard deviation for parking lot counts at Norris Geyser Basin by hour of the day (total number of designated spots = 143)

	Total Vehicles in Designated Spots		RV		Bus		Motorcycle	
Time	**Mean**	**SD±**	**Mean**	**SD±**	**Mean**	**SD±**	**Mean**	**SD±**
9:00	93	28	5	3	2	2	0	1
10:00	143	28	8	4	2	3	1	1
11:00	148	35	9	6	1	1	1	1
12:00	133	13	8	3	0	1	1	1
13:00	97	21	7	1	0	0	1	1
14:00	113	18	7	4	1	1	1	1
15:00	94	92	6	5	1	0	2	1
Overall	**117**	**34**	**7**	**4**	**1**	**1**	**1**	**1**

	Bike		Queue		Undesignated		Roadside	
Time	**Mean**	**SD±**	**Mean**	**SD±**	**Mean**	**SD±**	**Mean**	**SD±**
9:00	0	1	2	3	1	1	0	0
10:00	0	0	24	18	8	9	0	0
11:00	0	0	36	34	8	12	0	1
12:00	0	0	27	23	16	16	4	5
13:00	0	0	0	0	16	13	30	52
14:00	0	0	2	3	21	16	26	40
15:00	1	1	8	8	26	25	68	74
Overall	**0**	**0**	**14**	**13**	**14**	**13**	**18**	**25**

Table D.6. Average and standard deviation for parking lot counts at Norris Geyser Basin by date of data collection (total number of designated spots = 143)

	Total Vehicles in Designated Spots		RV		Bus		Motorcycle	
Date	**Mean**	**SD±**	**Mean**	**SD±**	**Mean**	**SD±**	**Mean**	**SD±**
6/20/2018	117	18	8	2	2	3	0	1
6/26/2018	113	12	6	3	1	1	0	0
7/23/2018	139	12	6	3	1	1	1	1
8/2/2018	107	45	8	5	1	1	1	1
8/6/2018	97	25	10	3	1	0	3	0
8/10/2018	148	77	2	2	1	1	1	1
Overall	**120**	**32**	**7**	**3**	**1**	**1**	**1**	**1**

	Bike		Queue		Undesignated		Roadside	
Date	**Mean**	**SD±**	**Mean**	**SD±**	**Mean**	**SD±**	**Mean**	**SD±**
6/20/2018	0	1	7	8	19	10	0	0
6/26/2018	0	0	3	4	3	3	0	0
7/23/2018	0	0	14	13	29	19	8	8
8/2/2018	0	0	26	34	2	2	44	52
8/6/2018	N/A	N/A	6	5	29	6	0	0
8/10/2018	0	0	24	22	1	2	0	1
Overall	**0**	**0**	**13**	**14**	**14**	**7**	**9**	**10**

Appendix E: Average Hourly Counts of Vehicles Parked in Designated Spots at Focal Attraction Sites by Date

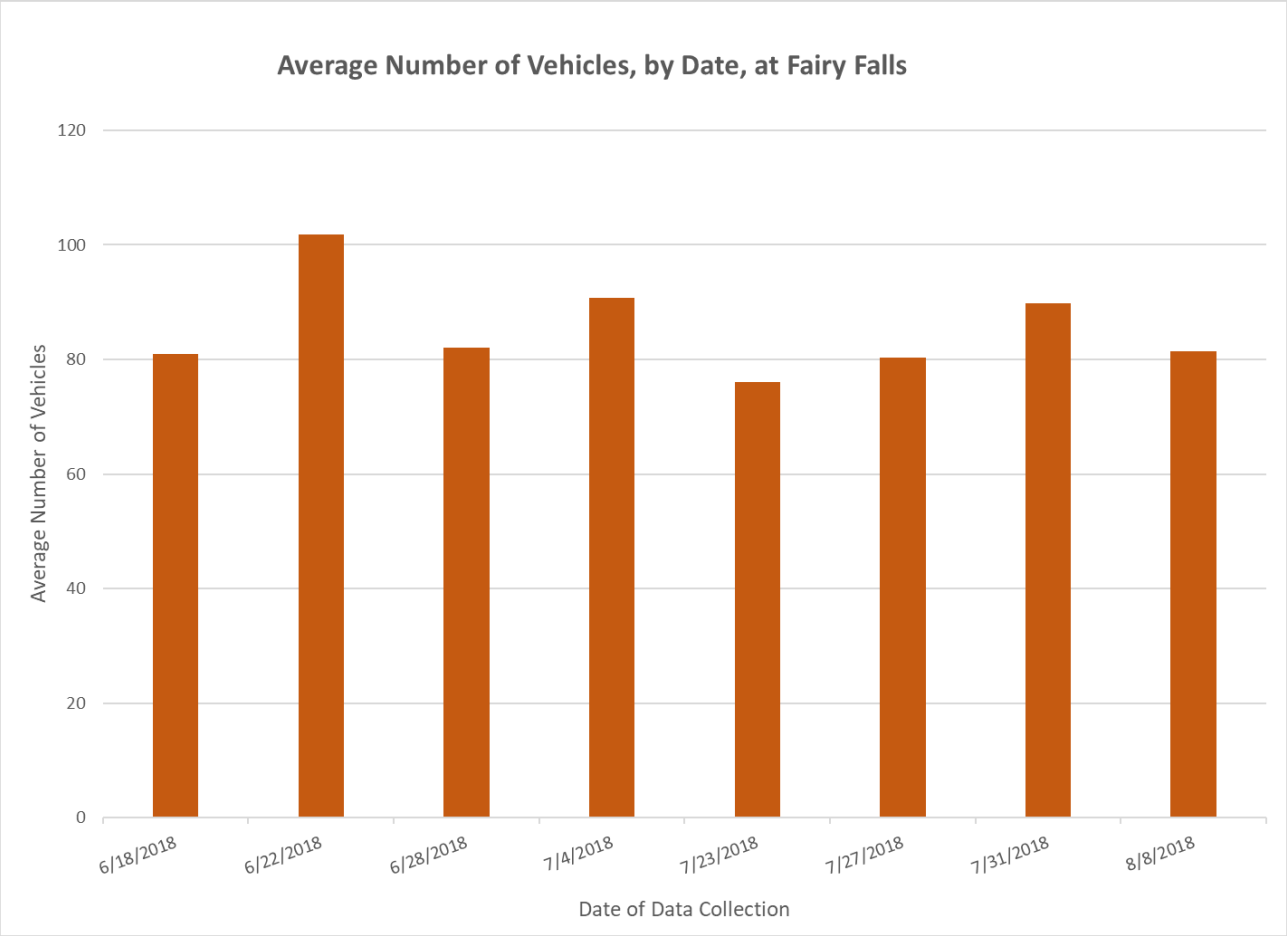


Figure E.1. Average number of vehicles parked in designated spaces by date at Fairy Falls (total designated spots in parking lot = 74 gravel and 23 paved)

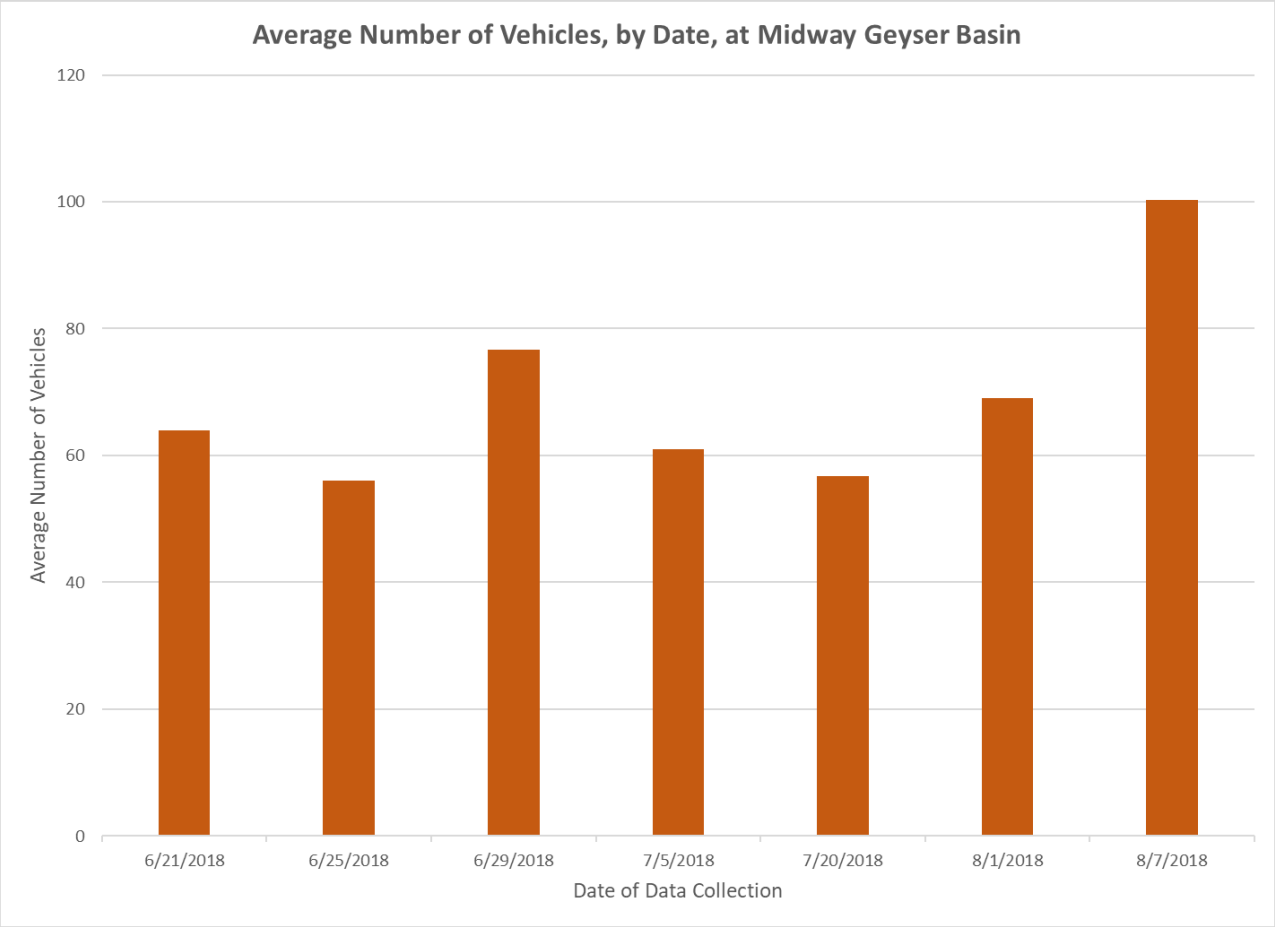


Figure E.2. Average number of vehicles parked in designated spaces by date at Midway Geyser Basin (total number of designated parking spots = 55)

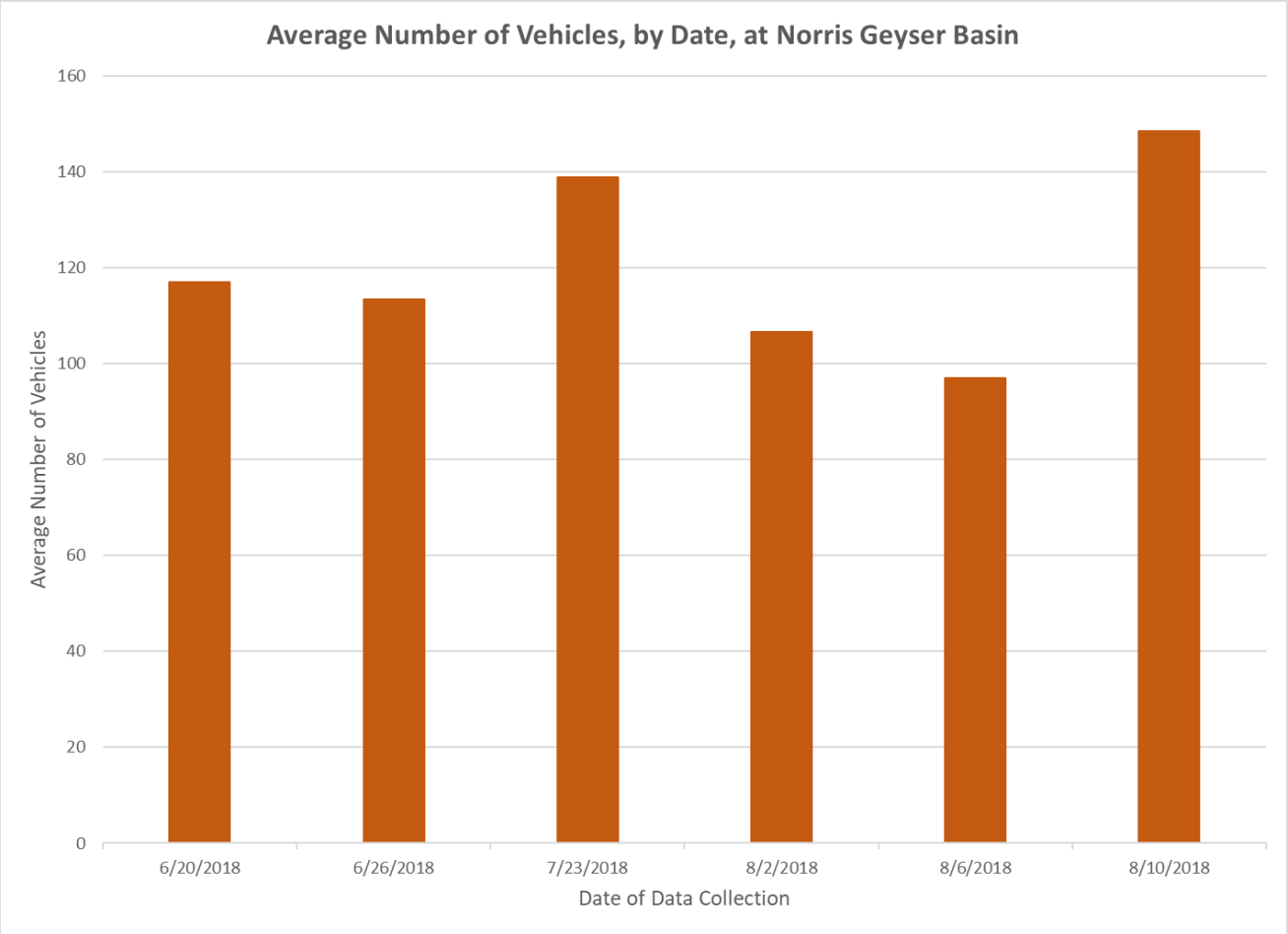


Figure E.3. Average number of vehicles parked in designated spaces by date at Norris Geyser Basin (total number of designated parking spots = 143)

Appendix F: Summary Figures for Shoulder Season Trail Counts at Focal Attractions

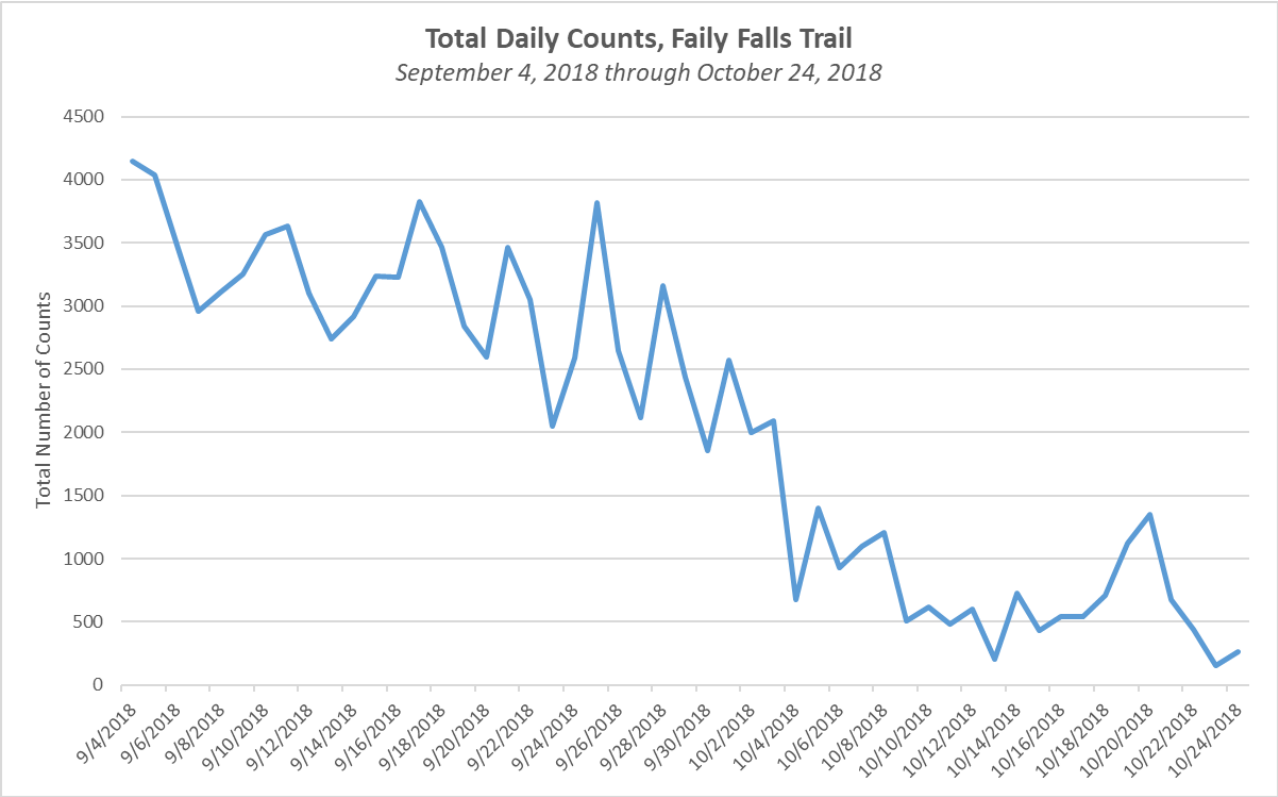


Figure F.1. Daily total number of counts at the Fairy Falls trailhead during the shoulder season.

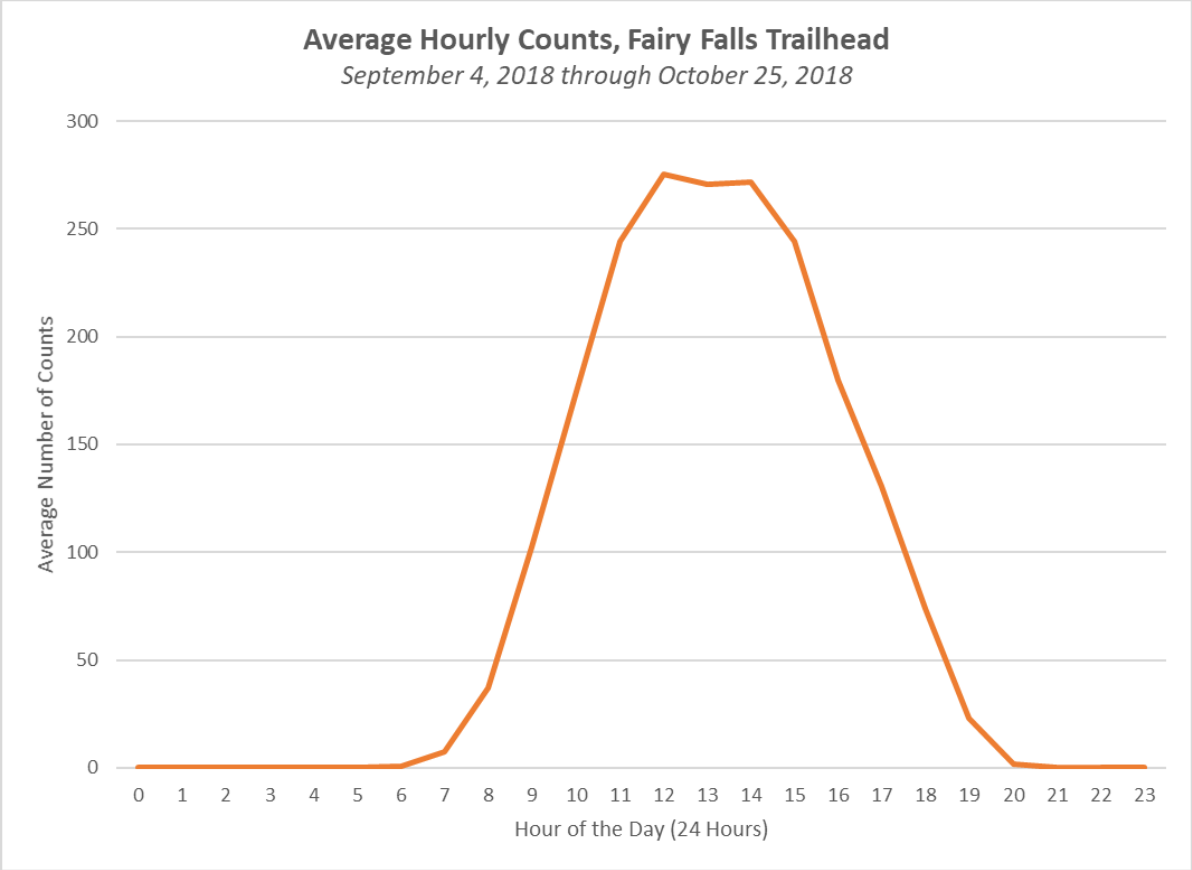


Figure F.2. Average number of hourly counts at the Fairy Falls trailhead during the shoulder season.

Table F.1. Average number of hourly counts during the shoulder season at the Fairy Falls trailhead. SD = standard deviation; N = sample size.

Hour	Average	±SD	N*
0:00	0	1	52
1:00	0	0	52
2:00	0	0	52
3:00	0	1	52
4:00	0	0	52
5:00	0	0	52
6:00	1	2	52
7:00	7	8	52
8:00	37	39	52
9:00	103	90	51
10:00	175	128	52
11:00	244	158	52
12:00	275	177	52
13:00	270	168	51
14:00	272	169	51
15:00	244	142	51
16:00	180	105	51
17:00	130	84	51
18:00	74	58	51
19:00	23	27	51
20:00	2	4	51
21:00	0	1	51
22:00	0	0	51
23:00	0	2	51

Table F.2. Average number of daily counts by day of week during the shoulder season at the Fairy Falls trailhead.

Day	Average	±SD	N*
Sunday	1841	1088	7
Monday	2088	1412	7
Tuesday	2282	1685	8
Wednesday	2018	1391	8
Thursday	1830	1198	7
Friday	2231	1154	7
Saturday	2045	1215	7

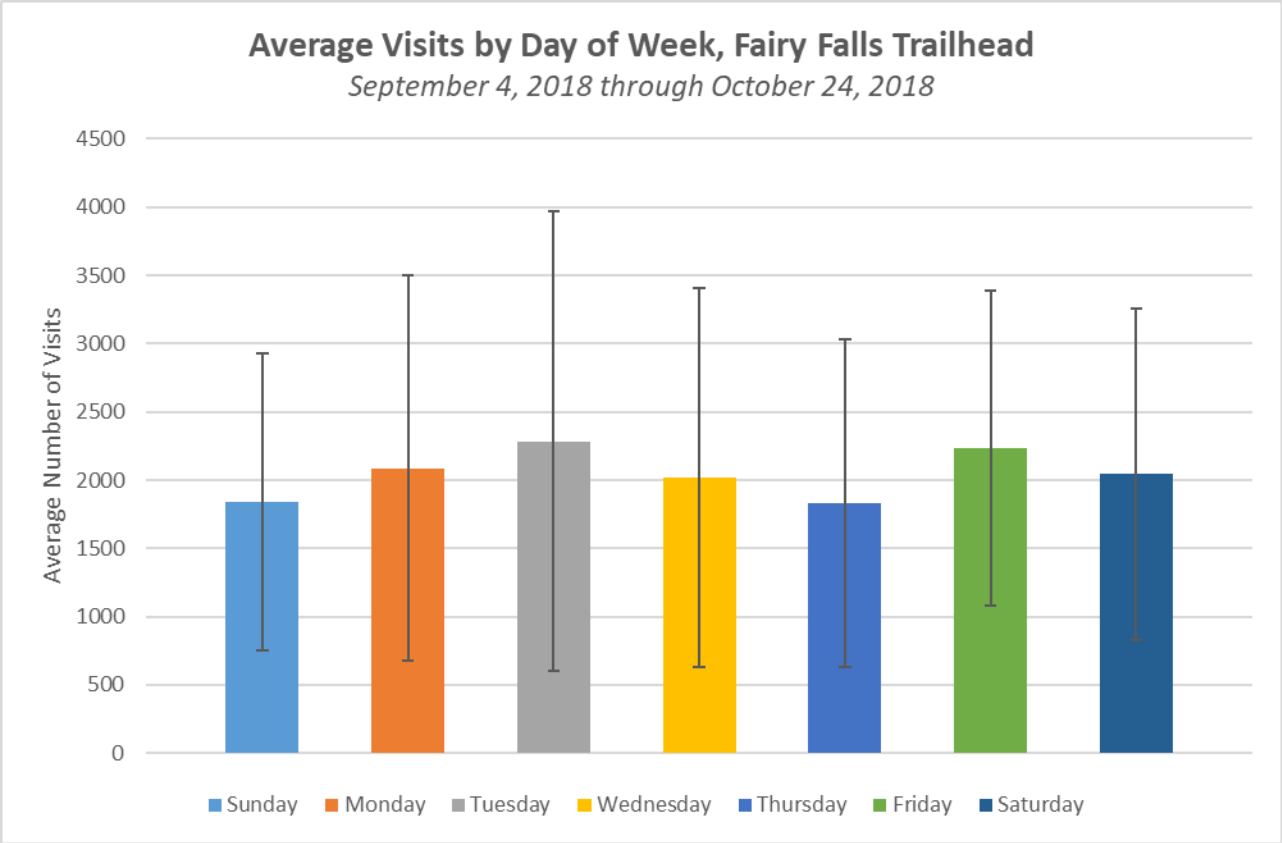


Figure F.3. Average number of counts, by day of week, at the Fairy Falls trailhead during the shoulder season. The vertical black bars extending above and below the top of the colored bars represent the standard deviation for the estimate of the mean for each day.

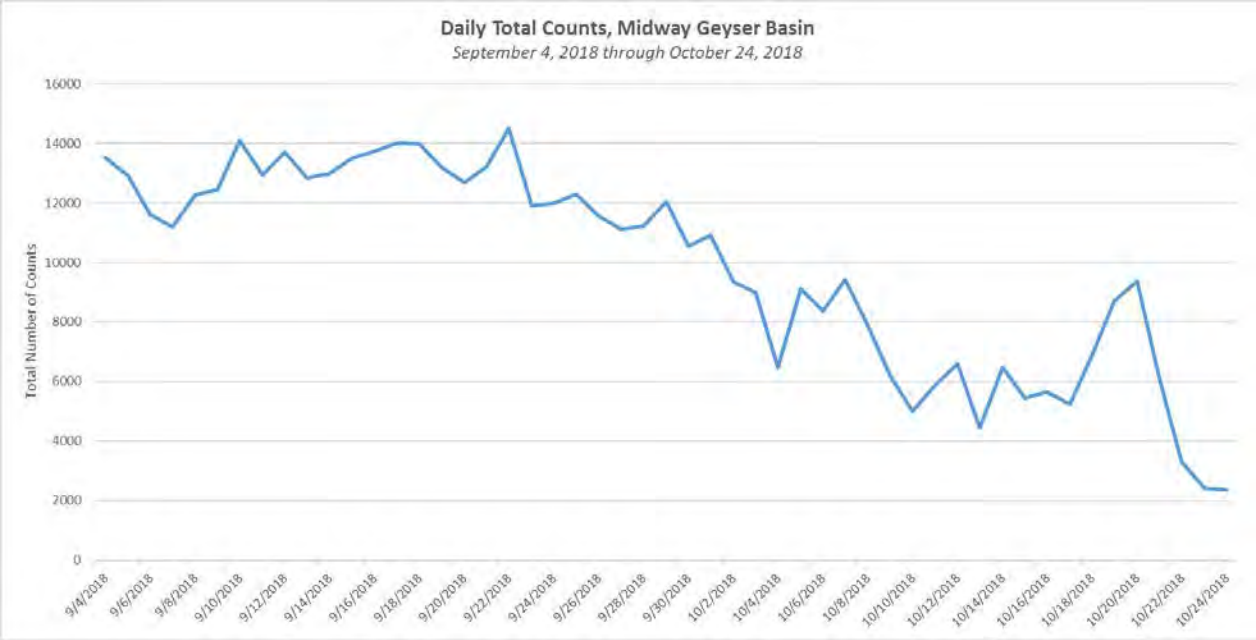


Figure F.4. Daily total number of counts at Midway Geyser Basin during the shoulder season.

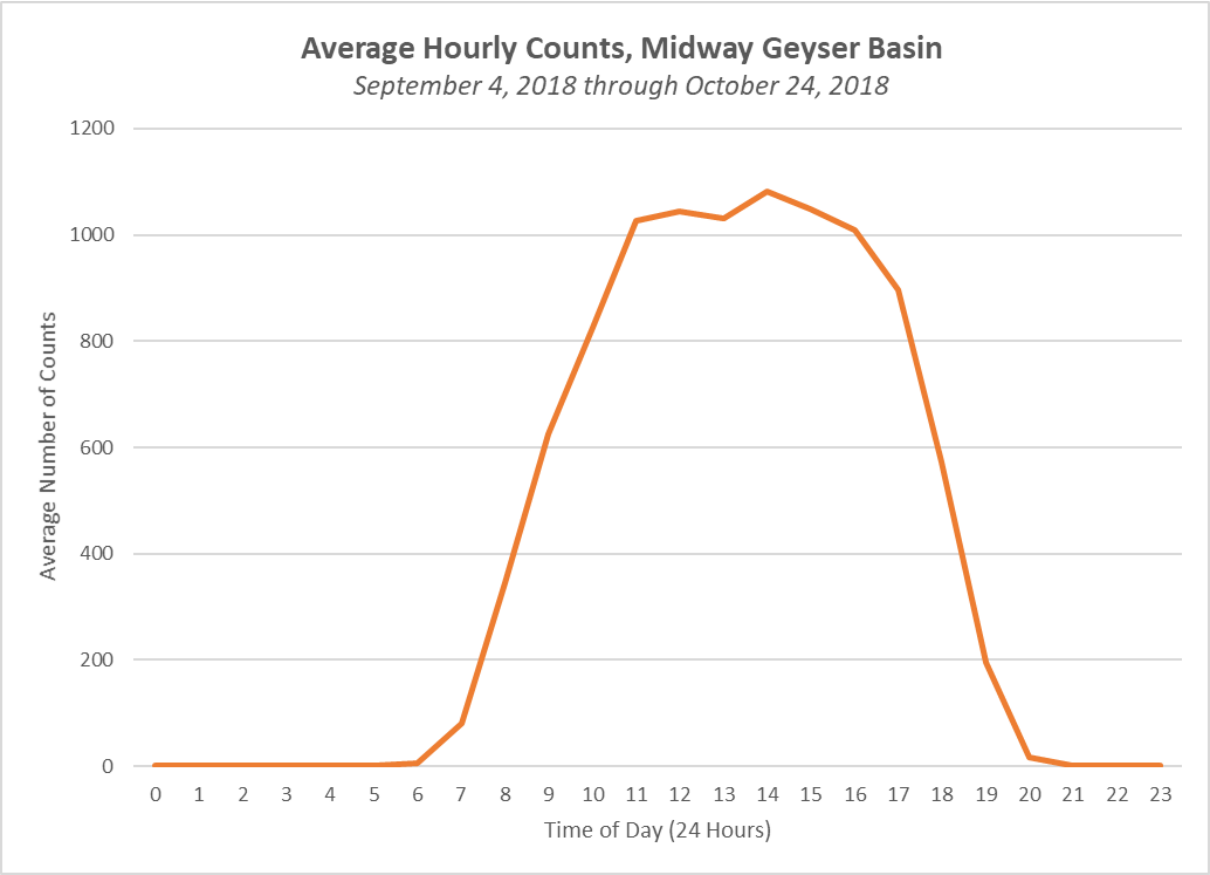


Figure F.5. Average number of hourly counts at Midway Geyser Basin during the shoulder season.

Table F.3. Average number of hourly counts during the shoulder season at Midway Geyser Basin. SD = standard deviation; N = sample size.

Hour	Average	±SD	N*
0:00	1	3	52
1:00	0	1	52
2:00	0	1	52
3:00	0	0	52
4:00	0	0	52
5:00	0	1	52
6:00	5	7	52
7:00	80	87	52
8:00	344	252	52
9:00	625	326	51
10:00	825	333	52
11:00	1027	327	52
12:00	1043	359	52
13:00	1031	310	51
14:00	1082	326	51
15:00	1048	347	51
16:00	1009	363	51
17:00	897	364	51
18:00	573	309	51
19:00	196	185	51
20:00	16	24	51
21:00	1	2	51
22:00	2	4	51
23:00	1	2	51

Table F.4. Average number of daily counts by day of week during the shoulder season at Midway Geyser Basin.

Day	Average	±SD	N*
Sunday	10098	2935	7
Monday	10721	3466	6
Tuesday	9659	4137	8
Wednesday	9126	4389	8
Thursday	8726	3844	8
Friday	10434	2412	7
Saturday	10645	3487	7

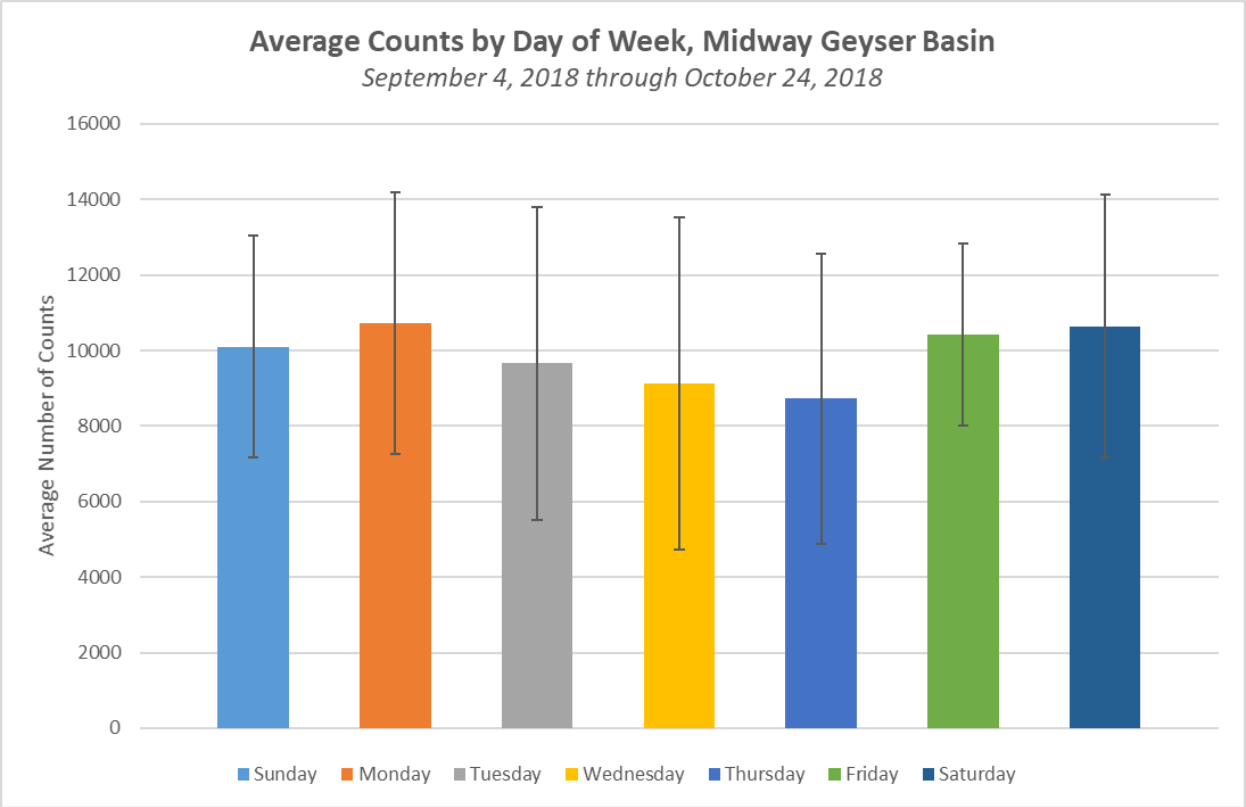


Figure F.6. Average number of counts, by day of week, at Midway Geyser Basin during the shoulder season. The vertical black bars extending above and below the top of the colored bars represent the standard deviation for the estimate of the mean for each day.

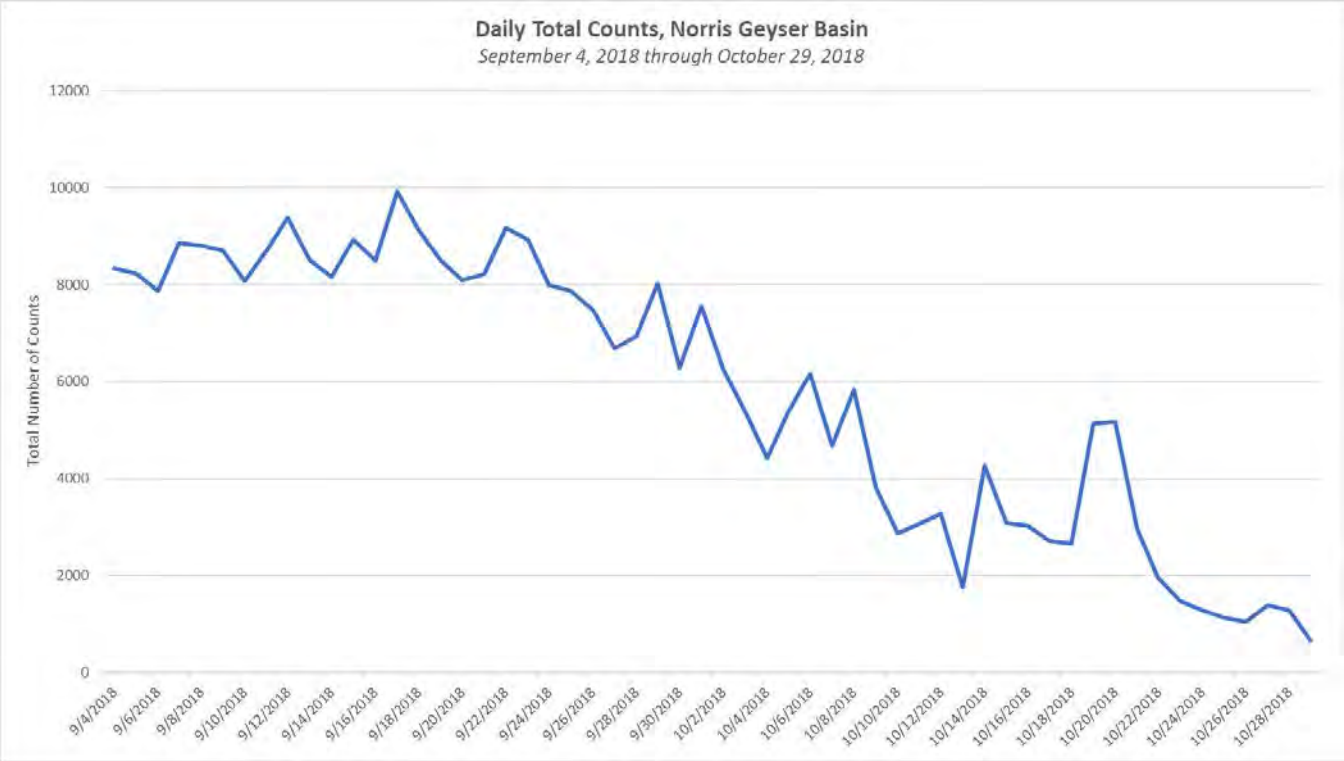


Figure F.7. Daily total number of counts at Norris Geyser Basin during the shoulder season.

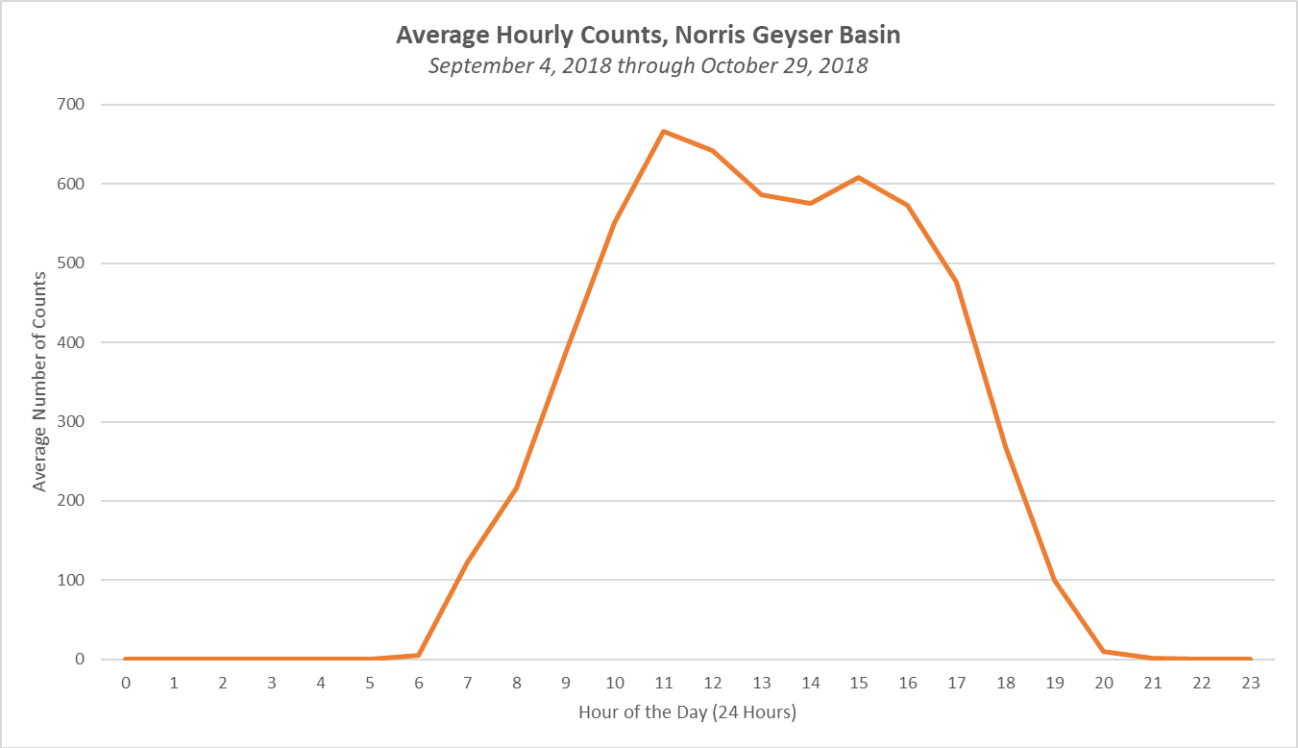


Figure F.8. Average number of hourly counts at Norris Geyser Basin during the shoulder season.

Table F.5. Average number of hourly counts during the shoulder season at Norris Geyser Basin. SD = standard deviation; N = sample size.

Hour	Average	±SD	N
0:00	0	1	57
1:00	0	1	57
2:00	0	1	57
3:00	0	1	57
4:00	0	1	57
5:00	1	2	57
6:00	6	10	57
7:00	123	118	57
8:00	216	152	57
9:00	386	215	56
10:00	551	278	56
11:00	667	315	56
12:00	642	304	56
13:00	587	303	56
14:00	575	278	56
15:00	608	276	55
16:00	573	288	56
17:00	475	246	56
18:00	269	180	56
19:00	99	91	56
20:00	10	15	56
21:00	1	3	56
22:00	1	2	56
23:00	1	2	56

Table F.6. Average number of daily counts by day of week during the shoulder season at Norris Geyser Basin.

Day	Average	±SD	N
Sunday	5703	2872	8
Monday	5632	3352	8
Tuesday	6077	2936	8
Wednesday	5735	3108	8
Thursday	5304	2848	8
Friday	5880	2719	8
Saturday	6178	3168	8

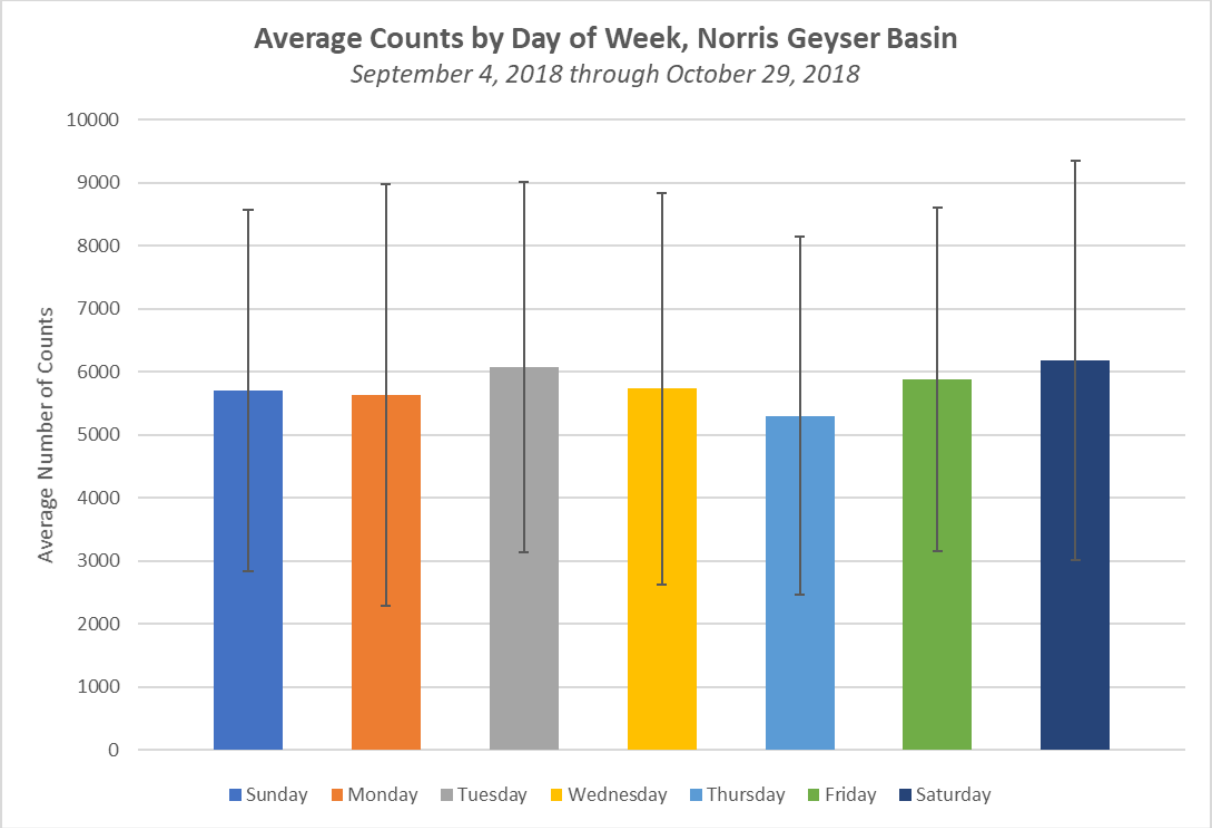


Figure F.9. Average number of counts, by day of week, at Norris Geyser Basin during the shoulder season. The vertical black bars extending above and below the top of the colored bars represent the standard deviation for the estimate of the mean for each day.

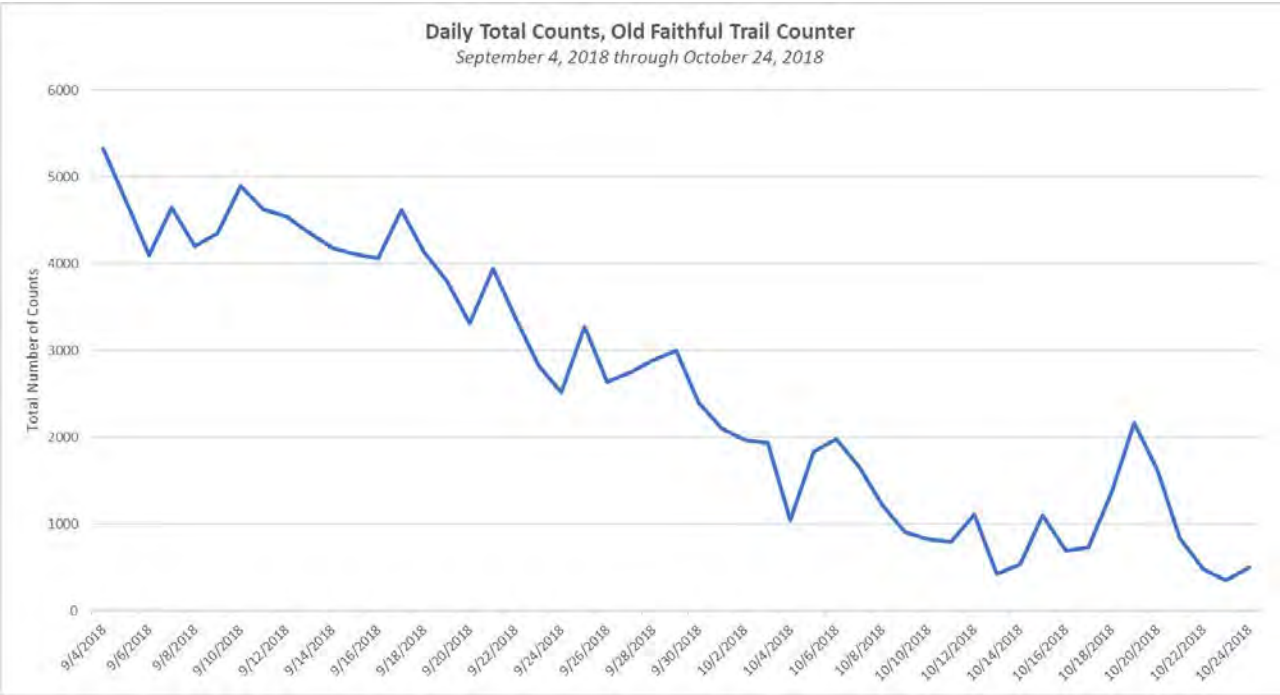


Figure F.10. Daily total number of counts at the Old Faithful counter location during the shoulder season.

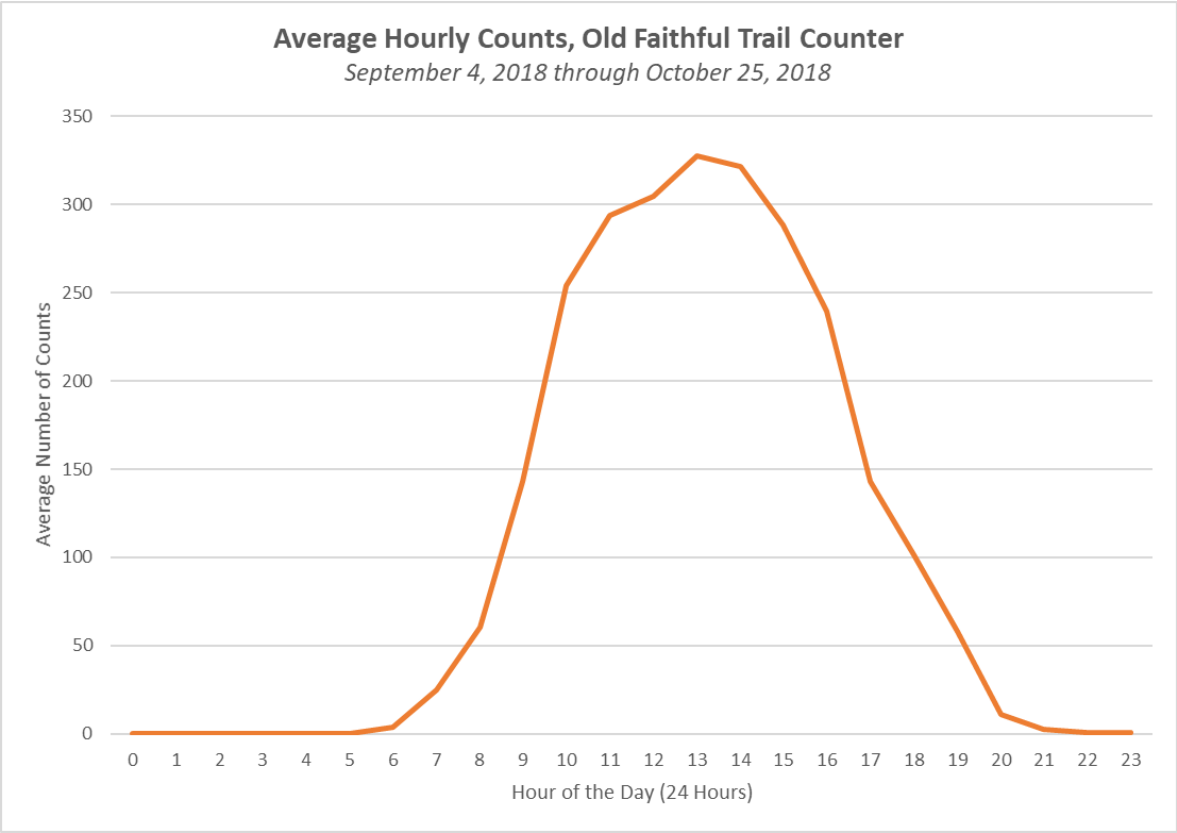


Figure F.11. Average number of hourly counts at the Old Faithful counter location during the shoulder season.

Table F.7. Average number of hourly counts during the shoulder season at the Old Faithful counter location. SD = standard deviation; N = sample size.

Hour	Average	±SD	N
0:00	0	1	52
1:00	0	1	52
2:00	0	0	52
3:00	0	0	52
4:00	0	1	52
5:00	0	1	52
6:00	3	4	52
7:00	25	21	52
8:00	60	48	52
9:00	143	112	52
10:00	254	180	51
11:00	294	182	51
12:00	305	181	51
13:00	327	178	51
14:00	322	185	51
15:00	288	172	51
16:00	239	150	51
17:00	143	86	51
18:00	101	70	51
19:00	58	59	51
20:00	11	17	51
21:00	2	4	51
22:00	1	1	51
23:00	1	2	51

Table F.8. Average number of daily counts by day of week during the shoulder season at the Old Faithful counter location.

Day	Average	±SD	N
Sunday	2379	1485	7
Monday	2418	1734	7
Tuesday	2660	1937	8
Wednesday	2462	1736	8
Thursday	2533	1473	7
Friday	2965	1331	7
Saturday	2671	1394	7

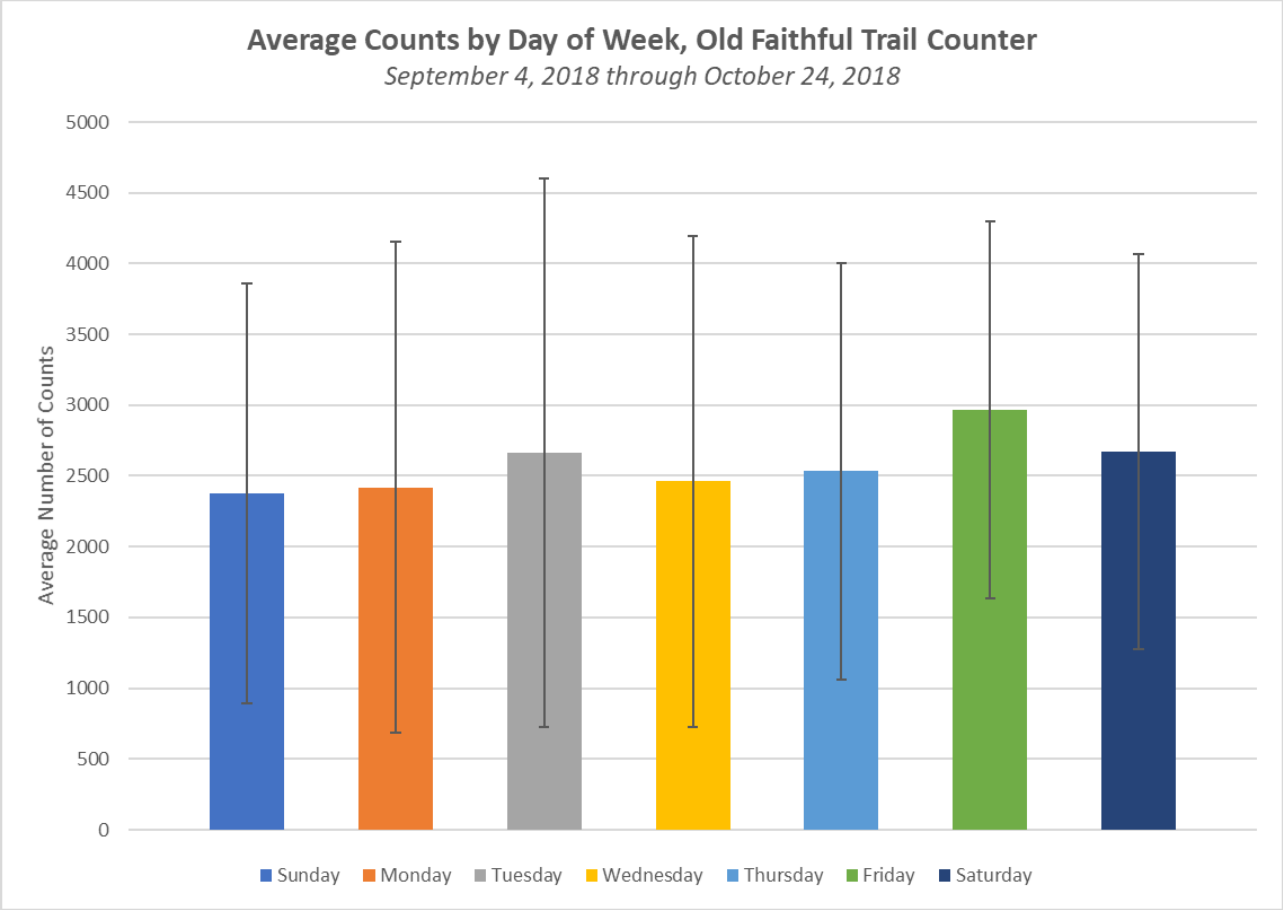


Figure F.12. Average number of counts, by day of week, at the Old Faithful counter location during the shoulder season. The vertical black bars extending above and below the top of the colored bars represent the standard deviation for the estimate of the mean for each day.

Appendix G: Summary Figures for Trail Counters Located Outside YCC Focal Attraction Sites

See map on second page for location of 2018 counters.

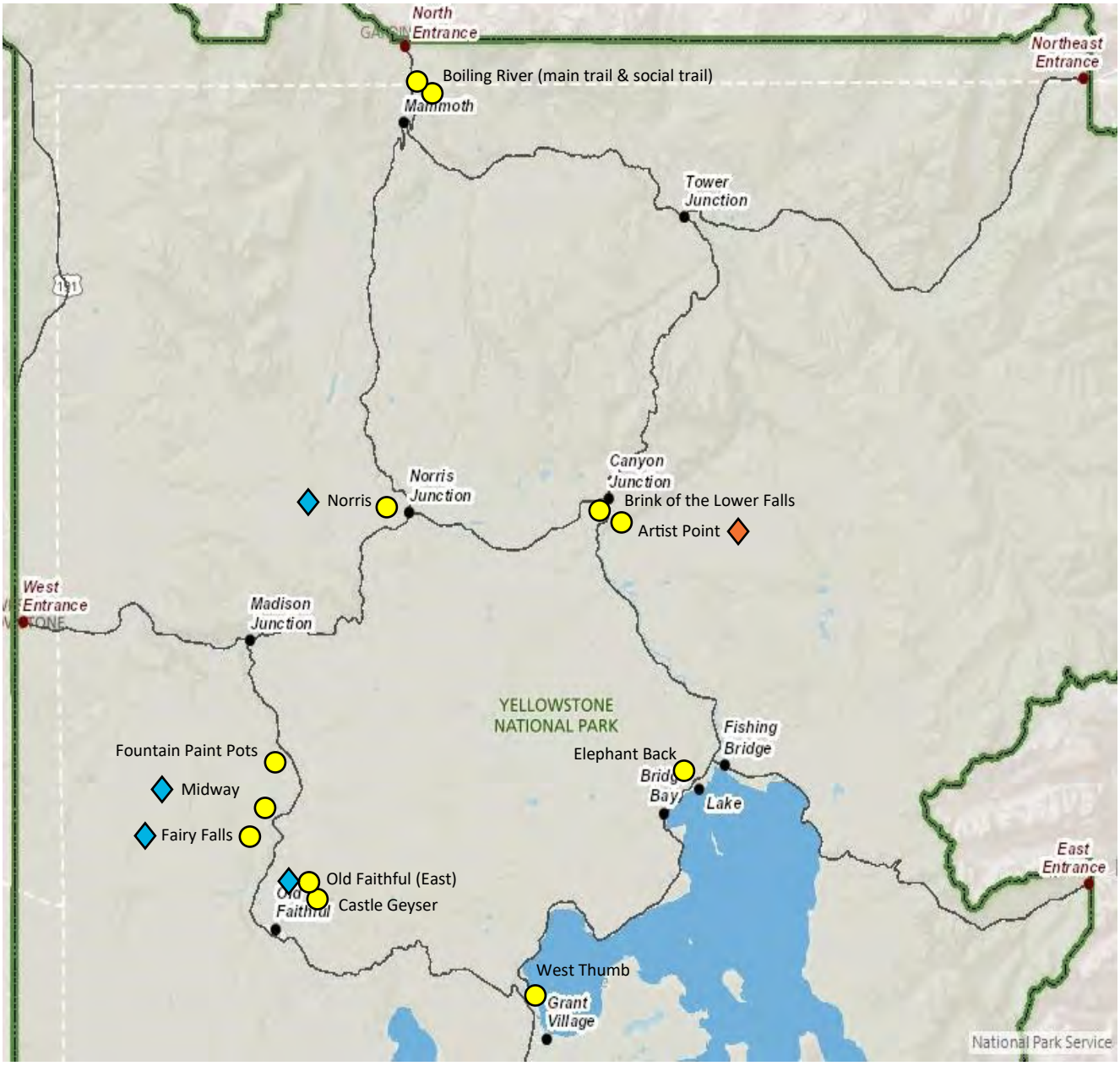
Table G. 1. Table of Calibration Coefficients for Extra Counters Deployed in 2018

Counter Location	Calibration Coefficient	Coefficient Standard Error	R Squared (R^2)	Hours of Calibration
Boiling River – Trailhead	1.43		0.89	6
Boiling River – Social Trail from Campground*	NA	NA	NA	NA
Brink Lower Falls	1.29	0.06	0.99	6
Canyon Artist Point	1.86	0.08	0.99	6
Castle	0.93	0.13	0.93	5
West Thumb	0.68	0.10	0.96	3
Lower Geyser Basin/Fountain Paint Pots	1.95	0.15	1.00	6
Elephant Back**	NA	NA	NA	NA

*Calibration data were not collected at the Boiling River – Social Trail from Campground location. However, an outlier analysis was performed to remove outliers suspected to by caused by interference from nearby vegetation due to the counter's placement.

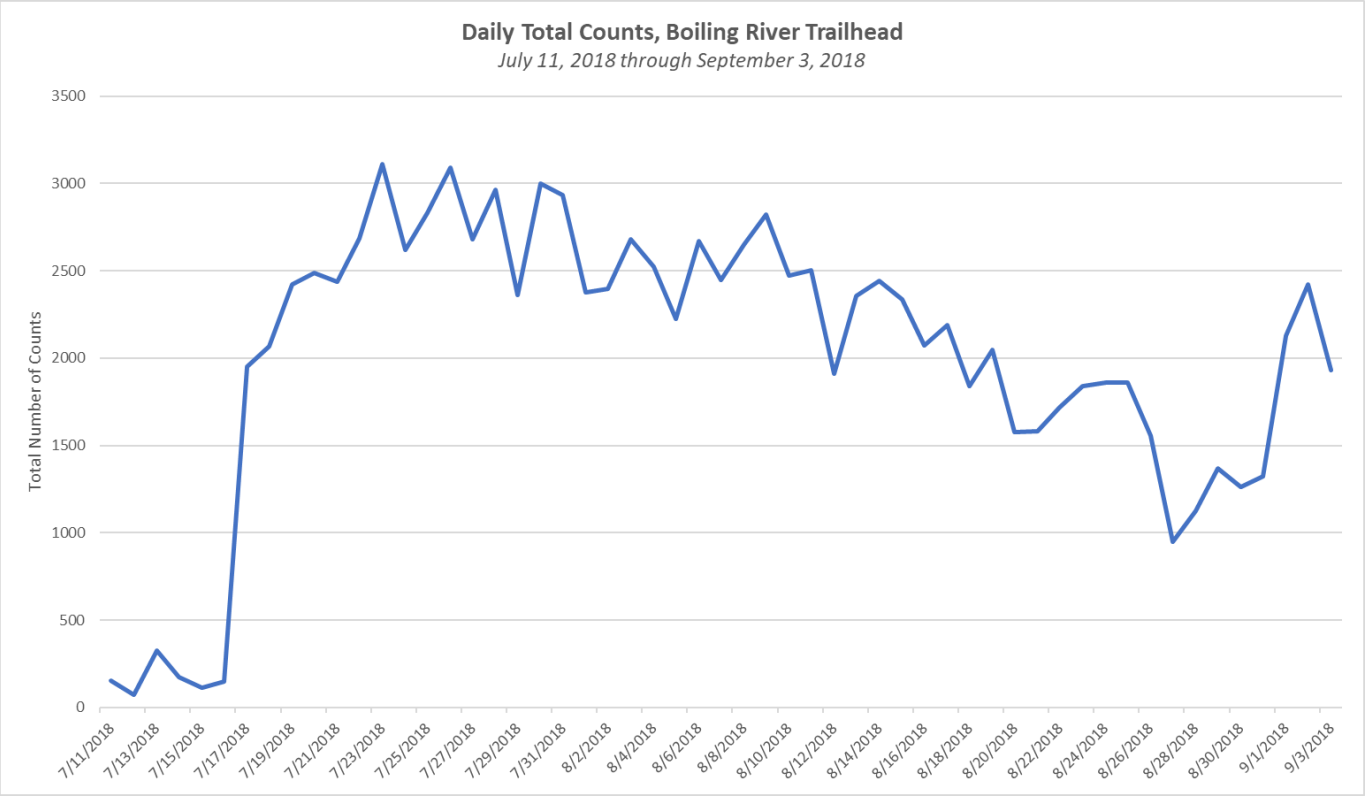
**Calibration data were not collected at the Elephant Back counter location; therefore, presented data are uncalibrated, meaning that the error inherent in the counter has not been corrected for in the presented data.

2017 and 2018 Summer Visitor Use and Resource Impacts Monitoring Locations



- 2017 YCC Data Collection
- 2017 & 2018 YCC Data Collection
- 2018 Trail Counter

Boiling River Trailhead – Peak



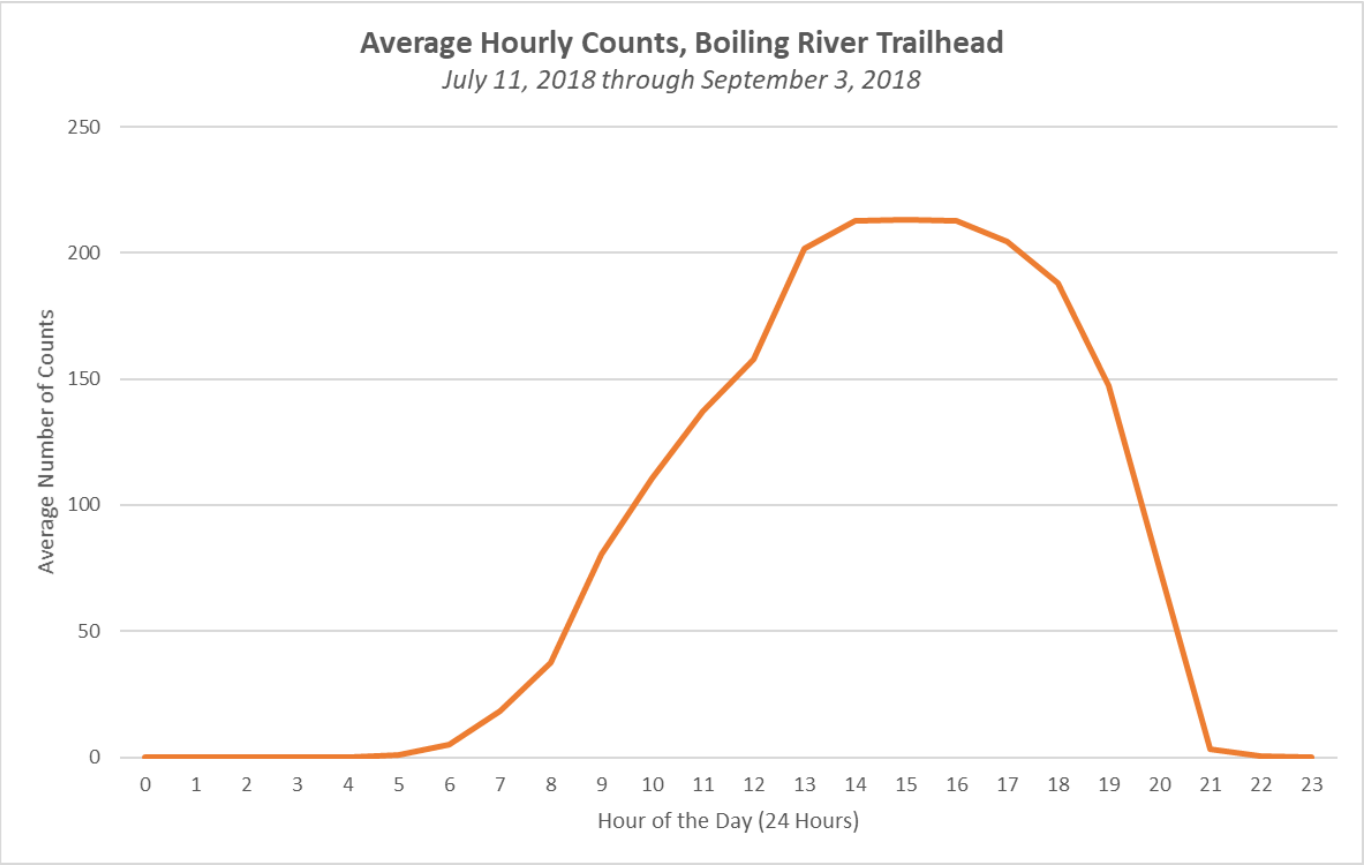
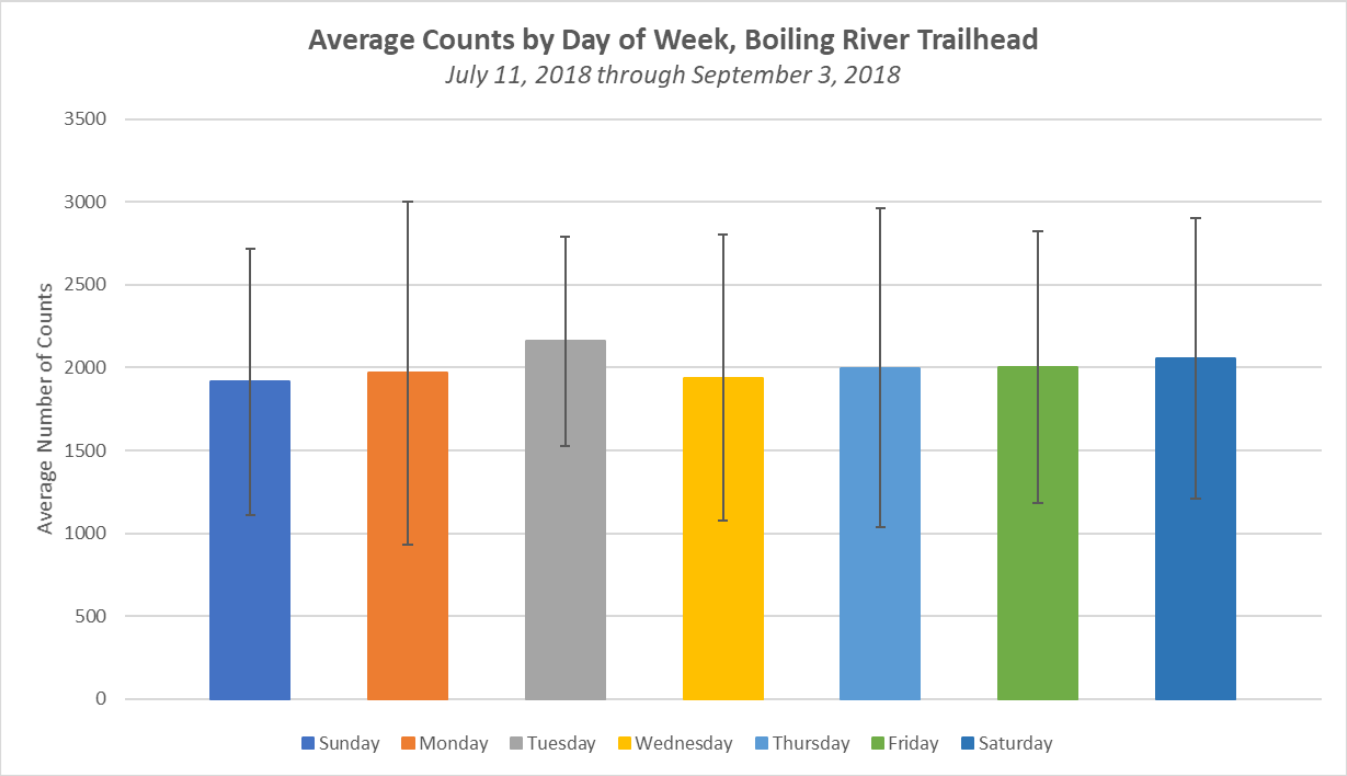


Table G.2. Average number of hourly counts during the peak season at the Boiling River Trailhead. SD = standard deviation; N = sample size.

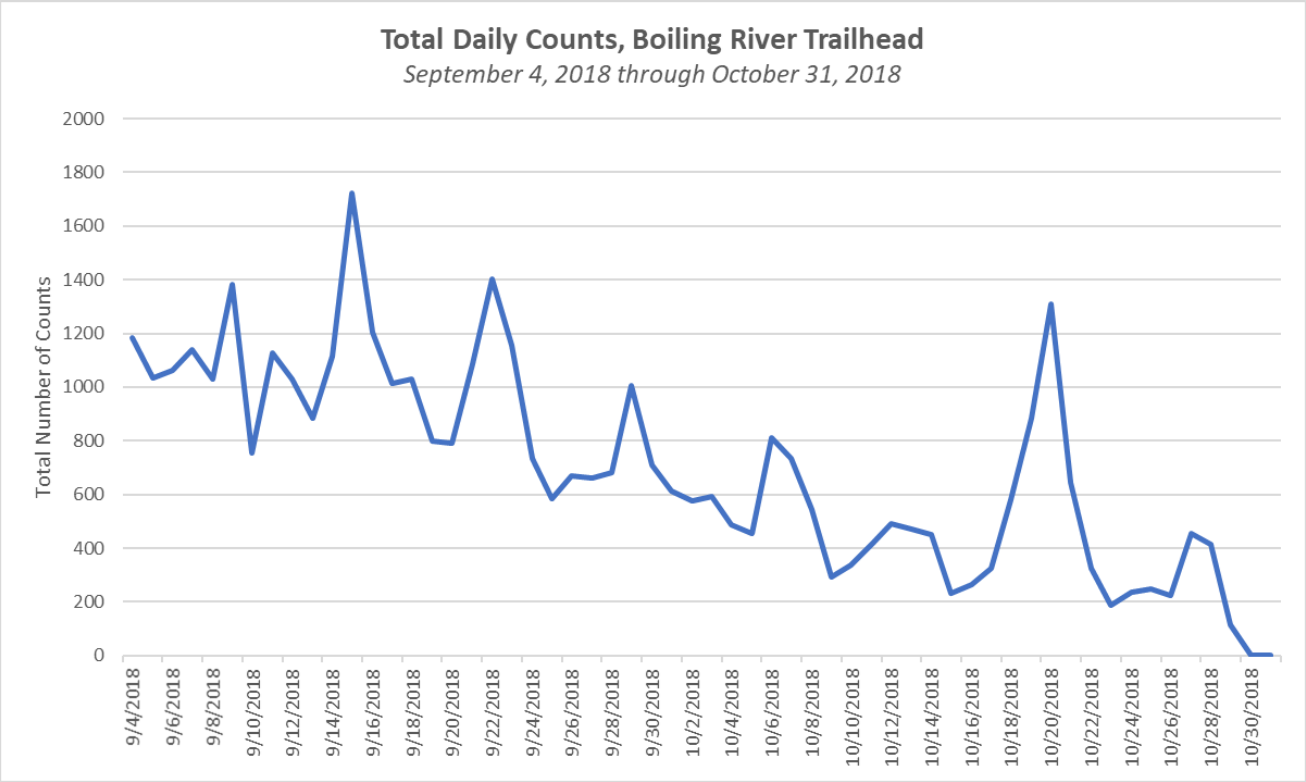
Hour	Average	±SD	N*
0:00	0	1	54
1:00	0	0	54
2:00	0	1	54
3:00	0	1	54
4:00	0	0	54
5:00	1	2	54
6:00	5	4	54
7:00	19	13	54
8:00	38	20	54
9:00	81	35	54
10:00	111	50	53
11:00	137	62	55
12:00	158	72	55
13:00	202	101	55
14:00	213	104	55
15:00	213	93	55
16:00	213	90	55
17:00	205	85	55
18:00	188	81	55
19:00	147	70	55
20:00	75	51	55
21:00	3	7	55
22:00	1	1	55
23:00	0	0	55

Table G.3. Average number of daily counts by day of week during the peak season at the Boiling River Trailhead.

Day	Average	±SD	N*
Sunday	1915	804	8
Monday	1968	1036	8
Tuesday	2158	635	7
Wednesday	1938	865	8
Thursday	1997	963	8
Friday	2003	819	8
Saturday	2053	847	8



Boiling River Trailhead – Shoulder



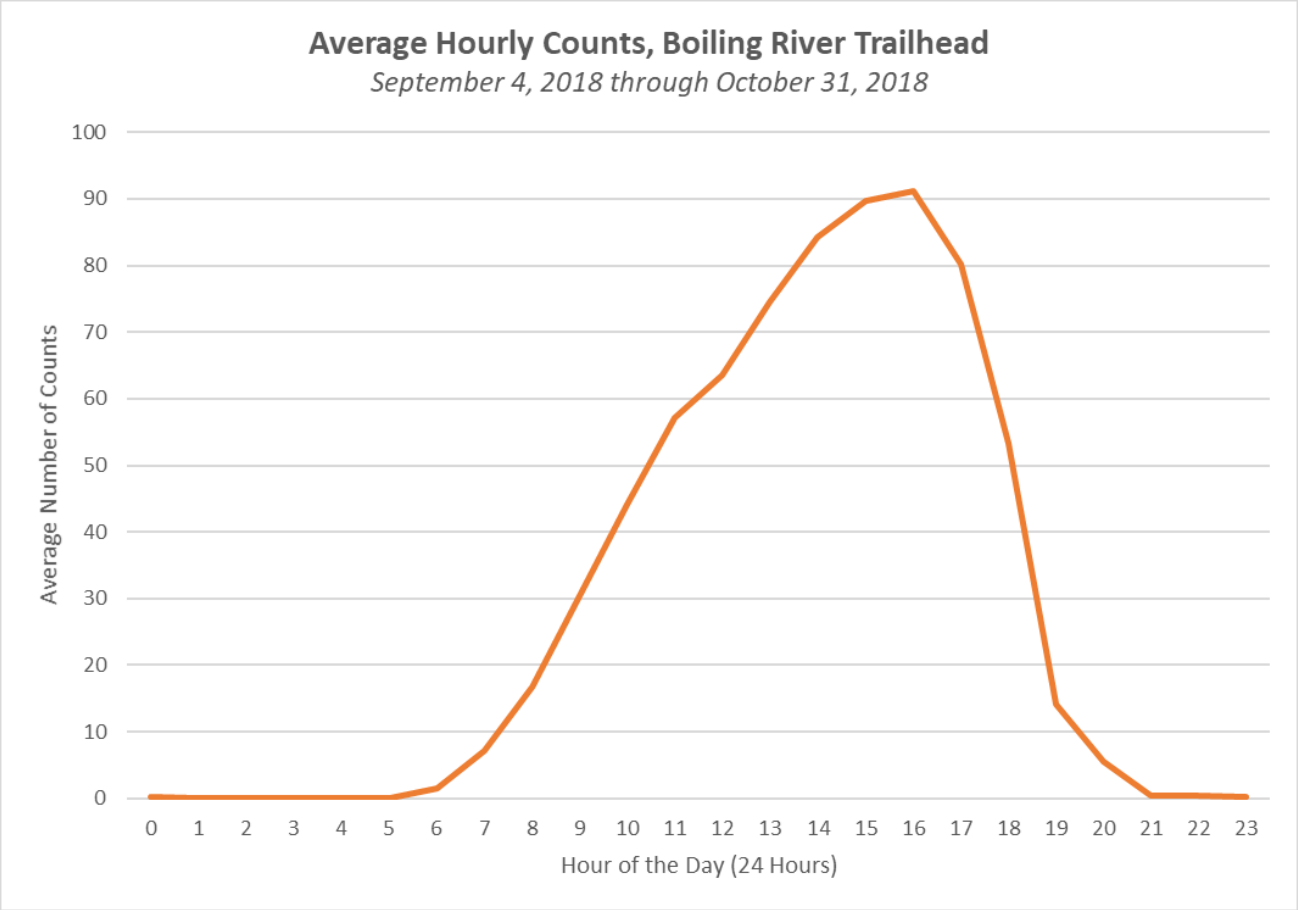
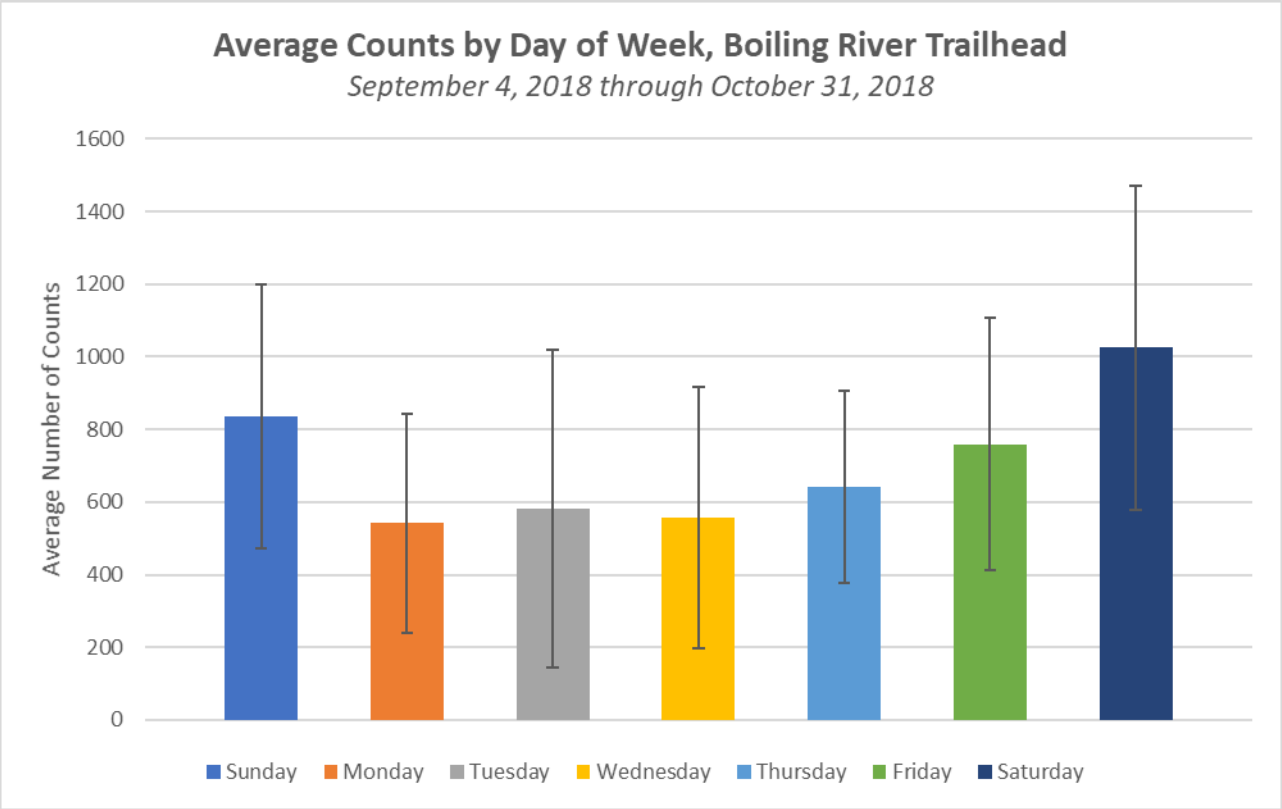


Table G.4. Average number of hourly counts during the shoulder season at the Boiling River Trailhead. SD = standard deviation; N = sample size.

Hour	Average	±SD	N*
0:00	0	1	57
1:00	0	0	58
2:00	0	1	58
3:00	0	0	58
4:00	0	0	58
5:00	0	0	58
6:00	1	3	58
7:00	7	8	58
8:00	17	12	57
9:00	30	18	58
10:00	44	26	58
11:00	57	36	57
12:00	63	35	57
13:00	75	46	57
14:00	84	48	57
15:00	90	49	57
16:00	91	48	57
17:00	80	43	57
18:00	53	39	57
19:00	14	24	57
20:00	6	10	57
21:00	0	2	57
22:00	0	2	57
23:00	0	1	56

Table G.5. Average number of daily counts by day of week during the shoulder season at the Boiling River Trailhead.

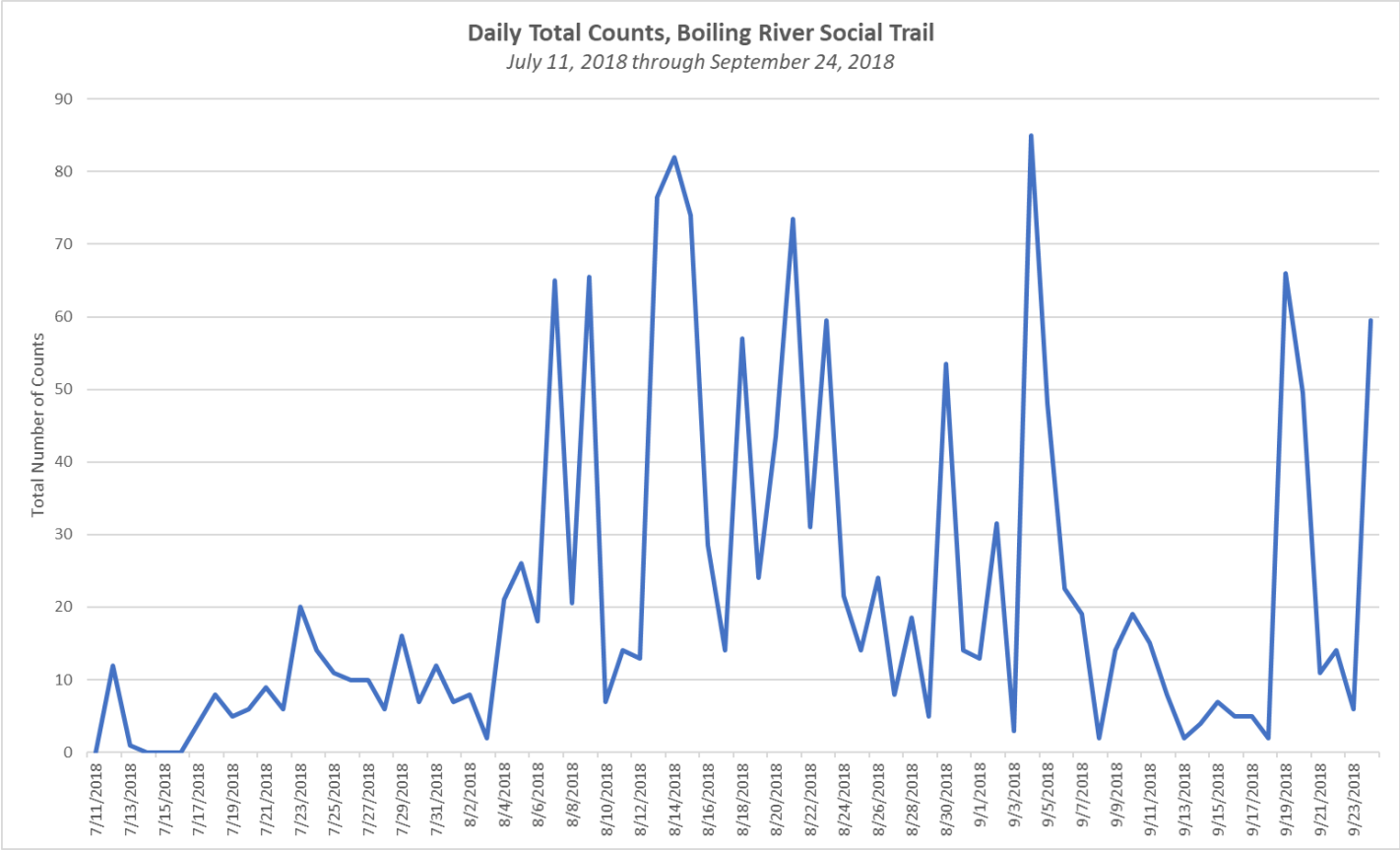
Day	Average	±SD	N*
Sunday	837	363	8
Monday	542	301	8
Tuesday	583	438	9
Wednesday	558	360	9
Thursday	642	265	8
Friday	759	349	8
Saturday	1025	446	8



Boiling River – Social Trail from Campground – UNCALIBRATED – All Data

Note 1: Data were only collected at this location through September 25, 2018 (partial day); therefore, data have been summarized for the entire collection period rather than by peak and shoulder use periods.

Note 2: Calibration data were not collected at this location. An outlier analysis was done to adjust collected counts for erroneous counts suspected to be the result of poor counter placement at this location (vegetation in area made counter placement difficult). Reported data are not calibrated but have been adjusted for outliers.



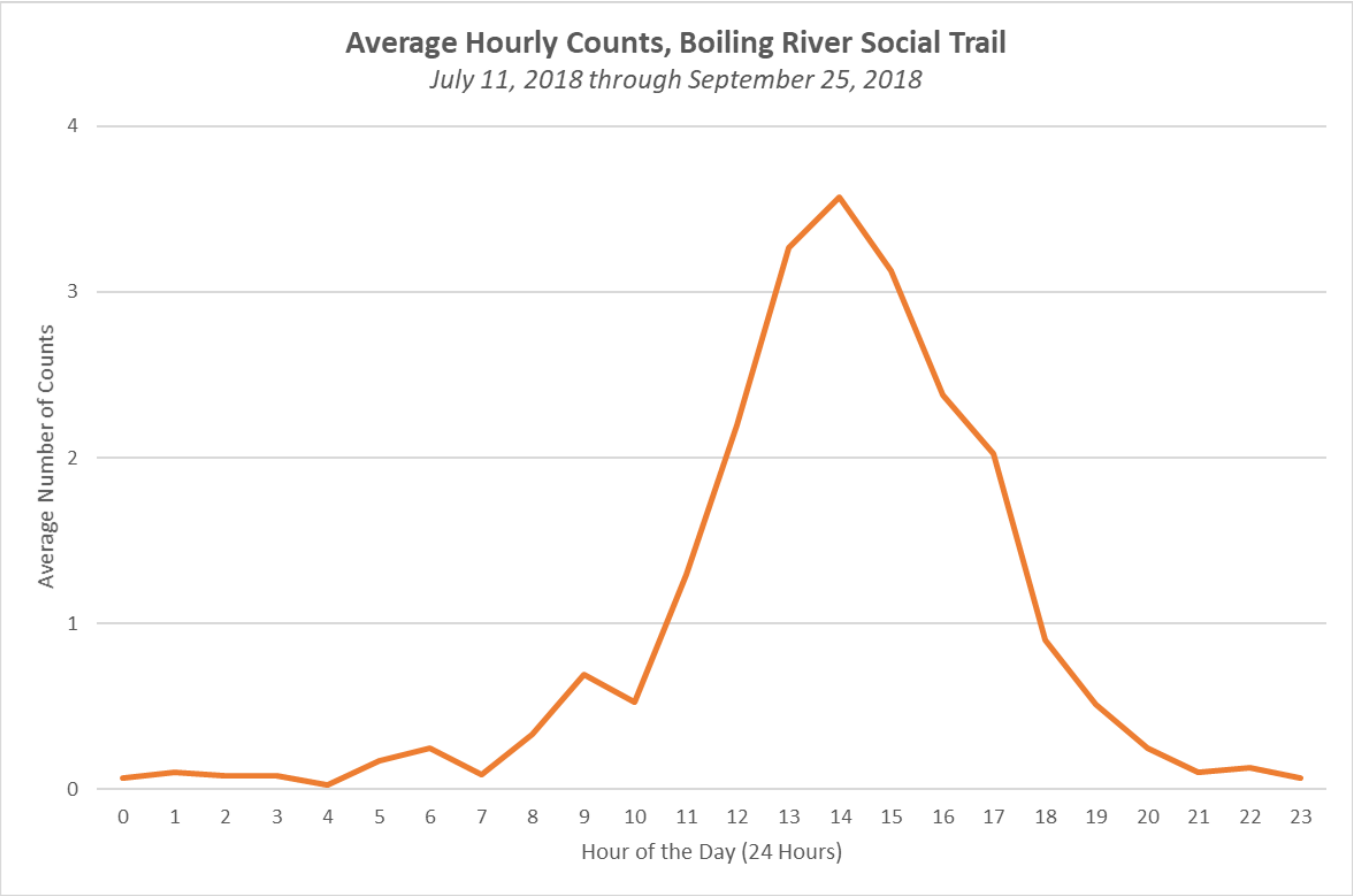
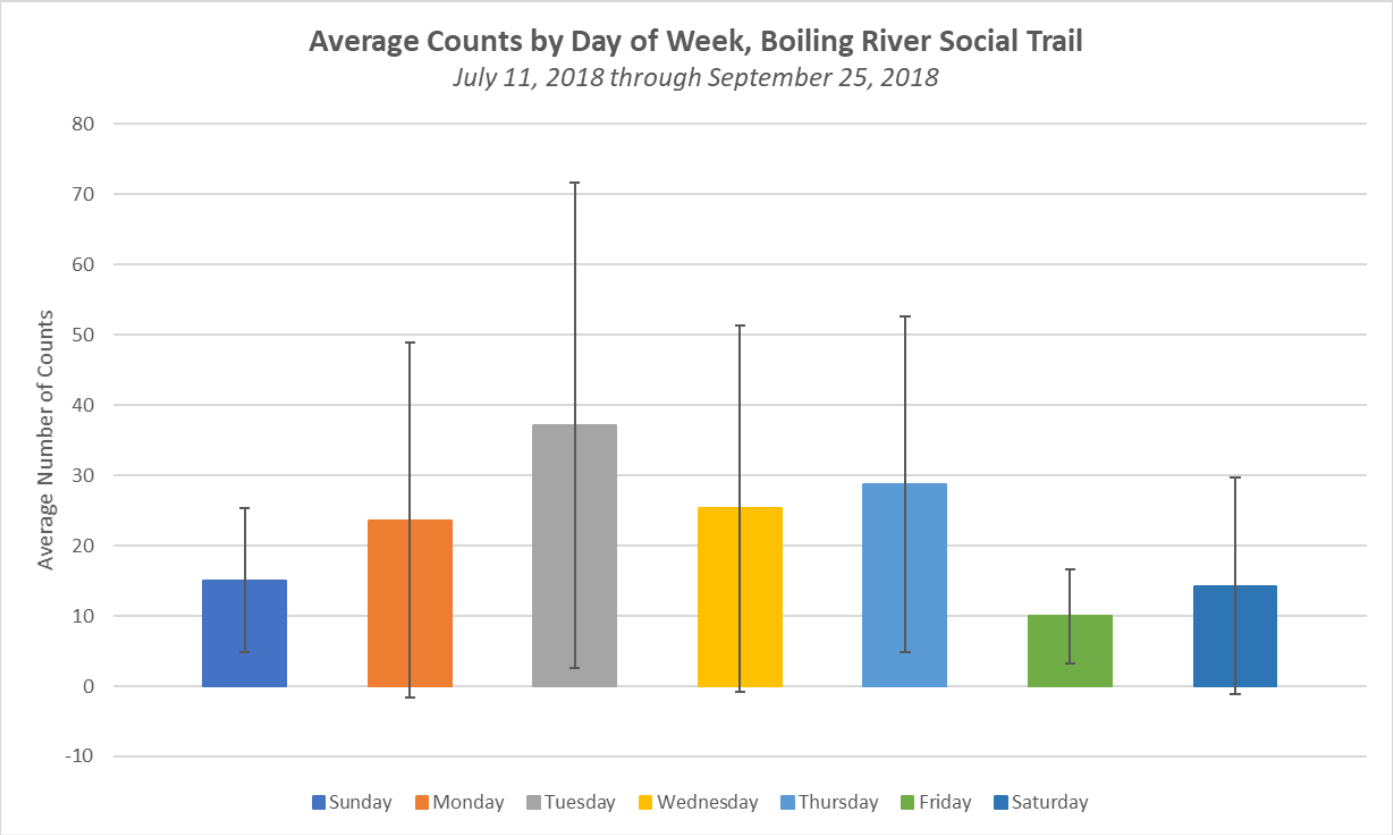

Average Hourly Counts, Boiling River Social Trail
July 11, 2018 through September 25, 2018
Average Number of Counts
0
1
2
3
4
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Hour of the Day (24 Hours)

Table G.6. Average number of hourly counts during at the Boiling River Social Trail from the Campground. SD = standard deviation; N = sample size.

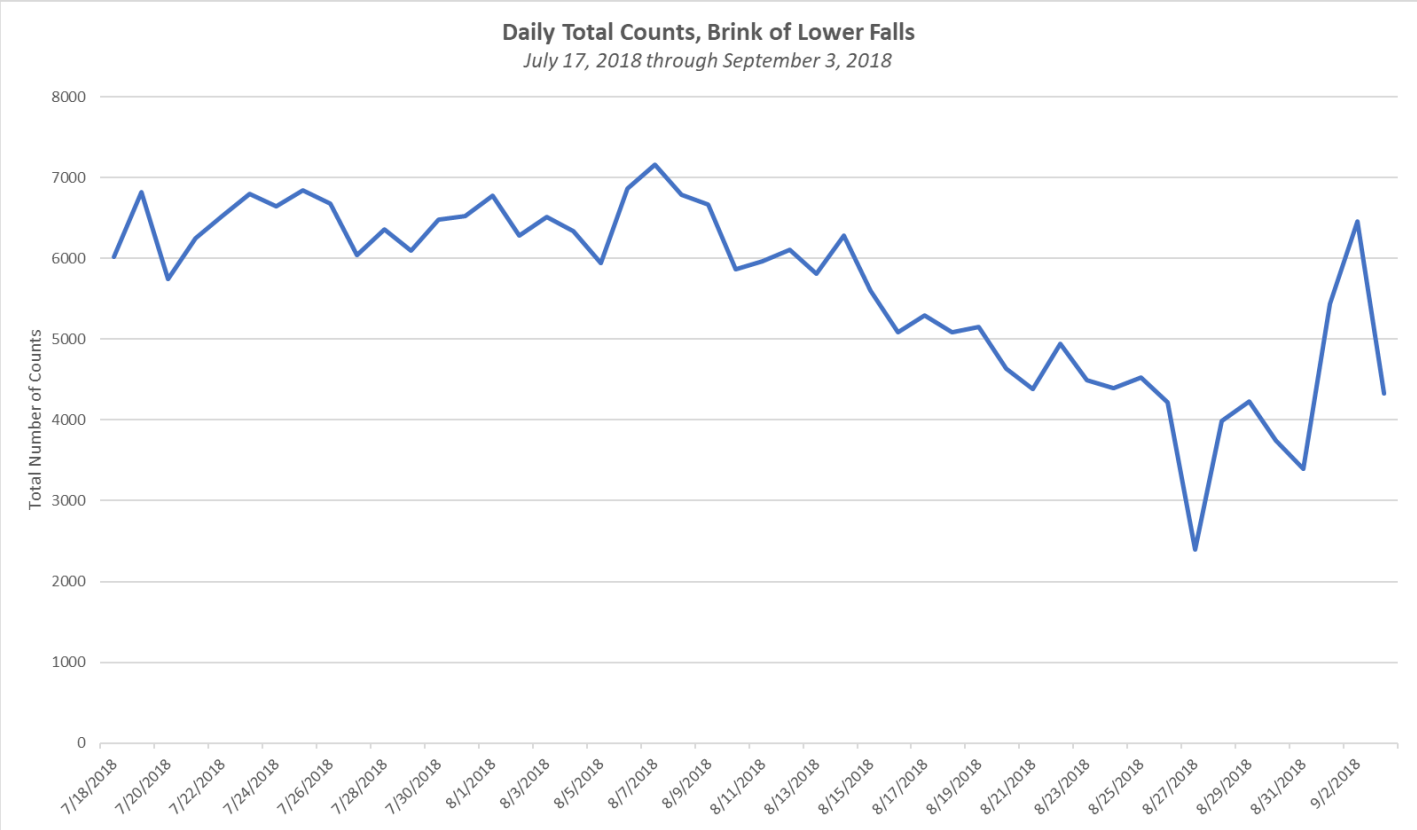
Hour	Average	±SD	N*
0:00	0	0	75
1:00	0	0	76
2:00	0	0	76
3:00	0	0	76
4:00	0	0	76
5:00	0	1	76
6:00	0	1	76
7:00	0	1	76
8:00	0	1	76
9:00	1	2	75
10:00	1	2	75
11:00	1	3	77
12:00	2	4	78
13:00	3	5	77
14:00	4	5	77
15:00	3	5	77
16:00	2	5	76
17:00	2	4	76
18:00	1	2	76
19:00	1	1	76
20:00	0	1	76
21:00	0	0	76
22:00	0	0	76
23:00	0	0	76

Table G.7. Average number of daily counts by day of week at the Boiling River Social Trail from the Campground.

Day	Average	±SD	N*
Sunday	15	10	11
Monday	24	25	11
Tuesday	37	35	10
Wednesday	25	26	11
Thursday	29	24	11
Friday	10	7	11
Saturday	14	15	11



Brink of Lower Falls – Peak



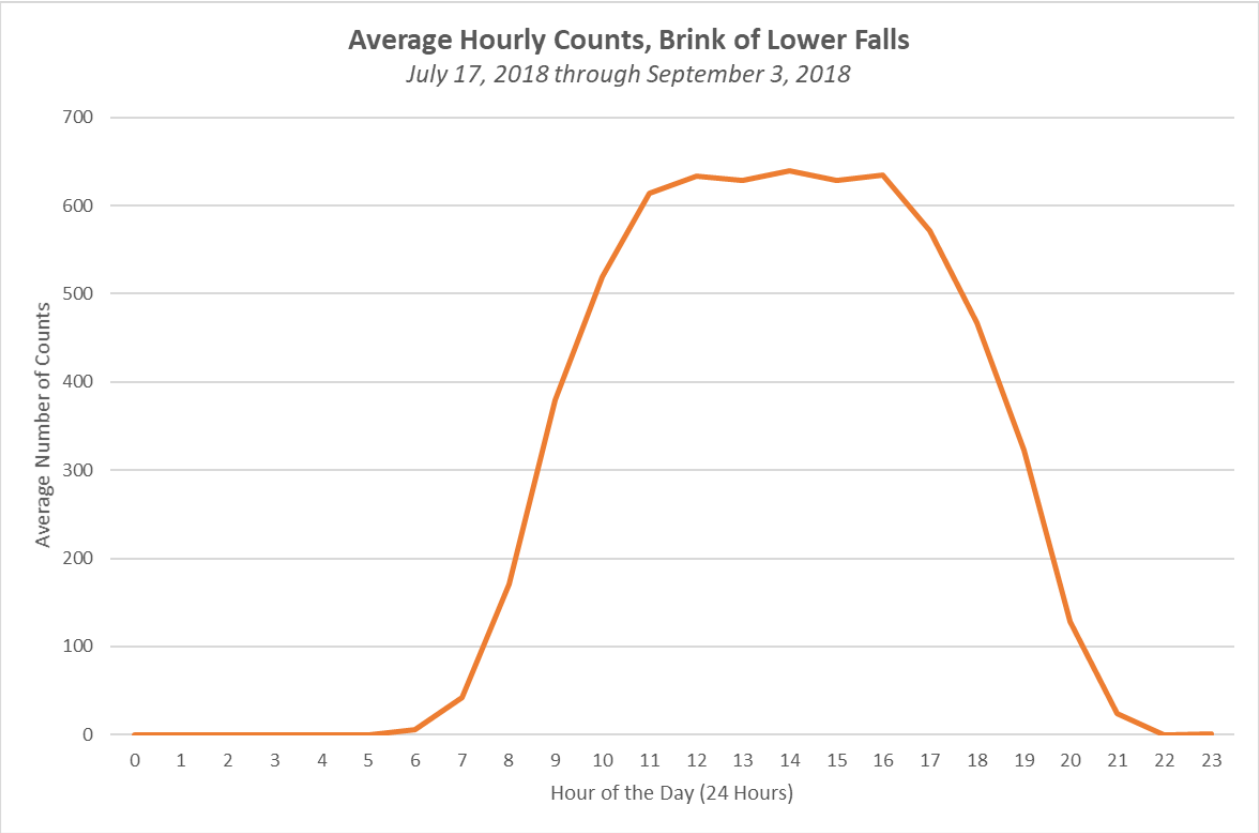
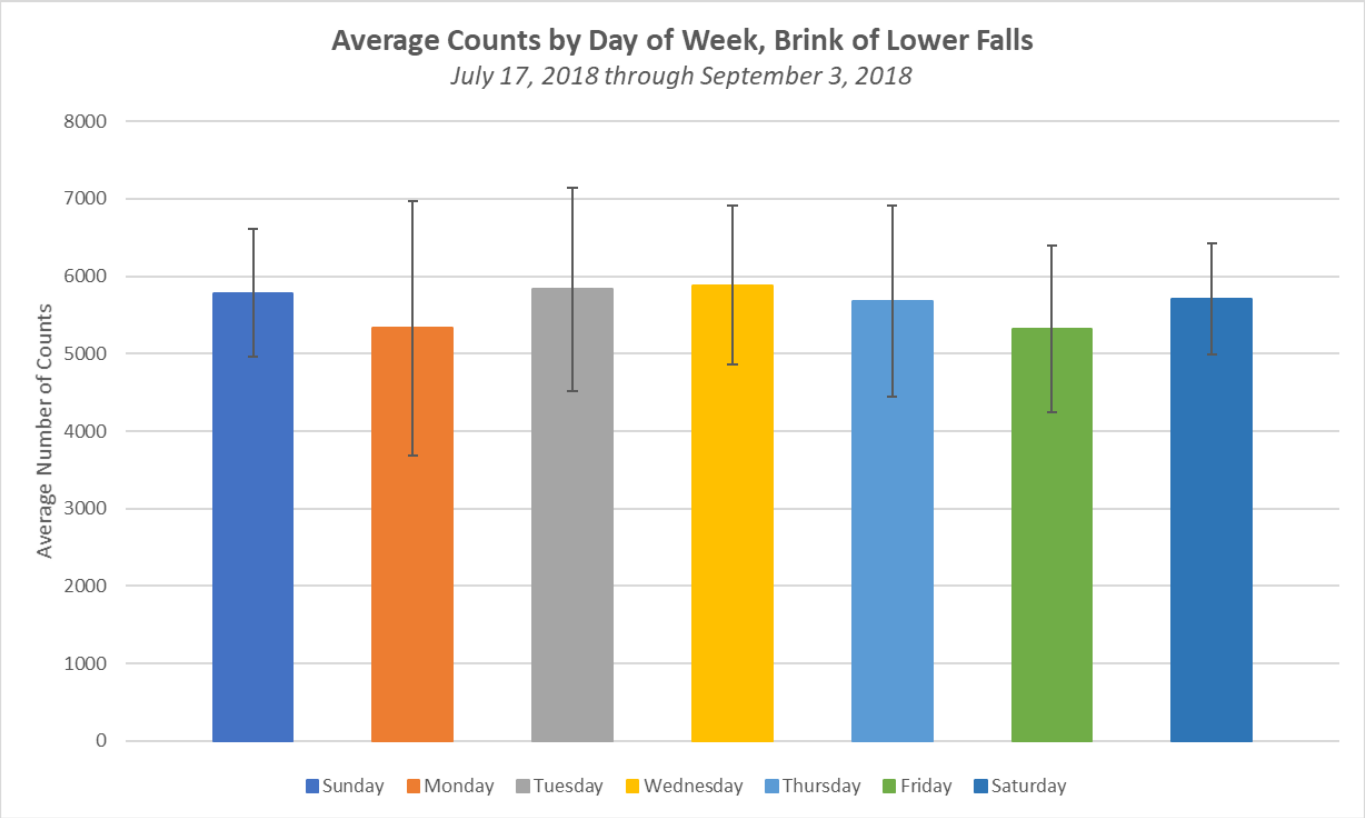


Table 6.6. Average number of hourly counts during the peak season at the Brink of the Lower Falls. SD = standard deviation; N = sample size.

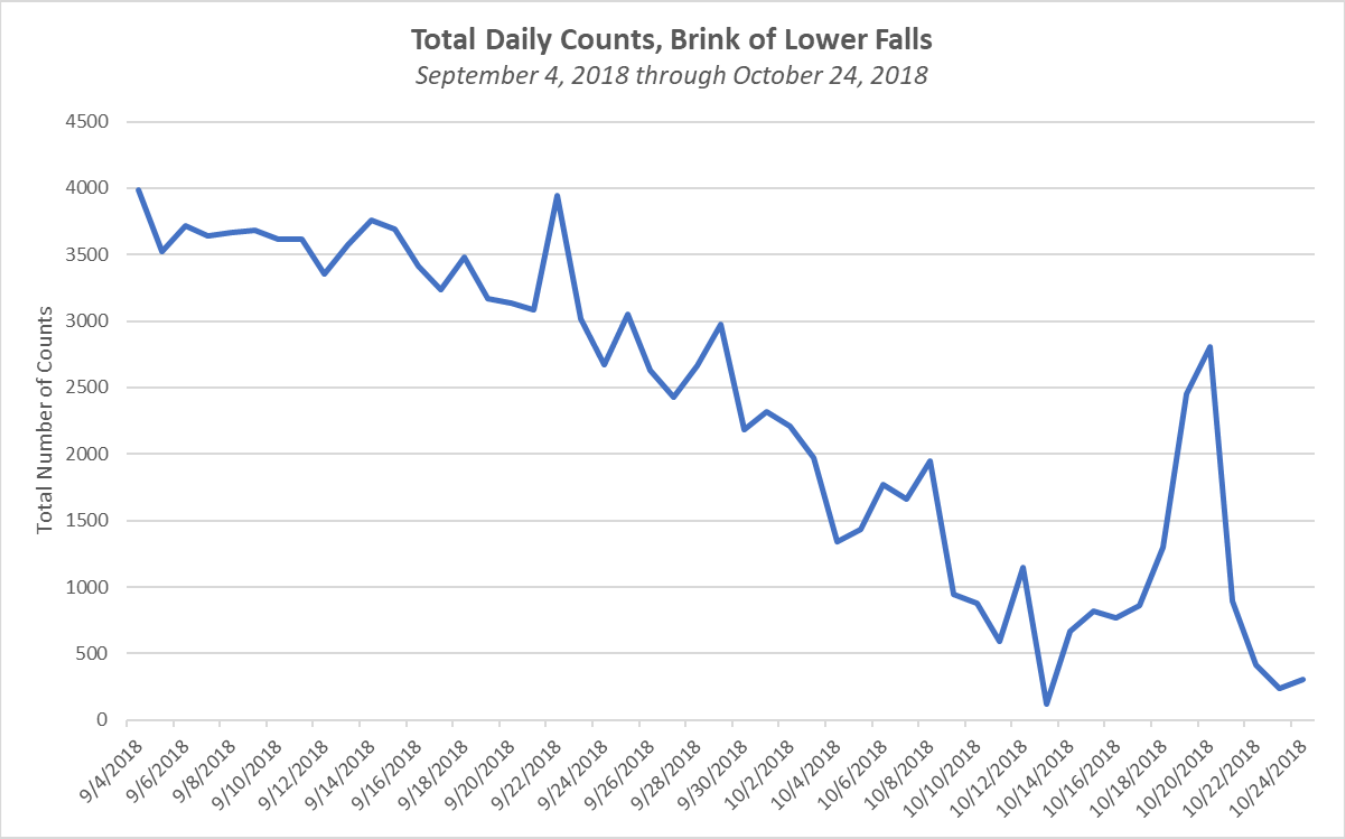
Hour	Average	±SD	N*
0:00	0	0	48
1:00	0	1	48
2:00	0	1	48
3:00	0	0	48
4:00	0	0	48
5:00	0	1	48
6:00	6	5	48
7:00	43	27	48
8:00	171	48	48
9:00	379	60	48
10:00	520	38	48
11:00	614	56	49
12:00	633	69	49
13:00	629	58	49
14:00	639	42	49
15:00	629	58	48
16:00	635	52	49
17:00	572	72	49
18:00	467	72	49
19:00	323	54	49
20:00	129	40	49
21:00	24	18	49
22:00	0	1	49
23:00	1	1	49

Table 6.7. Average number of daily counts by day of week during the peak season at the Brink of the Lower Falls.

Day	Average	±SD	N*
Sunday	5785	825	7
Monday	5332	1640	7
Tuesday	5830	1312	6
Wednesday	5887	1022	7
Thursday	5684	1233	7
Friday	5322	1079	7
Saturday	5709	712	7



Brink of Lower Falls – Shoulder



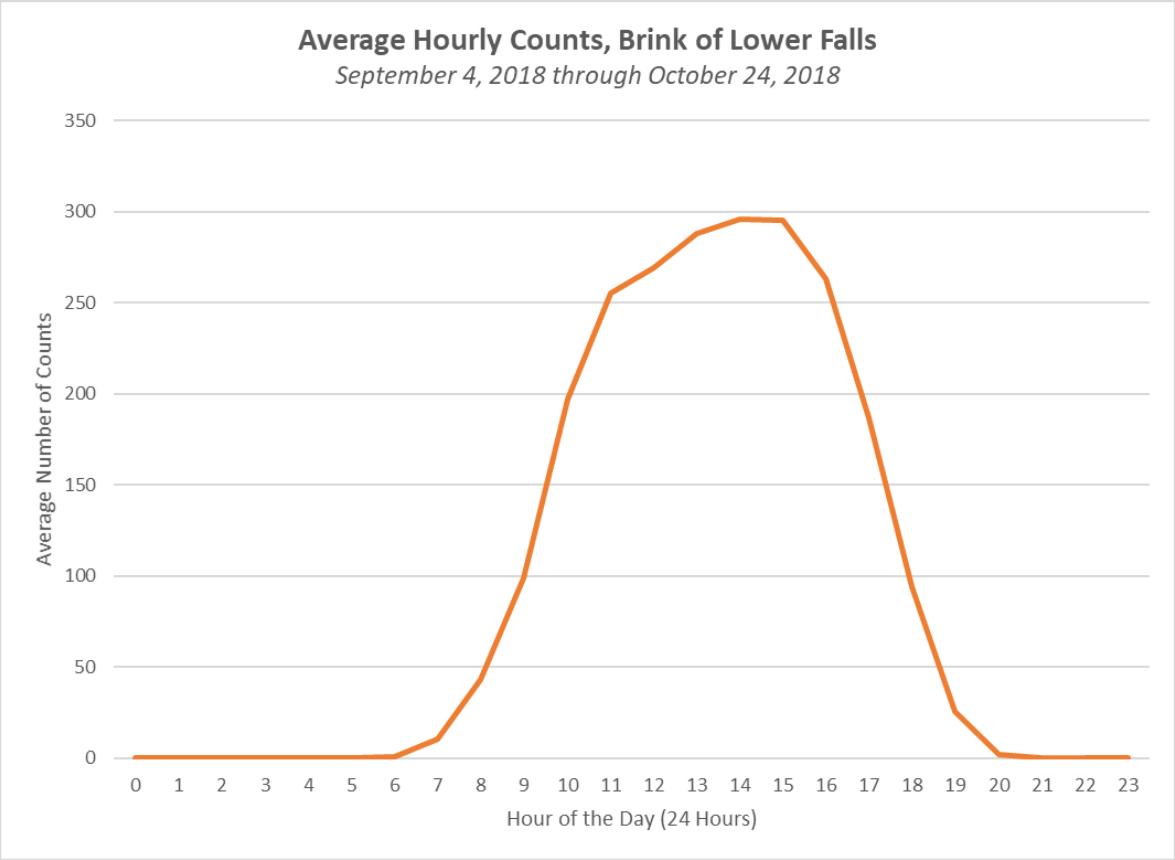
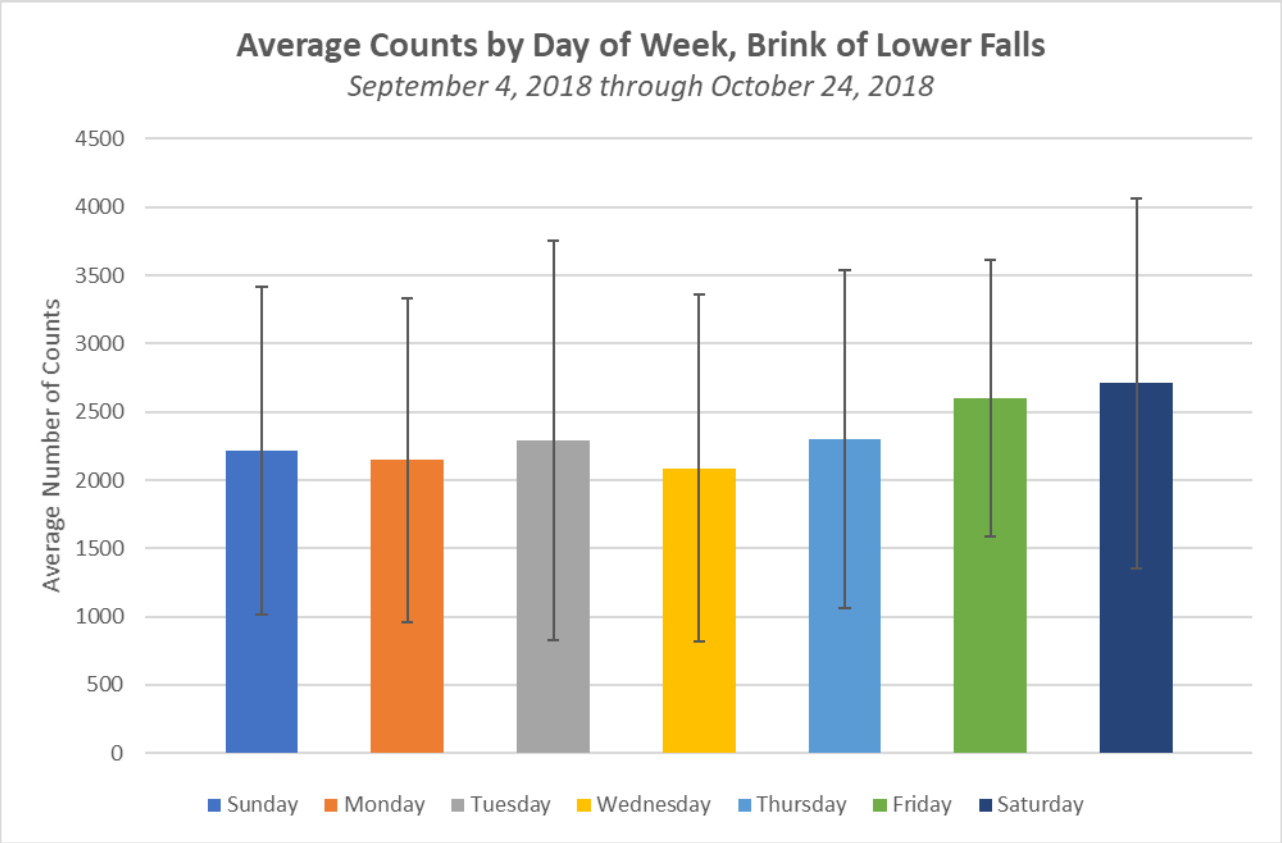


Table G.8. Average number of hourly counts during the shoulder season at the Brink of the Lower Falls. SD = standard deviation; N = sample size.

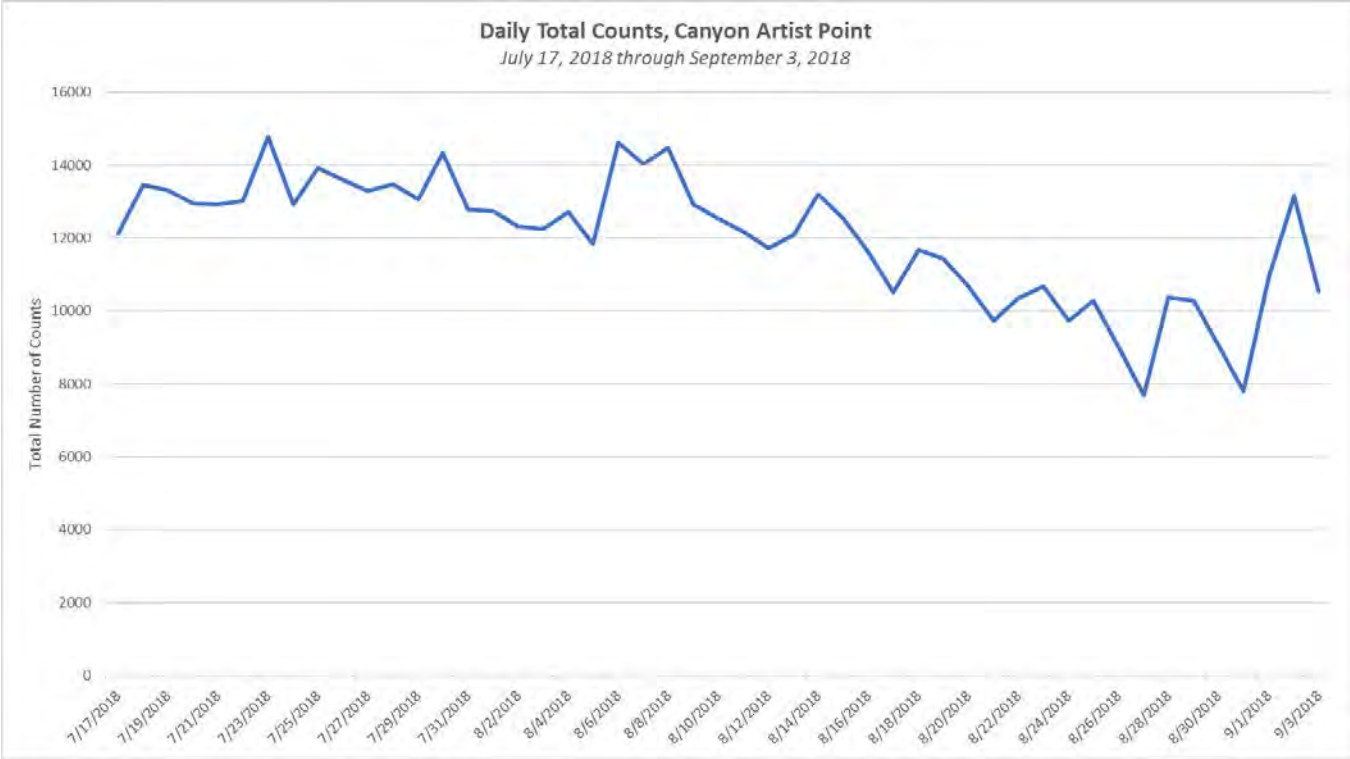
Hour	Average	±SD	N*
0:00	0	0	50
1:00	0	0	51
2:00	0	0	51
3:00	0	0	51
4:00	0	0	51
5:00	0	0	51
6:00	1	2	51
7:00	11	14	51
8:00	43	43	50
9:00	99	75	50
10:00	197	122	51
11:00	255	137	51
12:00	269	141	52
13:00	288	139	51
14:00	296	142	51
15:00	295	137	51
16:00	263	136	51
17:00	187	107	51
18:00	94	68	51
19:00	26	29	51
20:00	2	4	51
21:00	0	0	51
22:00	0	0	51
23:00	0	0	51

Table G.9. Average number of daily counts by day of week during the shoulder season at the Brink of the Lower Falls.

Day	Average	±SD	N*
Sunday	2216	1203	7
Monday	2146	1188	7
Tuesday	2287	1464	8
Wednesday	2085	1270	8
Thursday	2299	1238	7
Friday	2598	1014	7
Saturday	2709	1358	7



Canyon Artist Point – Peak



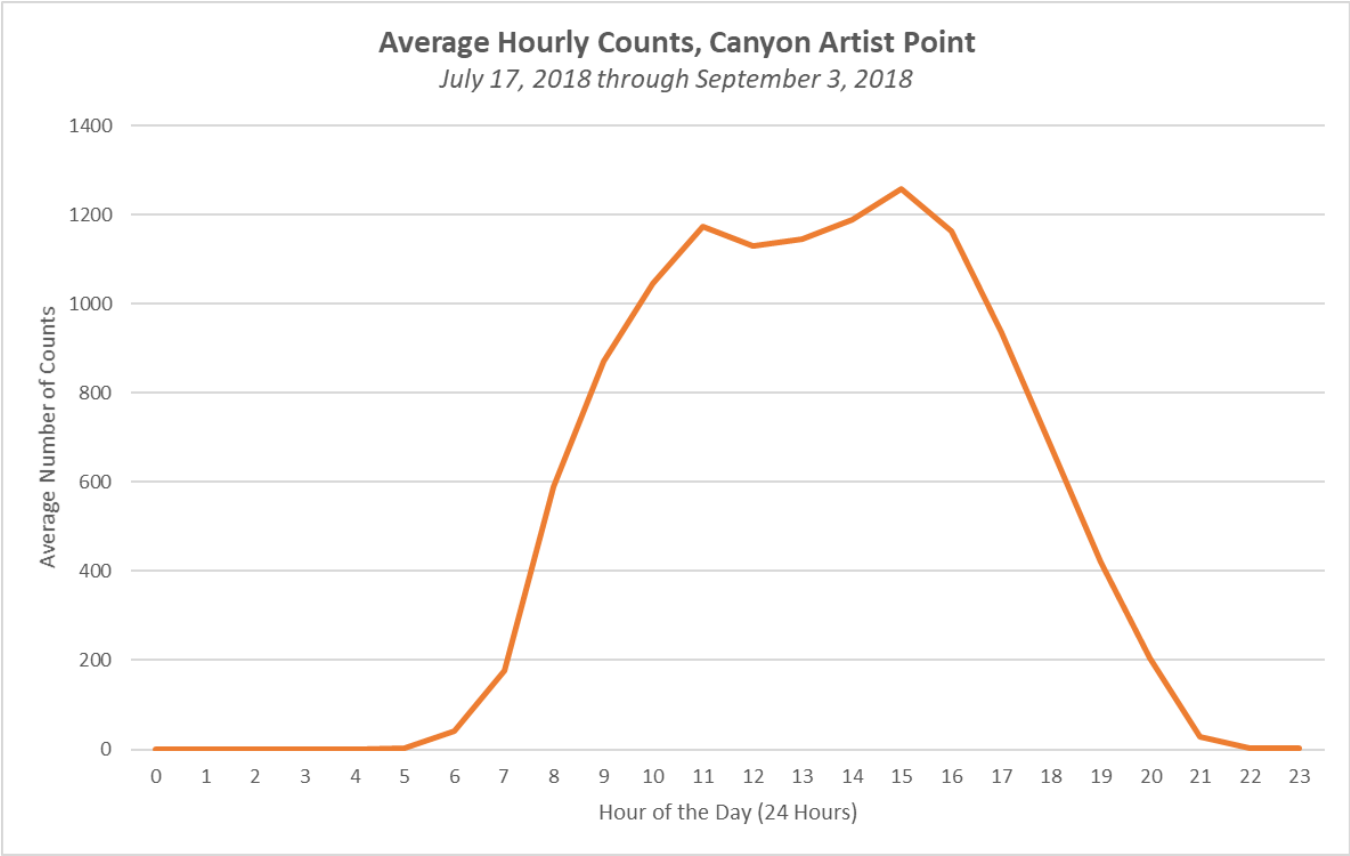
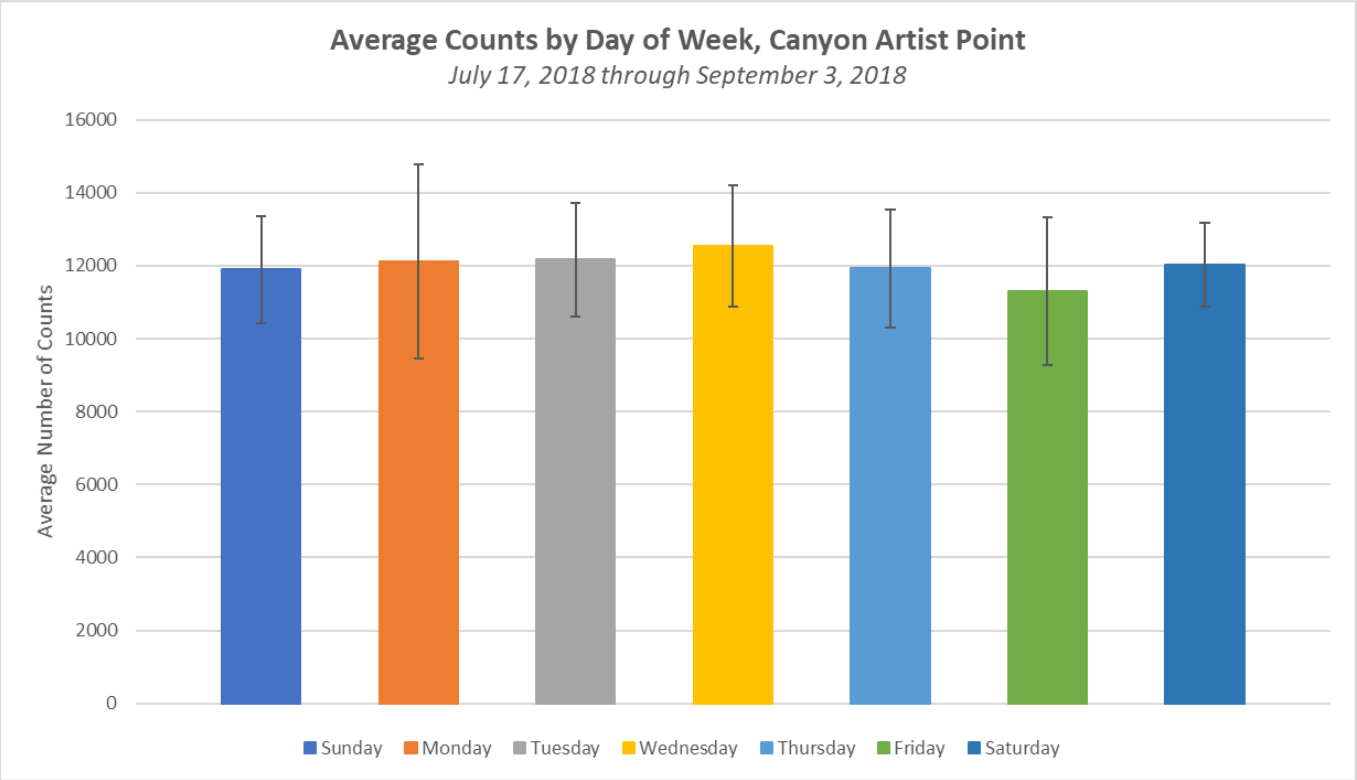


Table G.10. Average number of hourly counts during the peak season at Canyon Artist Point. SD = standard deviation; N = sample size.

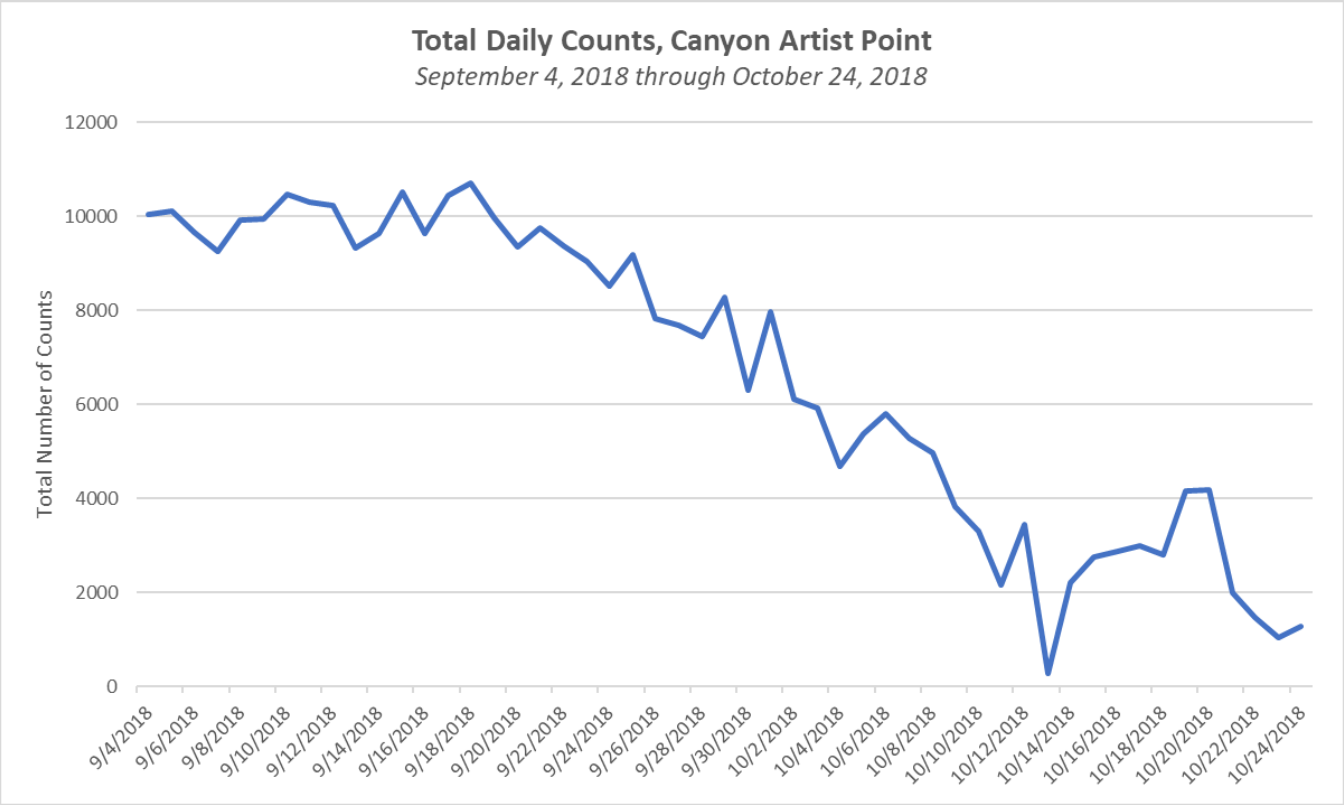
Hour	Average	±SD	N*
0:00	1	2	48
1:00	1	1	48
2:00	0	1	48
3:00	0	1	48
4:00	0	1	48
5:00	3	4	48
6:00	42	26	48
7:00	177	80	48
8:00	589	137	48
9:00	871	170	48
10:00	1046	139	49
11:00	1173	143	49
12:00	1129	198	49
13:00	1144	176	49
14:00	1189	208	49
15:00	1258	222	48
16:00	1163	200	49
17:00	934	172	49
18:00	681	165	49
19:00	420	145	49
20:00	204	120	49
21:00	28	32	49
22:00	2	4	49
23:00	2	3	49

Table G.11. Average number of daily counts by day of week during the peak season at Canyon Artist Point.

Day	Average	±SD	N*
Sunday	11894	1460	7
Monday	12110	2656	7
Tuesday	12167	1563	7
Wednesday	12540	1654	7
Thursday	11929	1626	7
Friday	11297	2018	7
Saturday	12031	1145	7



Canyon Artist Point – Shoulder



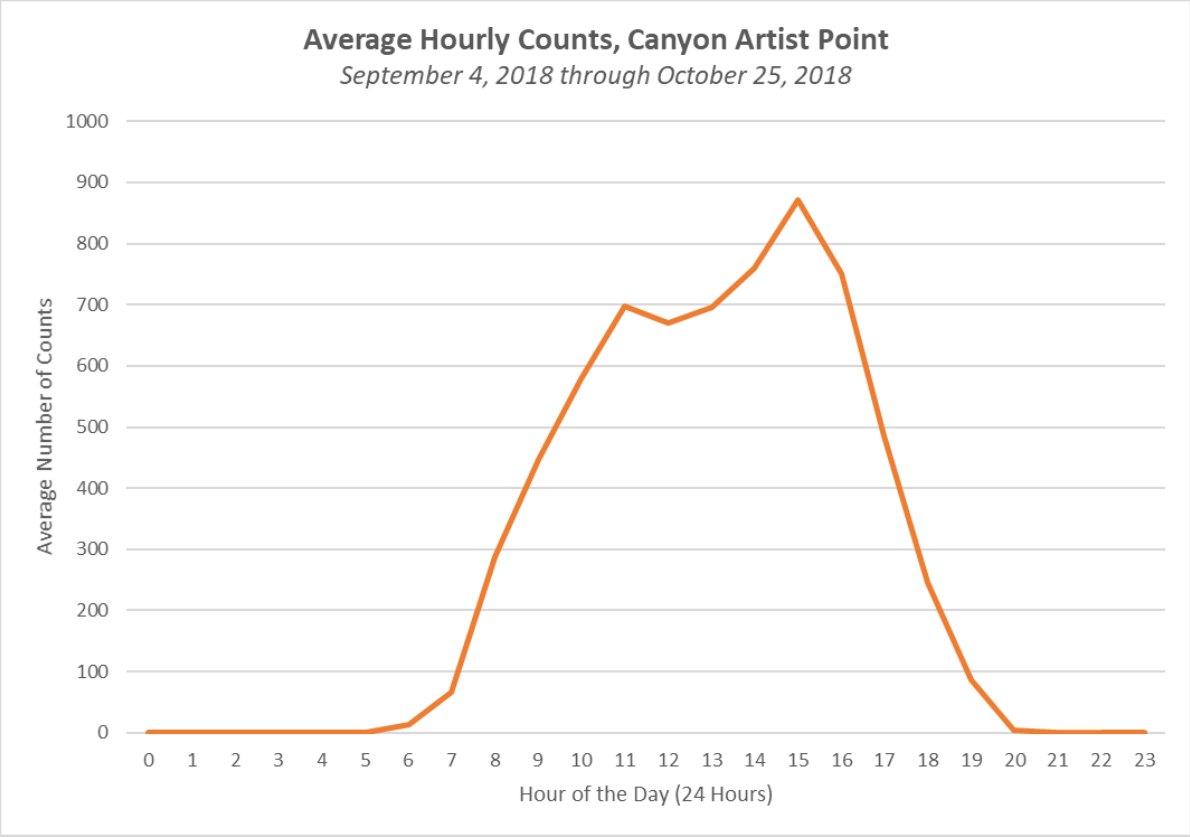
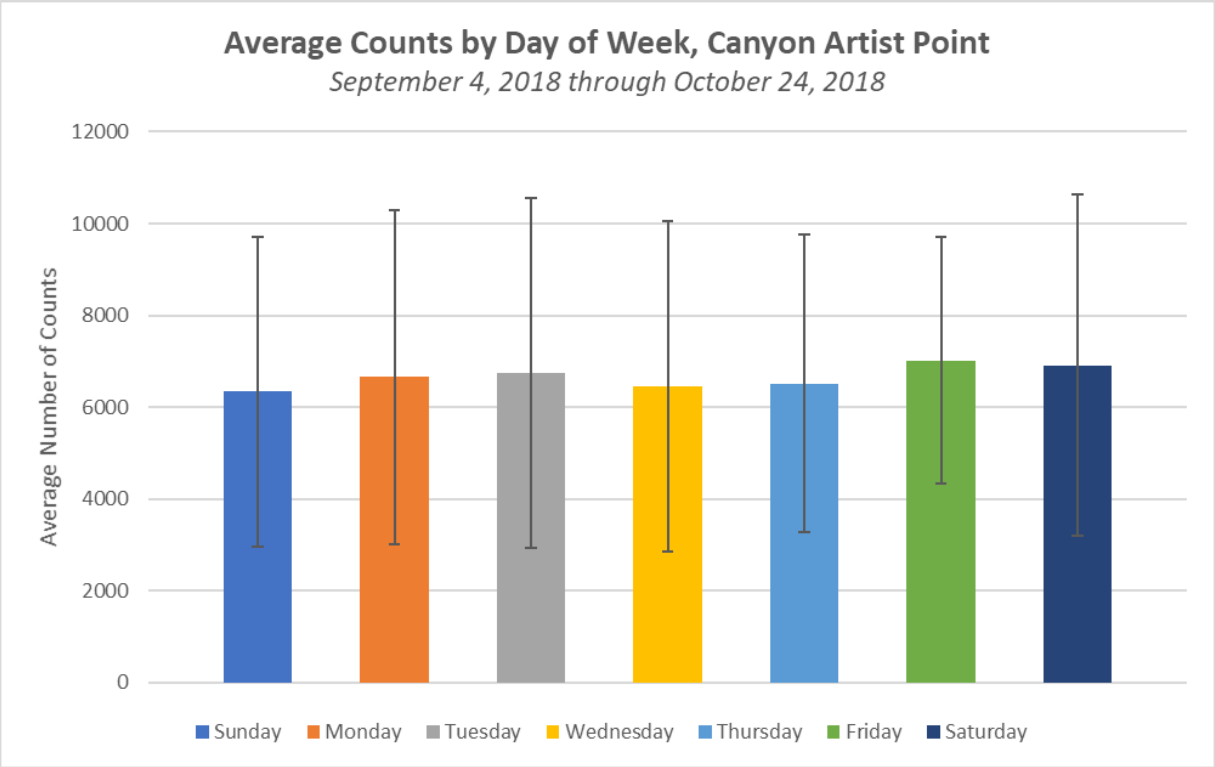


Table G.12. Average number of hourly counts during the shoulder season at Canyon Artist Point. SD = standard deviation; N = sample size.

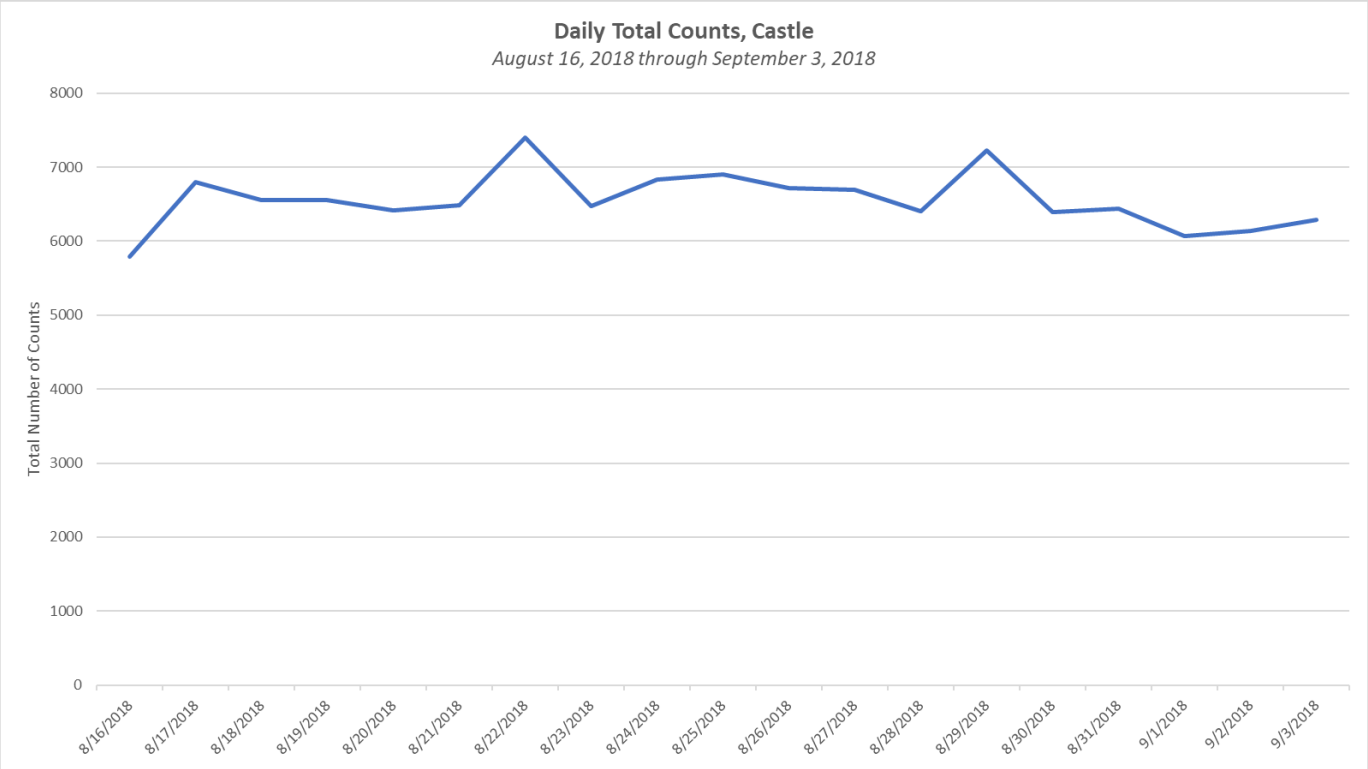
Hour	Average	±SD	N*
0:00	1	2	48
1:00	1	1	48
2:00	0	1	48
3:00	0	1	48
4:00	0	1	48
5:00	3	4	48
6:00	42	26	48
7:00	177	80	48
8:00	589	137	48
9:00	871	170	48
10:00	1046	139	49
11:00	1173	143	49
12:00	1129	198	49
13:00	1144	176	49
14:00	1189	208	49
15:00	1258	222	48
16:00	1163	200	49
17:00	934	172	49
18:00	681	165	49
19:00	420	145	49
20:00	204	120	49
21:00	28	32	49
22:00	2	4	49
23:00	2	3	49

Table G.13. Average number of daily counts by day of week during the shoulder season at Canyon Artist Point.

Day	Average	±SD	N*
Sunday	11894	1460	7
Monday	12110	2656	7
Tuesday	12167	1563	7
Wednesday	12540	1654	7
Thursday	11929	1626	7
Friday	11297	2018	7
Saturday	12031	1145	7



Castle – Peak


Daily Total Counts, Castle
August 16, 2018 through September 3, 2018
Total Number of Counts
8000
7000
6000
5000
4000
3000
2000
1000
0
8/16/2018
8/17/2018
8/18/2018
8/19/2018
8/20/2018
8/21/2018
8/22/2018
8/23/2018
8/24/2018
8/25/2018
8/26/2018
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9/1/2018
9/2/2018
9/3/2018

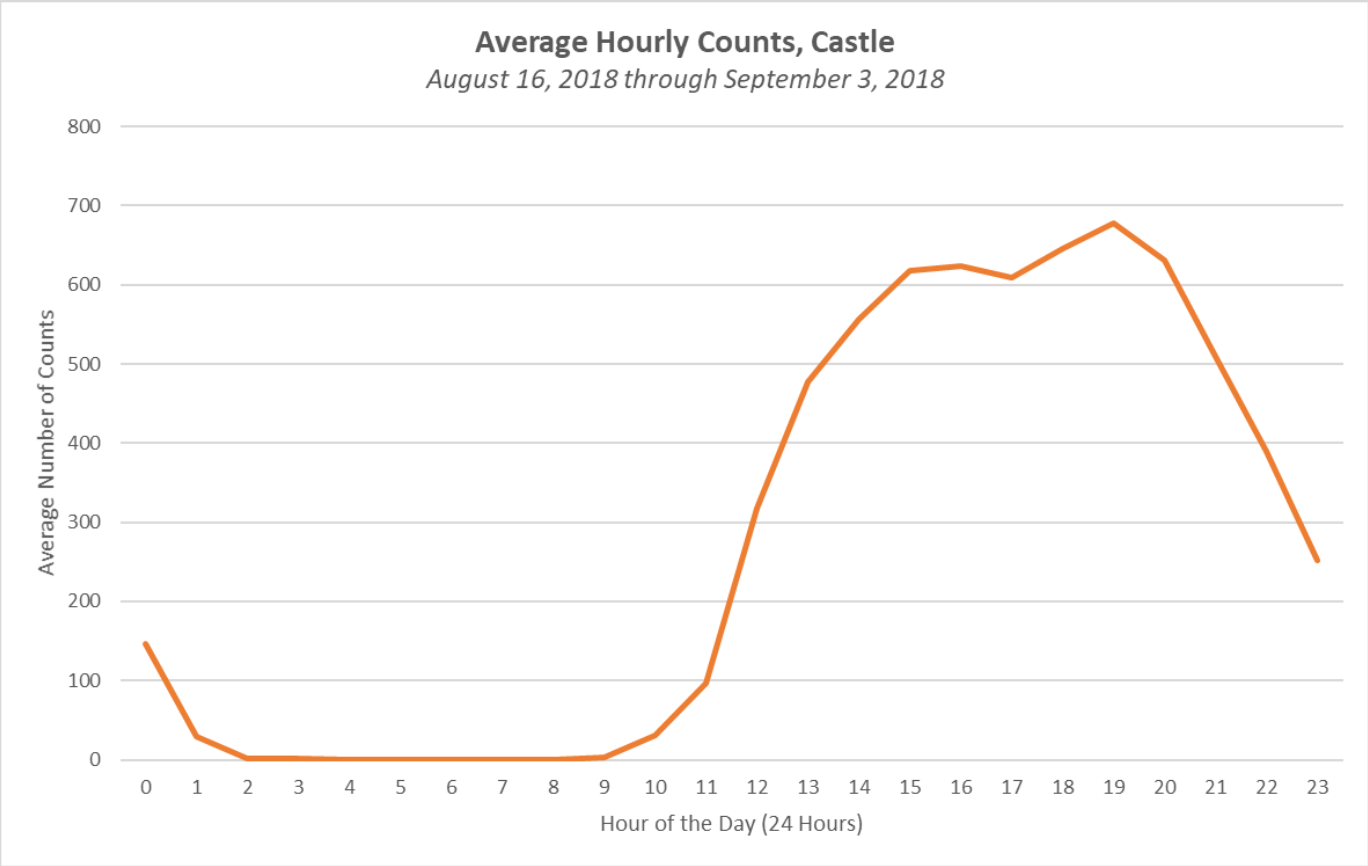
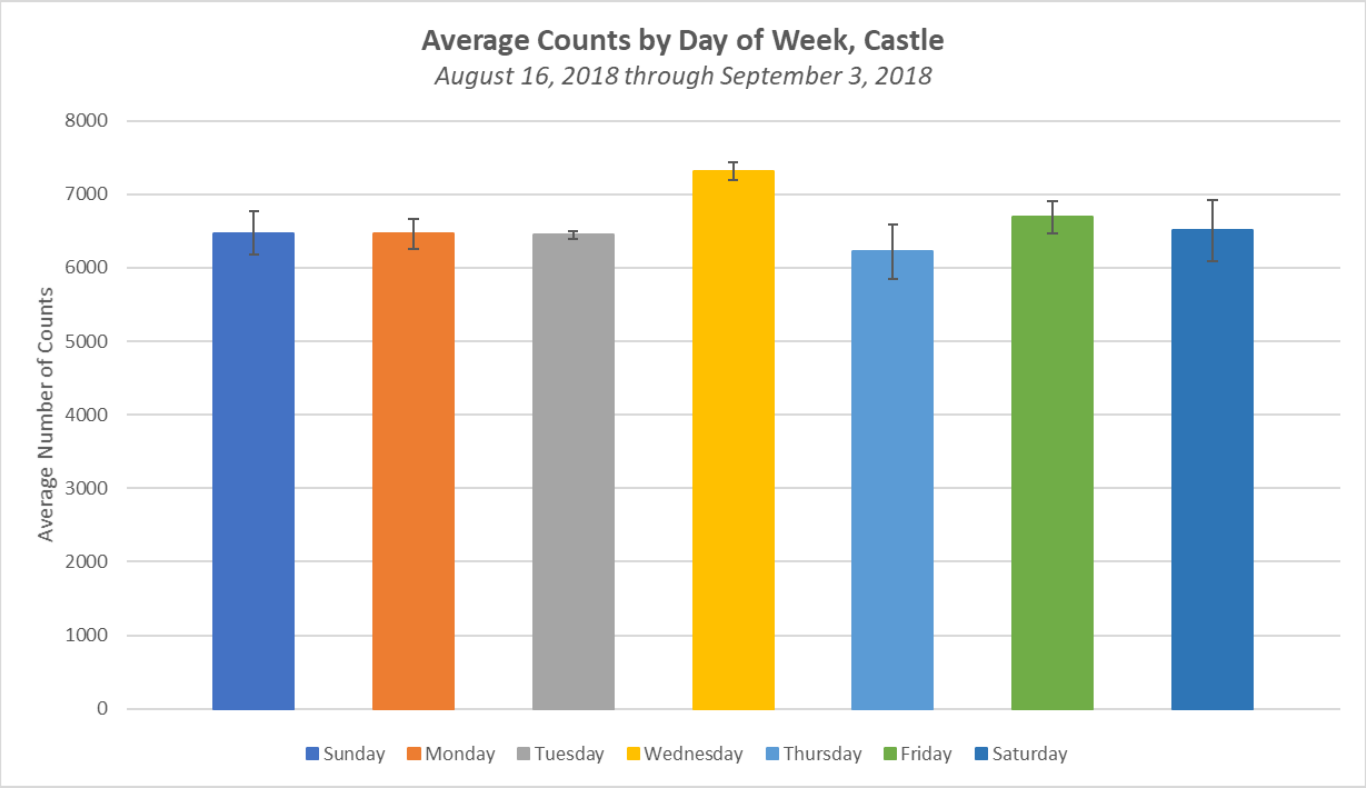

Average Hourly Counts, Castle
August 16, 2018 through September 3, 2018
Average Number of Counts
800
700
600
500
400
300
200
100
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Hour of the Day (24 Hours)

Table G.14. Average number of hourly counts during the peak season at Castle. SD = standard deviation; N = sample size.

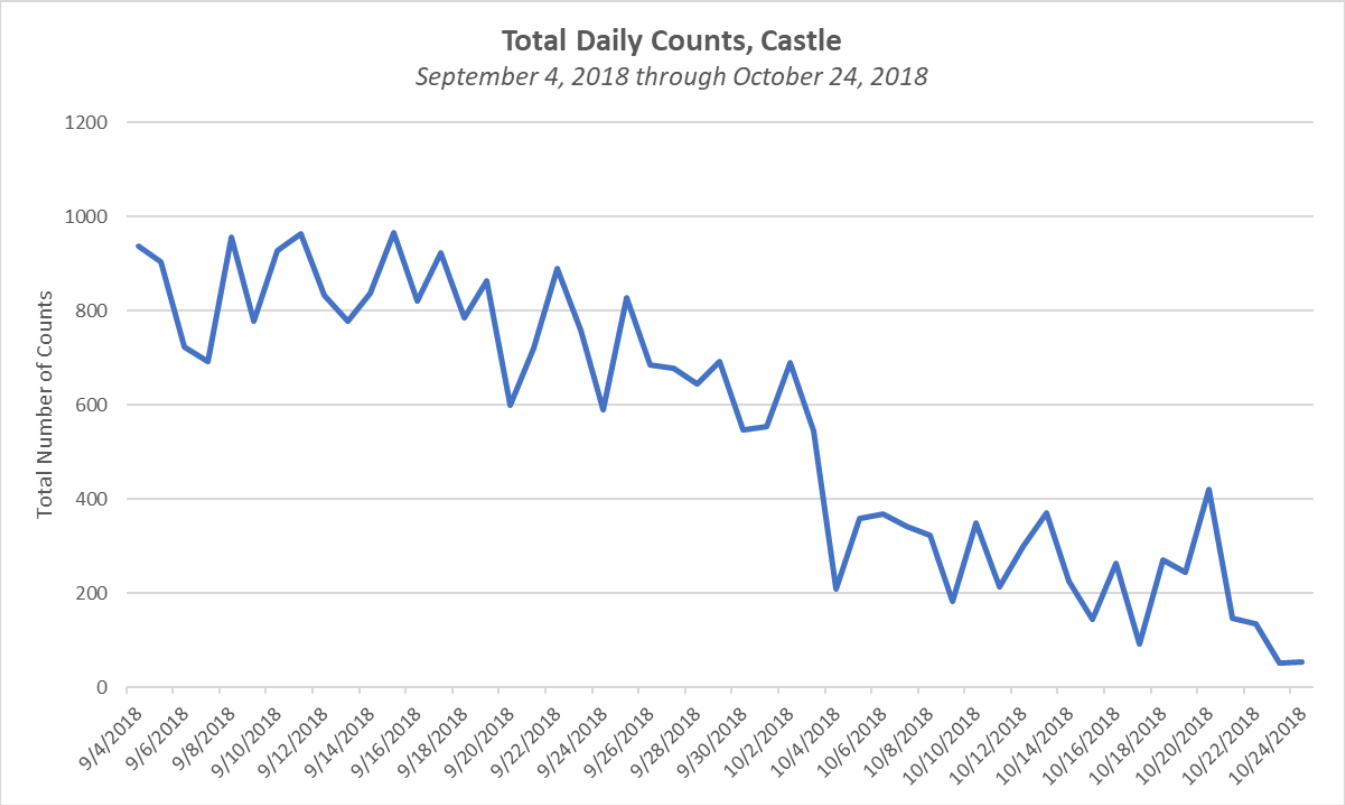
Hour	Average	±SD	N*
0:00	146	47	18
1:00	30	16	18
2:00	1	2	18
3:00	1	2	18
4:00	0	1	18
5:00	0	0	18
6:00	0	0	18
7:00	0	1	18
8:00	0	1	18
9:00	3	3	18
10:00	30	14	18
11:00	97	41	18
12:00	318	65	18
13:00	477	62	18
14:00	556	67	19
15:00	618	52	19
16:00	623	46	19
17:00	609	58	19
18:00	645	80	19
19:00	677	87	19
20:00	631	59	19
21:00	510	62	19
22:00	390	54	19
23:00	252	44	19

Table G.15. Average number of daily counts by day of week during the peak season at Castle.

Day	Average	±SD	N*
Sunday	6471	294	3
Monday	6467	205	3
Tuesday	6446	56	2
Wednesday	7313	116	2
Thursday	6221	375	3
Friday	6688	219	3
Saturday	6507	421	3



Castle – Shoulder



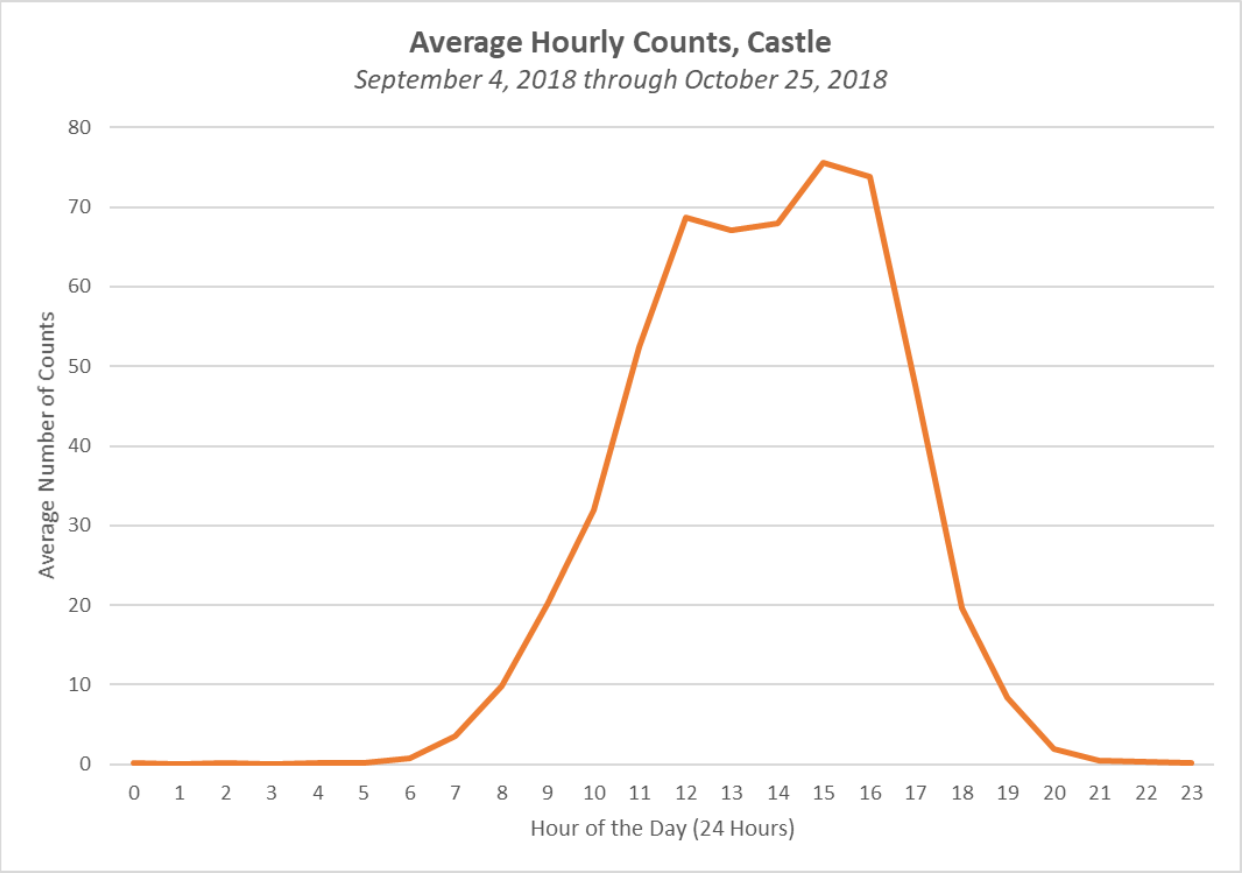
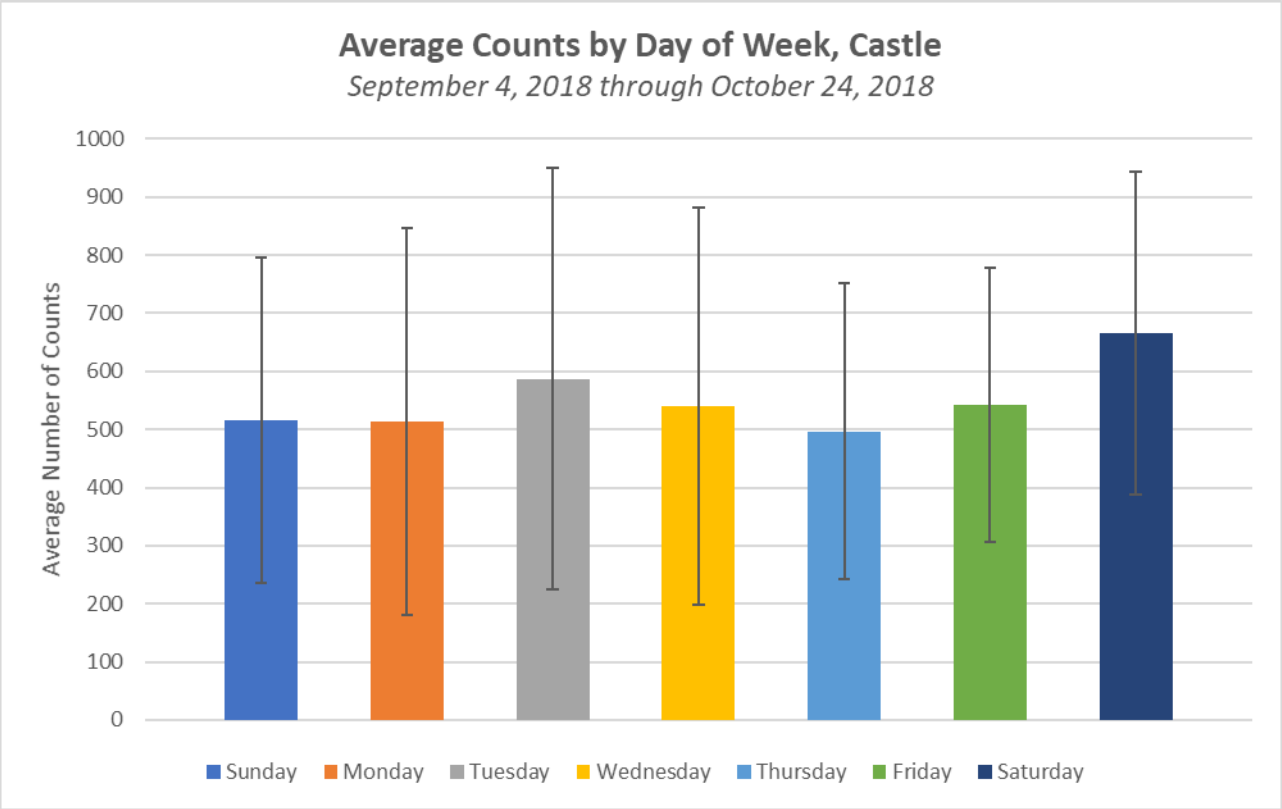


Table G.16. Average number of hourly counts during the shoulder season at Castle. SD = standard deviation; N = sample size.

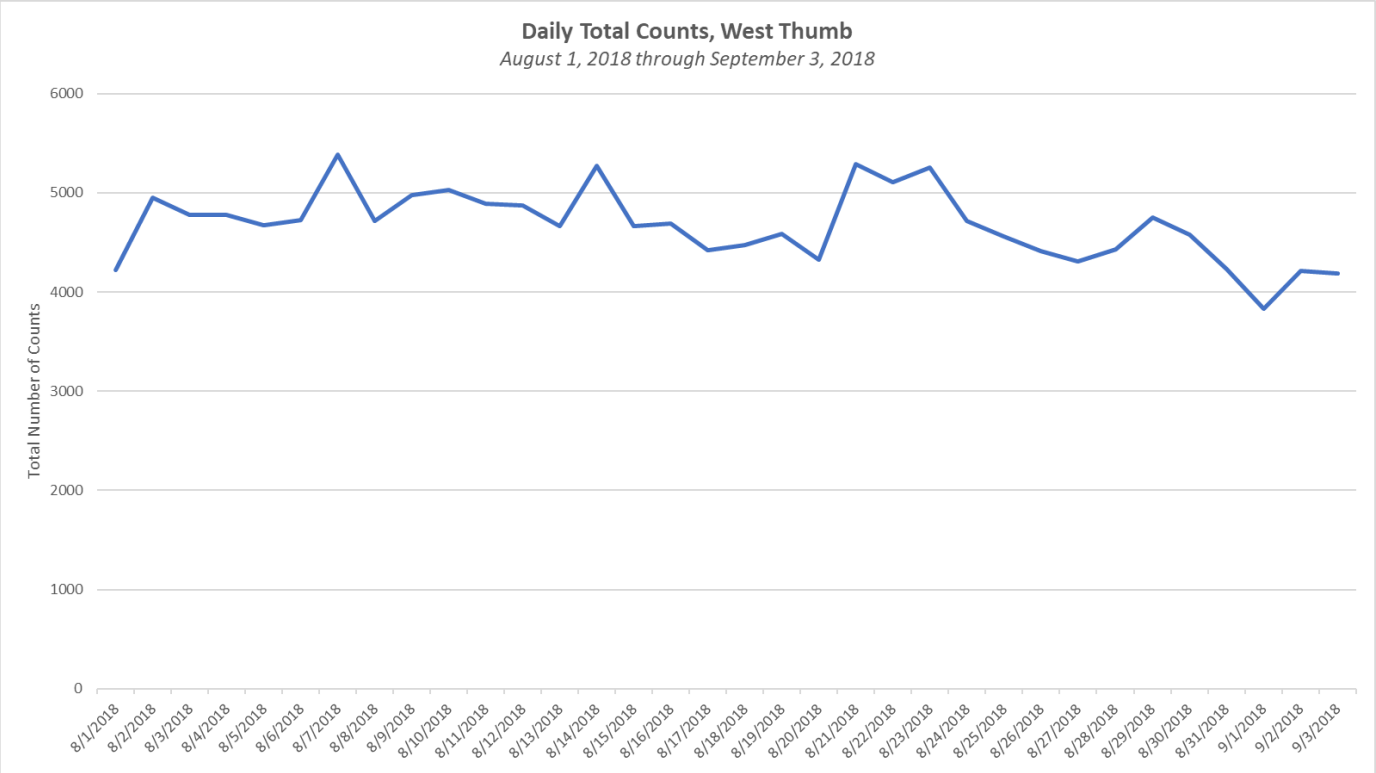
Hour	Average	±SD	N*
0:00	0	1	52
1:00	0	0	52
2:00	0	1	52
3:00	0	0	52
4:00	0	0	52
5:00	0	0	52
6:00	1	1	52
7:00	4	3	52
8:00	10	9	52
9:00	20	17	52
10:00	32	25	52
11:00	53	37	52
12:00	69	39	51
13:00	67	44	51
14:00	68	39	50
15:00	76	46	51
16:00	74	49	51
17:00	48	37	51
18:00	20	16	51
19:00	8	8	51
20:00	2	4	51
21:00	1	1	51
22:00	0	1	51
23:00	0	1	51

Table G.17. Average number of daily counts by day of week during the shoulder season at Castle.

Day	Average	±SD	N*
Sunday	516	280	7
Monday	514	332	7
Tuesday	587	364	8
Wednesday	541	342	8
Thursday	496	254	7
Friday	542	236	7
Saturday	666	277	7



West Thumb – Peak



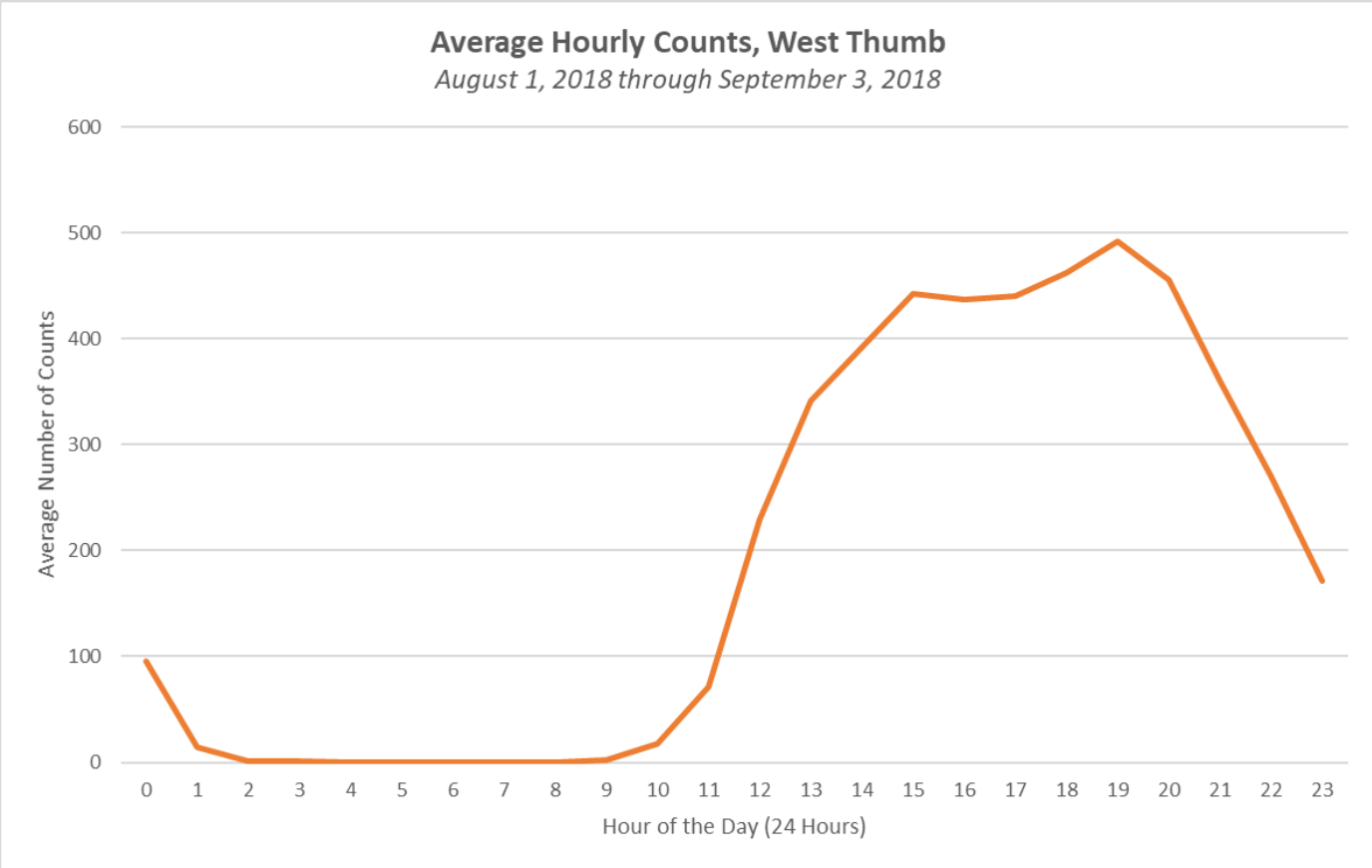
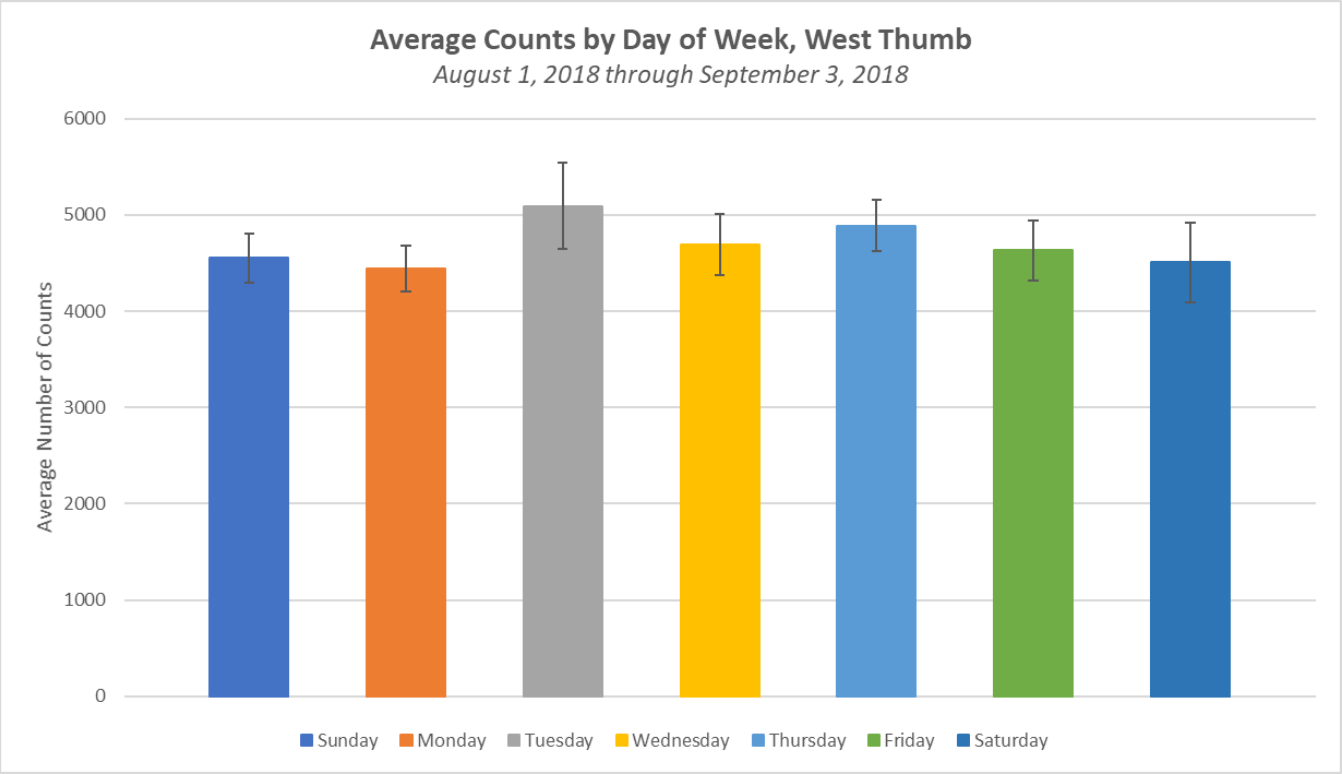


Table G.18. Average number of hourly counts during the peak season at West Thumb. SD = standard deviation; N = sample size.

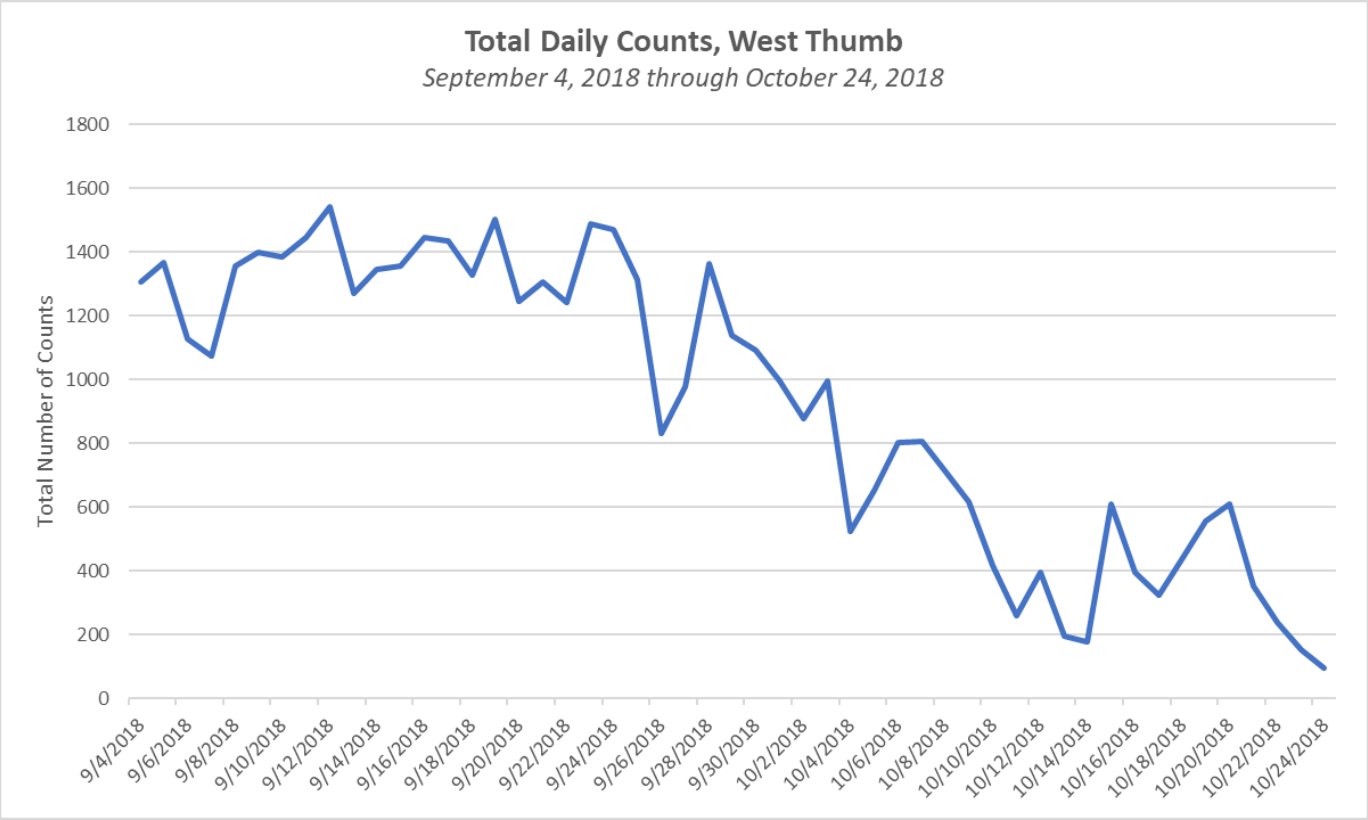
Hour	Average	±SD	N*
0:00	96	33	33
1:00	14	12	33
2:00	1	1	33
3:00	1	1	33
4:00	0	1	33
5:00	0	1	33
6:00	0	1	33
7:00	0	0	33
8:00	0	1	33
9:00	2	2	33
10:00	18	9	33
11:00	72	30	33
12:00	229	46	33
13:00	342	46	33
14:00	392	45	34
15:00	443	43	34
16:00	436	62	34
17:00	440	53	34
18:00	462	63	34
19:00	492	60	34
20:00	456	48	34
21:00	360	54	34
22:00	270	45	34
23:00	172	41	34

Table G.19. Average number of daily counts by day of week during the peak season at West Thumb.

Day	Average	±SD	N*
Sunday	4552	252	5
Monday	4443	238	5
Tuesday	5095	447	4
Wednesday	4692	318	5
Thursday	4891	265	5
Friday	4633	314	5
Saturday	4507	414	5



West Thumb – Shoulder



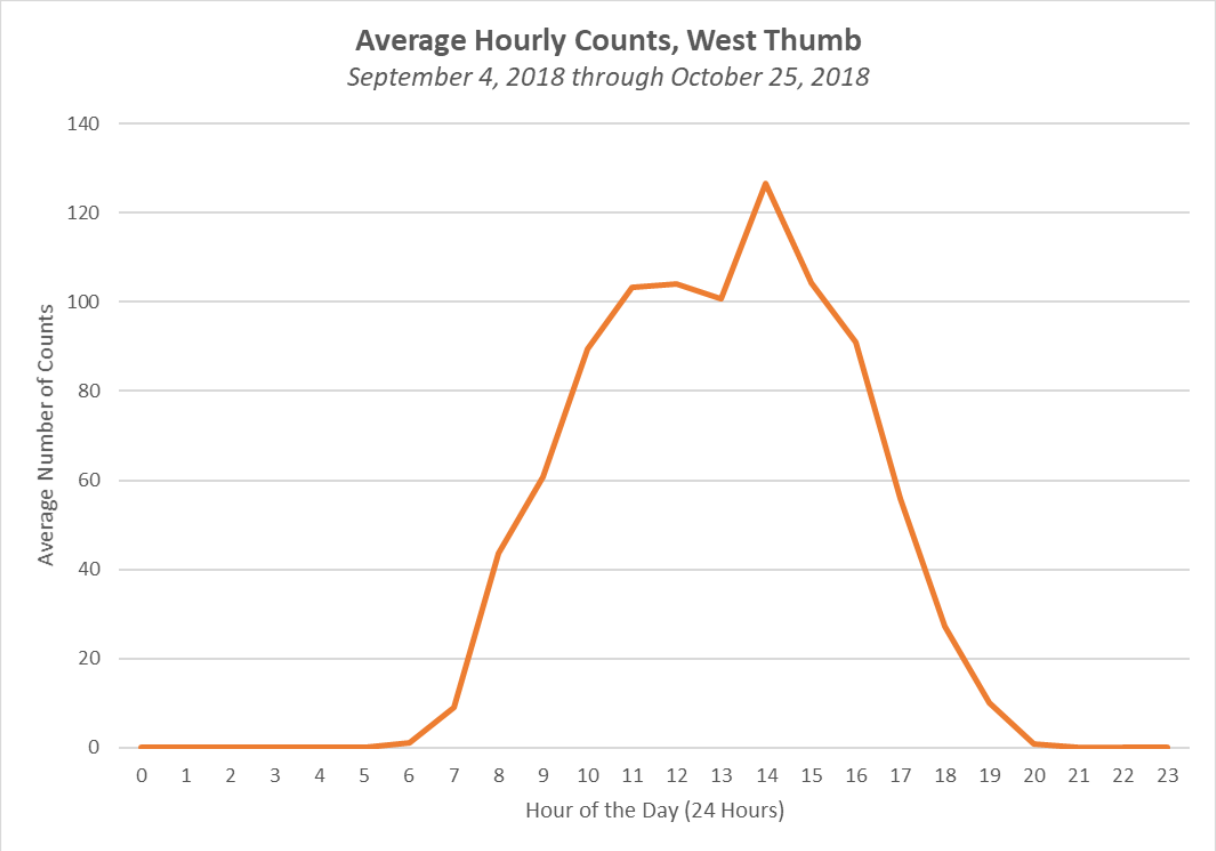
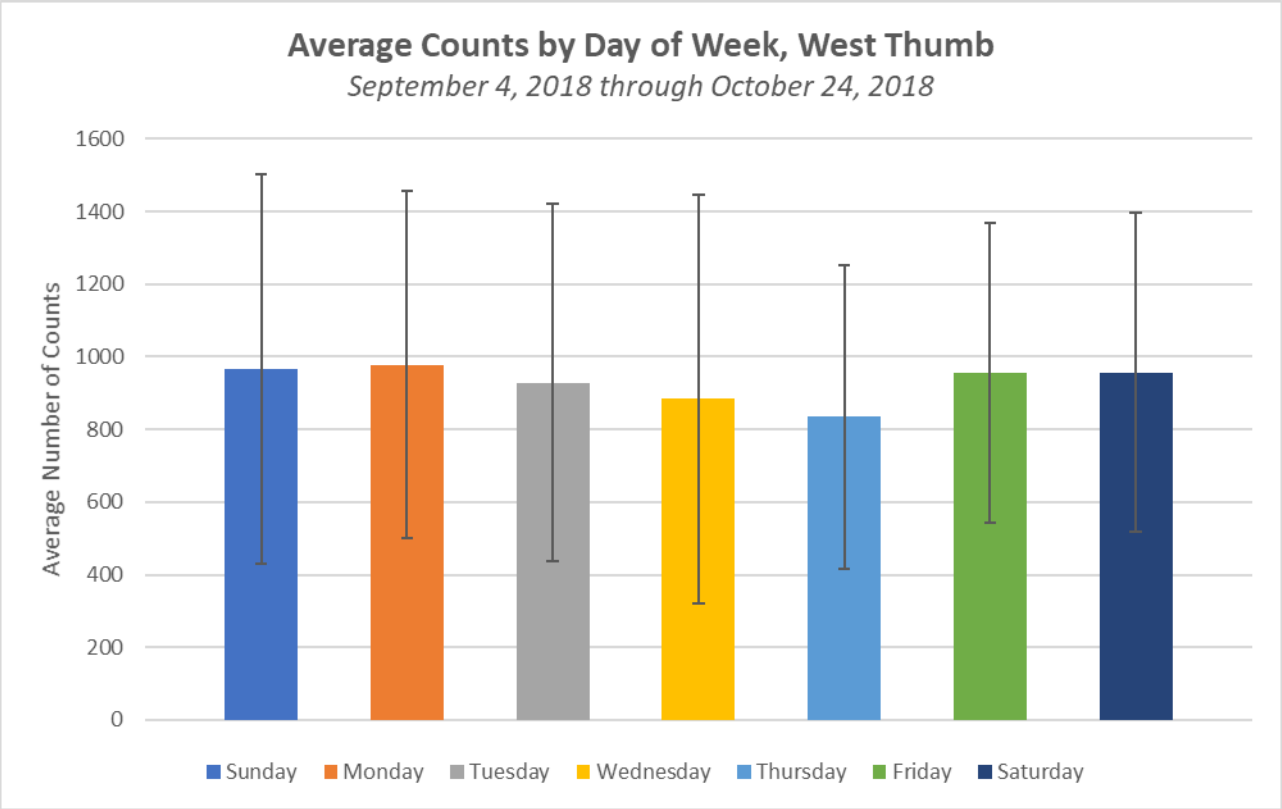


Table G.20. Average number of hourly counts during the shoulder season at West Thumb. SD = standard deviation; N = sample size.

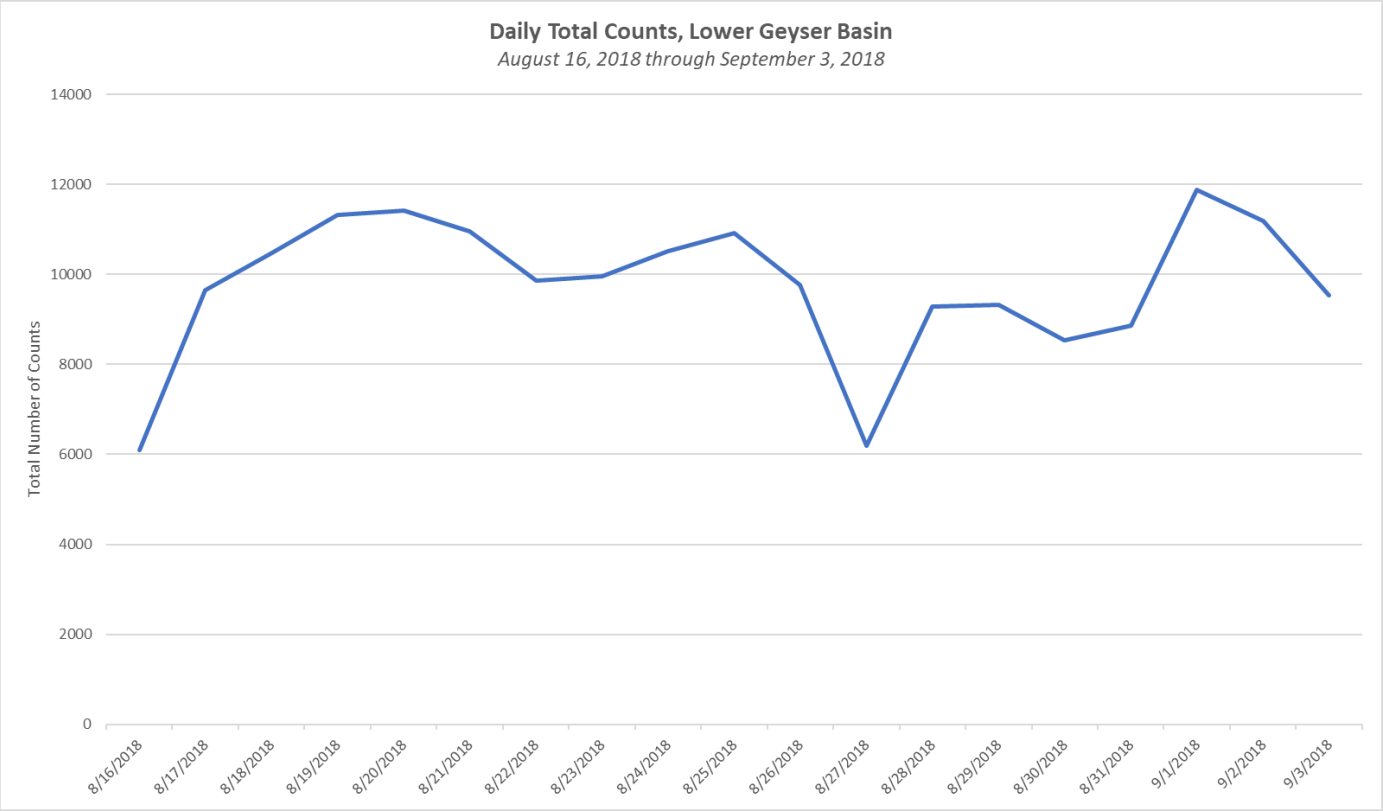
Hour	Average	±SD	N*
0:00	0	0	52
1:00	0	0	52
2:00	0	0	52
3:00	0	1	52
4:00	0	0	52
5:00	0	0	52
6:00	1	2	52
7:00	9	12	52
8:00	44	32	52
9:00	61	41	52
10:00	90	52	51
11:00	103	54	51
12:00	104	49	51
13:00	101	45	51
14:00	127	62	51
15:00	104	53	50
16:00	91	49	51
17:00	56	36	51
18:00	27	20	51
19:00	10	11	51
20:00	1	2	51
21:00	0	0	51
22:00	0	0	51
23:00	0	0	51

Table G.21. Average number of daily counts by day of week during the shoulder season at West Thumb.

Day	Average	±SD	N*
Sunday	966	536	7
Monday	978	479	7
Tuesday	929	493	8
Wednesday	884	562	8
Thursday	835	417	7
Friday	955	412	7
Saturday	957	439	7



Lower Geyser Basin – Peak



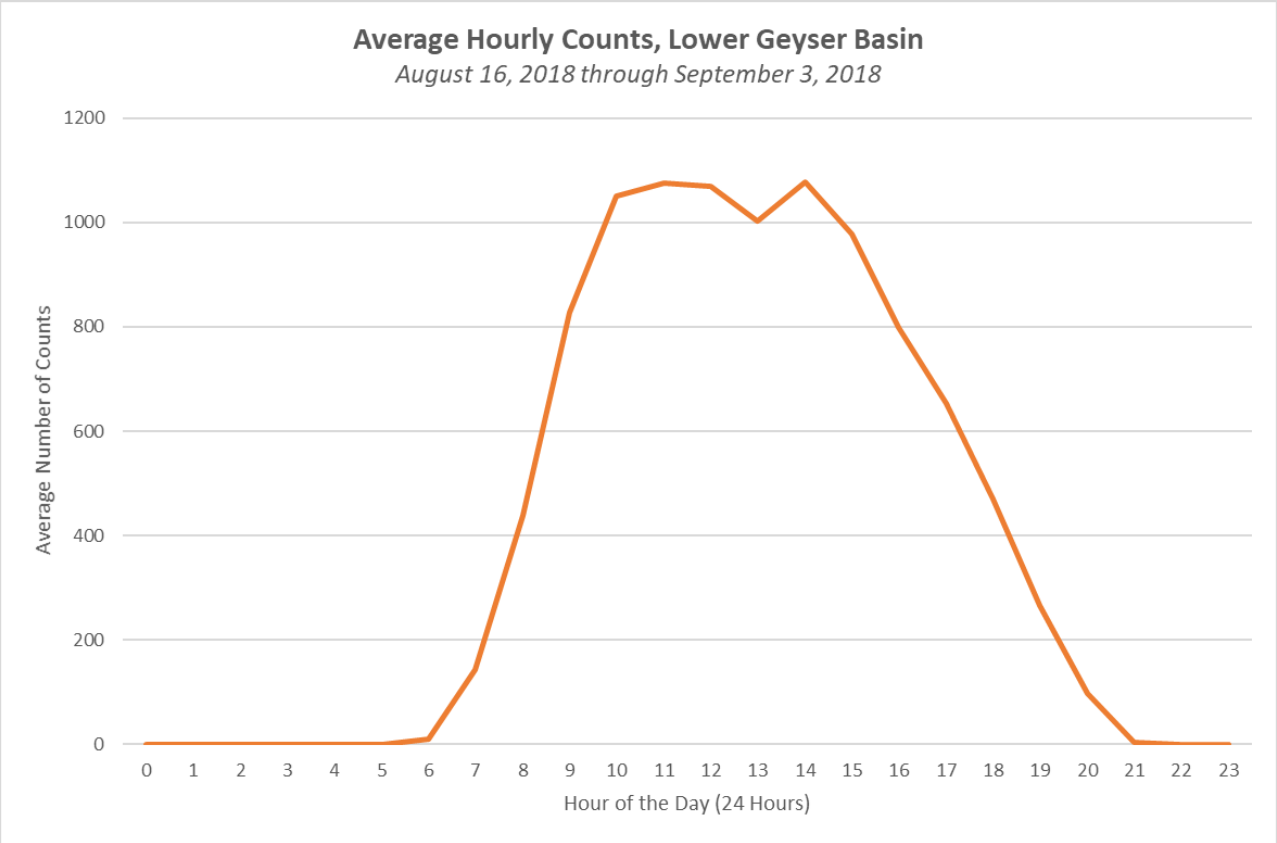
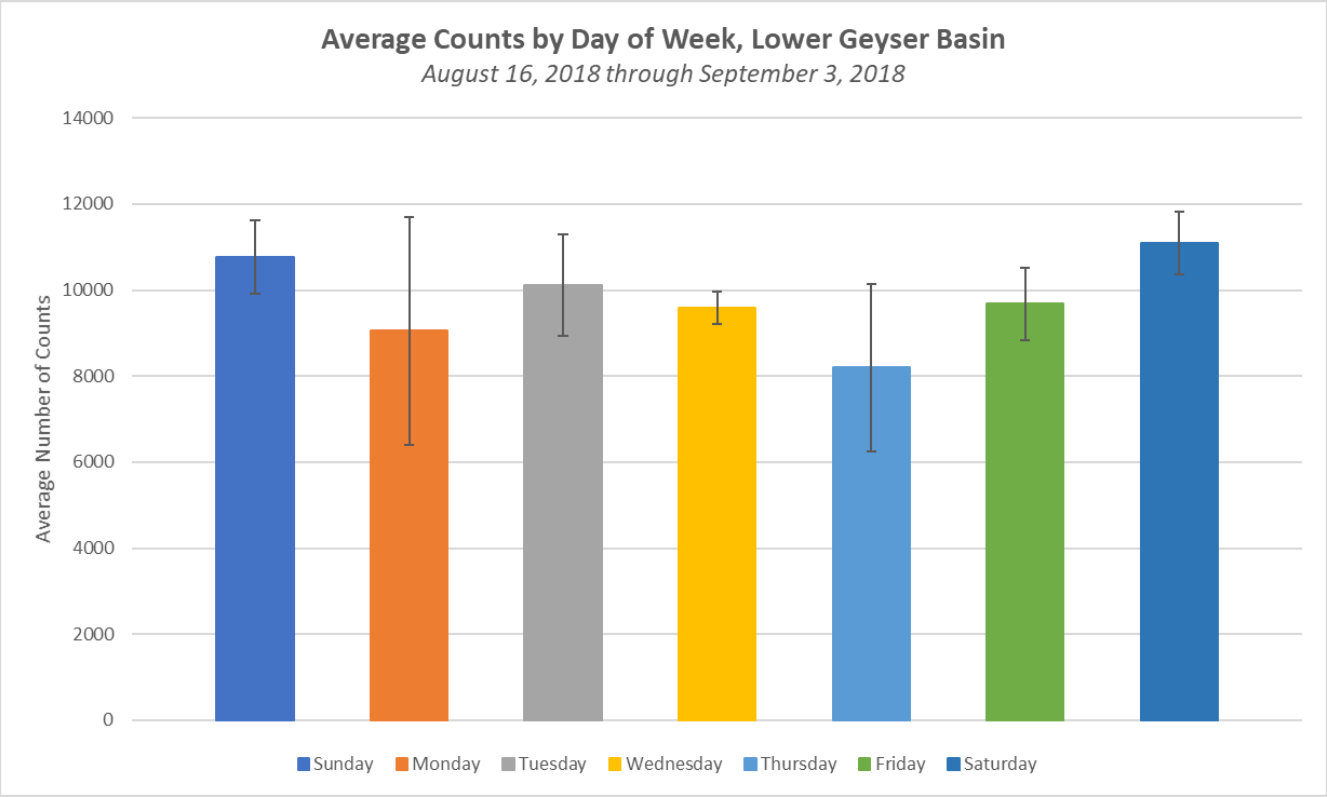


Table G.22. Average number of hourly counts (uncalibrated data) during the peak season at Lower Geyser Basin. SD = standard deviation; N = sample size.

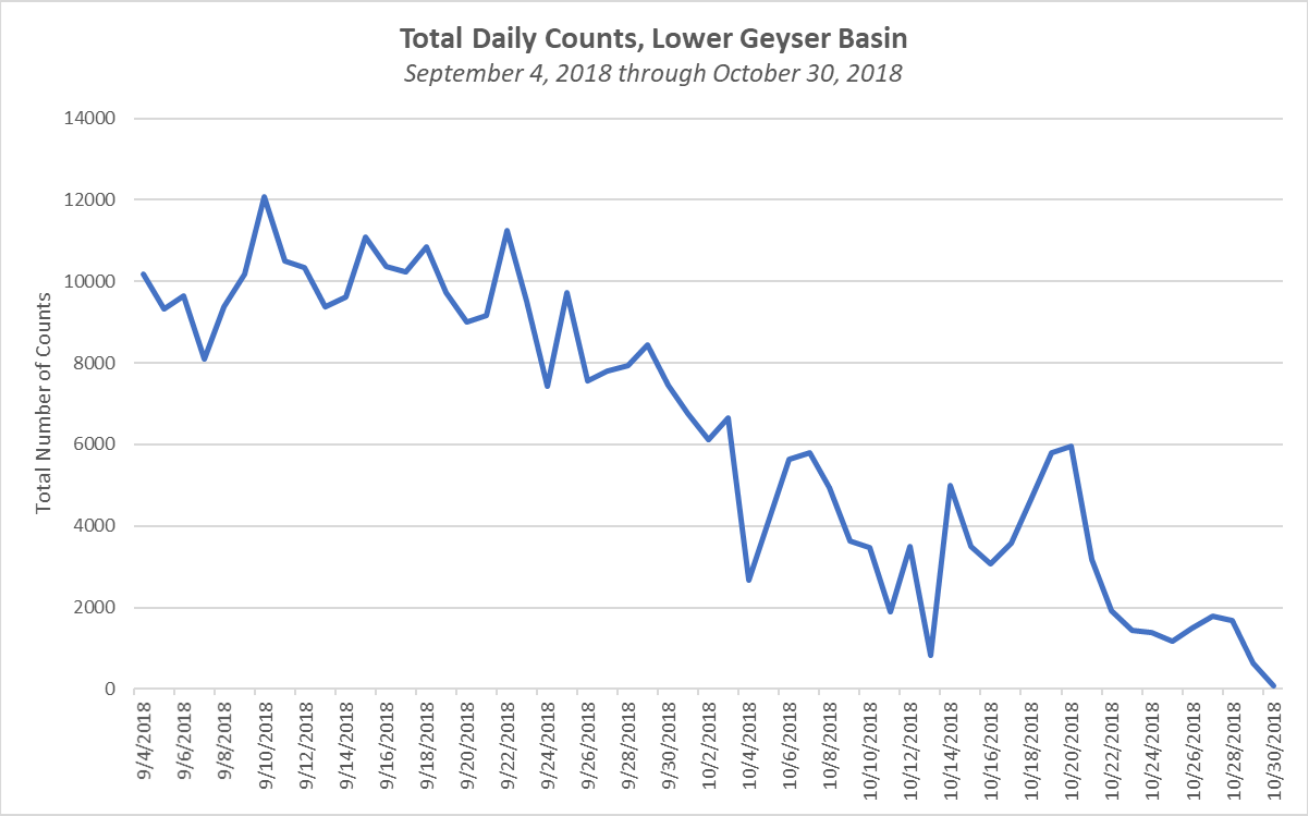
Hour	Average	±SD	N*
0:00	0	0	18
1:00	0	0	18
2:00	0	0	18
3:00	0	0	18
4:00	0	0	18
5:00	0	0	18
6:00	5	5	18
7:00	74	54	18
8:00	226	73	18
9:00	425	67	18
10:00	539	78	18
11:00	552	96	18
12:00	549	60	19
13:00	514	71	19
14:00	553	73	19
15:00	501	90	19
16:00	410	117	19
17:00	335	55	19
18:00	241	74	19
19:00	136	68	19
20:00	50	23	19
21:00	1	3	19
22:00	0	0	19
23:00	0	0	19

Table G.23. Average number of daily counts (uncalibrated data) by day of week during the peak season at Lower Geyser Basin.

Day	Average	±SD	N*
Sunday	10260	820	3
Monday	8627	2525	3
Tuesday	9645	1123	2
Wednesday	9140	364	2
Thursday	7814	1855	3
Friday	9225	793	3
Saturday	10575	689	3



Lower Geyser Basin – Shoulder



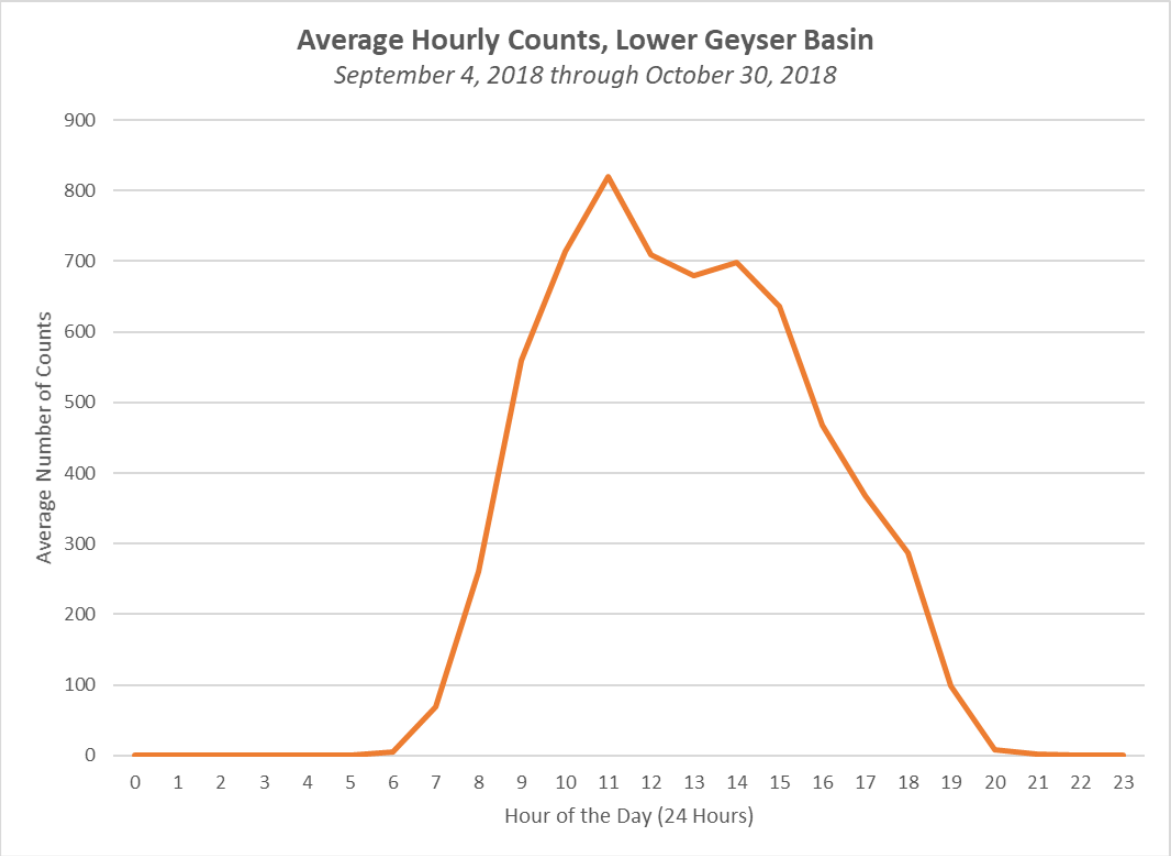
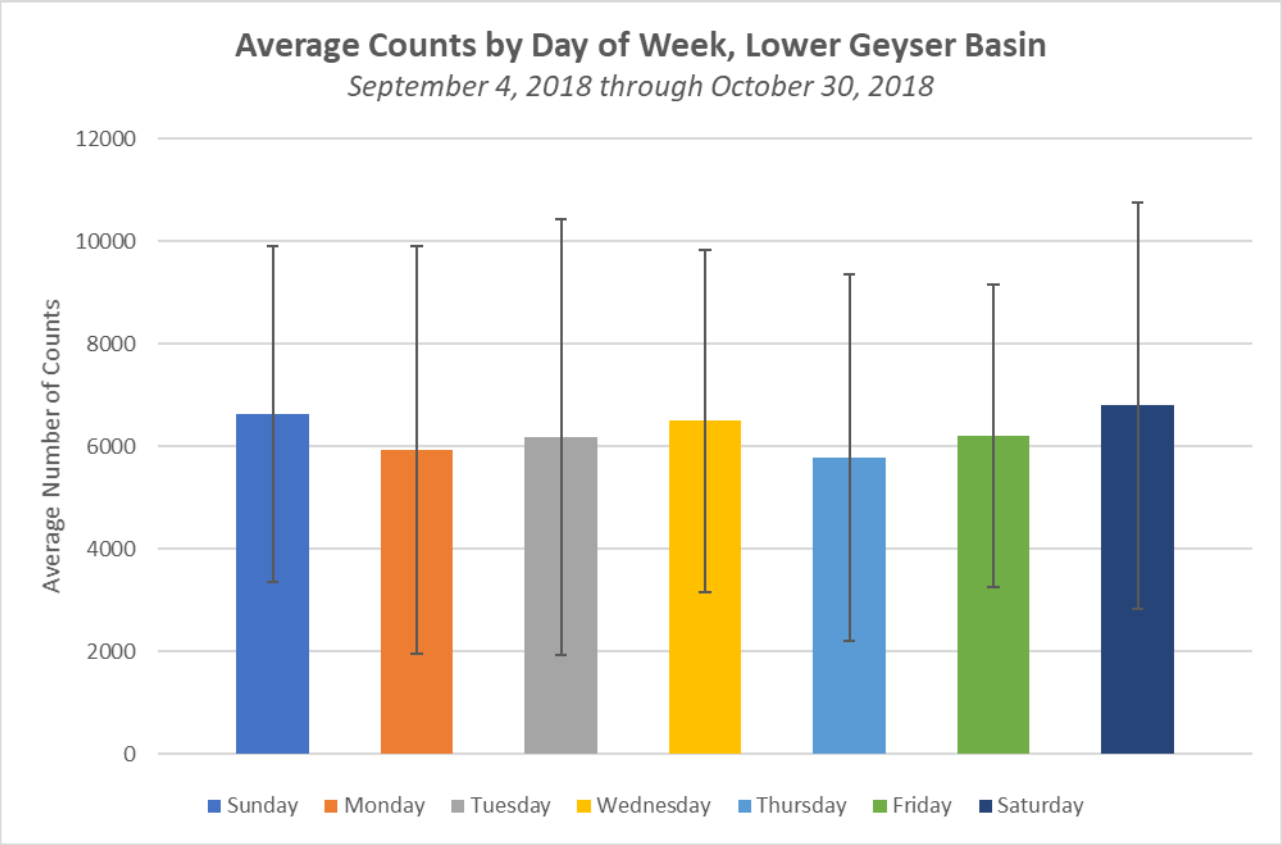


Table G.24. Average number of hourly counts (uncalibrated data) during the shoulder season at Lower Geyser Basin. SD = standard deviation; N = sample size.

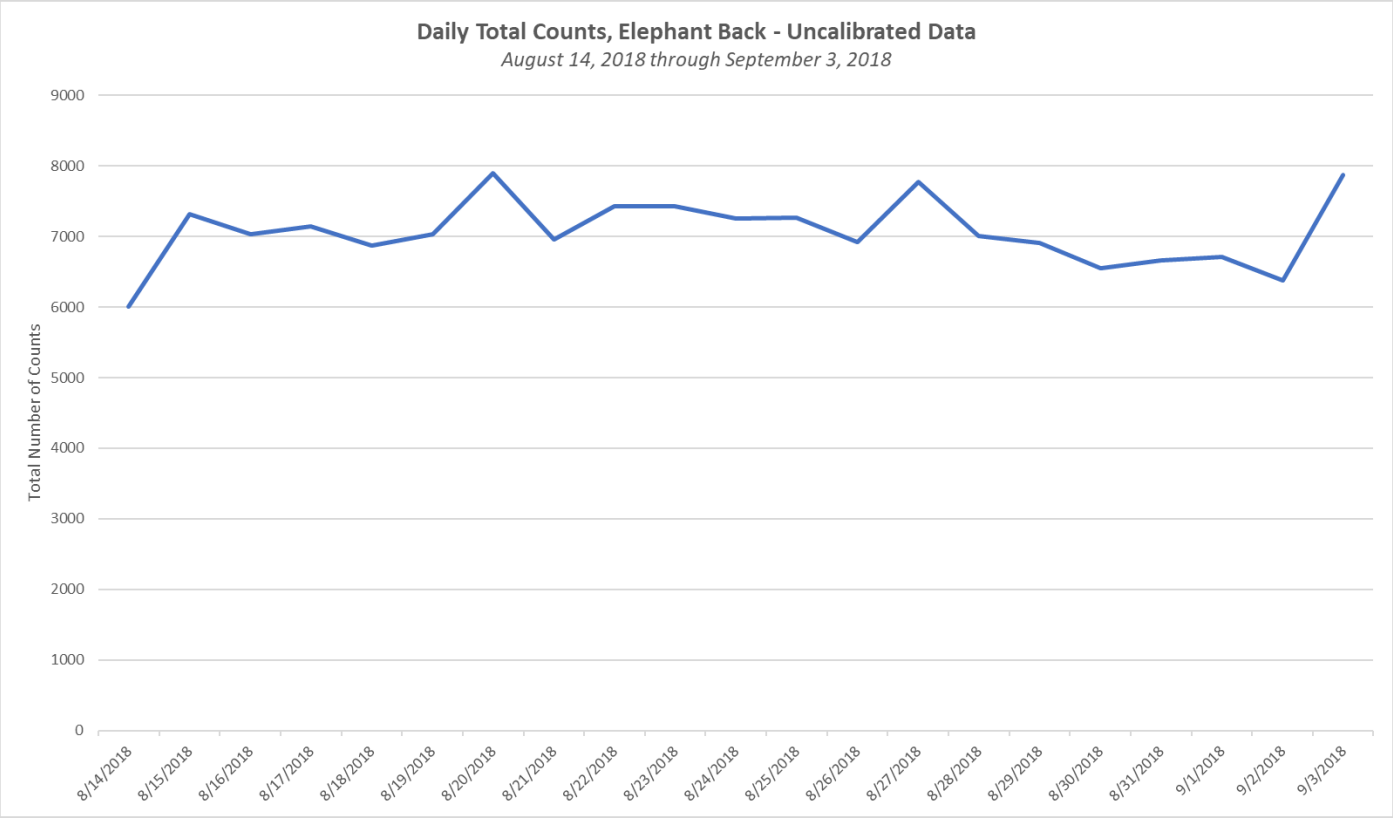
Hour	Average	±SD	N*
0:00	0	0	56
1:00	0	0	57
2:00	0	0	57
3:00	0	0	57
4:00	0	0	57
5:00	0	0	57
6:00	3	9	57
7:00	36	44	57
8:00	133	107	57
9:00	287	183	57
10:00	366	193	56
11:00	421	195	56
12:00	364	190	57
13:00	349	185	56
14:00	359	200	56
15:00	327	190	55
16:00	240	142	56
17:00	189	114	56
18:00	148	106	56
19:00	51	57	56
20:00	5	9	56
21:00	1	2	56
22:00	0	1	56
23:00	0	0	56

Table G.25. Average number of daily counts (uncalibrated data) by day of week during the shoulder season at Lower Geyser Basin.

Day	Average	±SD	N*
Sunday	3409	1683	8
Monday	3046	2038	8
Tuesday	3170	2183	9
Wednesday	3339	1713	8
Thursday	2967	1836	8
Friday	3188	1514	8
Saturday	3488	2037	8



Elephant Back, UNCALIBRATED DATA – Peak



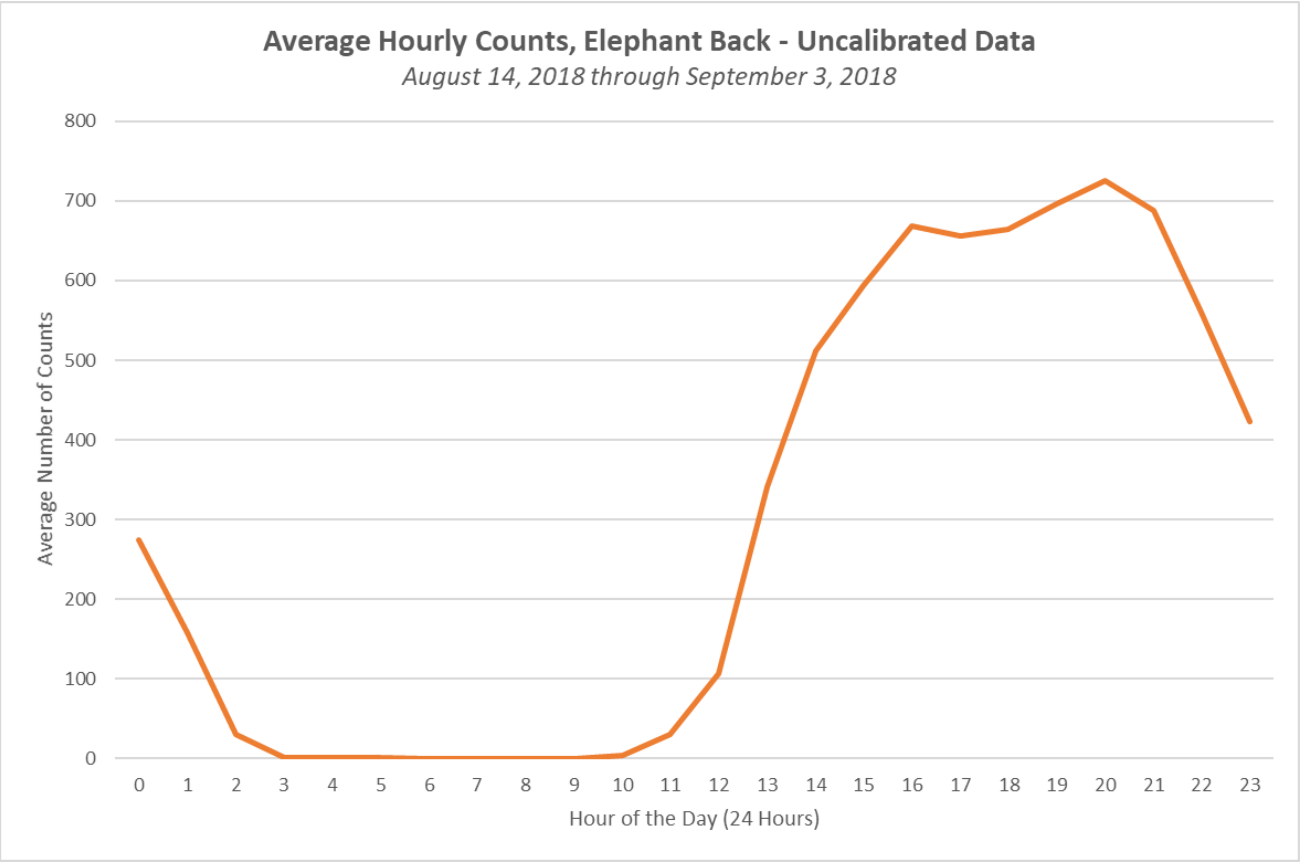
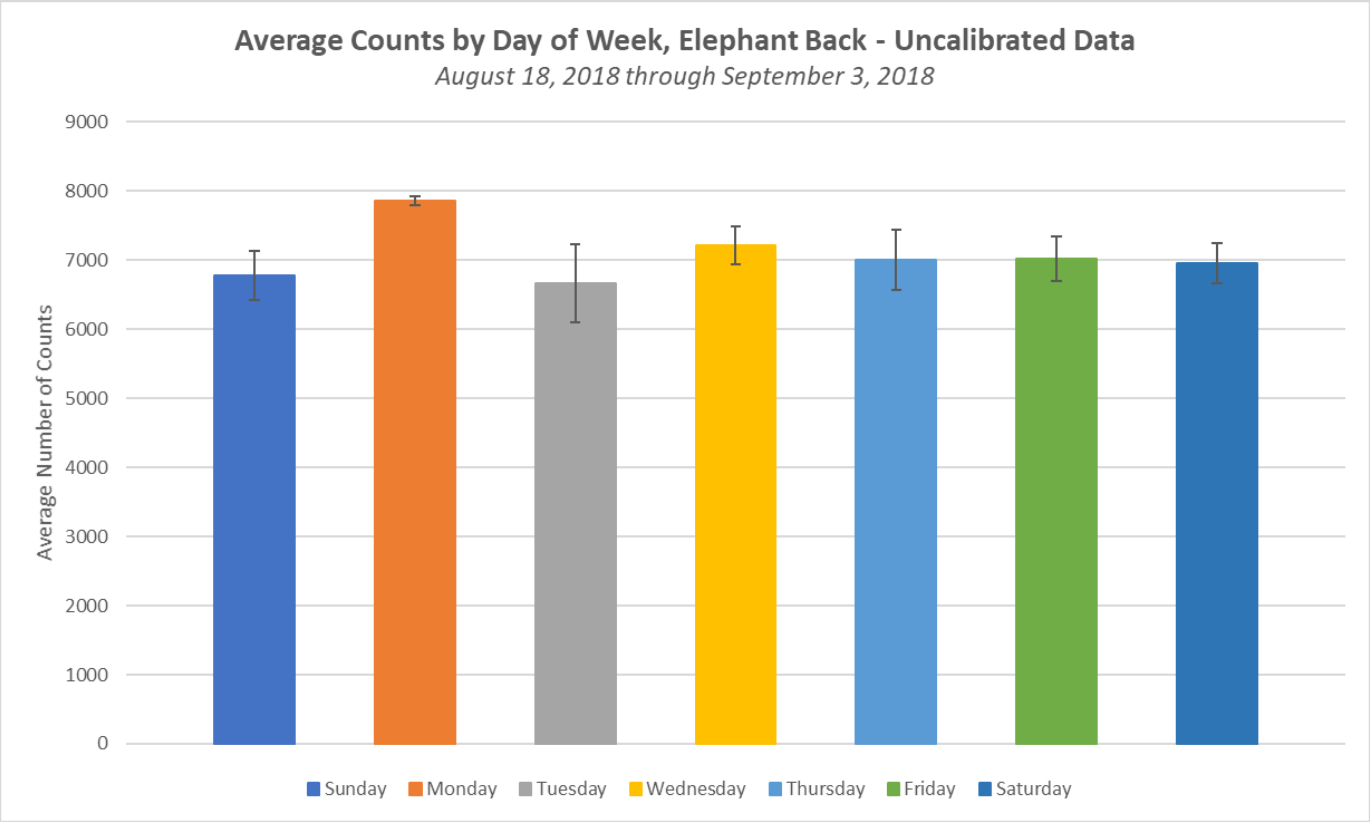


Table G.26. Average number of hourly counts (uncalibrated data) during the peak season at Elephant Back. SD = standard deviation; N = sample size.

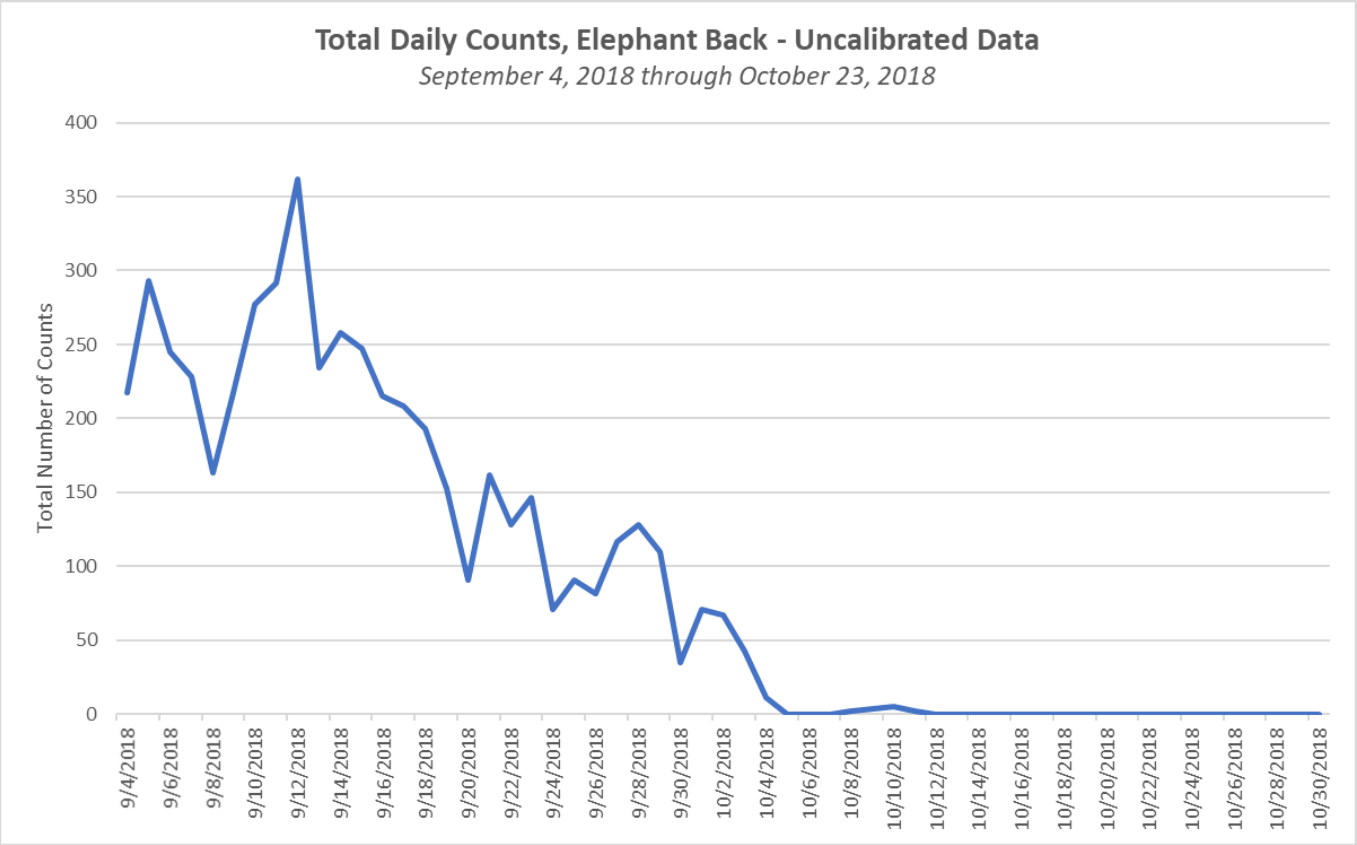
Hour	Average	±SD	N*
0:00	274	47	20
1:00	158	48	20
2:00	31	17	20
3:00	1	2	20
4:00	1	2	20
5:00	1	1	20
6:00	0	1	20
7:00	0	0	20
8:00	0	1	20
9:00	0	1	20
10:00	3	3	20
11:00	31	16	20
12:00	107	43	20
13:00	341	67	20
14:00	511	74	20
15:00	594	71	21
16:00	669	54	21
17:00	656	83	21
18:00	665	70	21
19:00	696	93	21
20:00	725	97	21
21:00	687	67	21
22:00	560	74	21
23:00	423	59	21

Table G.27. Average number of daily counts (uncalibrated data) by day of week during the peak season at Elephant Back.

Day	Average	±SD	N*
Sunday	6775	354	3
Monday	7851	66	3
Tuesday	6659	563	3
Wednesday	7214	271	3
Thursday	7001	441	3
Friday	7017	317	3
Saturday	6949	288	3



Elephant Back – UNCALIBRATED DATA - Shoulder



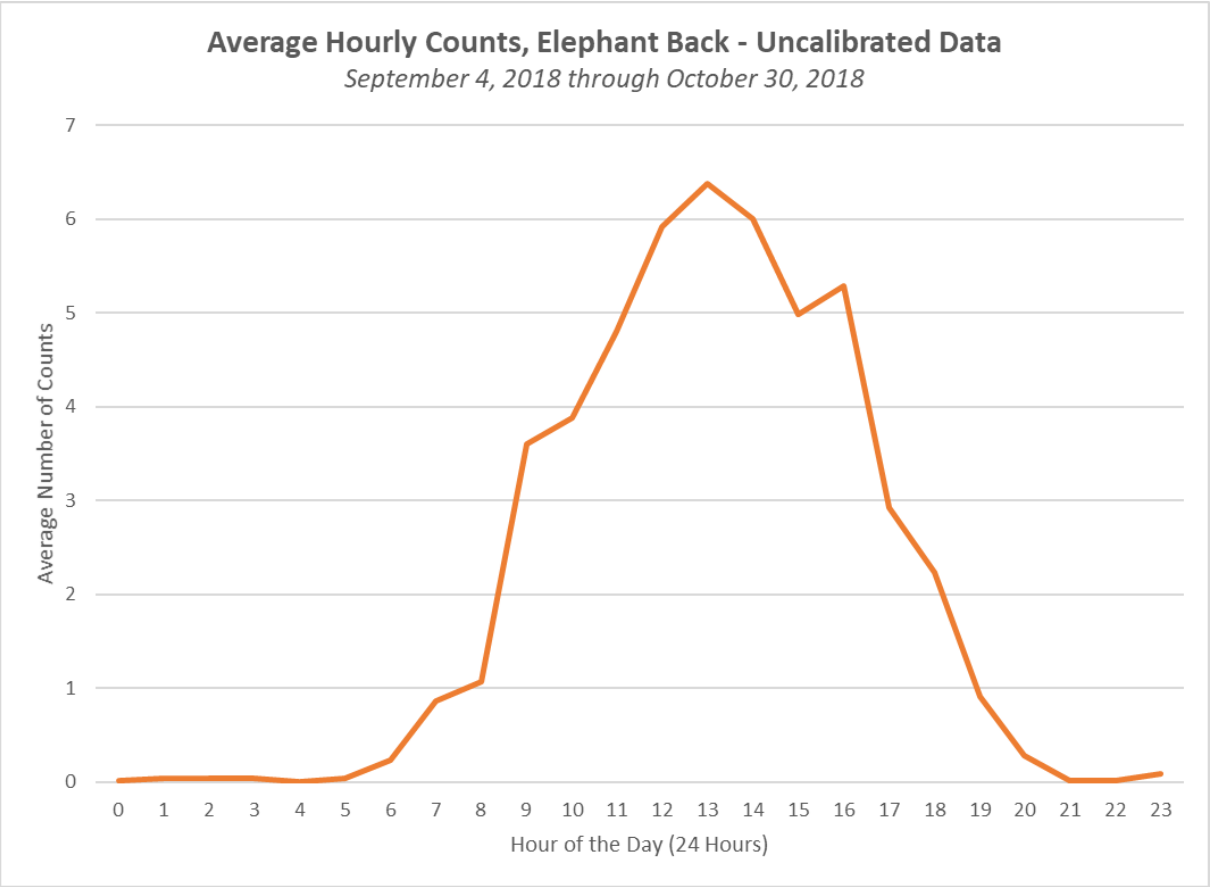
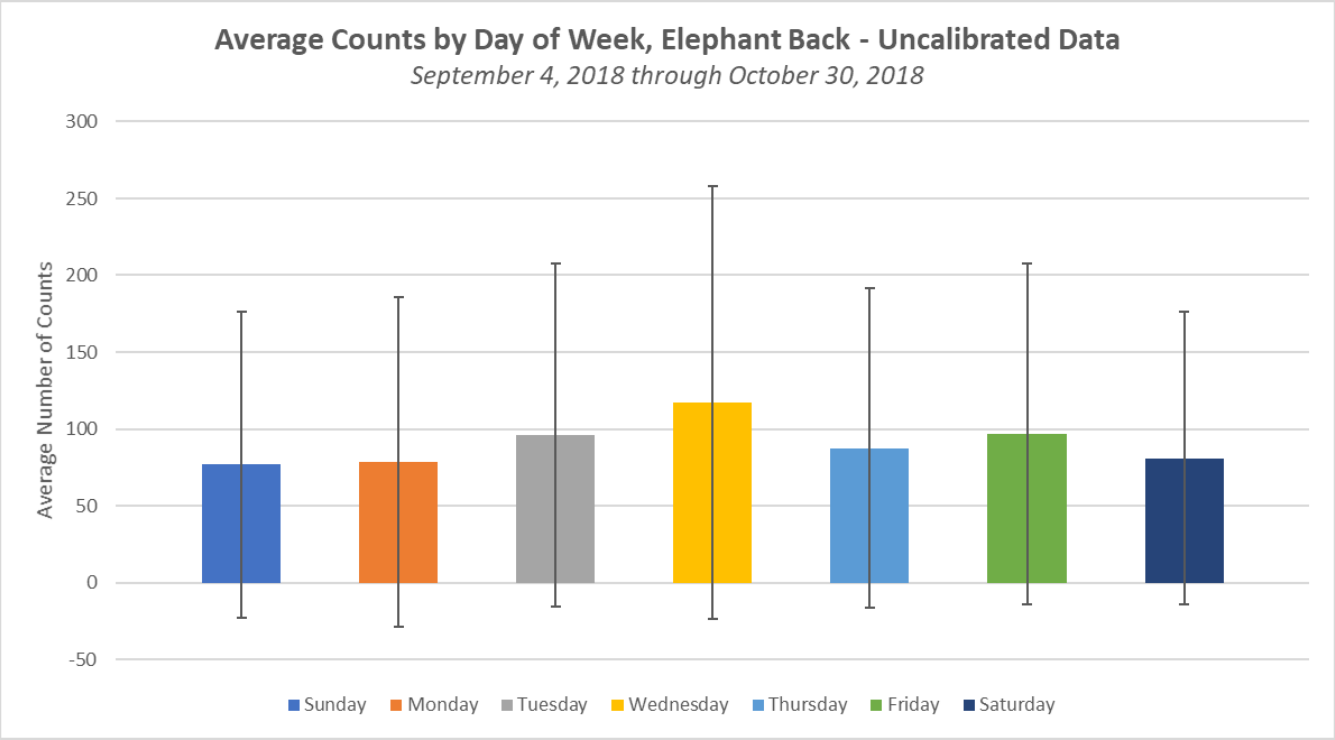


Table G.28. Average number of hourly counts (uncalibrated data) during the shoulder season at Elephant Back. SD = standard deviation; N = sample size.

Hour	Average	±SD	N*
0:00	0	0	57
1:00	0	0	57
2:00	0	0	57
3:00	0	0	57
4:00	0	0	57
5:00	0	0	57
6:00	0	1	57
7:00	1	2	57
8:00	1	2	57
9:00	4	5	57
10:00	4	5	56
11:00	5	7	57
12:00	6	7	56
13:00	6	8	56
14:00	6	7	56
15:00	5	7	56
16:00	5	7	56
17:00	3	4	56
18:00	2	4	56
19:00	1	2	56
20:00	0	1	56
21:00	0	0	56
22:00	0	0	56
23:00	0	0	56

Table G.29. Average number of daily counts (uncalibrated data) by day of week during the shoulder season at Elephant Back.

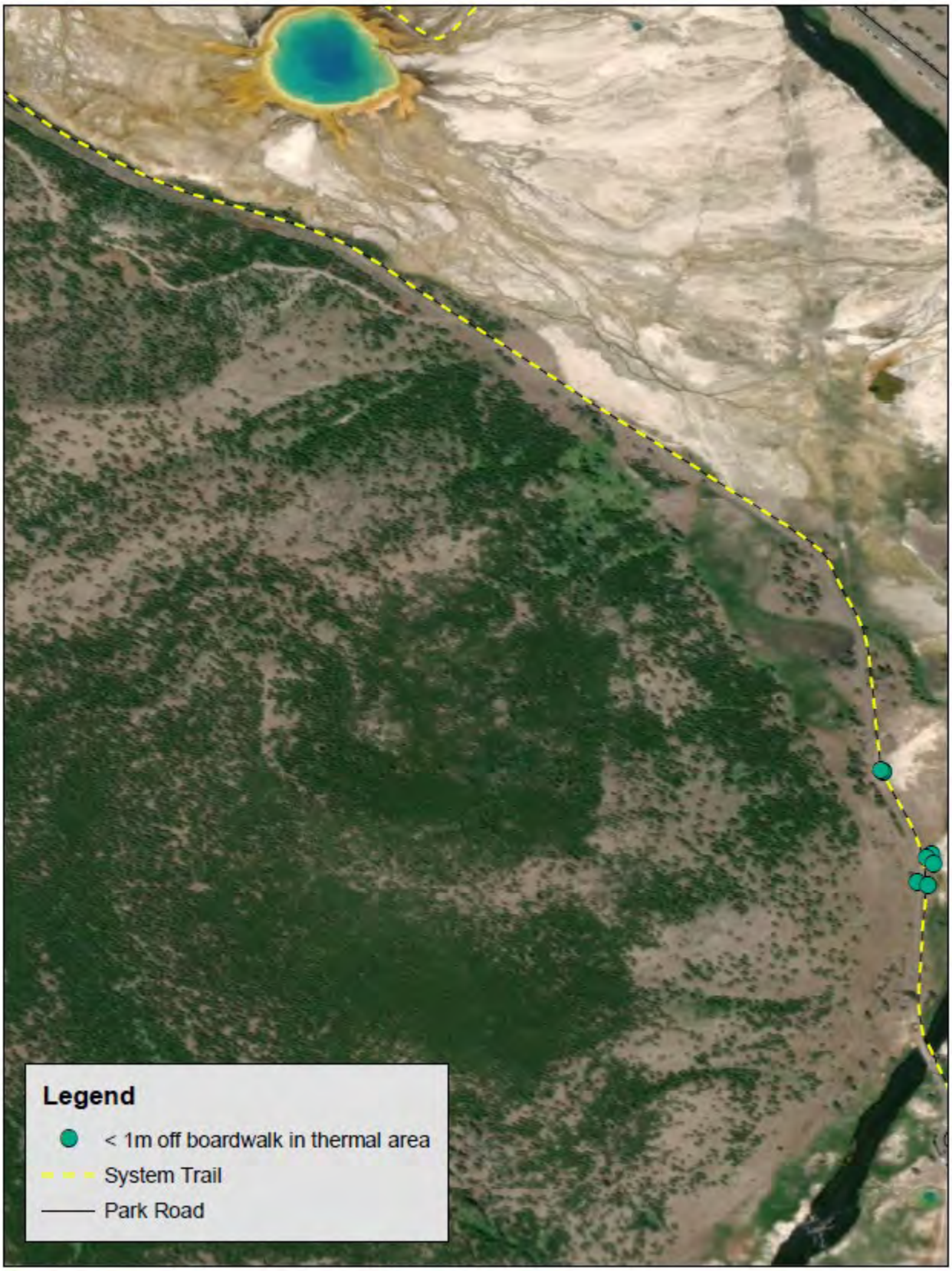
Day	Average	±SD	N*
Sunday	77	99	8
Monday	78	107	8
Tuesday	96	112	9
Wednesday	117	141	8
Thursday	88	104	8
Friday	97	111	8
Saturday	81	95	8



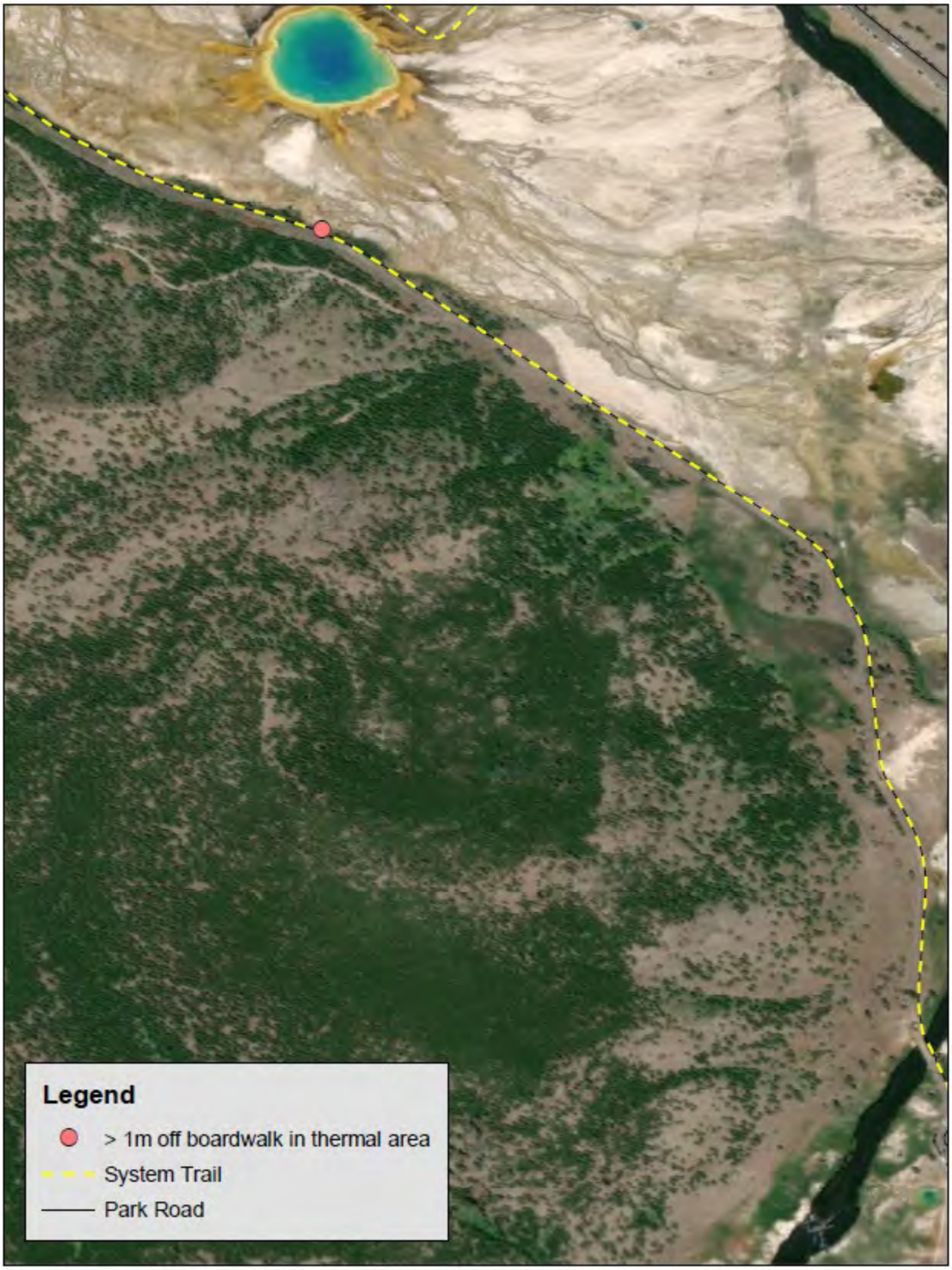
Fairy Falls Waypoint Mapping Results by Waypoint Code

Visitor Behavior Waypoint Mapping Codes

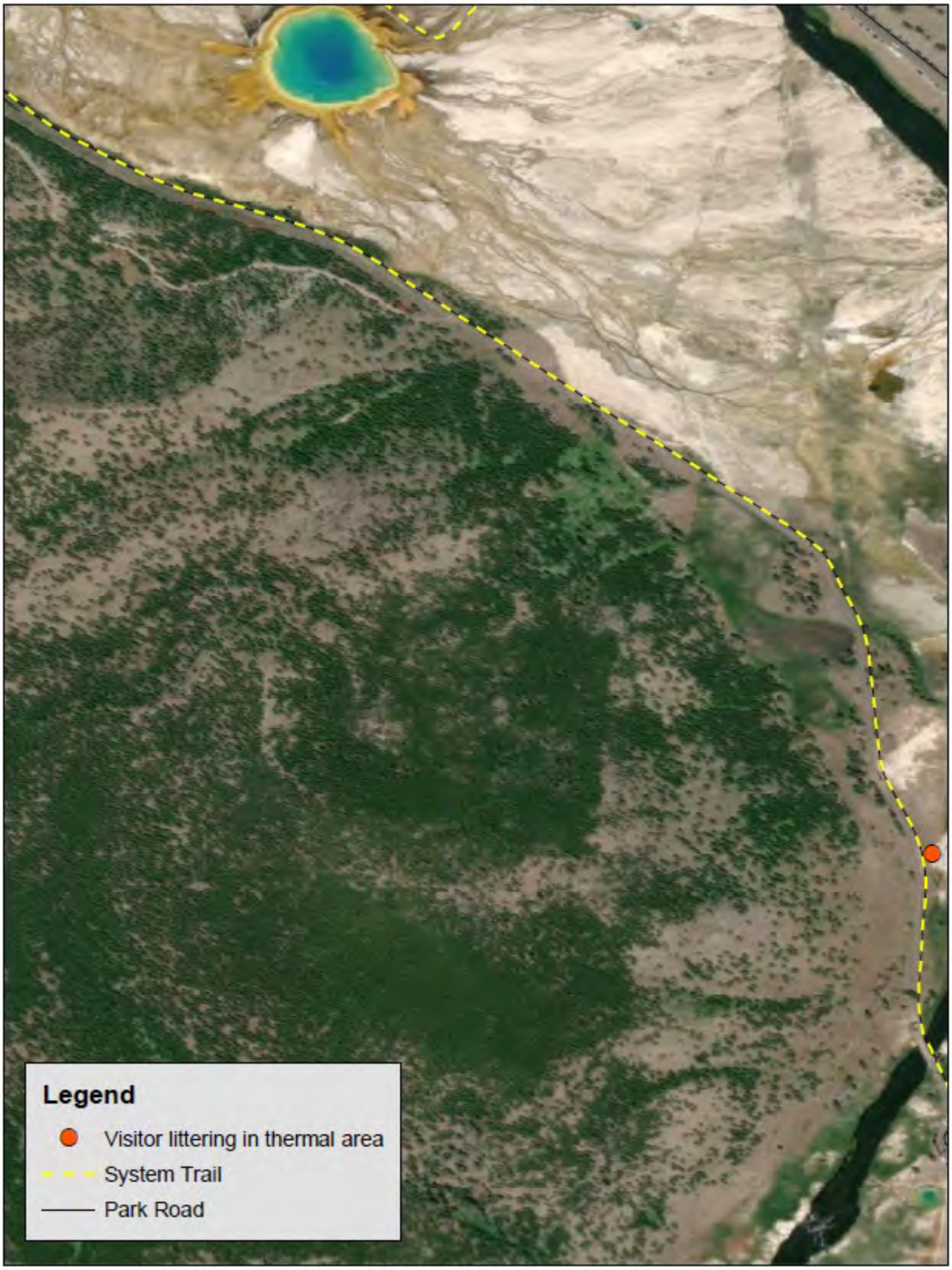
Code = OB1, < 1m off boardwalk in thermal area



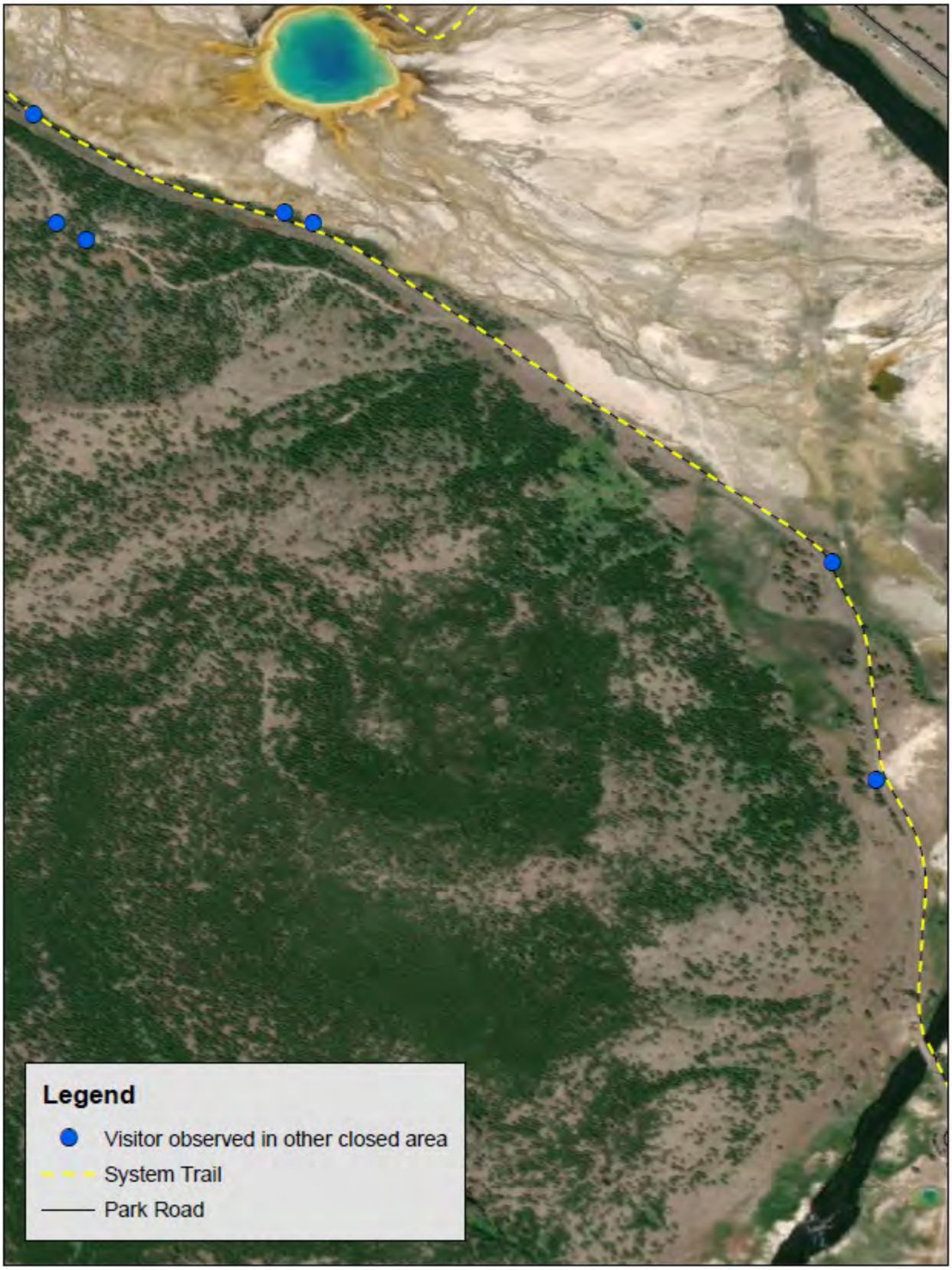
Code = OB2, > 1m off boardwalk in thermal area



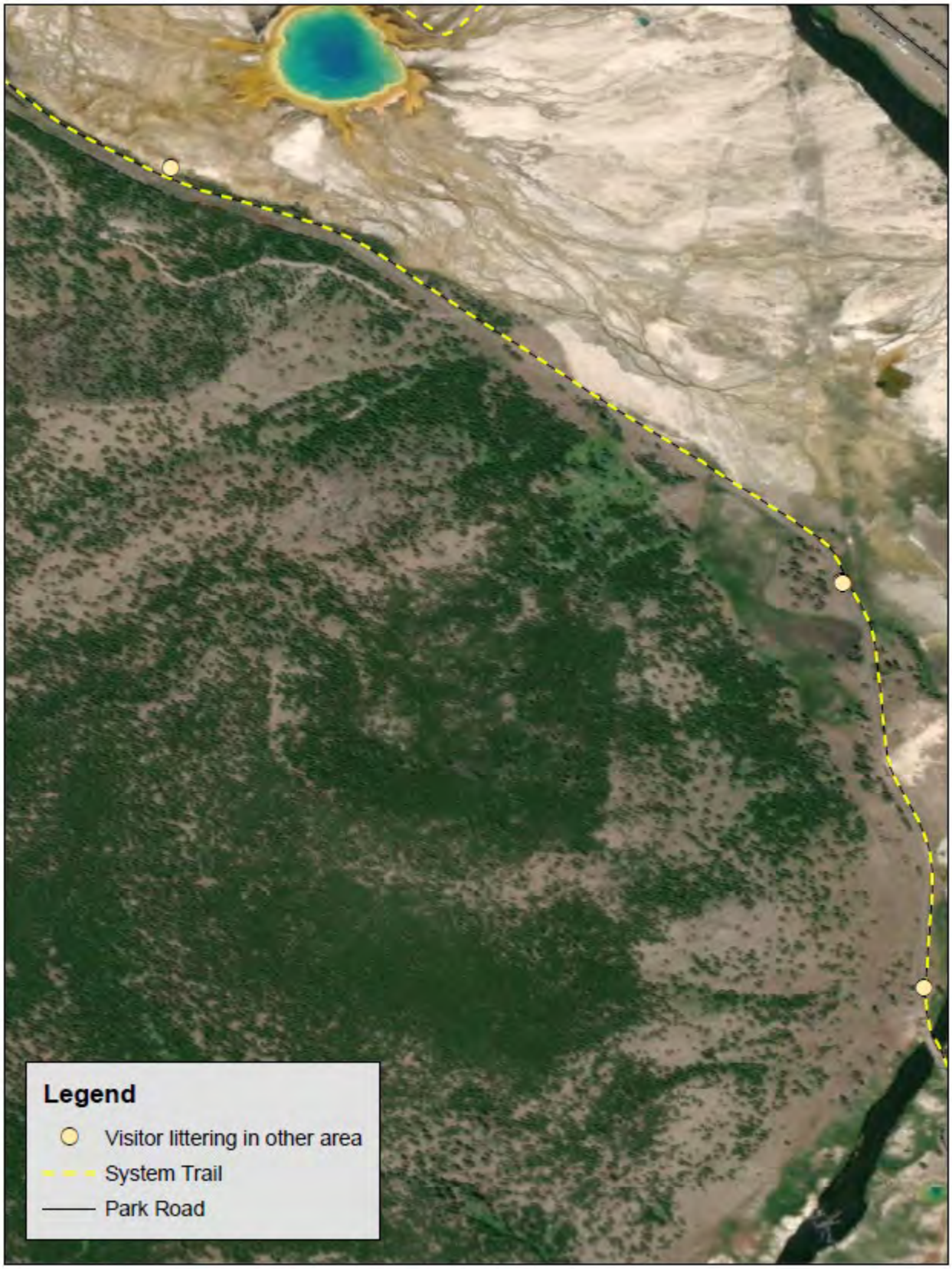
Code = THLIT1, visitor littering in thermal area



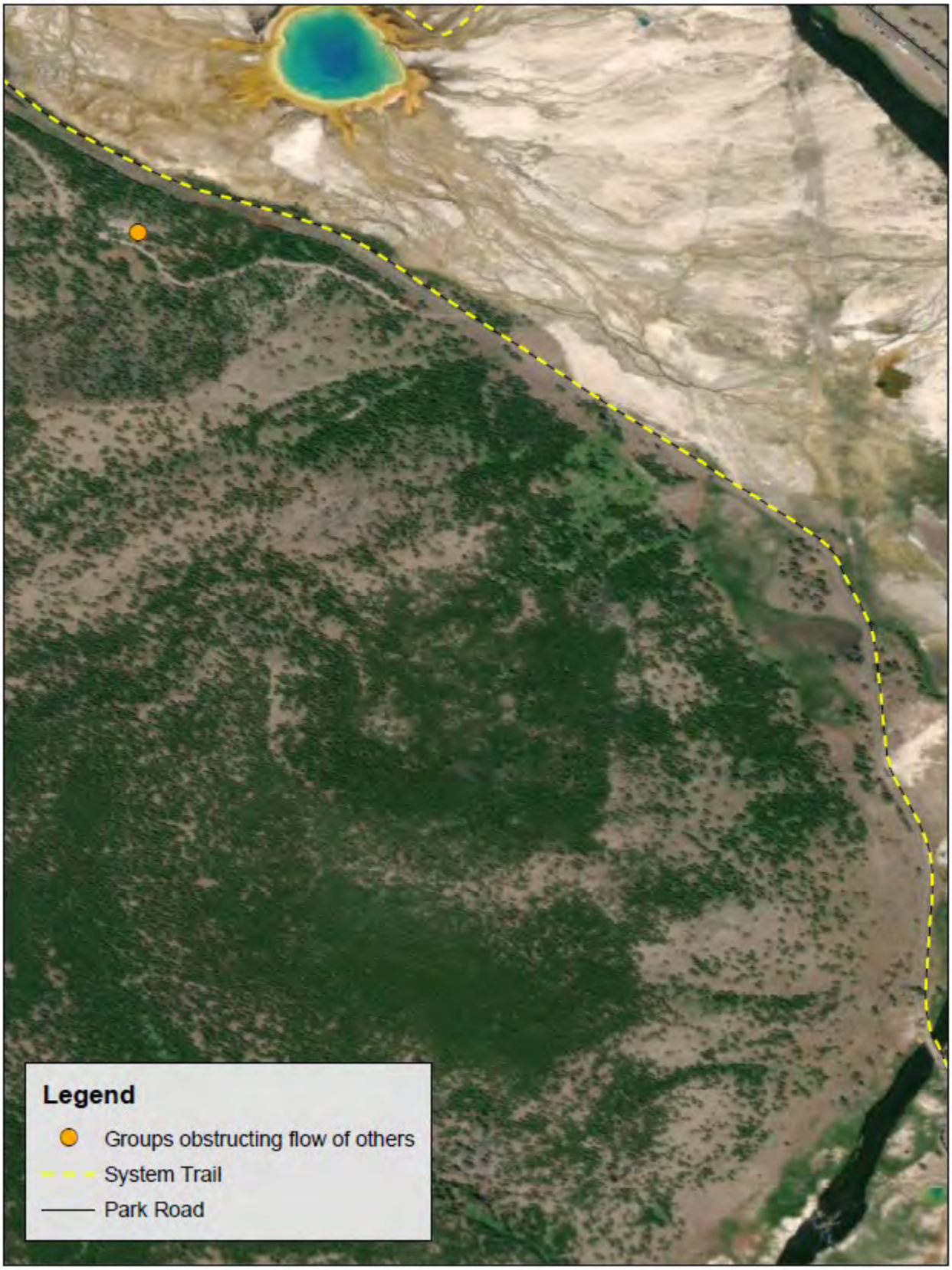
Code = OB3, visitor observed in other closed area



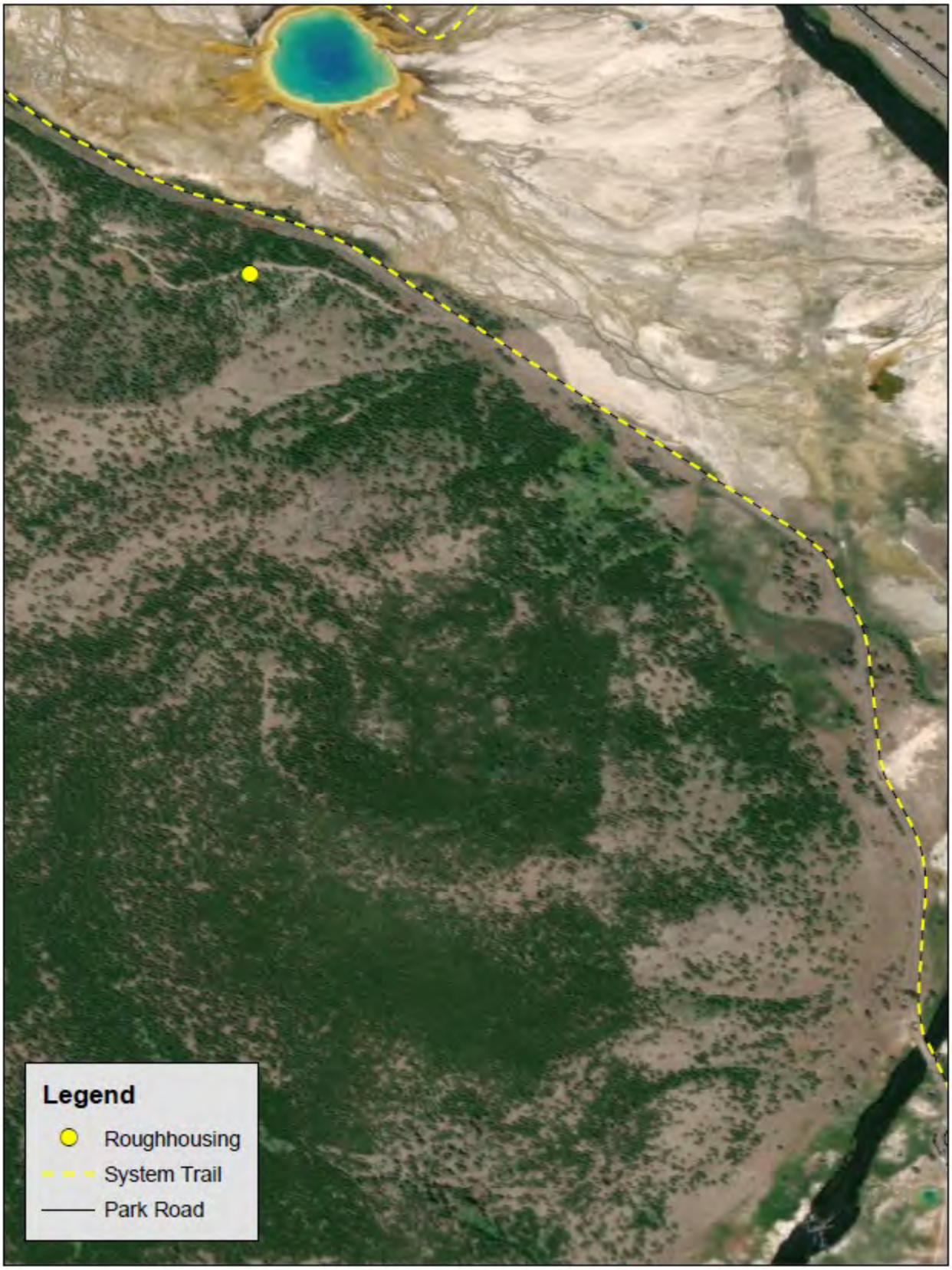
Code = LIT1, visitor littering in other area



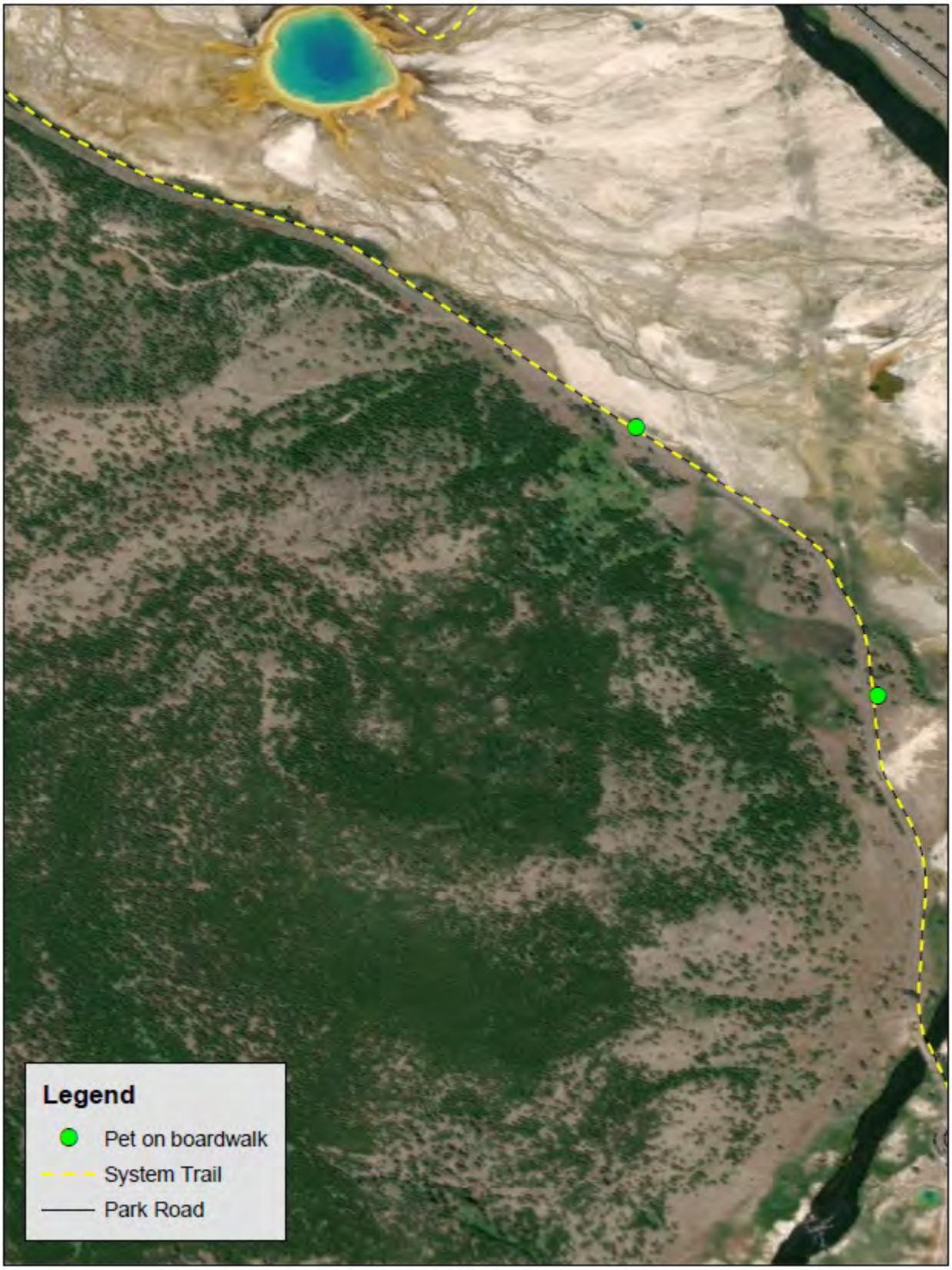
Code = FLOW, groups obstructing flow of others waypoints



Code = ROUGH, Roughhousing

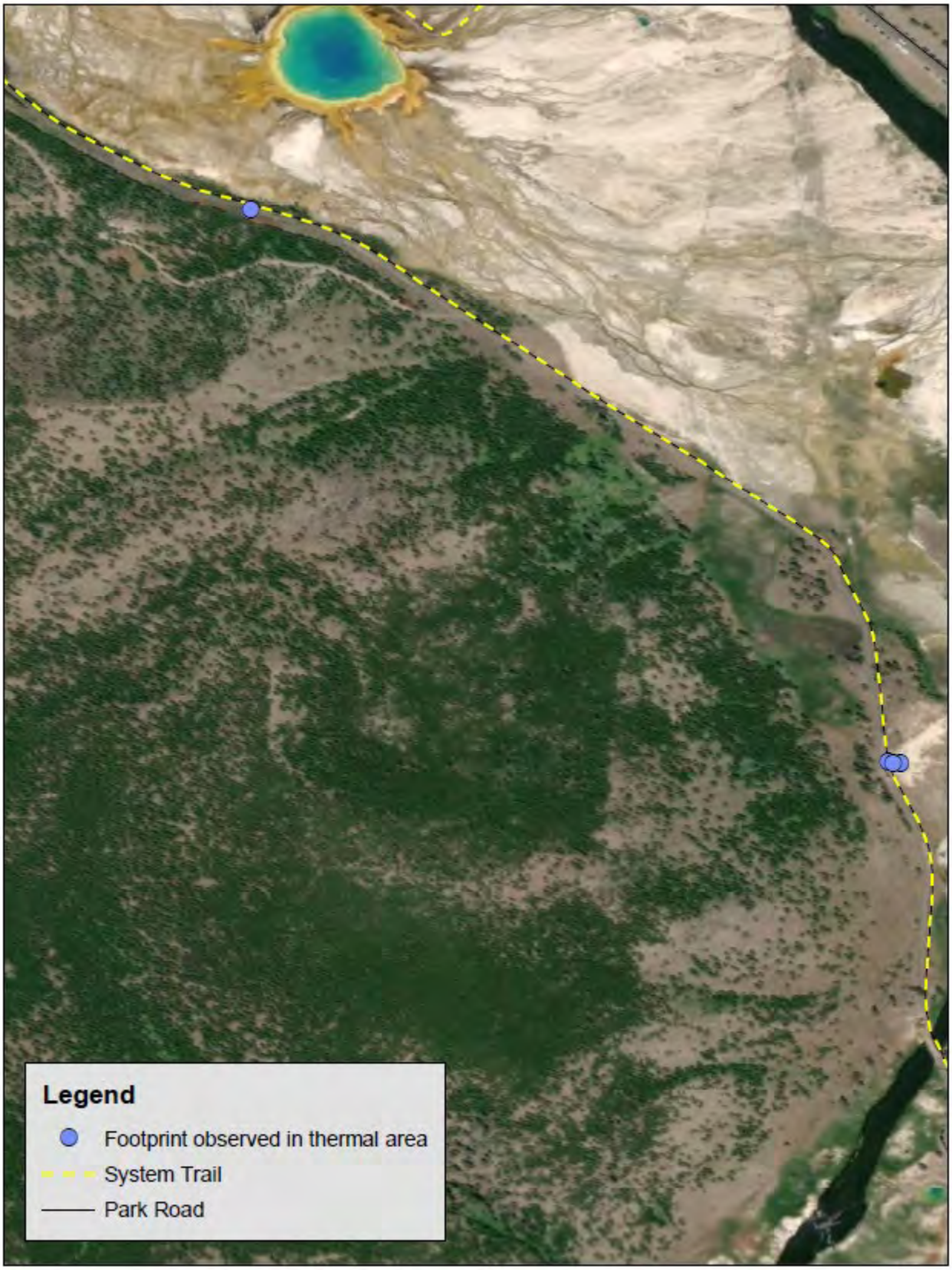


Code = PET1, pet on boardwalk

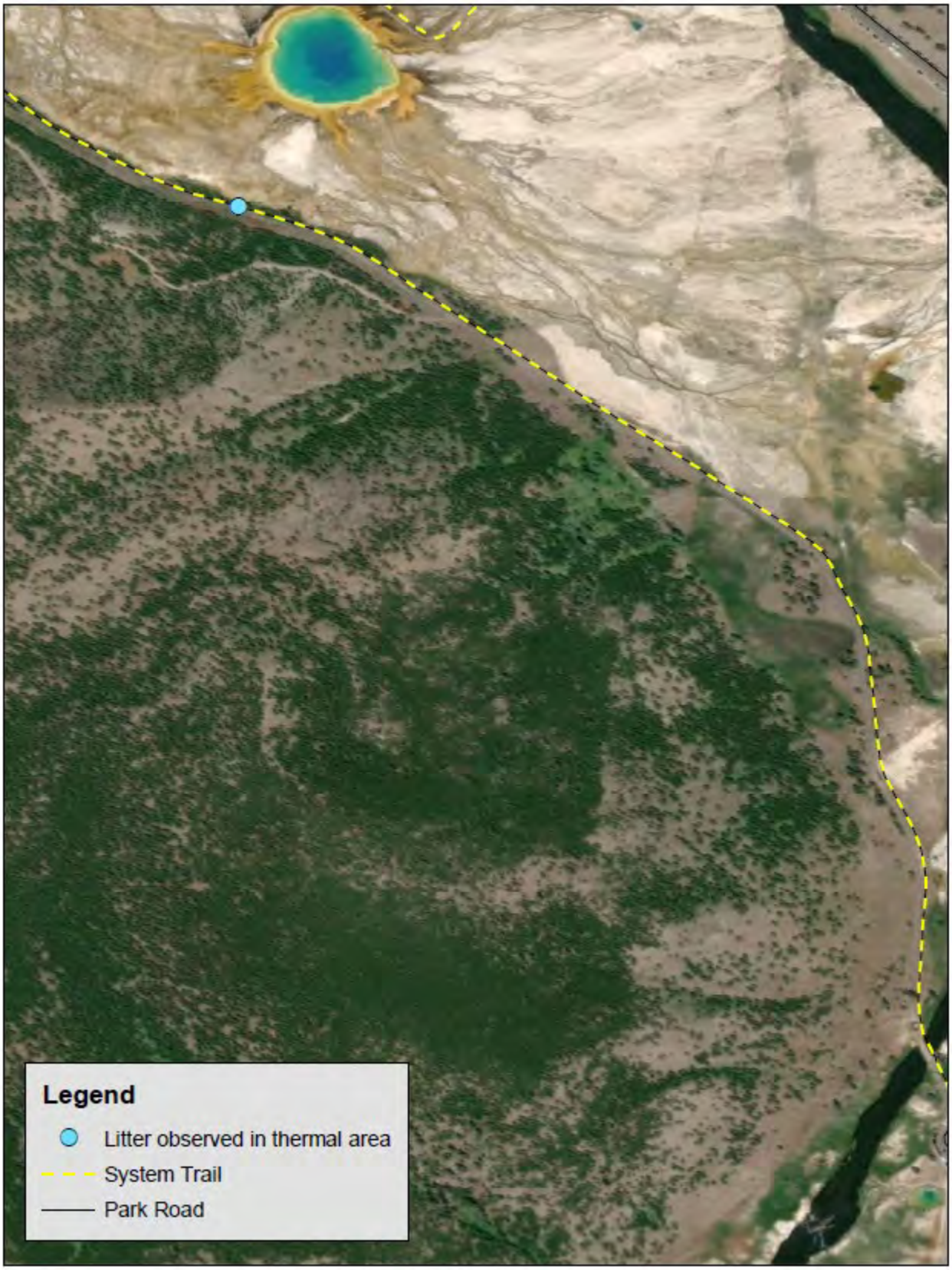


Resource Impact Behavior Waypoints

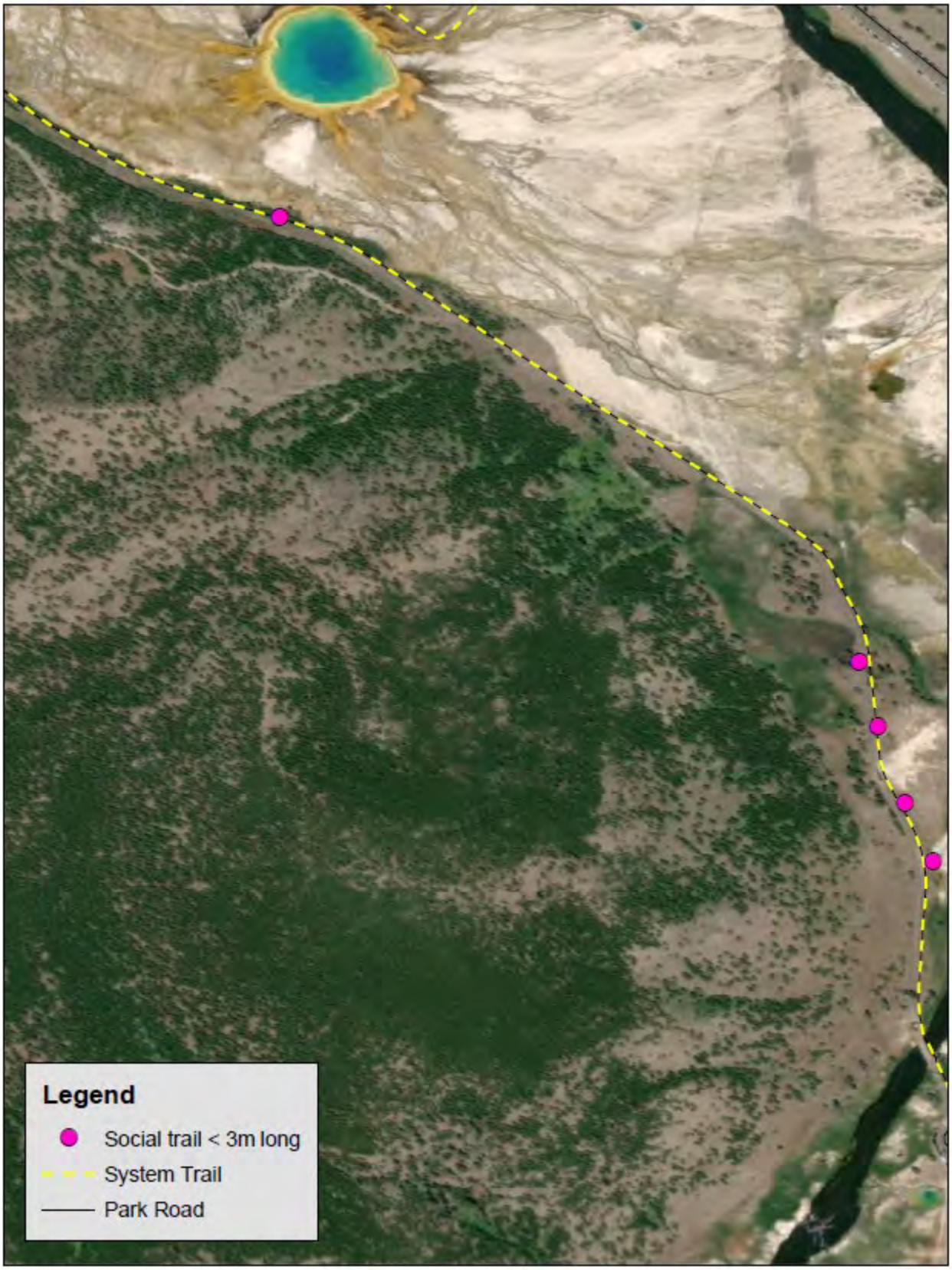
Code = FOOT, footprints observed in thermal area



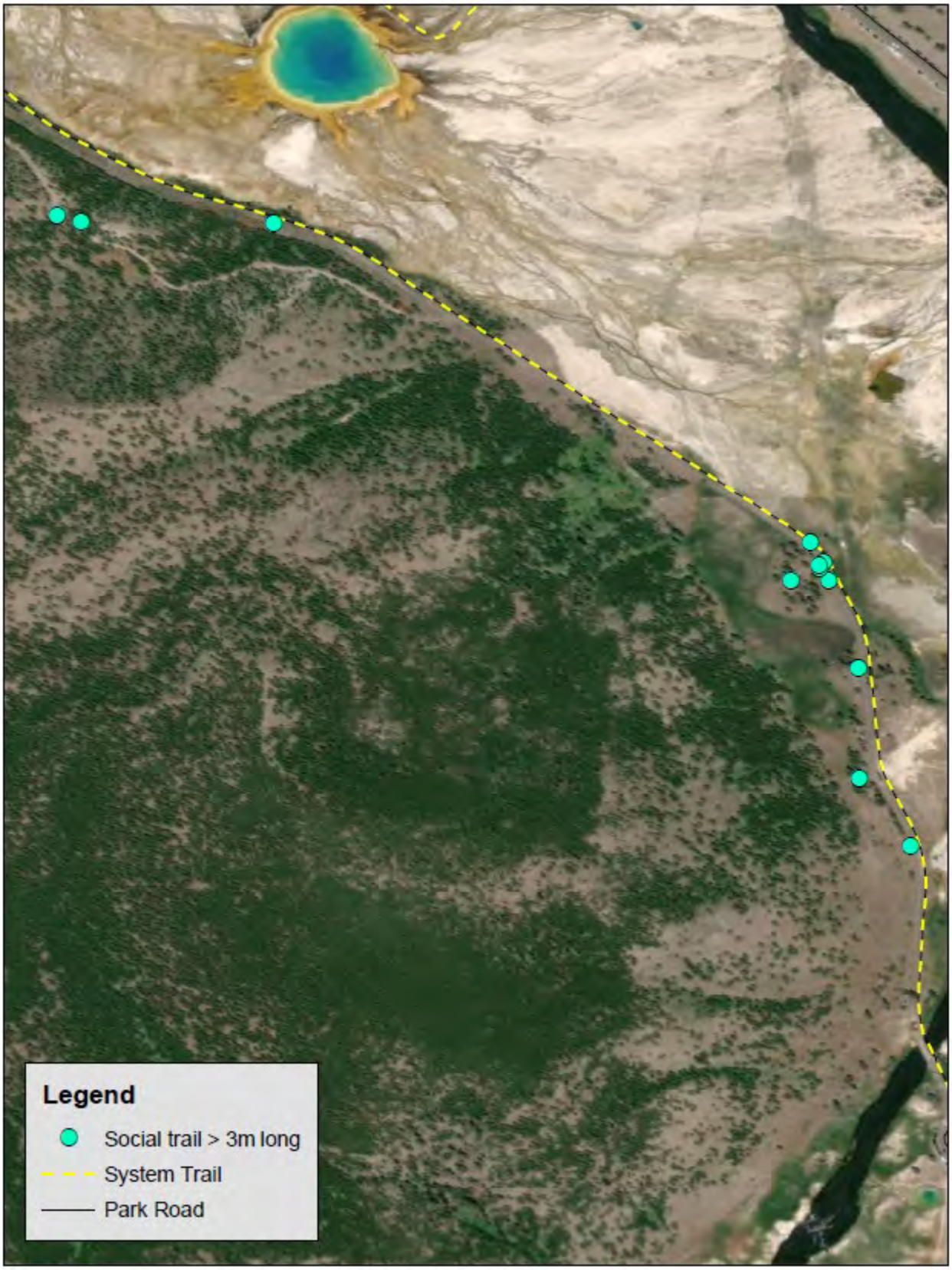
Code = THLIT2, litter observed in thermal area



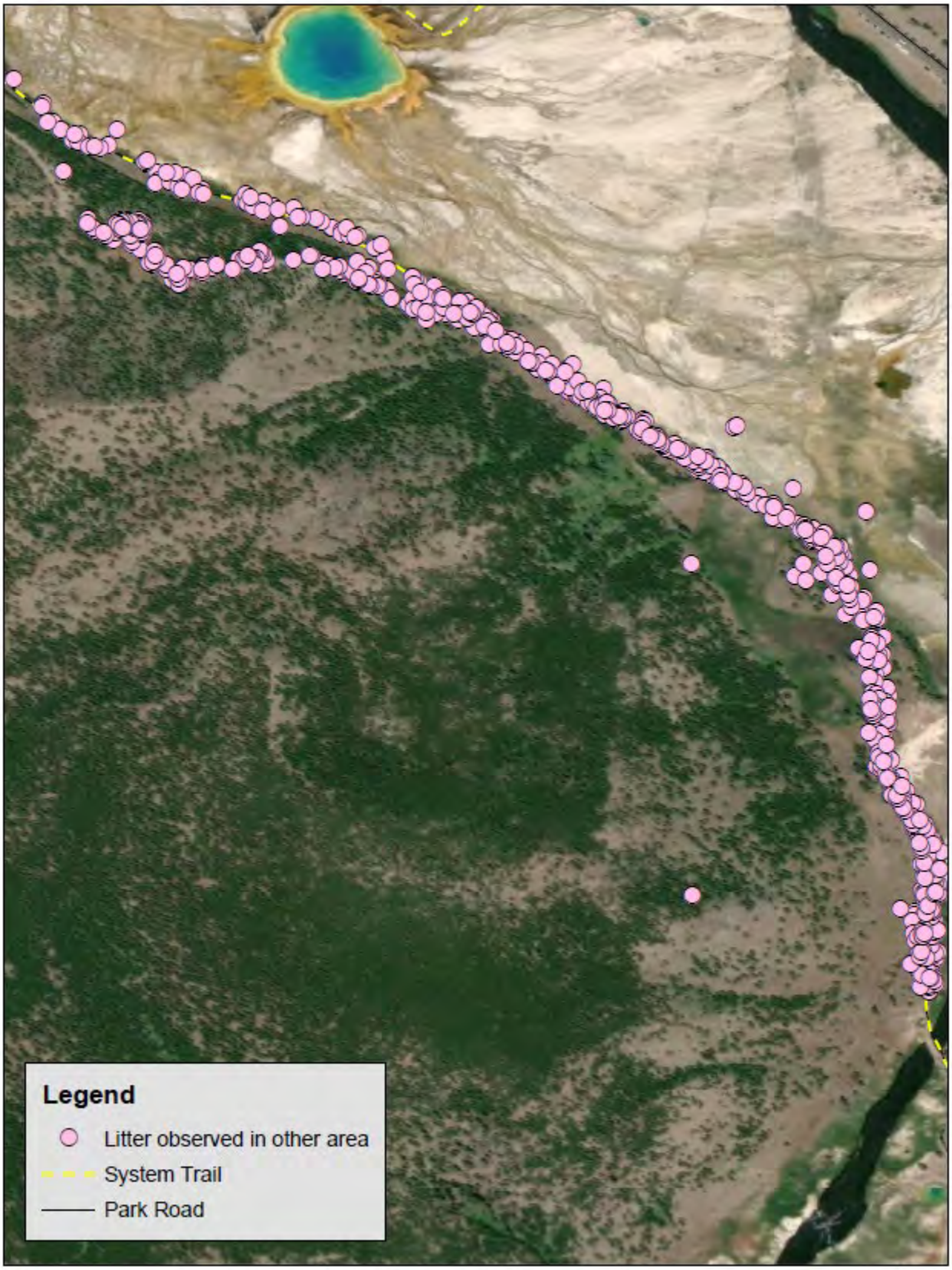
Code = SOC1, social trail < 3m long



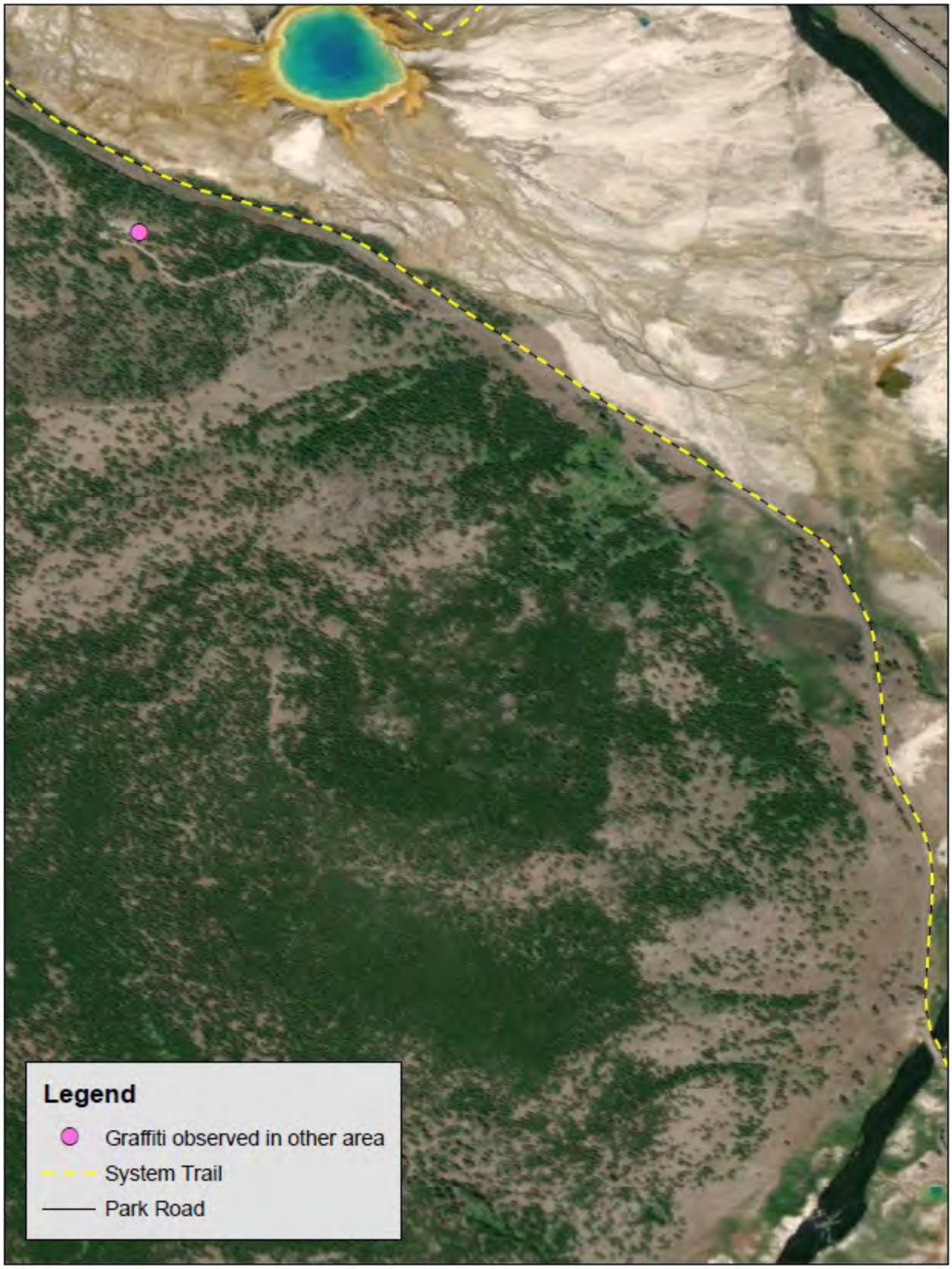
Code = SOC2, social trail > 3m long



Code = LIT2, litter observed in other area



Code = GRAF2, graffiti observed in other area



Waypoints Labeled as ‘OTHER,’ ‘OTHER1,’ ‘OTHER2,’ or Mislabeled

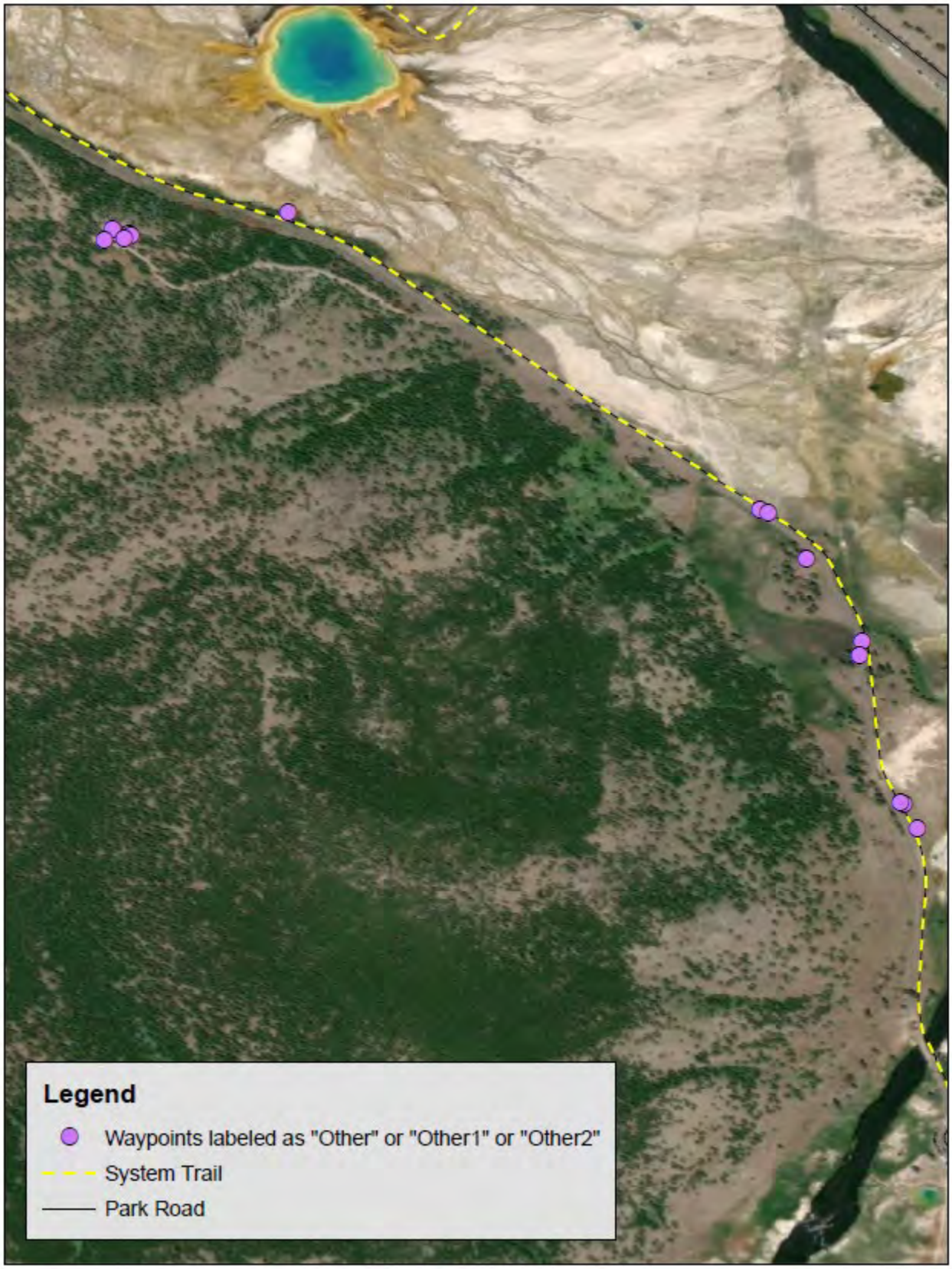


Table of data collector provided comments for waypoints labeled as ‘Other,’ ‘Other1,’ ‘Other2,’ or Mislabeled

Waypoint Label	Waypoint Comment
OTHER	Wires torn out of ground? Electrical wire still in the casing
OTHER1	People taking park resources (5/6 sticks)
OTHER1	Backpack outside of fence
OTHER1	Man sitting on railing
OTHER1	Visitor climbing on fence
OTHER1	Visitor climbing on fence
OTHER1	Dog poop
OTHER1	Dog poop
OTHER1	Bike on trail
OTHER1	Bike on trail
OTHER1	2 visitors off trail
OTHER1	Bicycle on trail (that isn’t permitted)
OTHER1	Hat left on log
OTHER1	Hiker stepped off trail
OTHER2	Woman on railing
OBS/LIT2 (Mislabeled)	Social trail/sticker

Fairy Falls Waypoint Mapping Results by Date

Resource Impact Waypoint Categories	6/18/2018	6/22/2018	6/28/2018	7/3/2018	7/23/2018	7/27/2018	7/31/2018	8/8/2018
FOOT	0	0	1	1	0	1	1	1
OBJ2	0	0	0	0	0	0	0	0
THLIT2	0	0	0	1	0	0	0	0
THROW2	0	0	0	0	0	0	0	0
THGRAF2	0	0	0	0	0	0	0	0
SOC1	0	0	1	3	0	0	0	1
SOC2	0	1	0	2	0	2	0	8
LIT2	34	12	117	168	150	115	262	137
GRAF2	0	1	0	0	0	0	0	0
OTHER1	2	4	0	4	0	1	1	1
Resource Impact Behavior Waypoint Categories								
OB1	1	1	1	0	2	2	1	0
OB2	0	0	0	1	0	0	0	0
OBJ1	0	0	0	0	0	0	0	0
THLIT1	0	0	0	0	0	0	1	0
THROW1	0	0	0	0	0	0	0	0
THGRAF1	0	0	0	0	0	0	0	0
OB3	0	2	0	0	0	0	0	5
LIT1	0	2	1	0	0	0	0	1
NOISE1	0	0	0	0	0	0	0	0
GRAF1	0	0	0	0	0	0	0	0
OTHER1	2	4	0	4	0	1	1	1
FLOW	0	0	0	0	0	0	0	1
ROUGH	1	0	0	0	0	0	0	0
NOISE2	0	0	0	0	0	0	0	0
CON1	0	0	0	0	0	0	0	0
CON2	0	0	0	0	0	0	0	0
PET1	0	0	1	1	0	0	0	0
PET2	0	0	0	0	0	0	0	0
FEED	0	0	0	0	0	0	0	0
WILD1	0	0	0	0	0	0	0	0
WILD2	0	0	0	0	0	0	0	0
Total	40	27	122	185	152	122	267	156

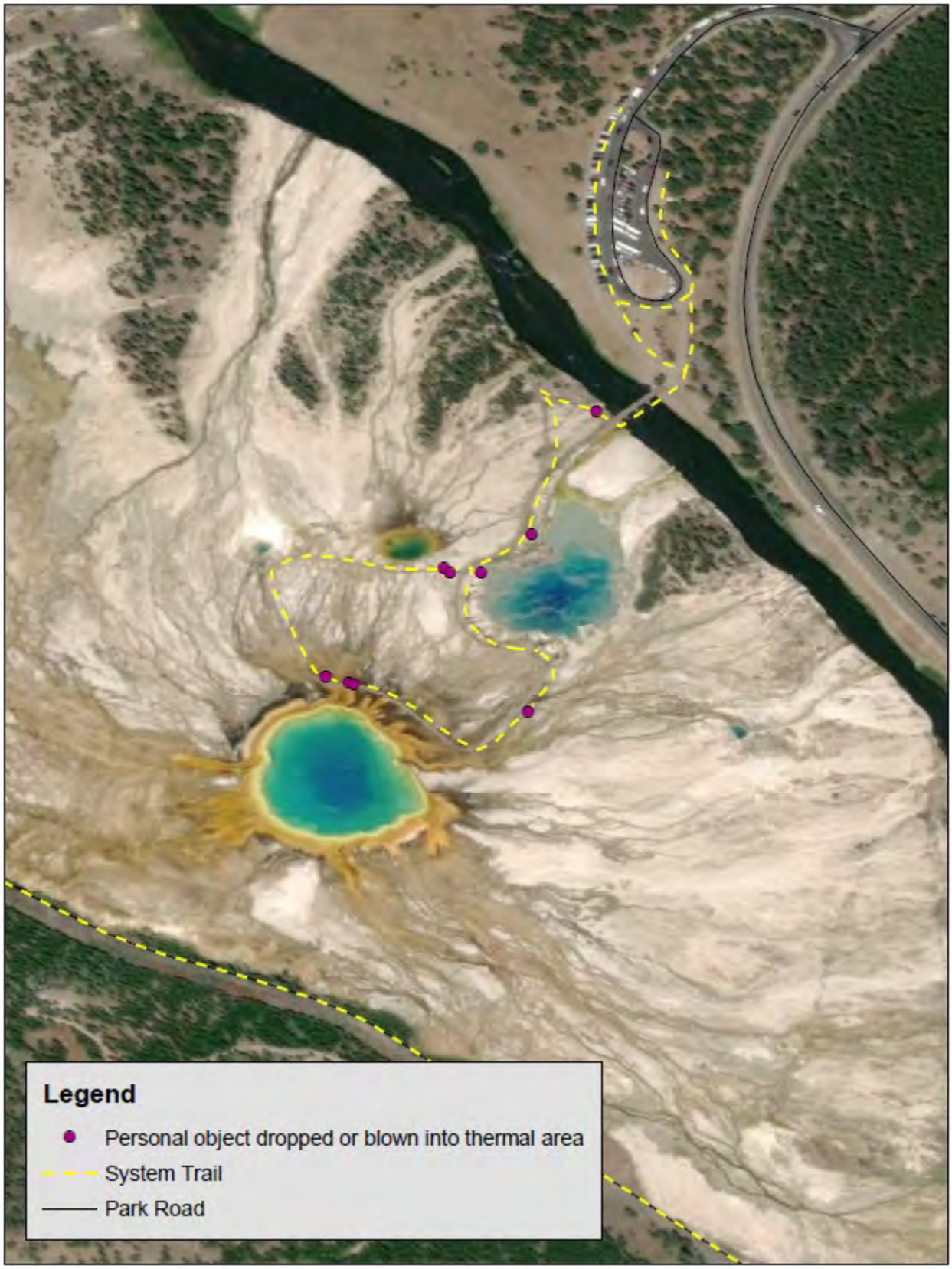
Midway Geyser Basin Waypoint Mapping Results by Waypoint Code

Visitor Behavior Waypoint Mapping Codes

Code = OB1, < 1m off boardwalk in thermal area

Code = OB2, > 1m off boardwalk in thermal area

Code = OBJ1, personal object dropped or blown into thermal area



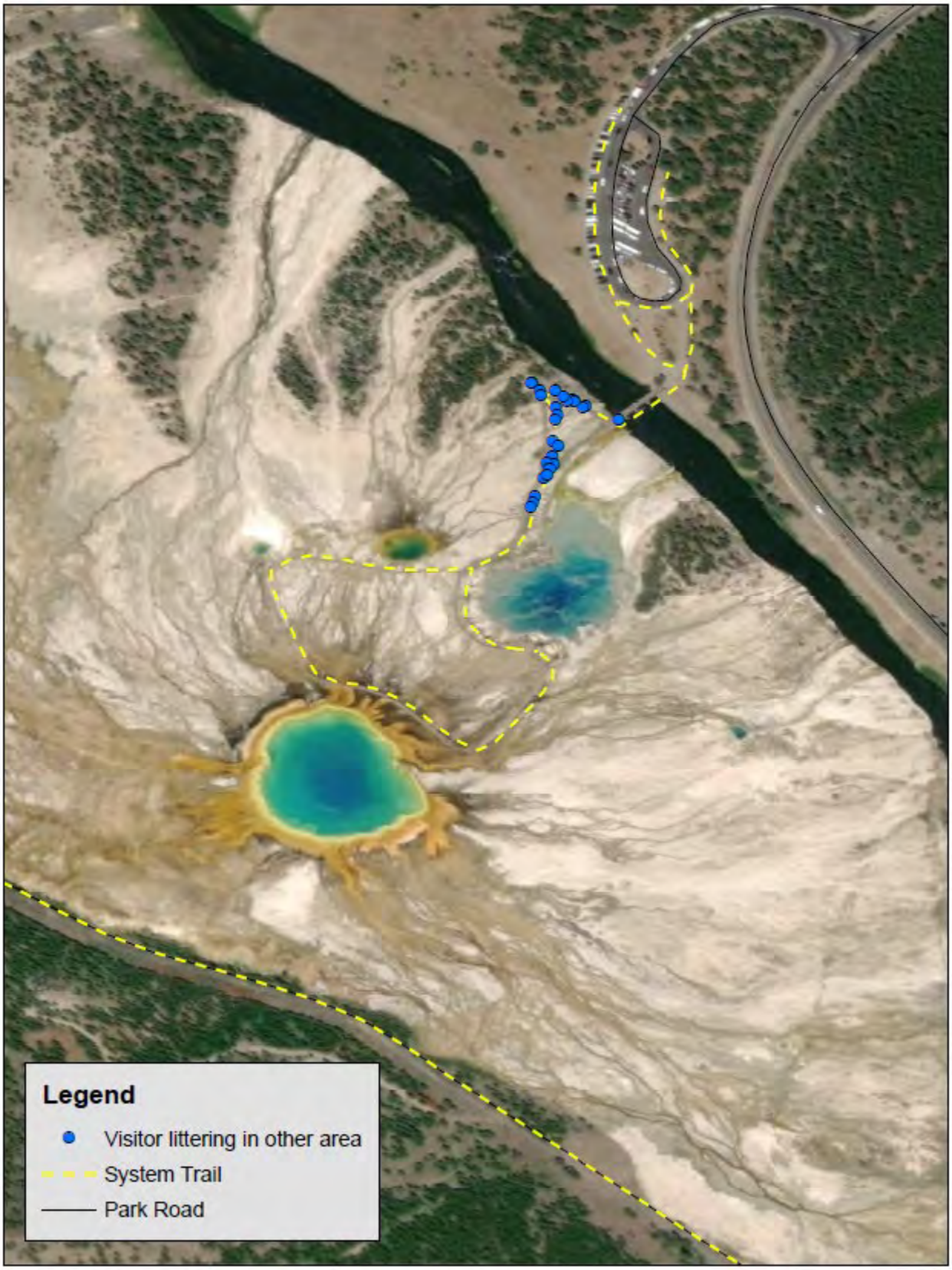
Code = THLIT1, visitor littering in thermal area

Code = THROW1, throwing object into thermal pool

Code = THGRAF1, drawing graffiti in thermal mat

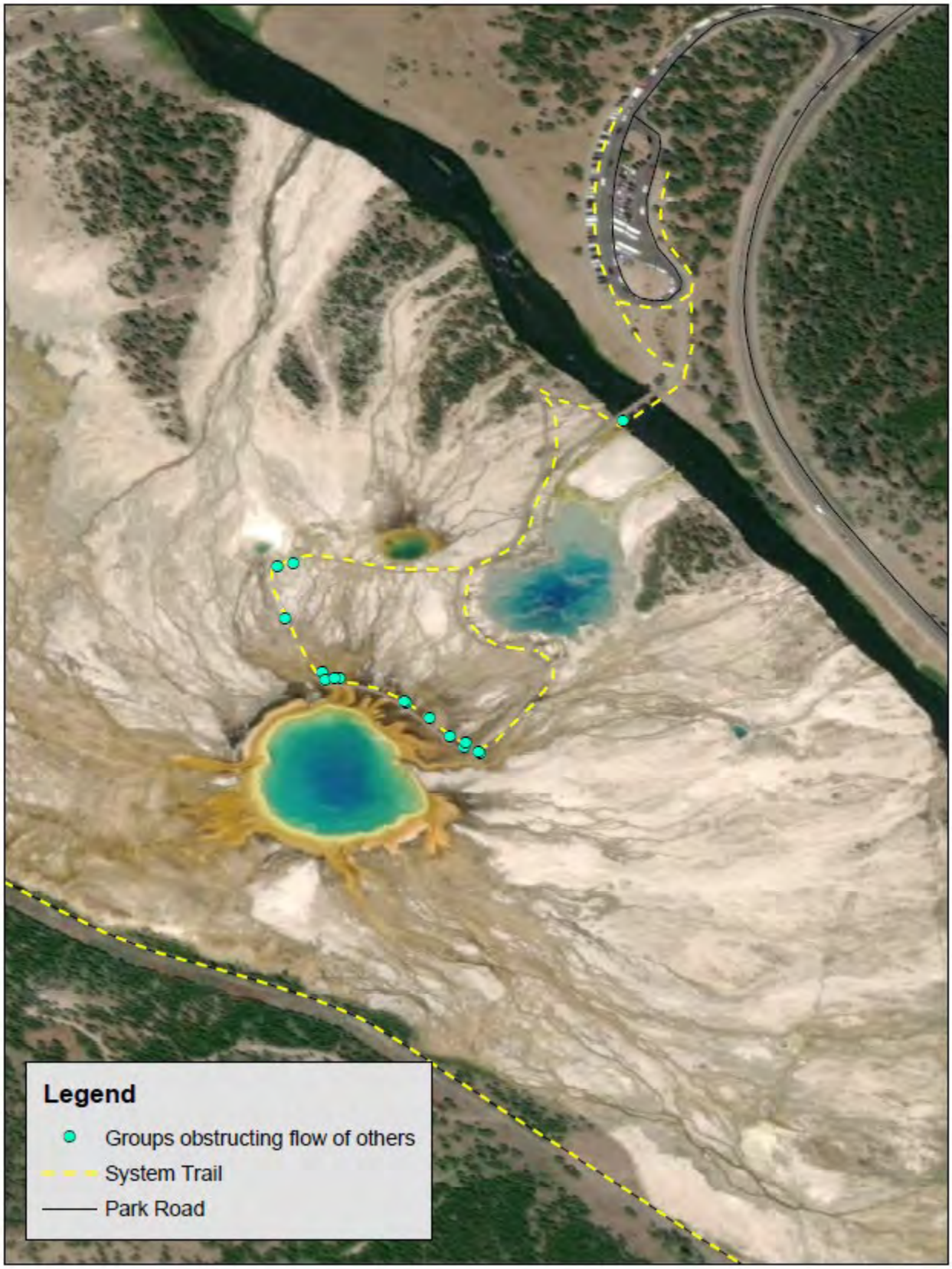
Code = OB3, visitor observed in other closed area

Code = LIT1, visitor littering in other area



Code = NOISE1, excessive traffic noise (e.g., motorcycles, engines, honking)

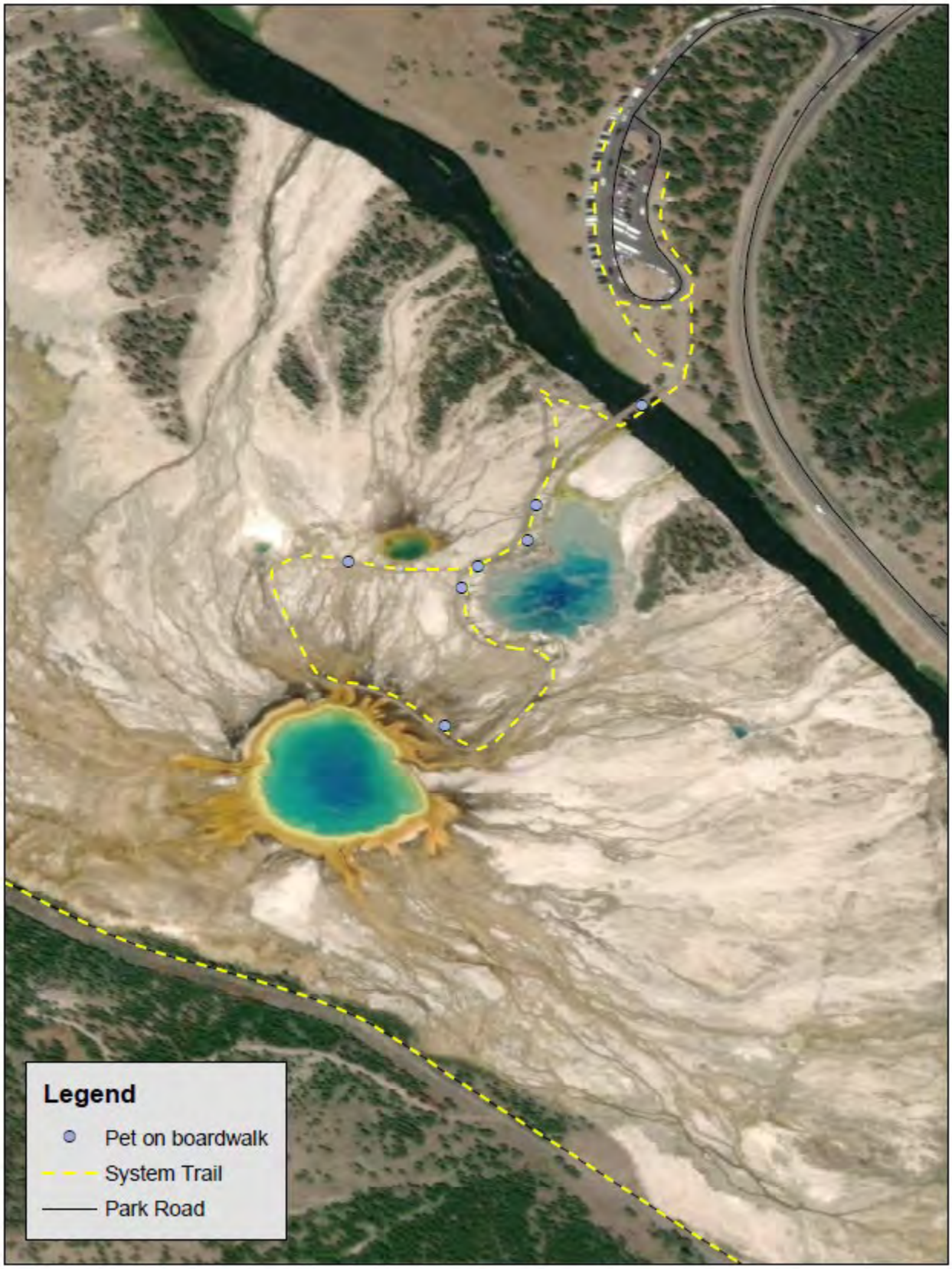
Code = FLOW, groups obstructing flow of others waypoints



Code = ROUGH, Roughhousing

Code = CON2, verbal visitor conflict (e.g., audible verbal conflict between visitors)

Code = PET1, pet on boardwalk

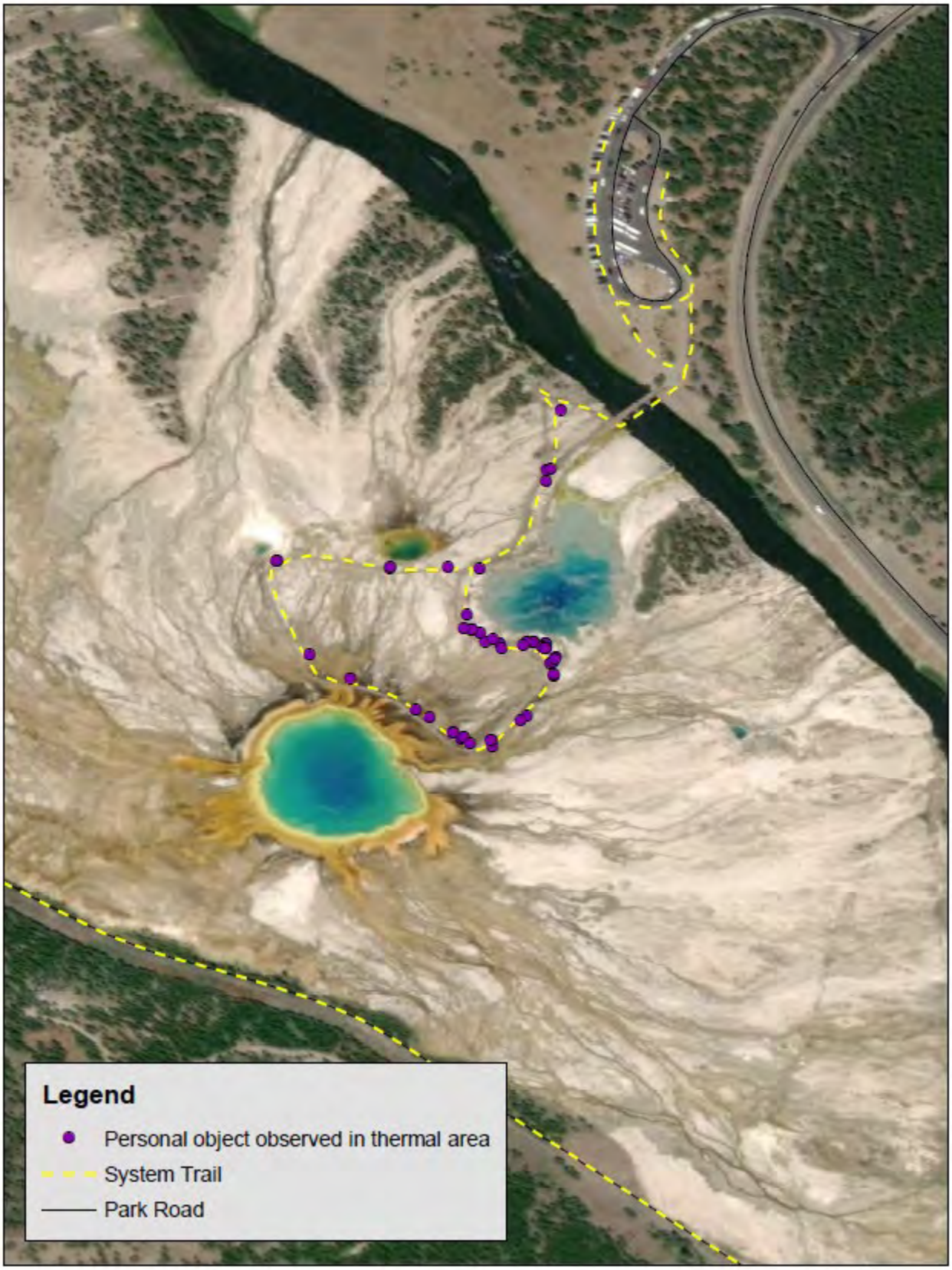


Code = PET2, pet off leash

Resource Impact Behavior Waypoints

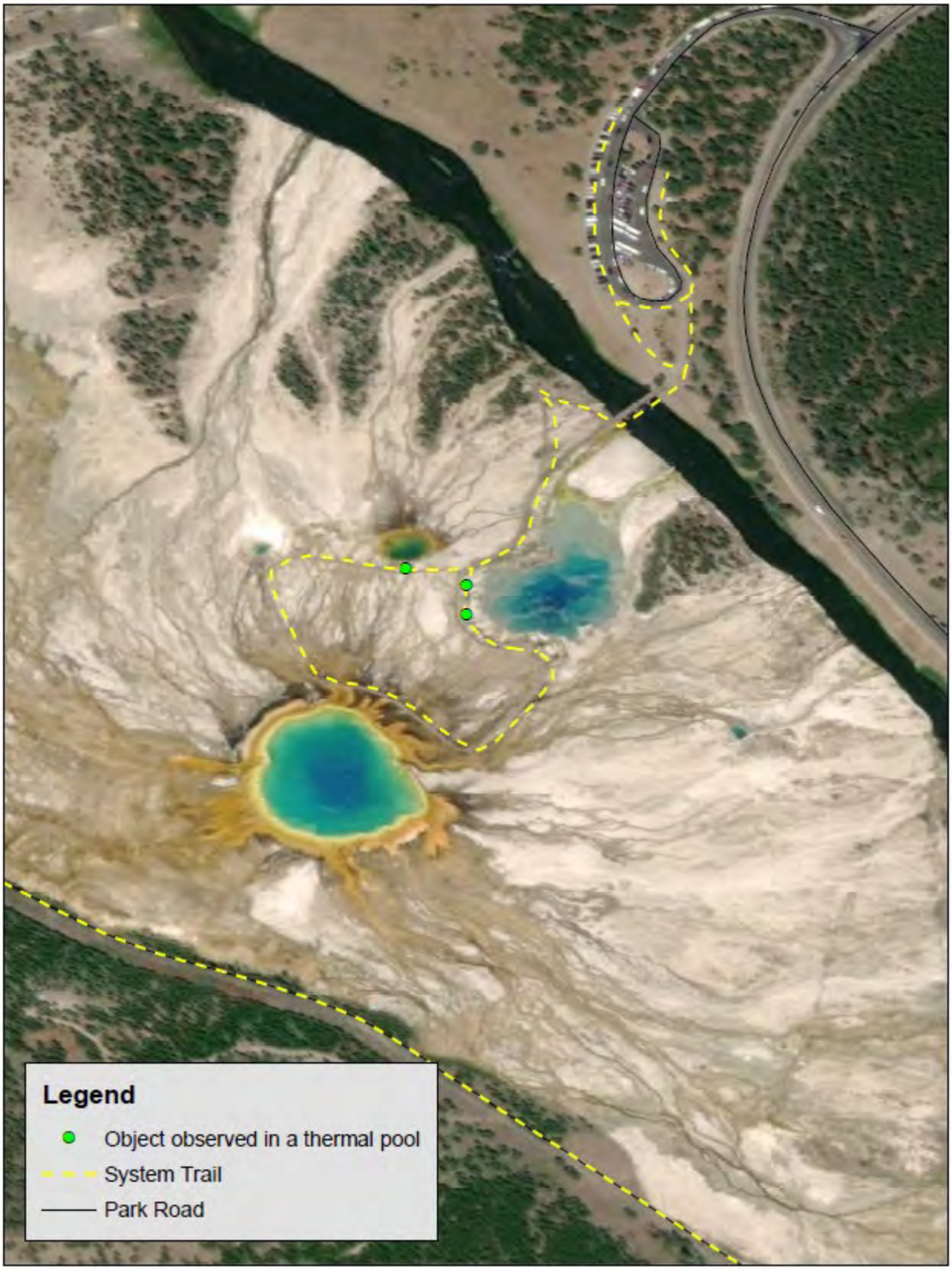
Code = FOOT, footprints observed in thermal area

Code = OBJ2, personal object observed in thermal area (e.g., hat, bottle)

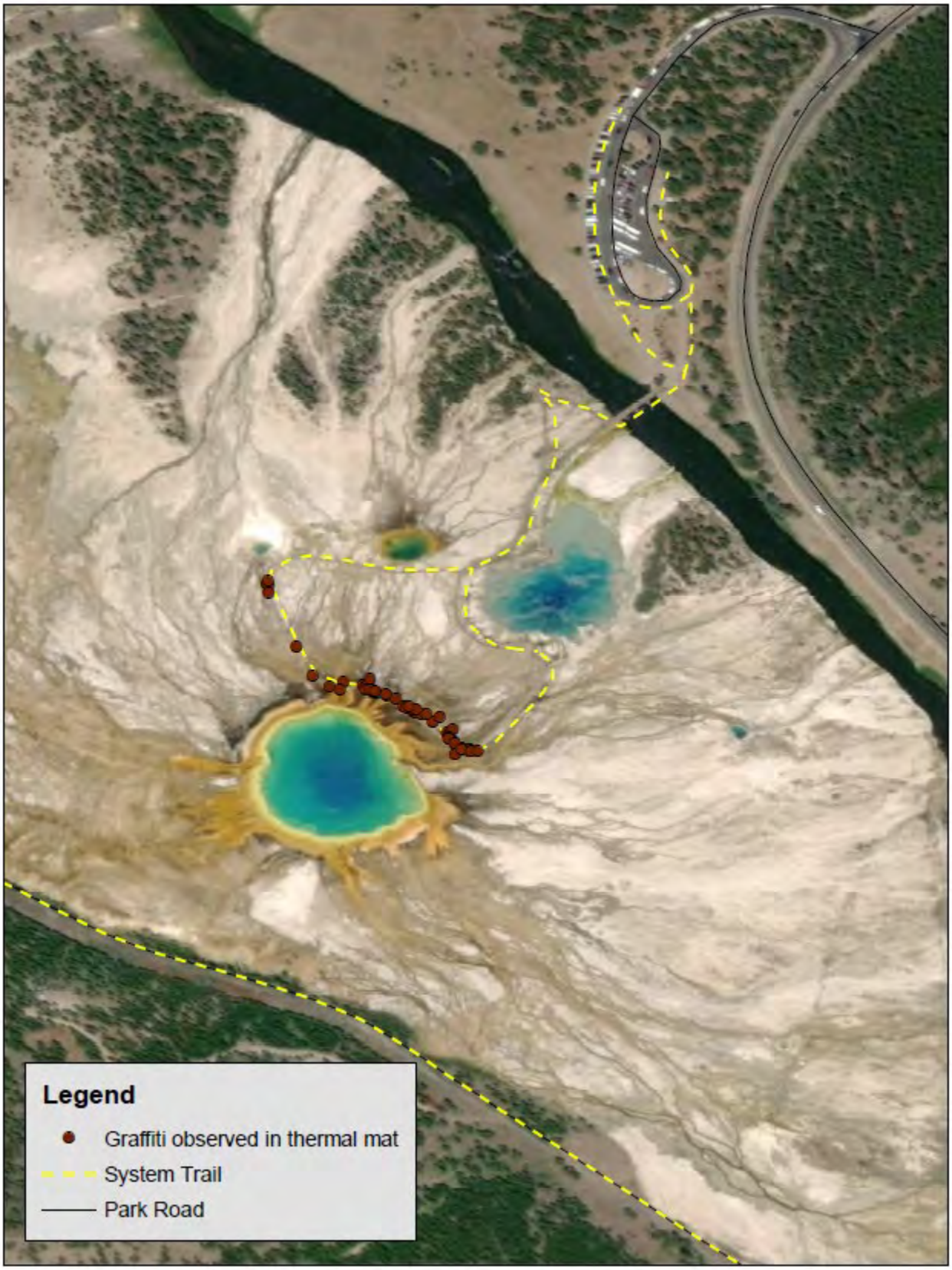


Code = THLIT2, litter observed in thermal area

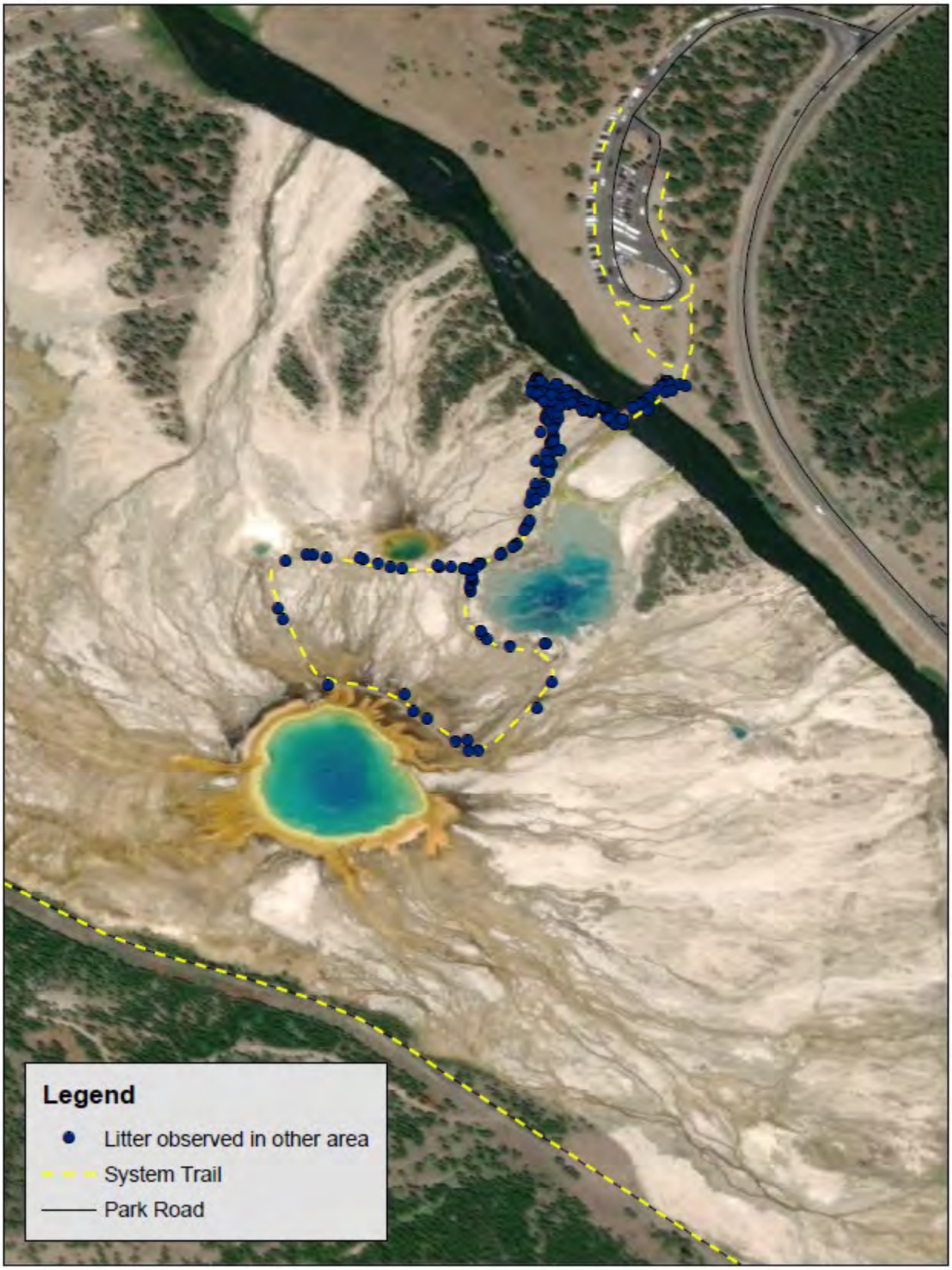
Code = THROW 2, object observed in thermal pool



Code = THGRAF2, graffiti observed in thermal mat



Code = LIT2, litter observed in other area



Waypoints Labeled as ‘OTHER’ or ‘OTHER1’

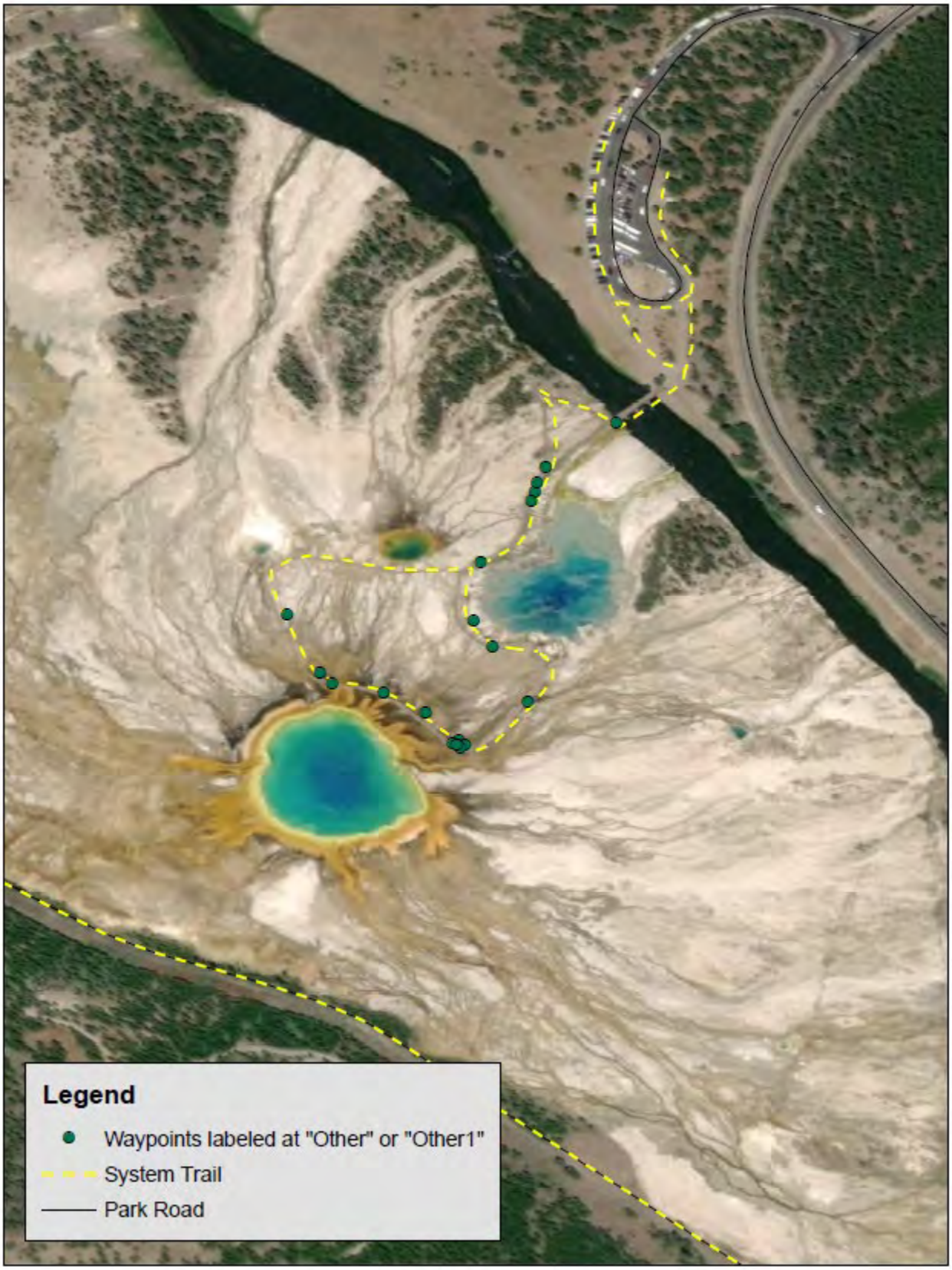


Table of data collector provided comments for waypoints labeled as ‘Other’ or ‘Other1’

Waypoint Label	Waypoint Comment
OTHER	Visitor standing on railing
OTHER	Broken boardwalk
OTHER	Hand in thermal feature
OTHER	Standing on benches (safety)
OTHER	Standing on benches (safety)
OTHER	Standing on benches (safety)
OTHER	Children over edge of boardwalk
OTHER1	Removing stick from thermal feature
OTHER1	Broken board in boardwalk, hazardous
OTHER1	Kid poking water with bottom of water bottle
OTHER1	Holes in bacterial mats due to fingers being stuck in
OTHER1	Visitor eating chips
OTHER1	Four people standing on bench
OTHER1	Visitors standing on benches
OTHER1	Standing on bench
OTHER1	Person touching hot spring
OTHER1	Seed shells in thermal area
OTHER1	0 (no description provided)
OTHER1	0 (no description provided)
OTHER1	0 (no description provided)

Midway Geyser Basin Waypoint Mapping Results by Date

Resource Impact Waypoint Categories	6/21/2018	6/22/2018	6/25/2018	6/29/2018	7/5/2018	7/26/2018	8/1/2018	8/7/2018
FOOT	0	0	0	0	2	10	12	4
OBJ2	0	0	12	8	23	5	7	0
THLIT2	22	15	32	92	145	99	109	71
THROW2	0	0	0	0	3	0	0	0
THGRAF2	0	0	0	0	8	17	19	9
SOC1	0	0	0	0	0	0	0	0
SOC2	0	0	0	0	0	0	0	0
LIT2	5	3	0	4	0	73	257	6
GRAF2	0	0	0	0	0	0	0	0
OTHER1	2	3	0	0	4	3	1	0
Resource Impact Behavior Waypoint Categories								
OB1	1	2	0	0	1	1	1	1
OB2	0	0	0	1	1	1	0	0
OBJ1	0	2	0	0	4	0	3	0
THLIT1	0	0	0	0	0	0	0	0
THROW1	0	0	0	0	0	2	1	0
THGRAF1	0	0	0	0	2	0	3	4
OB3	0	0	0	0	0	0	1	1
LIT1	0	0	0	0	0	0	0	28
NOISE1	0	0	0	0	0	0	0	0
GRAF1	0	0	0	0	0	0	0	0
OTHER1	2	3	0	0	4	3	1	0
FLOW	1	0	9	0	0	5	1	0
ROUGH	0	0	0	0	0	1	0	0
NOISE2	0	0	0	0	0	0	0	0
CON1	0	0	0	0	0	0	0	0
CON2	0	0	0	0	0	1	0	0
PET1	0	0	3	1	3	0	0	0
PET2	0	0	0	0	0	1	0	0
FEED	0	0	0	0	0	0	0	0
WILD1	0	0	0	0	0	0	0	0
WILD2	0	0	0	0	0	0	0	0
Total	33	28	56	106	200	222	416	124

Norris Geyser Basin Waypoint Mapping Results by Waypoint Code

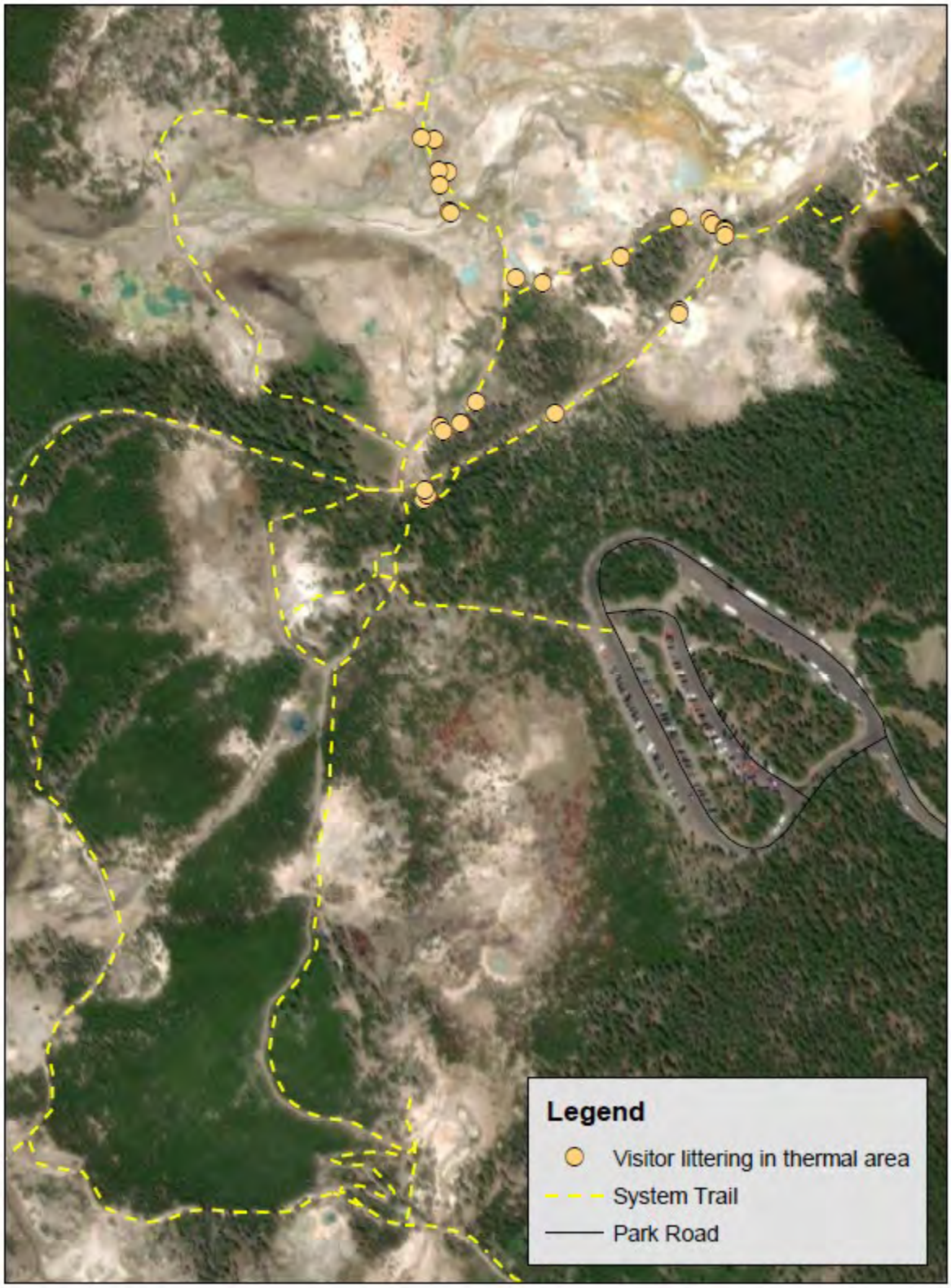
Visitor Behavior Waypoint Mapping Codes

Code = OB1, < 1m off boardwalk in thermal area

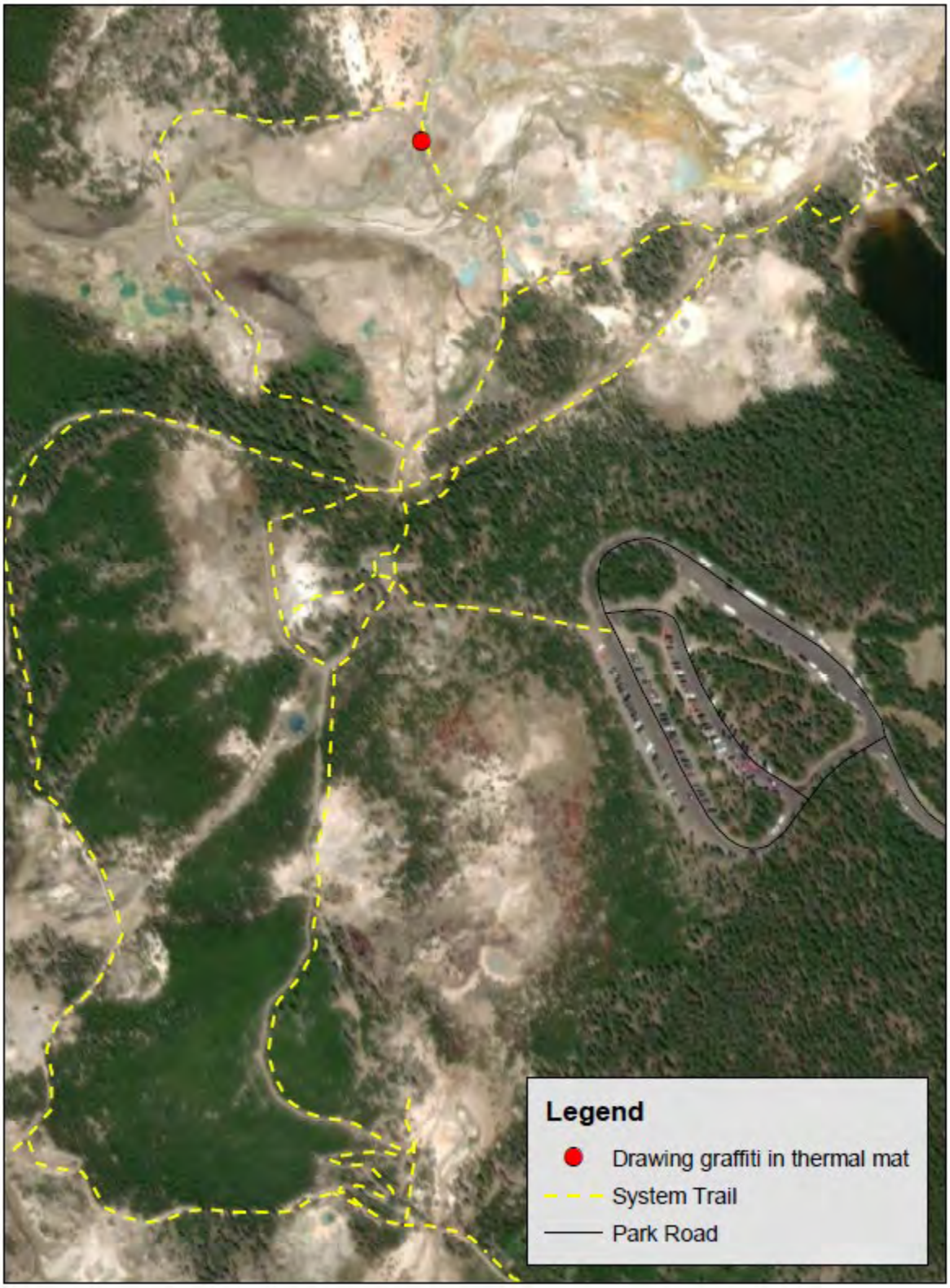
Code = OB2, > 1m off boardwalk in thermal area

Code = OBJ1, personal object dropped or blown into thermal area

Code = THLIT1, visitor littering in thermal area

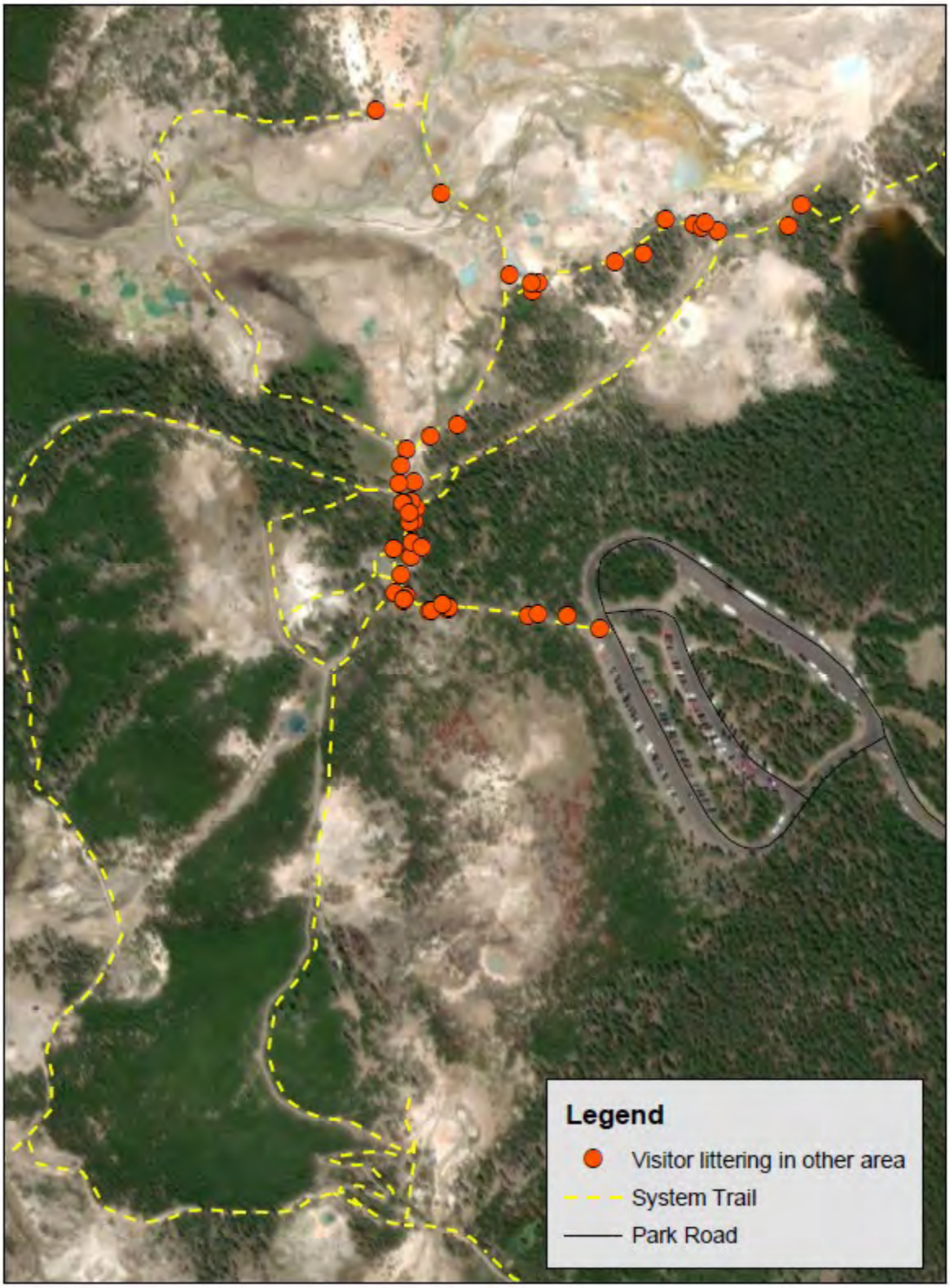


Code = THGRAF1, drawing graffiti in thermal mat

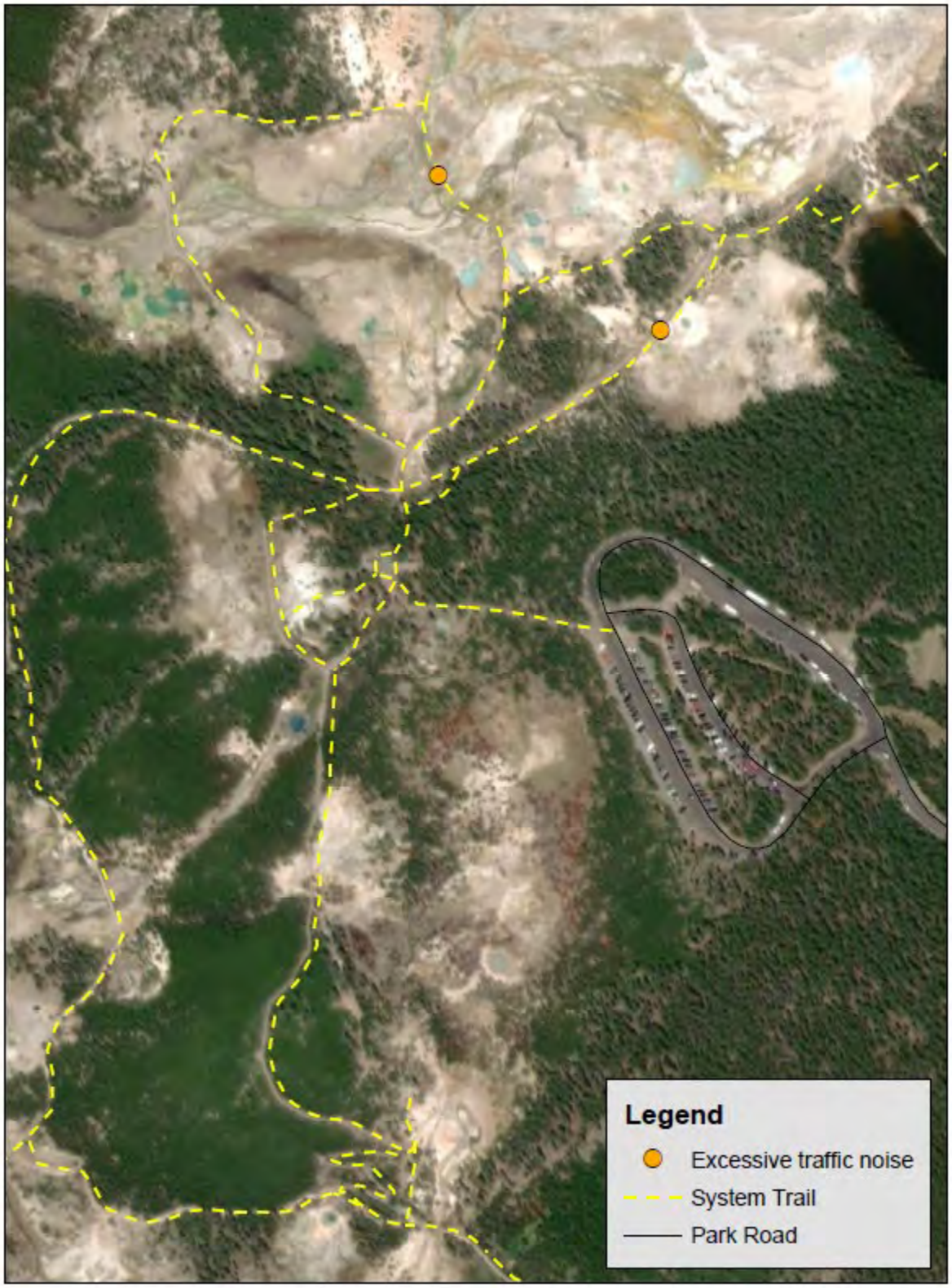


Code = OB3, visitor observed in other closed area

Code = LIT1, visitor littering in other area

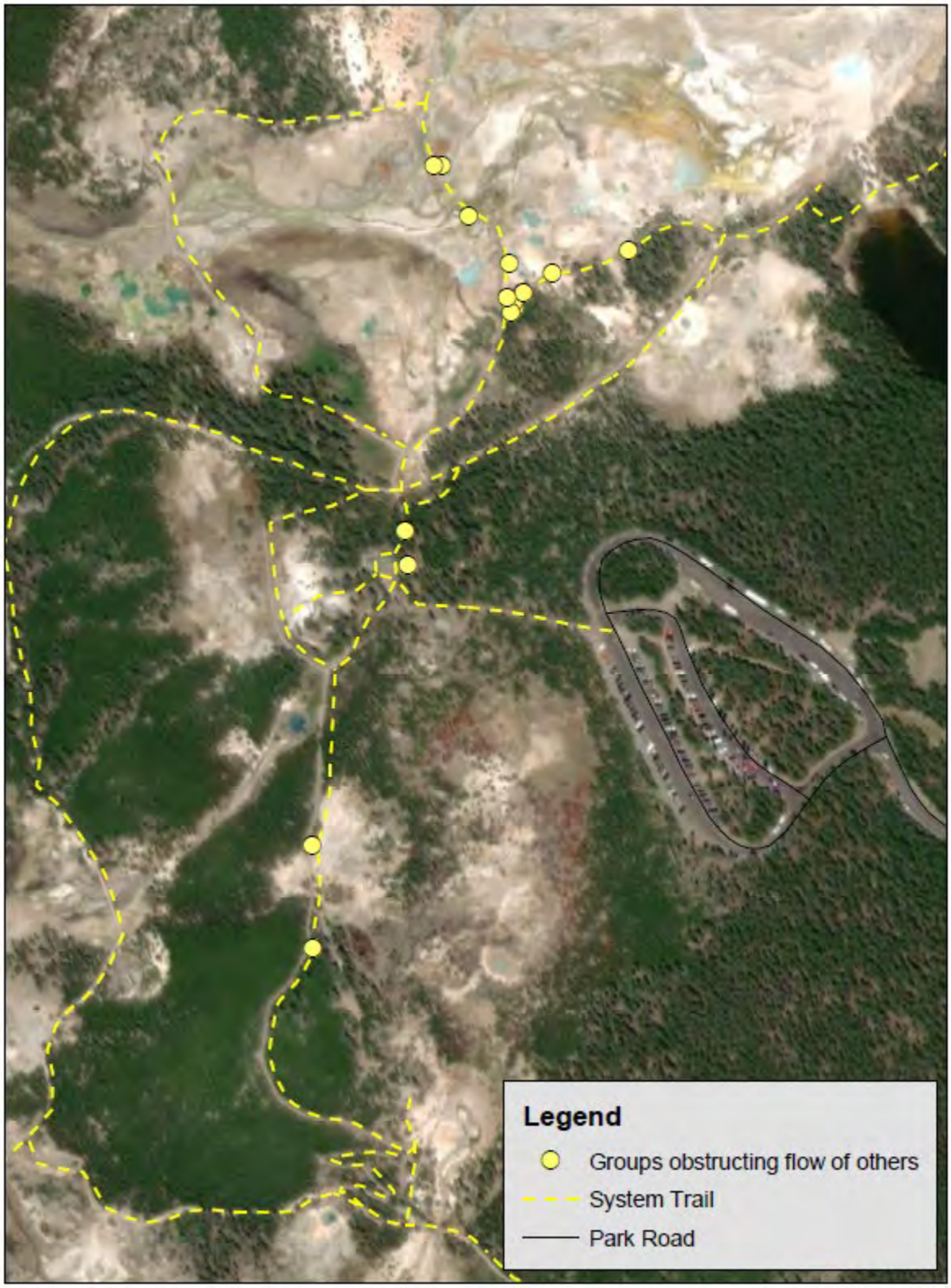


Code = NOISE1, excessive traffic noise (e.g., motorcycles, engines, honking)



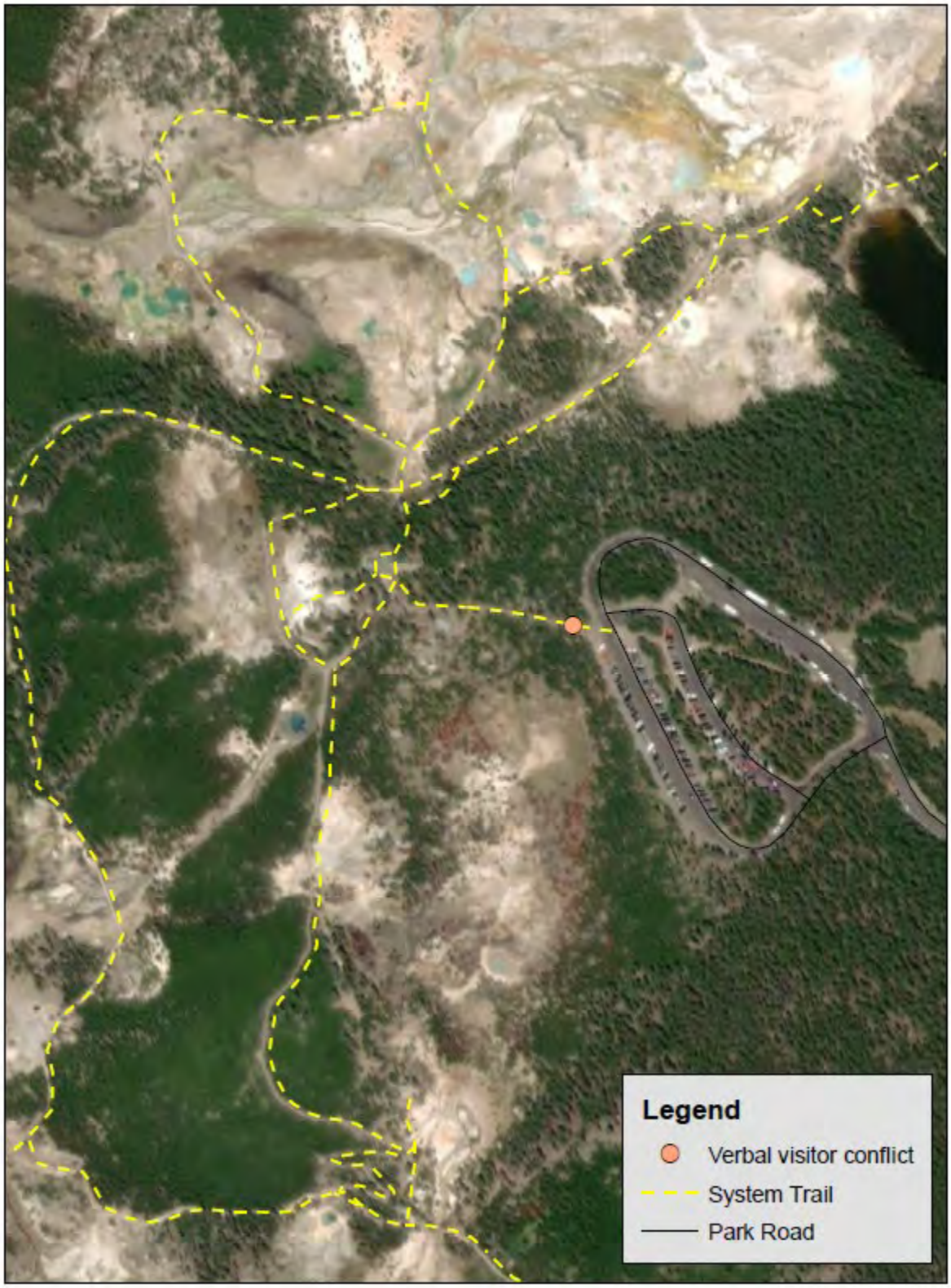
Code = GRAF1, drawing graffiti in other area

Code = FLOW, groups obstructing flow of others waypoints



Code = NOISE2, other excessive human noise (e.g., shouting, music, use of phones)

Code = CON2, verbal visitor conflict (e.g., audible verbal conflict between visitors)

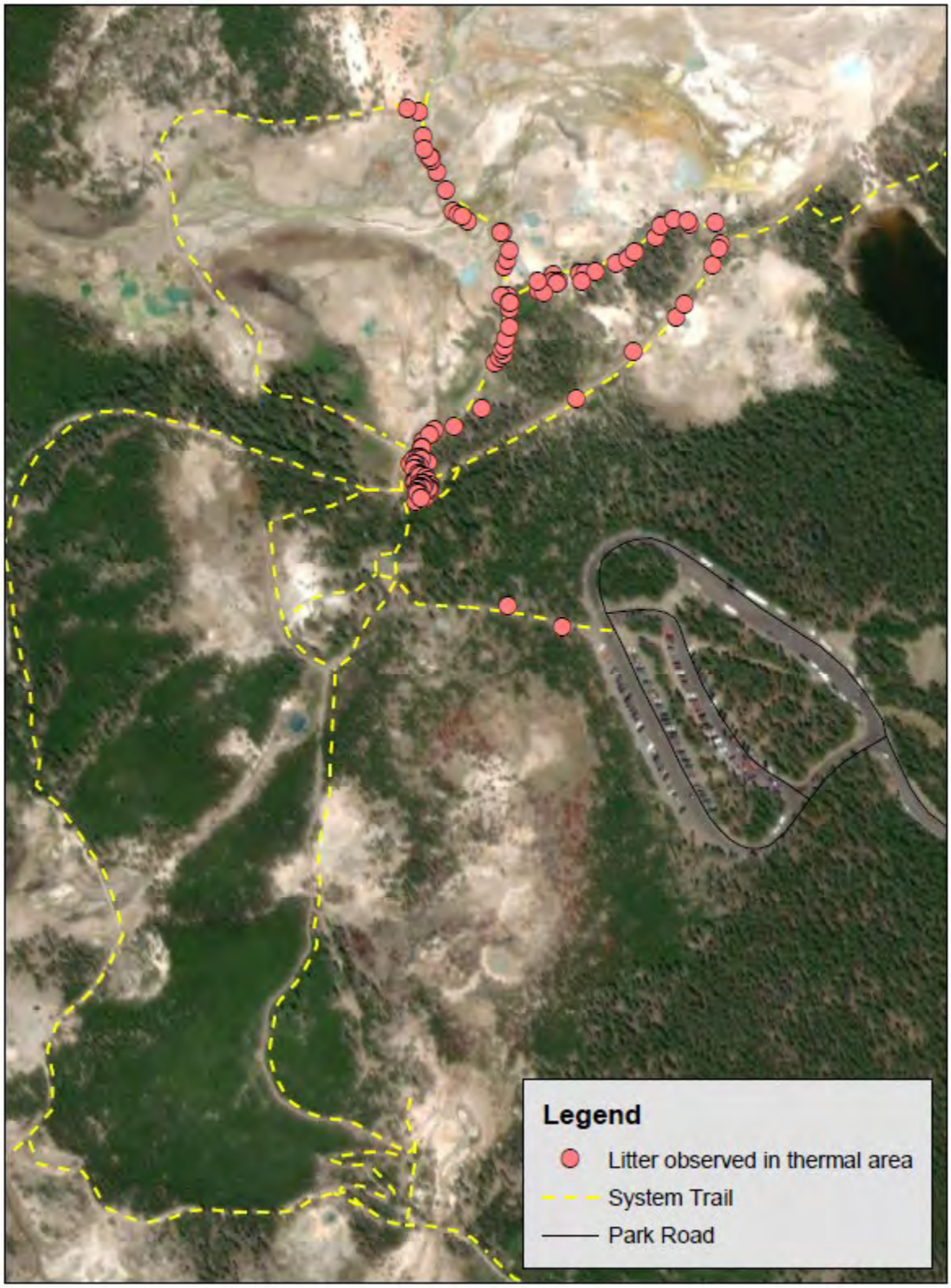


Code = PET1, pet on boardwalk

Resource Impact Behavior Waypoints

Code = FOOT, footprints observed in thermal area

Code = THLIT2, litter observed in thermal area



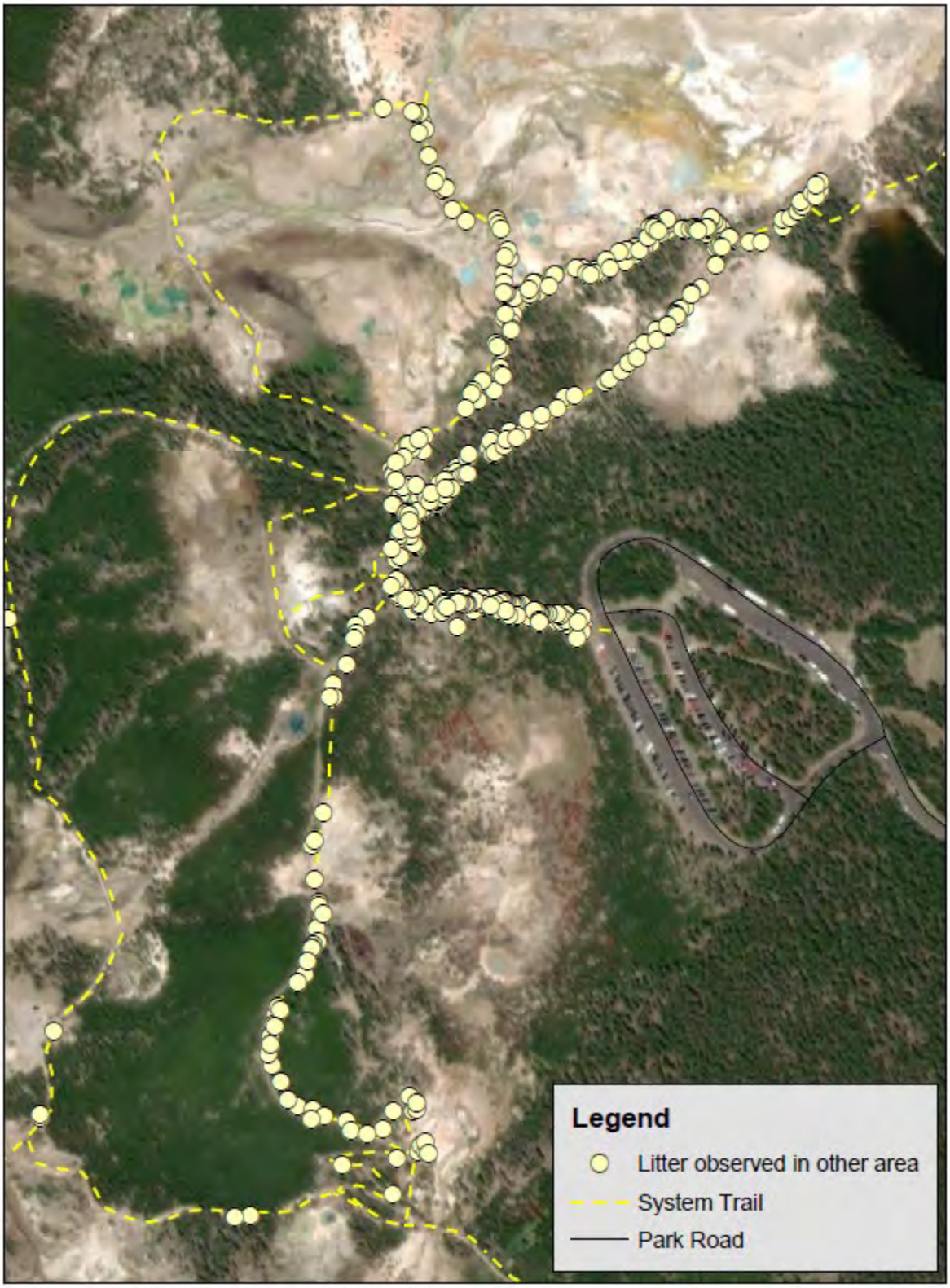
Code = THROW2, object observed in thermal pool

Code = THGRAF2, graffiti observed in thermal mat

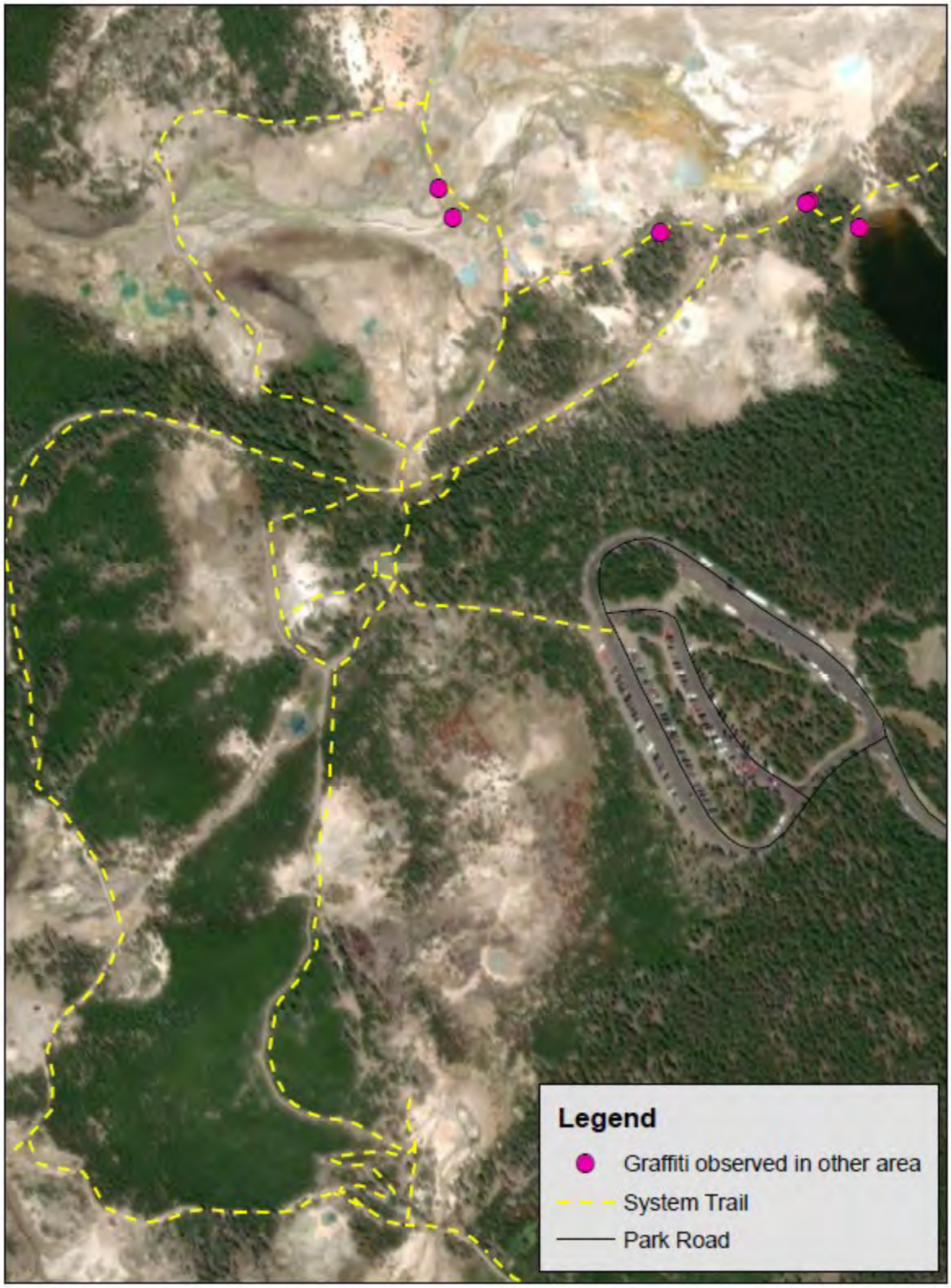
Code = SOC1, social trail < 3m long

Code = SOC2, social trail > 3m long

Code = LIT2, litter observed in other area



Code = GRAF2, graffiti observed in other area



Waypoints Labeled as ‘OTHER’ or ‘OTHER1’

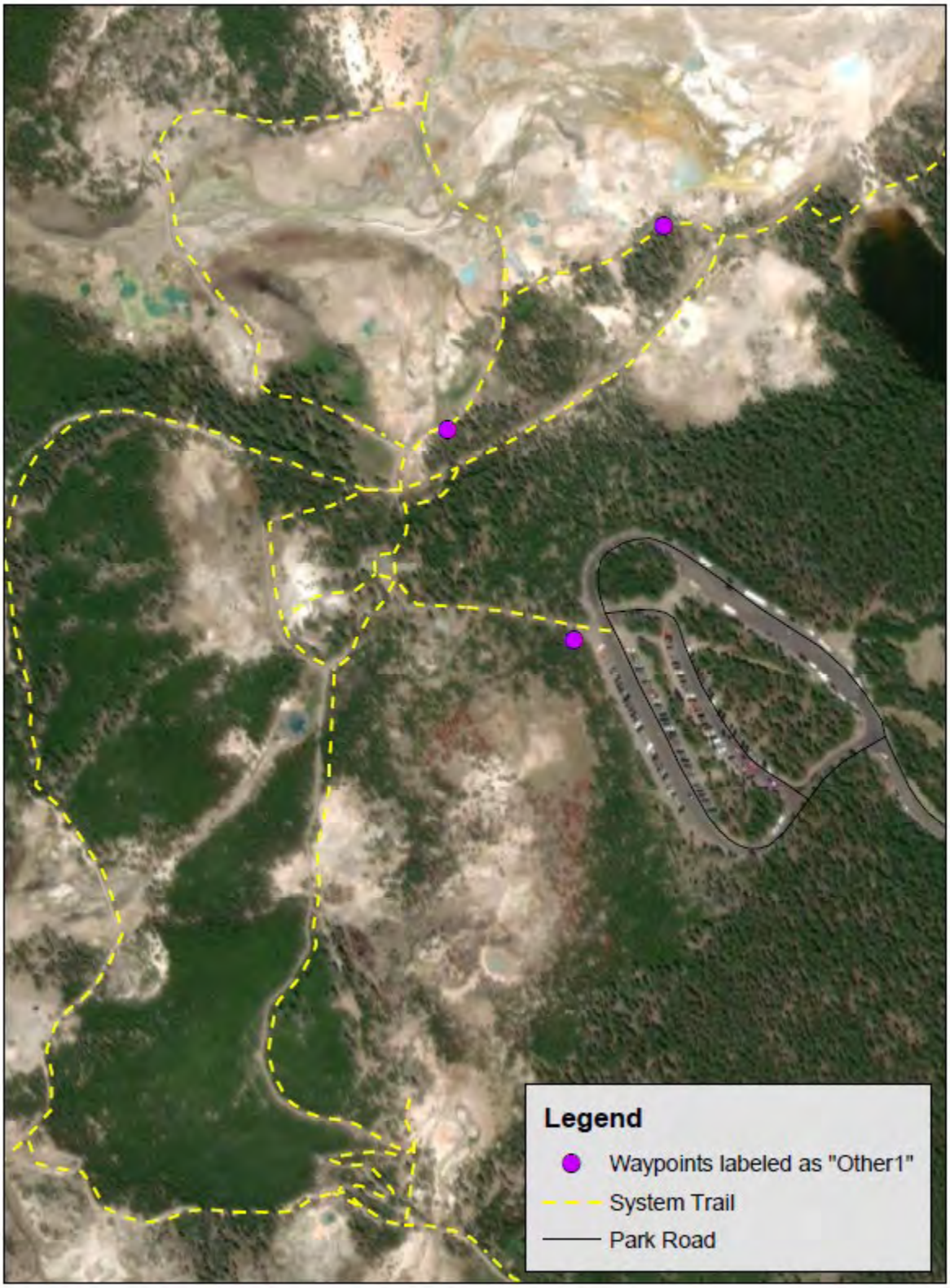


Table of data collector provided comments for waypoints labeled as ‘Other1’

Waypoint Label	Waypoint Comment
OTHER1	Rocks taken from thermal area
OTHER1	People standing on benches
OTHER1	On hoverboard on boardwalk

Norris Geyser Basin Waypoint Mapping Results by Date

Resource Impact Waypoint Categories	6/20/2018	6/26/2018	7/25/2018	8/2/2018	8/6/2018	8/10/2018
FOOT	1	1	5	28	0	0
OBJ2	4	0	3	0	0	0
THLIT2	1	0	47	73	0	0
THROW2	0	7	1	0	0	0
THGRAF2	0	0	0	2	0	0
SOC1	0	0	0	1	0	0
SOC2	0	0	0	2	0	0
LIT2	27	59	92	302	0	80
GRAF2	1	0	0	5	0	0
OTHER1	1	1	0	0	1	0
Resource Impact Behavior Waypoint Categories						
OB1	1	0	0	2	1	0
OB2	1	0	1	0	0	0
OBJ1	5	0	1	0	0	0
THLIT1	0	0	0	0	22	0
THROW1	0	0	0	0	0	0
THGRAF1	0	0	0	0	1	0
OB3	3	0	5	0	0	0
LIT1	24	0	0	0	25	0
NOISE1	0	0	2	0	0	0
GRAF1	1	0	1	0	0	0
OTHER1	1	1	0	0	1	0
FLOW	0	0	9	0	3	3
ROUGH	0	0	0	0	0	0
NOISE2	1	0	2	0	0	0
CON1	0	0	0	0	0	0
CON2	0	0	1	0	0	0
PET1	0	1	1	0	0	0
PET2	0	0	0	0	0	0
FEED	0	0	0	0	0	0
WILD1	0	0	0	0	0	0
WILD2	0	0	0	0	0	0
Total	72	70	171	415	54	83

Old Faithful Waypoint Mapping Results by Waypoint Code

Visitor Behavior Waypoint Mapping Codes

Code = OB1, < 1m off boardwalk in thermal area

Code = OBJ1, personal object dropped or blown into thermal area

Code = THLIT1, visitor littering in thermal area

Code = THGRAF1, drawing graffiti in thermal mat

Code = OB3, visitor observed in other closed area

Code = LIT1, visitor littering in other area

Code = NOISE1, excessive traffic noise (e.g., motorcycles, engines, honking)

Code = FLOW, groups obstructing flow of others waypoints

Code = ROUGH, roughhousing

Code = NOISE2, other excessive human noise (e.g., shouting, music, use of phones)

Code = PET1, pet on boardwalk

Code = WILD1, visitor 5-25m from wildlife

Resource Impact Behavior Waypoints

Code = FOOT, footprints observed in thermal area

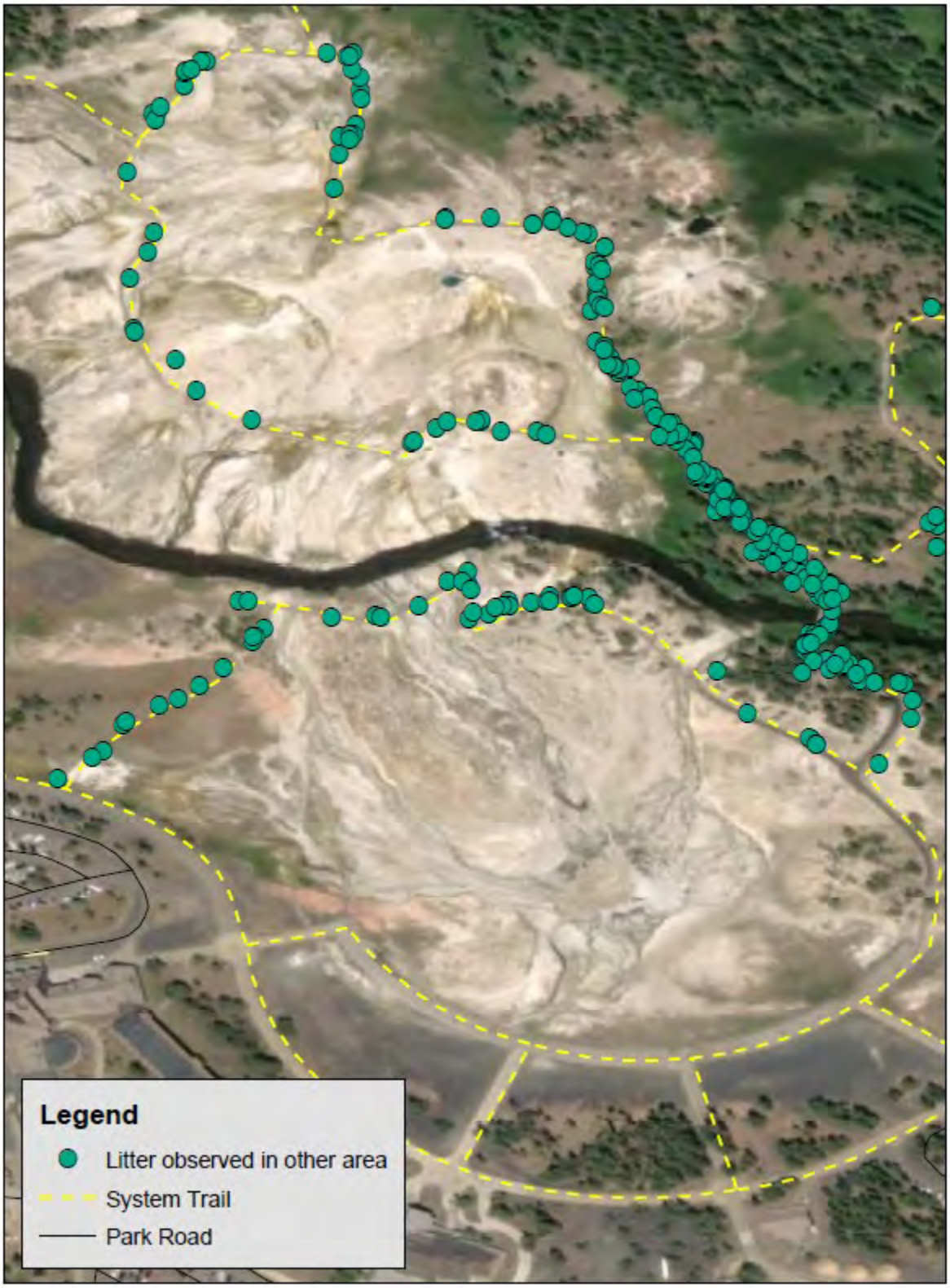
Code = OBJ2, personal object observed in thermal area (e.g., hat, bottle)

Code = THLIT2, litter observed in thermal area

Code = THROW2, object observed in thermal pool

Code = THGRAF2, graffiti observed in thermal mat

Code = LIT2, litter observed in other area



Code = GRAF2, graffiti observed in other area

Waypoints Labeled as ‘OTHER1’

Table of data collector provided comments for waypoints labeled as ‘Other1’

Waypoint Label	Waypoint Comment
OTHER1	Kids running dangerously
OTHER1	Sitting with feet on mat
OTHER1	Sitting with feet on mat
OTHER1	Boardwalk repair
OTHER1	Only feet off the boardwalk (groups)
OTHER1	Visitor with feet in closed area off boardwalk
OTHER1	Touching thermal feature
OTHER1	Touching thermal feature
OTHER1	Footprint off boardwalk
OTHER1	Hands in thermal feature

Old Faithful Waypoint Mapping Results by Date

Resource Impact Waypoint Categories	6/19/2018	6/27/2018	7/2/2018	7/6/2018	7/24/2018	7/30/2018	8/3/2018	8/9/2018
FOOT	2	0	1	3	7	1	5	0
OBJ2	0	3	2	0	0	1	0	0
THLIT2	9	44	54	19	107	32	86	0
THROW2	0	1	4	0	0	0	0	0
THGRAF2	0	0	0	0	1	0	0	0
SOC1	0	0	0	0	0	0	0	0
SOC2	0	0	0	0	0	0	0	0
LIT2	17	20	10	52	53	40	86	16
GRAF2	0	0	0	0	1	0	0	0
OTHER1	1	0	4	2	0	0	3	0
Resource Impact Behavior Waypoint Categories								
OB1	1	2	15	0	3	1	1	0
OB2	0	0	0	0	0	0	0	0
OBJ1	1	0	0	0	3	0	1	0
THLIT1	0	0	0	0	0	0	0	2
THROW1	0	0	0	0	0	0	0	0
THGRAF1	0	0	0	0	0	0	0	1
OB3	1	1	0	0	1	2	0	0
LIT1	1	0	0	0	0	0	0	0
NOISE1	0	0	0	0	1	0	0	0
GRAF1	0	0	0	0	0	0	0	0
OTHER1	1	0	4	2	0	0	3	0
FLOW	0	0	0	1	4	1	1	1
ROUGH	0	1	0	0	0	0	0	0
NOISE2	1	0	0	0	1	0	0	0
CON1	0	0	0	0	0	0	0	0
CON2	0	0	0	0	0	0	0	0
PET1	0	0	0	0	1	0	2	0
PET2	0	0	0	0	0	0	0	0
FEED	0	0	0	0	0	0	0	0
WILD1	0	1	0	0	0	0	0	0
WILD2	0	0	0	0	0	0	0	0
Total	35	73	94	79	183	78	188	20