

# Pennsylvania Autumn Raptor Migration Summary 2018

## Laurie Goodrich

Autumn 2018 migration season was one of the rainiest on record, challenging both southbound raptor migrants and migration watchers. Most observers lamented the frequent rain and fog and reported lower hours as a result. On the bright side, when clear skies emerged, pulses of raptors were observed setting some new one-day high counts for a few sites. Both species of eagles showed impressive counts statewide and Bald Eagle counts set a new record statewide. American Kestrel statewide counts in autumn 2018 hinted at a possible rebound with encouraging one-day counts at several sites as well (see Figure 2).

### Migration Summary

In autumn 2018, fifteen Pennsylvania watch sites counted 108,989 hawks in 7101 hours and 1065 total days, for 15.4 hawks per hour overall (Table 1). Statewide count hours were 6% below the average autumn effort of 7572 hours. Pennsylvania welcomed a new autumn site in Fayette County, the Summit Mountain watch on Chestnut Ridge. Summit Mountain was launched in spring 2018 and it is very exciting to see them join the few sites with both spring and autumn counts. We hope to learn much more about hawk movements in that region of the state.

About half the long-term sites showed increased hours despite the rain, while some had reduced hours, likely due to weather in most cases, although some may be in need of additional volunteers.

The total raptor count of 108,989 was about 12% below the 10-year average of 123,853 (Table 1, 2). Two common species were below-average: 48,652 Broad-winged Hawks were tallied, down 24% from the average of 63,768; and Red-tailed Hawk, with 9840 counted, was down 17% from 10-year average of 11,794. Eight of 16 species saw below-average counts with the largest deficits seen by Black Vulture (618 counted), 46% below the 10-year average; Northern Goshawk (109), 22% below average; and Rough-legged Hawk, of which only 6 were counted compared to an average of 9 (Table 2). Also below average were Osprey and Northern Harrier, species that have shown declines in eastern migration counts in recent years (see rpi-project.org; Table 1, 2).

Above-average counts were observed for Bald Eagle, 3156, up 31% from the 10-year average of 2416, and a new statewide record; and Turkey Vulture, 7567, up 8% from the average of 7033. Encouraging was the statewide count of 2407 American

**Figure 2. American Kestrels/hour for Pennsylvania sites**



Kestrels, up 26% from the average of 1914 (Table 2, Figure 2). Golden Eagle was 13% above average, with 1224 tallied compared to the 10-year average of 1084.

### Site Highlights

**Allegheny Front (Somerset/Bedford)** – Allegheny Front counters tallied 11,736 hawks in 685 hours on 103 days, recording 17.2 hawks per hour from August 15 through December 15 (Table 1, 2). Effort was slightly below average, possibly due to weather. Total raptors were 30% above the ten-year average of 8193 and the highest since 2011. Counters set a new record for Bald Eagle, 222, which was 70% above the ten-year average. The Broad-winged Hawk total was 8055, particularly notable at 46% above the ten year-average of 4356 (Table 2). Golden Eagles were slightly lower than average with 194 counted compared to the ten-year average of 205 (Table 2).

Counters tallied the season one-day peak on September 16, with 3973 Broad-wings and 37 Bald Eagles among 4092 hawks recorded. October 26 brought another amazing count when 66 Golden Eagles were tallied amid intermittent showers and easterly winds. The eagle count surpassed the Red-tailed Hawk count of 55 for the day. November 4 was the best late season day with 188 Red-tails and 22 Golden Eagles tallied.

**Bake Oven Knob (Lehigh/Carbon)** – Bake Oven Knob watchers counted 12,105 hawks in 97 days and 655 hours of watching for an average of 18.5 hawks per hour. Effort and total count were slightly below the 10-year average of 781 hours and 13,410 hawks (Table 1,2); however, rainy weather thwarted many days along the ridge. Despite the weather, the Bald Eagle count of 389 was 27% above average. Other above-average species were Sharp-shinned Hawk (3479), 18% above average; Cooper’s Hawk (360), 7% above average;

**Table 1. Pennsylvania watchsites counting in autumn 2018**

Site	Hours	Total	Raptors/Hour
<b>Allegheny Front</b>	684.5	11,736	17.15
<b>Bake Oven Knob</b>	654.8	12,105	18.49
<b>Broadwing SEPT</b>	4.5	34	7.56
<b>Bucktoe Creek Preserve</b>	800.8	8,509	10.63
<b>Council Cup</b>	105.0	1,801	17.24
<b>Hawk Mountain</b>	1031.5	18,250	17.69
<b>Jack’s Mountain</b>	472.5	6,346	13.43
<b>Little Gap</b>	247.5	5,429	21.94
<b>Militia Hill</b>	431.9	6,212	14.38
<b>Rocky Ridge</b>	155.5	3,645	23.44
<b>Rose Tree Park</b>	394.8	3,610	9.14
<b>Second Mountain</b>	613.8	5,999	9.77
<b>Stone Mountain</b>	426.1	5,789	13.59
<b>Summit Mountain</b>	184.8	1,014	5.49
<b>Waggoner’s Gap</b>	893.5	18,501	20.71
<b>State Total</b>	<b>7,101</b>	<b>108,989</b>	<b>15.35</b>

Golden Eagle (122), 22% above average; and American Kestrel (167), 12% above average. The Peregrine Falcon count of 72 was the second highest for the site.

On September 16, counters tallied the highest one-day total for Broad-winged Hawk, 1666. Northwest winds on October 12 brought the highest one-day totals for Bald Eagle, Sharp-shinned Hawk, and American Kestrels, with 34, 314, and 29, respectively (Table 3). The highest November count occurred on the 3rd with 61 Red-tailed Hawks and 8 Golden Eagles.

**Broadwing SEPT (Bucks)** – The Broadwing SEPT count occurred on September 19, with 4.5 hours of observation and 34 birds counted. Counters tallied 7 Bald Eagles, 13 Sharp-shinned Hawks, and 13 Broad-winged Hawks along with one Cooper’s Hawk.

**Bucktoe Creek Preserve (Chester)** – Bucktoe Creek Preserve recorded 8509 hawks in 801 hours over 90 days for above-average site coverage and a rate of 10.6 hawks per hour. Overall counts were slightly below the ten-year average of 9074 hawks, but the count hours set a new site record. Broad-winged Hawk, with 3764, was 27% below-average; however, both Osprey and Bald Eagle were above average at 198 and 330, respectively. All 3 falcons were above average, with the American Kestrel count of 341 being 60% above-average. The Turkey Vulture total of 1778 was also a new site record.

The highest one-day count occurred September 22 when an impressive 2547 Broad-winged Hawks flew over along with 23 kestrels and 19 Bald Eagles. An adult Mississippi Kite was recorded September 20.

**Council Cup (Luzerne)** – Council Cup counters tallied 1810 hawks in 105 hours over 25 days for an average of 17.3 hawks per hour. The overall count and hours were above-average compared to recent years. The Broad-winged Hawk total of 882 was more than twice the average of 345 and most other species were above average. Counts of Turkey Vultures, Sharp-shinned Hawks, and American Kestrels were higher than in the last decade (Table 2).

Similar to many other sites across the state, the highest one-day count was September 16 when 491 Broad-winged Hawks were counted along with 6 Bald Eagles and 6 kestrels. The peak one-day count of 18 kestrels was tallied October 12 following a cold front (Table 3).

**Hawk Mountain (Berks/Schuylkill)** – Hawk Mountain counters tallied an above-average count of 18,250 hawks in 1031 hours and 121 days (Table 2, 3), resulting in a rate of 17.7 hawks per hour, despite the above-average number of rain days. Count totals were above average for most species

**Table 3. Peak One-day counts at watchsites in Autumn 2018**

Site Name	American Kestrel		Golden Eagle	
	Peak Count	Date	Peak Count	Date
<b>Allegheny Front</b>	12	9/16, 10/8	<b>66</b>	<b>10/26</b>
<b>Bake Oven Knob</b>	29	10/12	30	10/21
<b>Broadwing SEPT</b>	-	-	-	-
<b>Bucktoe Preserve</b>	23	9/23, 10/12	2	11/04
<b>Council Cup</b>	18	10/12	1	10/25
<b>Hawk Mountain</b>	<b>96</b>	<b>10/12</b>	25	10/21
<b>Jack’s Mountain</b>	10	9/29	20	10/29
<b>Little Gap</b>	19	9/19	11	11/03
<b>Militia Hill</b>	<b>48</b>	<b>9/22</b>	1	several
<b>Rocky Ridge</b>	<b>46</b>	<b>9/18</b>	-	-
<b>Rose Tree Park</b>	25	9/16	1	11/16
<b>Second Mountain</b>	21	9/16	13	10/30
<b>Stone Mountain</b>	20	10/12	<b>61</b>	<b>10/29</b>
<b>Summit Mountain</b>	5	10/23	1	10/23
<b>Waggoner’s Gap</b>	39	10/12	<b>36</b>	<b>10/29</b>

excepting Black and Turkey Vultures, Osprey, Red-tailed Hawk, Northern Harrier, and Northern Goshawk (Table 1,3). The American Kestrel count of 427 was an encouraging 12% above-average and new records were set for Bald Eagle (552) and Merlin (247). Counts of both accipiters were higher than have been recorded in more than six years (Table 2).

September 16 brought the highest one-day count with 3308 Broad-winged Hawks and 19 Bald Eagles. However, mid-October was the time to be at the mountain. October 12 and 13 brought back-to-back exceptional flights with a one-day peak count of 96 kestrels and 88 Cooper’s Hawk on the 12th and a peak one-day count of 618 Sharp-shinned Hawks and 27 Merlins on the 13th (Table 3). A one-day high of 39 Bald Eagles flew past October 17. A surprisingly early push of 25 Golden Eagles flew south October 21. Counts were lower than usual in November, dampened by frequent rain storms and fog.

**Jack’s Mountain (Mifflin)** – Jack’s counters recorded an above-average 6346 hawks over 473 hours, also above average, and 77 days of counting, for a rate of 13.4 hawks per hour. Total counts were 34% above the ten-year average and most species were above average. Exceptions were Turkey Vulture, with a count of 48, 60% below average; and only 2 Black Vultures, 90% below average. A new site record was set for Bald Eagle, 197, echoing patterns observed around the state.

A notable flight occurred September 16 when 1775 Broad-winged Hawks and 14 Bald Eagles sailed south. A one-day high count of 103 Red-tailed Hawks was recorded October 26 and a one-day high of 20 Golden Eagles passed Jack’s October 29 (Table 3). As observed at other sites across the state, flights dwindled in November.

**Little Gap (Northampton)** – Lower than average counts were recorded at Little Gap,

with the total of 5429 hawks largely due to lower coverage, 248 hours in 36 days. The average of 21.9 hawks per hour was above average but total counts for species were below previous year’s counts.

On September 18, a peak one-day count of 14 Bald Eagles was recorded. The following day, the daily high count for total raptors occurred with 850 Broad-winged Hawks and 19 American Kestrels (Table 3). Sharp-shinned Hawk counts peaked on October 13 with 336 Sharp-shins among 408 total hawks. Another notable flight occurred October 21 with 160 Sharp-shins, 144 Red-tails, and 9 Golden Eagles. Eleven Golden Eagles were tallied November 3 along with 71 Red-tails (Table 3).

**Militia Hill (Montgomery)** – Militia Hill observers recorded a below-average total raptor count of 6212 during near-average coverage of 432 hours and 58 days, resulting in a rate of 14.4 hawks per hour. The largest deficit in numbers was seen in Broad-winged Hawks with 3489 counted, compared to a ten-year average of 10,178. Peregrine Falcon also showed a large dip from an average of 29 to 12 in 2018, 58% below average. In contrast, Black Vulture (28) was 52% above average, Osprey (308) 22% above average, and American Kestrel (314) 19% above average (Table 2).

September 22 brought the highest one-day count for the season including 1677 Broad-winged Hawks, 27 Ospreys, and 48 American Kestrels (Table 3). October 21 brought one of the highest October counts with a pulse of 156 Turkey Vultures and 59 Sharp-shinned Hawks.

**Rocky Ridge Park (York)** – Rocky Ridge counters increased their hours to 156 compared to an average of 88 in recent years and recorded 3645 hawks compared to a ten-year average of 2863. In 38 days of coverage, they tallied an impressive 23.4 hawks per hour. Most species showed above-average counts compared to recent

years, likely due to increase in hours. The Rocky Ridge Broad-winged Hawk count of 2811 was 20% above the recent ten-year average and American Kestrel counts, at 126, were nearly double the ten-year average (Table 2,3). In contrast was a below-average count of Bald Eagle, 26, compared to the ten-year average of 44.

The one-day peak count of Broad-wings, 988, was on September 16, along with 11 Ospreys. Peak Sharp-shinned Hawk and American Kestrel numbers passed the site October 12 with 45 and 10, respectively (Table 3). Five days were covered in November, tallying 21 raptors including 12 Red-tails. We look forward to seeing reports online from this southern Pennsylvania site in coming years.

**Rose Tree Park (Delaware)** – Rose Tree counters recorded 3610 hawks on 73 days and 395 hours of coverage between September 1 and November 18, a rate of 9.14 hawks per hour (Table 1, 2). Hours were below average, likely due to persistent rain days. Total raptors were 37% below the ten-year average of 5853 hawks. Rose Tree tallied below-average counts for all species except one, the American Kestrel, for which the total of 184 was 16% above the ten-year average of 159. The Bald Eagle count of 119 was near the average of 123 eagles per year.

September 16 brought a one-day peak count of kestrels, with 25 gliding past along with 2 Merlins and 18 Bald Eagles (Table 3). The peak one-day count for total raptors occurred September 22 when 1228 Broad-winged Hawks soared past along with 10 American Kestrels, 7 Ospreys, 7 Bald Eagles, 16 Sharp-shinned Hawks, and a lone Peregrine Falcon among the total of 1272 hawks for the day. October 18 brought the highest one-day count for mid-season with 53 Turkey Vultures and 49 Sharp-shinned Hawks along with 9 kestrels. This southeastern Pennsylvania site's one Golden Eagle, an immature, was sighted November 16 (Table 2, 3). On the last day of the season, November 18, the lone Northern Goshawk of the season was recorded.

**Second Mountain (Lebanon)** – Second Mountain tallied a below-average 5999 raptors in 614 hours and 96 days of counts, for a rate for 9.77 hawks per hour of effort (Table 1). The total count is the lowest tally on record for the site, likely affected by damp weather patterns that plagued most of Pennsylvania's sites in autumn 2018. Despite lower than average counts for some more numerous species in 2018, e.g., Broad-winged Hawk, Sharp-shinned Hawk, and Red-tailed Hawk, Second Mountain counters tallied a surprising above-average tally for late season rarities including Northern Goshawk (22), 37% higher than average and Golden Eagle (104), up 17%. The Bald Eagle count (229) also was up,

18% over average, as was Cooper's Hawk (234) up 9% (Table 1, 2). All 3 falcons were above-average, with, notably, 135 American Kestrels counted as compared to the average of 103, up 31% (Table 2, 3).

The highest one-day count for the site occurred on September 22, with 891 Broad-winged Hawks, 39 Sharp-shinned Hawks, 3 Ospreys, and 2 Peregrine Falcons counted among 941 total raptors. Counters tallied the peak flight for Sharp-shins, 311, on October 10, along with 22 Cooper's Hawks, 2 goshawks, and a total raptor tally of 370 hawks. The peak kestrel count, 21, arrived early, on September 16, along with 14 Bald Eagles and 348 Broad-wings (Table 3). The peak Golden Eagle count, 13, sailed past October 30 (Table 3).

**Stone Mountain (Huntington/Mifflin)** – The total raptor count at Stone Mountain, 5789, was 35% higher than average with a record high 218 Golden Eagles and near-record counts of 158 Bald Eagles and 3027 Broad-winged Hawks (Table 1, 3). Hours of effort, 426 in 78 days, were slightly above the ten-year average and the 13.6 birds per hour were above the recent average of 10.6 birds per hour. Other above-average counts included Black Vulture, 42; Bald Eagle, 158; Northern Harrier, 54; Sharp-shinned Hawk, 892; Red-shouldered Hawk, 70; Red-tailed Hawk, 700; American Kestrel, 102; Merlin, 36; and Peregrine Falcon, 26. The Cooper's Hawk total of 99 was 10% below the average of 114, and the tally of 4 Northern Goshawks was 33% below the average of 6 (Table 3).

Stone Mountain recorded 3 days of more than 500 Broad-winged Hawks in September with the highest one-day count, 637, on September 20 and the second-highest, 571, on September 27. One of the best October days occurred on the 12th with 292 hawks of 14 species including the one-day high counts of 20 American Kestrels, 188 Sharp-shinned Hawks, and 4 Peregrine Falcons (Table 3). One of the most exciting days occurred in late October when, on October 29, 61 Golden Eagles soared overhead among the 119 total raptors, setting a new one-day record (Table 3). The next day another 20 Golden Eagles were sighted, making the two-day tally greater than the total seasonal count at many sites (Table 2,3). Another 25 Golden Eagles were recorded November 3 along with 101 Red-tails and 9 Bald Eagles. The last four goldens for the season were sighted December 8, establishing the new season record of 218 Golden Eagles.

**Summit Mountain (Fayette)** – Pennsylvania's newest watch site, Summit Mountain, counted 1104 hawks in 185 hours and 34 days of coverage between September 1 and November 23, a rate of 5.5 hawks per hour. The most numerous raptors were Turkey Vulture, 308, Broad-winged

Hawk, 265, and Red-tailed Hawk, 217 (Table 1, 3).

The highest one-day count for the site occurred September 22 with 98 Broad-winged Hawks dominating the 110 raptors for the day. Summit Mountain recorded its highest one-day count for October on the 23rd, with the one-day peak of American Kestrels, 5, and Golden Eagle, one, along with 27 Red-tails and 18 Sharp-shinned Hawks (Table 2, 3). The highest one-day count in November was early in the month, on the 3rd, when 53 Turkey Vultures, 5 Red-tails, one kestrel, and one Northern Harrier were tallied. Rarities included one Northern Goshawk and 4 Peregrine Falcons. We hope to see more counts from this site in the coming years.

**Waggoner's Gap (Cumberland)** – Waggoner's Gap counters tallied 18,501 hawks in 894 hours and 129 days of coverage. Total raptors were 16% below the ten-year average of 22,257 hawks per autumn season. Hours were much reduced from the ten-year average of 1073 hours, principally due to the persistent rain and fog. Above-average counts were recorded for Bald Eagle, 571, and Golden Eagle, 251 (Table 3), despite the weather. The largest dip in counts was seen for Broad-winged Hawks, with 4653 counted compared to an average of 8053, 42% below average. The Osprey count, 260, was 30% below the average of 357 during the past ten years (Table 3).

Waggoner's Gap recorded its peak counts of Broad-wings of 897 on September 16 and 847 on September 18. October 12 and 13 brought amazing back-to-back accipiter flights including 782 Sharp-shinned Hawks on the 12th along with 67 Cooper's Hawks, 32 Bald Eagles, and a season one-day peak one-day of 39 American Kestrels. The following day, 731 Sharp-shins and 44 Cooper's Hawks sailed past along with 13 more kestrels. October 29 and 30 were highlighted by a notable push of Golden Eagles, with 36 and 27, respectively (Table 3). November can be an eagle month, and November 3 brought the highest eagle counts of the month, with 28 Bald and 11 Golden Eagles sighted. However, counts at Waggoner's were less than average for November overall, similar to many sites across the state.

## Conclusions

The 2018 autumn was one of the wettest on record and the weather greatly influenced counts at watch sites across the state, particularly in late season. Reduced coverage and counts were observed; however, when weather did clear, some exciting migrant pulses brought amazing days and high counts for some sites. Central Pennsylvania sites enjoyed upswings in Broad-winged Hawk counts, possibly a result of some birds moving more westerly

than usual. One encouraging highlight of the 2018 autumn was the statewide combined uptick in American Kestrel counts (Table 3, Figure 2). We hope the increase in kestrels in 2018 marks a further rebound in both nesting and migrating numbers. Golden Eagles had surprisingly high counts at mid-state sites in October, earlier than one might have predicted. Less surprising, but just as welcome, was the new statewide record for Bald Eagle, tracking the continued increase in populations. Last year's dip in Osprey and Northern Harrier numbers was not abated in 2018 and bears further attention.

2018 and autumn data were accessed from [www.hawkcount.org](http://www.hawkcount.org) (accessed January 2019), a site managed by Jason Sodergren, HMANA database manager and Hawk Migration Association of North America. Assistance with table preparation provided by Katerina Ramos, Hawk Mountain volunteer. This article is Hawk Mountain Conservation Science Contribution 311.

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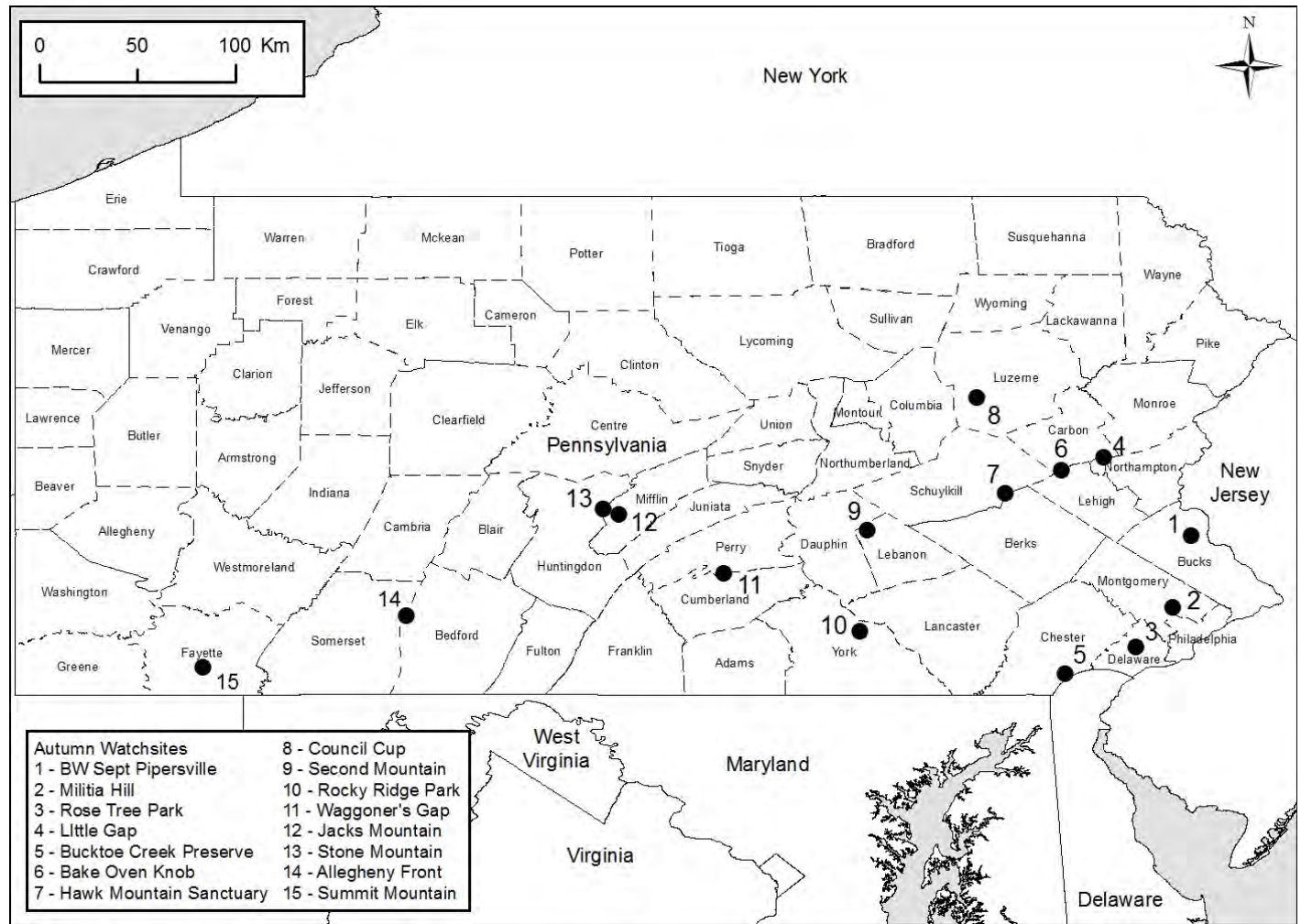


Table 2. Autumn 2018 count results for Pennsylvania watchsites.

ALLEGHENY FRONT (Bedford/Somerset) - Bob Stewart, compiler																						
Month	Days	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOGO	RSHA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	SWHA	Unid	Total	
August	16	126.3	2	1	10	14	1	2	5	0	0	118	40	0	0	4	1	0	0	0	2	200
September	25	175.5	14	11	59	168	13	230	27	0	5	7917	230	0	1	33	17	17	0	50	8792	
October	29	206.5	8	414	8	32	16	900	94	1	10	20	501	0	122	34	9	10	0	48	2227	
November	22	133.3	0	40	0	8	6	48	18	3	10	0	296	0	71	4	1	3	0	5	513	
December	11	43.0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	4	
<b>Total</b>	<b>103</b>	<b>684.5</b>	<b>24</b>	<b>466</b>	<b>77</b>	<b>222</b>	<b>37</b>	<b>1181</b>	<b>144</b>	<b>4</b>	<b>25</b>	<b>8055</b>	<b>1068</b>	<b>0</b>	<b>194</b>	<b>75</b>	<b>29</b>	<b>30</b>	<b>0</b>	<b>105</b>	<b>11736</b>	
Total per hr			0.04	0.68	0.11	0.32	0.05	1.73	0.21	0.01	0.04	11.77	1.56	0.00	0.28	0.11	0.04	0.04	0.00	0.75	17.15	
% of flight			0.2	4.0	0.7	1.9	0.3	10.1	1.2	0.0	0.2	68.6	9.1	0.0	1.7	0.6	0.2	0.3	0.0	0.9	100.0	
Average last 10 yrs	116.0	789.0	35.1	431.0	88.1	130.6	42.6	1098.4	162.0	6.8	46.4	4355.7	1361.0	1.5	205.4	58.7	28.8	28.6	0.1	112.2	8193.2	

BAKE OVEN KNOB (Lehigh) - Bob Hoopes, Dan Kunkle, co-compilers																					
Month	Days	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOGO	RSHA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	SWHA	Unid	Total
August	17	119.8	51	173	33	40	3	5	5	0	2	151	64	0	0	11	1	1	0	68	608
September	27	195.3	55	264	253	135	15	637	87	0	10	4058	78	0	1	64	27	38	0	111	5833
October	28	206.3	60	332	48	165	49	2734	248	13	80	72	789	0	94	92	43	29	0	55	4903
November	25	133.5	34	90	1	49	15	103	20	2	45	0	351	0	27	0	7	4	0	13	761
<b>Total</b>	<b>97</b>	<b>654.8</b>	<b>200</b>	<b>859</b>	<b>335</b>	<b>389</b>	<b>82</b>	<b>3479</b>	<b>360</b>	<b>15</b>	<b>137</b>	<b>4281</b>	<b>1282</b>	<b>0</b>	<b>122</b>	<b>167</b>	<b>78</b>	<b>72</b>	<b>0</b>	<b>247</b>	<b>12105</b>
Total per hr			0.31	1.31	0.51	0.59	0.13	5.31	0.55	0.02	0.21	6.54	1.96	0.00	0.19	0.26	0.12	0.11	0.00	0.38	18.49
% of flight			1.7	7.1	2.8	3.2	0.7	28.7	3.0	0.1	1.1	35.4	10.6	0.0	1.0	1.4	0.6	0.6	0.0	2.0	100.0
Average last 10 yrs	103.0	781.5	285.5	956.2	350.8	284.8	87.3	2948.0	255.1	23.0	120.0	5847.0	1570.8	0.1	99.8	148.5	88.7	53.9	0.0	270.0	13409.5

Broadwing SEPT- Pipersville																					
Month	Days	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOGO	RSHA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	SWHA	Unid	Total
September	1	4.5	0	0	0	7	0	13	1	0	0	13	0	0	0	0	0	0	0	0	34
<b>Total</b>	<b>1</b>	<b>4.5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>13</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>34</b>
Total per hr			0.00	0.00	0.00	1.56	0.00	2.89	0.22	0.00	0.00	2.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.56
% of flight			0.0	0.0	0.0	20.6	0.0	38.2	2.9	0.0	0.0	38.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0

BUCKTOE CREEK PRESERVE(Chester) - Larry Lewis, compiler																					
Month	Days	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOGO	RSHA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	SWHA	Unid	Total
August	9	84.0	0	0	1	2	0	0	1	0	0	0	0	0	0	1	0	0	0	0	5
September	30	267.5	0	0	169	110	4	203	93	0	17	3659	2	0	0	133	12	6	0	1	4409
October	31	266.8	0	975	28	154	19	606	261	0	66	105	165	0	2	196	22	2	0	2	2603
November	29	182.5	0	803	0	64	10	168	52	1	126	0	248	0	2	11	7	0	0	0	1492
<b>Total</b>	<b>90</b>	<b>800.8</b>	<b>0</b>	<b>1778.0</b>	<b>198.0</b>	<b>330.0</b>	<b>33.0</b>	<b>977.0</b>	<b>407.0</b>	<b>1.0</b>	<b>209.0</b>	<b>3764.0</b>	<b>415.0</b>	<b>0.0</b>	<b>4.0</b>	<b>341.0</b>	<b>41.0</b>	<b>8.0</b>	<b>0.0</b>	<b>3.0</b>	<b>8509.0</b>
Total per hr			0.00	2.22	0.25	0.41	0.04	1.22	0.51	0.00	0.26	4.70	0.52	0.00	0.00	0.43	0.05	0.01	0.00	0.00	10.63
% of flight			0.0	20.9	2.3	3.9	0.4	11.5	4.8	0.0	2.5	44.2	4.9	0.0	0.0	4.0	0.5	0.1	0.0	0.0	100.0
Average for last 3 yrs	90.7	717.8	0.0	1033.7	149.7	317.7	41.7	997.7	351.0	0.7	232.7	5197.0	489.0	0.0	6.3	212.3	9.7	7.3	0.0	6.3	9073.7

\*Including adult Mississippi Kite on 9/20/2018

COUNCIL CUP (Luzerne) - Donald Kapral, compiler																					
Month	Days	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOGO	RSHA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	SWHA	Unid	Total
September	9	41.0	4	0	7	12	0	40	1	0	0	882	0	0	0	16	0	0	0	7	969
October	10	40.0	1	286	5	36	4	110	12	0	4	0	193	0	1	31	3	0	0	8	684
November	6	24.0	0	42	0	8	6	14	0	0	0	1	74	0	0	0	0	0	0	2	147
<b>Total</b>	<b>25</b>	<b>105.0</b>	<b>5</b>	<b>328</b>	<b>12</b>	<b>56</b>	<b>10</b>	<b>164</b>	<b>13</b>	<b>0</b>	<b>5</b>	<b>882</b>	<b>267</b>	<b>0</b>	<b>1</b>	<b>47</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>17</b>	<b>1,810</b>
Total per hr			0.05	3.12	0.11	0.53	0.10	1.56	0.12	0.00	0.05	8.40	2.54	0.00	0.01	0.45	0.03	0.00	0.00	0.16	17.24
% of flight			0.3	18.1	0.7	3.1	0.6	9.1	0.7	0.0	0.3	48.7	14.8	0.0	0.1	2.6	0.2	0.0	0.0	0.9	100.0
Average for 10 yrs	17.3	81.3	1.3	122.6	12.6	32.1	6.4	92.8	8.4	0.0	1.0	345.5	177.2	0.0	0.7	23.5	0.4	0.8	0.0	10.1	836.5

HAWK MOUNTAIN (Berks and Schuylkill) - Laurie Goodrich, compiler																					
Month	Days	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOGO	RSHA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	SWHA	Unid	Total
August	17	158.1	0	0	37	55	10	15	7	0	0	235	36	0	0	21	6	0	0	6	428
September	27	265.2	0	41	240	124	32	645	71	0	12	7697	43	0	0	143	67	21	0	32	9158
October	31	292.3	17	453	60	208	64	4298	469	5	106	44	892	0	97	263	157	36	0	70	7299
November	30	222.6	40	53	1	142	23	164	46	13	83	0	662	2	43	0	17	4	0	5	1298
December/January	16	103.3	15	3	0	23	1	3	5	1	0	0	64	0	5	0	0	0	0	1	127
<b>Total</b>	<b>121</b>	<b>1031.5</b>	<b>72</b>	<b>550</b>	<b>338</b>	<b>552</b>	<b>130</b>	<b>5125</b>	<b>598</b>	<b>19</b>	<b>207</b>	<b>7966</b>	<b>1697</b>	<b>2</b>	<b>145</b>	<b>427</b>	<b>247</b>	<b>61</b>	<b>0</b>	<b>114</b>	<b>18250</b>
Total per hr			0.07	0.53	0.33	0.54	0.13	4.97	0.58	0.02	0.20	7.72	1.65	0.00	0.14	0.41	0.24	0.06	0.00	0.11	17.69
% of flight			0.4	3.0	1.9	3.0	0.7	28.1	3.3	0.1	1.1	43.6	9.3	0.0	0.8	2.3	1.4	0.3	0.0	0.6	100.0
Average last 10 yrs		124.5	1029.8	128.7	583.7	439.1	367.3	150.2	4314.0	30.8	167.0	7789.7	2030.9	1.4	131.8	379.8	170.4	59.7	0.3	173.2	17717.6

JACKS MOUNTAIN (Mifflin) - Darrell Smith, compiler																					
Month	Days	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOGO	RSHA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	SWHA	Unid	Total
September	30	154.3	0	0	90	103	7	136	44	2	1	3676	75	0	3	31	5	5	0	4	4182
October	28	198.5	0	48	10	61	37	809	91	3	7	26	494	0	87	50	16	12	0	7	1758
November	17	109.8	0	0	0	27	15	41	4	2	6	0	248	0	44	1	0	0	0	1	389
December	2	10.0	2	0	0	6	0	0	0	0	0	0	6	0	3	0	0	0	0	0	17
<b>Total</b>	<b>77</b>	<b>472.5</b>	<b>2</b>	<b>48</b>	<b>100</b>	<b>197</b>	<b>59</b>	<b>986</b>	<b>139</b>	<b>7</b>	<b>14</b>	<b>3702</b>	<b>823</b>	<b>0</b>	<b>137</b>	<b>82</b>	<b>21</b>	<b>17</b>	<b>0</b>	<b>12</b>	<b>6346</b>
Total per hr			0.00	0.10	0.21	0.42	0.12	2.09	0.29	0.01	0.03	7.83	1.74	0.00	0.29	0.17	0.04	0.04	0.00	0.03	13.43
% of flight			0.0	0.8	1.6	3.1	0.9	15.5	2.2	0.1	0.2	58.3	13.0	0.0	2.2	1.3	0.3	0.3	0.0	0.2	100.0
Average last 10 yrs		67.2	385.0	27.1	122.8	59.9	93.0	627.2	73.8	2.6	15.8	3039.0	469.8	0.3	76.3	50.7	13.2	13.1	0.0	13.8	4732.0

LITTLE GAP (Northampton) - Michael Schall, compiler																						
Month	Days	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOGO	RSHA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	SWHA	Unid	Total	
August	1	5.5	0	0	1	5	0	1	0	0	0	1	0	0	0	0	0	0	0	2	10	
September	13	83.8	0	0	77	50	6	319	46	0	3	1827	20	0	0	65	14	7	0	20	2454	
October	17	121.8	0	81	13	67	32	1646	145	7	31	1	495	0	28	33	32	10	0	20	2641	
November	5	36.5	0	6	0	39	6	73	14	1	10	0	151	0	13	0	6	1	0	4	324	
<b>Total</b>	<b>36</b>	<b>247.5</b>	<b>0</b>	<b>87</b>	<b>91</b>	<b>161</b>	<b>44</b>	<b>2039</b>	<b>205</b>	<b>8</b>	<b>44</b>	<b>1829</b>	<b>666</b>	<b>0</b>	<b>41</b>	<b>98</b>	<b>52</b>	<b>18</b>	<b>0</b>	<b>46</b>	<b>5429</b>	
Total per hr			0.00	0.35	0.37	0.65	0.18	8.24	0.83	0.03	0.18	7.39	2.69	0.00	0.17	0.40	0.21	0.07	0.00	0.19	21.94	
% of flight			0.0	1.6	1.7	3.0	0.8	37.6	3.8	0.1	0.8	33.7	12.3	0.0	0.8	1.8	1.0	0.3	0.0	0.8	100.0	
Average last 10 yrs		84.2	551.7	81.0	427.2	290.0	229.9	86.8	2859.0	309.1	17.7	88.5	6800.0	1427.8	0.7	75.9	167.0	93.2	40.0	0.0	89.9	13084.1

MILLITA HILL (Montgomery) - Andy Fayer, Lynne Jackson, Rich Conroy, co-compilers																					
Month	Days	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOGO	RSHA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	SWHA	Unid	*Total
September	27	197.3	0	0	276	83	20	314	66	0	4	3442	1	0	0	199	21	5	0	24	4456
October	31	234.7	28	637	32	42	22	551	63	1	56	47	85	0	5	115	26	7	0	39	1756
<b>Total</b>	<b>58</b>	<b>431.9</b>	<b>28</b>	<b>637</b>	<b>308</b>	<b>125</b>	<b>42</b>	<b>865</b>	<b>129</b>	<b>1</b>	<b>60</b>	<b>3489</b>	<b>86</b>	<b>0</b>	<b>5</b>	<b>314</b>	<b>47</b>	<b>12</b>	<b>0</b>	<b>63</b>	<b>6212</b>
Total per hr			0.06	1.47	0.71	0.29	0.10	2.00	0.30	0.00	0.14	8.08	0.20	0.00	0.01	0.73	0.11	0.03	0.00	0.15	14.38
% of flight			0.5	10.3	5.0	2.0	0.7	13.9	2.1	0.0	1.0	56.2	1.4	0.0	0.1	5.1	0.8	0.2	0.0	1.0	100.0
Average last 10 yrs		60.1	447.3	18.8	719.6	251.0	113.0	67.0	998.8	133.9	63.2	10178.2	99.3	0.3	3.5	263.4	37.7	28.8	0.4	62.6	13041.5

ROCKY RIDGE (York) - Randy Phillips, compiler																					
Month	Days	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOGO	RSHA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	SWHA	Unid	Total
August	3	4.8	0	0	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	4
September	13	74.8	0	0	45	17	12	217	6	0	3	2797	2	0	0	100	0	2	0	6	3208
October	17	68.3	8	59	5	7	9	211	17	0	9	14	30	0	0	26	7	3	0	7	412
November	5	7.8	0	3	0	1	1	2	1	0	0	0	12	0	0	0	0	0	0	1	21
<b>Total</b>	<b>38</b>	<b>155.5</b>	<b>8</b>	<b>62</b>	<b>52</b>	<b>26</b>	<b>22</b>	<b>430</b>	<b>25</b>	<b>0</b>	<b>12</b>	<b>2811</b>	<b>44</b>	<b>0</b>	<b>0</b>	<b>126</b>	<b>7</b>	<b>5</b>	<b>0</b>	<b>14</b>	<b>3645</b>
Total per hr			0.05	0.40	0.33	0.17	0.14	2.77	0.16	0.00	0.08	18.08	0.28	0.00	0.00	0.81	0.05	0.03	0.00	0.09	23.44
% of flight			0.2	1.7	1.4	0.7	0.6	11.8	0.7	0.0	0.3	77.1	1.2	0.0	0.0	3.5	0.2	0.1	0.0	0.4	100.0
Average last 10 yrs		13.7	88.1	2.0	24.2	33.0	44.2	10.2	291.4	10.0	3.0	2347.2	15.2	0.0	0.3	64.8	3.0	2.0	0.0	4.8	2863.4

\*Including Mississippi Kite on 9/16/2018



**ROSE TREE PARK (Delaware) - Holly Merker and Janet Crawford, co-compilers**

Month	Days	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOGO	RSHA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	SWHA	Unid	Total
September	28	155.5	0	0	117	70	11	173	39	0	6	1822	2	0	0	106	6	4	0	15	2371
October	30	164.0	0	132	22	31	24	456	68	0	52	50	28	0	0	77	15	11	0	26	992
November	15	75.3	0	69	0	18	3	27	14	1	71	0	31	0	0	1	1	1	0	10	247
<b>Total</b>	<b>73</b>	<b>394.8</b>	<b>0</b>	<b>201</b>	<b>139</b>	<b>119</b>	<b>38</b>	<b>656</b>	<b>121</b>	<b>1</b>	<b>129</b>	<b>1872</b>	<b>61</b>	<b>0</b>	<b>1</b>	<b>184</b>	<b>22</b>	<b>15</b>	<b>0</b>	<b>51</b>	<b>3610</b>
Total per hr			0.00	0.51	0.35	0.30	0.10	1.66	0.31	0.00	0.33	4.74	0.15	0.00	0.00	0.47	0.06	0.04	0.00	0.13	9.14
% of flight			0.0	5.6	3.9	3.3	1.1	18.2	3.4	0.0	3.6	51.9	1.7	0.0	0.0	5.1	0.6	0.4	0.0	1.4	100.0
Average last 10 yrs	81.2	483.7	37.8	487.3	166.4	122.8	60.0	915.7	140.7	0.9	162.0	3250.4	255.0	0.2	2.8	158.8	28.0	17.3	0.2	47.8	5853.7

**SECOND MOUNTAIN (Lebanon) - David Schwenk, compiler**

Month	Days	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOGO	RSHA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	SWHA	Unid	Total
August	6	27.0	0	0	7	4	0	1	1	0	1	28	6	0	0	0	0	0	0	0	48
September	27	175.8	0	0	69	69	14	231	35	0	9	1990	56	0	0	62	14	9	0	9	2567
October	28	195.5	86	245	22	92	37	1686	185	12	43	25	230	0	55	70	26	24	0	13	2851
November	24	149.0	46	53	0	45	10	56	13	9	27	0	133	3	43	3	2	2	0	3	447
December	11	66.5	29	8	0	19	2	1	0	0	0	0	18	0	6	0	1	0	0	1	86
<b>Total</b>	<b>96</b>	<b>613.8</b>	<b>161</b>	<b>306</b>	<b>98</b>	<b>229</b>	<b>63</b>	<b>1974</b>	<b>234</b>	<b>22</b>	<b>80</b>	<b>2043</b>	<b>443</b>	<b>3</b>	<b>104</b>	<b>135</b>	<b>43</b>	<b>35</b>	<b>0</b>	<b>26</b>	<b>5999</b>
Total per hr			0.26	0.50	0.16	0.37	0.10	3.22	0.38	0.04	0.13	3.33	0.72	0.00	0.17	0.22	0.07	0.06	0.00	0.04	9.77
% of flight			2.7	5.1	1.6	3.8	1.1	32.9	3.9	0.4	1.3	34.1	7.4	0.1	1.7	2.3	0.7	0.6	0.0	0.4	100.0
Average last 10 yrs	126.5	841.1	340.1	664.4	124.7	194.4	83.2	1994.5	215.0	16.1	102.8	4503.4	791	2	88.9	103.4	35.4	25.1	0.1	49.7	9334.5

**STONE MOUNTAIN (Huntingdon) - Greg Grove, compiler**

Month	Days	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOGO	RSHA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	SWHA	Unid	*Total
August	3	7.3	0	0	2	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	5
September	22	125.3	0	0	54	56	8	194	25	1	8	3020	23	0	1	49	5	12	0	6	3462
October	29	166.0	37	218	11	59	37	673	66	2	48	6	420	0	127	52	28	14	0	26	1824
November	18	96.5	1	39	0	34	8	24	8	1	14	0	246	1	75	1	3	0	0	3	458
December	6	31.0	4	1	0	8	1	0	0	0	0	0	11	0	15	0	0	0	0	0	40
<b>Total</b>	<b>78</b>	<b>426.1</b>	<b>42</b>	<b>258</b>	<b>67</b>	<b>158</b>	<b>54</b>	<b>892</b>	<b>99</b>	<b>4</b>	<b>70</b>	<b>3027</b>	<b>700</b>	<b>1</b>	<b>218</b>	<b>102</b>	<b>36</b>	<b>26</b>	<b>0</b>	<b>35</b>	<b>5789</b>
Total per hr			0.10	0.61	0.16	0.37	0.13	2.09	0.23	0.01	0.16	7.10	1.64	0.00	0.51	0.24	0.08	0.06	0.00	0.08	13.59
% of flight			0.7	4.5	1.2	2.7	0.9	15.4	1.7	0.1	1.2	52.3	12.1	0.0	3.8	1.8	0.6	0.4	0.0	0.6	100.0
Average last 10 yrs	73.8889	414.3	19.2	264	67.7	121.8	47.1	824.6	113.6	5.8	49.2	1827.5	639.1	0.9	129.0	87.4	32.9	20.2	0	26.5	4276.5

\*Total includes one Mississippi Kite on September 22

**SUMMIT MOUNTAIN (Fayette) - Peter Leventgood, compiler**

Month	Days	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOGO	RSHA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	SWHA	Unid	*Total
August	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
September	12	73.1	0	3	7	10	1	9	9	0	1	262	43	0	0	2	0	3	0	28	378
October	12	67.8	2	237	3	4	5	78	16	0	1	3	133	0	1	12	3	1	0	14	513
November	10	44.0	0	68	0	0	3	2	1	1	3	0	41	0	0	1	1	0	0	3	123
<b>Total</b>	<b>34</b>	<b>184.8</b>	<b>2</b>	<b>308</b>	<b>10</b>	<b>14</b>	<b>9</b>	<b>89</b>	<b>26</b>	<b>1</b>	<b>5</b>	<b>265</b>	<b>217</b>	<b>0</b>	<b>1</b>	<b>15</b>	<b>3</b>	<b>4</b>	<b>0</b>	<b>45</b>	<b>1014</b>
Total per hr			0.01	1.67	0.05	0.08	0.05	0.48	0.14	0.01	0.03	1.43	1.17	0.00	0.01	0.08	0.02	0.02	0.00	0.24	5.49
% of flight			0.2	30.4	1.0	1.4	0.9	8.8	2.6	0.1	0.5	26.1	21.4	0.0	0.1	1.5	0.3	0.4	0.0	4.4	100.0

**WAGGONER'S GAP (Cumberland) - David Grove, compiler**

Month	Days	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOGO	RSHA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	SWHA	Unid	Total
August	26	141.5	0	0	33	52	4	13	8	0	1	162	102	0	0	12	3	4	0	4	398
September	24	174.3	0	0	174	132	38	999	105	0	6	4439	101	0	1	159	28	16	0	28	6226
October	30	260.8	59	1477	51	214	86	6286	423	9	87	52	1094	0	187	122	84	34	0	41	10306
November	24	189.3	9	186	2	109	22	160	51	16	57	0	700	0	61	1	3	3	0	14	1394
December	25	127.8	6	16	0	64	0	5	3	1	2	0	74	0	2	0	0	2	0	2	177
<b>Total</b>	<b>129</b>	<b>893.5</b>	<b>74</b>	<b>1679</b>	<b>260</b>	<b>571</b>	<b>150</b>	<b>7463</b>	<b>590</b>	<b>26</b>	<b>153</b>	<b>4653</b>	<b>2071</b>	<b>0</b>	<b>251</b>	<b>294</b>	<b>118</b>	<b>59</b>	<b>0</b>	<b>89</b>	<b>18501</b>
Total per hr			0.08	1.88	0.29	0.64	0.17	8.35	0.66	0.03	0.17	5.21	2.32	0.00	0.28	0.33	0.13	0.07	0.00	0.10	20.71
% of flight			0.4	9.1	1.4	3.1	0.8	40.3	3.2	0.1	0.8	25.1	11.2	0.0	1.4	1.6	0.6	0.3	0.0	0.5	100.0
Average of last 10 yrs	138.1	1073.0	68.5	1660.3	356.9	514.6	187.6	7341.5	610.7	38.7	209.1	7825.2	2616.6	2.1	235.2	291.8	101.8	60.2	0.1	135.8	22256.7

2018 TOTALS FOR ALL WATCHSITES

Month	Days	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOGO	RSHA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	SWHA	Unit	Total
August	98	674	53	174	126	174	18	38	28	0	4	696	248	0	0	49	11	5	0	82	1,706
September	315	2,163	73	319	1,637	1,146	181	4,380	655	3	85	47,491	676	0	7	1,162	216	145	0	341	58,499
October	351	2,479	306	5,594	318	1,172	441	21,044	2,158	53	600	465	5,549	0	806	1,173	471	193	0	376	40,719
November	230	1,404	130	1,452	4	544	128	881	242	50	453	0	3,193	6	380	23	47	17	0	64	7,614
December	71	382	56	28	0	120	5	10	8	3	8	0	174	0	31	0	2	2	0	4	451
<b>Total</b>	<b>1,065</b>	<b>7,101</b>	<b>618</b>	<b>7,567</b>	<b>2,085</b>	<b>3,156</b>	<b>773</b>	<b>26,333</b>	<b>3,091</b>	<b>109</b>	<b>1,150</b>	<b>48,652</b>	<b>9,840</b>	<b>6</b>	<b>1,224</b>	<b>2,407</b>	<b>747</b>	<b>362</b>	<b>0</b>	<b>867</b>	<b>108,989</b>
Total per hr			0.09	1.07	0.29	0.44	0.11	3.71	0.44	0.02	0.16	6.85	1.39	0.00	0.17	0.34	0.11	0.05	0.00	0.12	15.35
% of flight			0.6	6.9	1.9	2.9	0.7	24.2	2.8	0.1	1.1	44.6	9.0	0.0	1.1	2.2	0.7	0.3	0.0	0.8	100.0
Average of last 10 yrs	1162.3	7584.4	1149.9	7033	2349.7	2416.9	885.3	25238.5	2784.9	140.3	1105	63768.1	11794	9.5	1084	1914.2	662.5	377.5	2	1047.5	123853.6
% compared to average	-8.4	-6.4	-46.3	7.6	-11.3	30.6	-12.7	4.3	11.0	-22.3	4.1	-23.7	-16.6	-36.8	12.9	25.7	12.8	-4.1	-100.0	-17.2	-12.0

\*Total includes two Mississippi Kites

<sup>1</sup>Includes three Mississippi Kites

KEY TO TABLE HEADERS

BLVU	Black Vulture	RSHA	Broad-winged Hawk
TUVU	Turkey Vulture	BWHA	Red-tailed Hawk
OSPR	Osprey	RTHA	Rough-legged hawk
BAEA	Bald Eagle	RLHA	Golden Eagle
NOHA	Northern Harrier	GOEA	American Kestrel
SSHA	Sharp-shinned Hawk	AMKE	Merlin
COHA	Cooper's Hawk	PEFA	Peregrine Falcon
NOGO	Northern Goshawk	SWHA	Swainson's Hawk
RSHA	Red-shouldered Hawk	Unit	Unidentified