

Autumn Raptor Migration Summary 2001

by Kyle McCarty and Keith L. Bildstein

Fourteen hawkwatch sites reported counts for autumn 2001 (Table 1 and 2). Overall, count hours ranged from 98 to 1,189 hours, for a total of 8,899.5 hours. A total of 109,782 raptors representing 17 species was reported. Swainson's Hawks (*Buteo swainsoni*) were observed at two (Little Gap and Stone Mountain) of the 14 watchsites. Eleven sites posted daily results to the *BirdSource Autumn Hawkwatch* website (www.birdsource.org/HawkWatch/) and many also listed counts on the HMANA *Birdhawk* listserv or *RaptorsOnline*.

Average count effort (hours of observation) per watchsite in 2001 increased 11% over 2000 (636 hours/site in 2001 versus 564 hours/site in 2000), the highest watchsite average since 1998, with more time devoted to counting in the second part of the season this year (October to December) than in any of the previous three years. Count effort fluctuated by <7% at most sites compared to 2000, with the largest increases at Allegheny Front (up 45%; 605 hours in 2000 vs. 884 hours in 2001), Tuscarora Summit (25%; 359.5 hours vs. 449.5 hours), and Stone Mountain (19%; 347 hours vs. 412 hours). Five watchsites (Allegheny Front, Bake Oven Knob, Hawk Mountain Sanctuary, Second Mountain, and Waggoner's Gap) logged more than 800 hours of effort (Table 1). Effort at Brady's Bend and Rocky Ridge dropped 13% and 26%, respectively.

Composition of the flight

Table 1. Watchsites reporting data for autumn 2001.

Watchsite	County	Hours of observation
Hawk Mountain	Berks	1189
Waggoner's Gap	Cumberland	1188
Second Mountain	Lebanon	1186
Allegheny Front	Bedford	884
Bake Oven Knob	Lehigh	801
Little Gap	Northampton	749
Rose Tree Park	Delaware	685.5
Militia Hill	Montgomery	465
Tuscarora Summit	Fulton	449.5
Jack's Mountain	Mifflin	437
Stone Mountain	Huntington	412
Brady's Bend	Clarion	210
Rocky Ridge	York	145.5
Sterrett's Gap	Perry	98

In autumn 2001, almost all Pennsylvania watchsites reported much lower than average counts of Broad-winged Hawks (*Buteo platypterus*), and only Little Gap and Waggoner's Gap counted >5,000 individuals of this species (Table 2). Overall count effort in September increased slightly from 2000 to 2001, but passage rate of Broad-winged Hawks fell by more than half compared to 2000 (3.4 birds/hr vs. 7.5 birds/hr). Sharp-shinned Hawks (*Accipiter striatus*) and Broad-winged Hawks made up a nearly equal percentage of the overall flight, at about 27% each. Broad-winged Hawks comprised the largest part of the flight at only 5 of the 14 sites, ranging from <4% of the total flight at Sterrett's Gap to 55% of the total flight at Militia Hill (Note: Sterrett's Gap had limited coverage in September, and Militia Hill counted only in September and October). Annual variation in numbers of Broad-winged Hawks is typical for the species, and weather conditions may account for the differences in 2001.

The Sharp-shinned Hawk flight ranged from 13% of the total at Sterrett's Gap to 32% at Second Mountain, and Red-tailed Hawks (*Buteo jamaicensis*), which made up the third largest portion of the overall flight at 21%, ranged from 4% of the total at Militia Hill to 45% at Sterrett's Gap. Of the remaining 13 regular migrants in Pennsylvania, only Turkey Vultures (*Cathartes aura*) made up more than 5% of the overall flight, and this was the only other species comprising more than 10% of the flight at any individual site, with 36% at Brady's Bend and 24% at Sterrett's Gap (Table 2).

The passage rates for ten of the 16 migrant species [Osprey (*Pandion haliaetus*), Bald Eagle (*Haliaeetus leucocephalus*), Sharp-shinned Hawk, Cooper's Hawk (*Accipiter cooperii*), Red-shouldered Hawk (*Buteo lineatus*), Rough-legged Hawk (*B. lagopus*), Golden Eagle (*Aquila chrysaetos*), American Kestrel (*Falco sparverius*), Merlin (*F. columbarius*), and Peregrine Falcon (*F. peregrinus*)] varied little from

2000 to 2001. However, with the overall increase in count effort, half of the sites reported record numbers of Bald Eagles and five sites had record numbers of Merlins (see highlights below); both of these species have been well-represented throughout the state in recent years. Season records also were reported for Turkey Vultures at five sites.

Allegheny Front (Bedford)

A record 8,449 total hawks was recorded at this site, which also set new record season totals for Bald Eagles (41), Red-shouldered Hawks (129), Red-tailed Hawks (2,814), and Golden Eagles (163). The Golden Eagle count was the second-highest and the 7 Rough-legged Hawks were the most reported in the state in 2001. One highlight occurred on December 12, when 17 Golden Eagles were counted. Passage rates for most species were similar to last year, however count coverage was expanded from 2000 and included more days in the early and late parts of the season. A new Saw-whet Owl (*Aegolius acadicus*) banding station produced 48 owls in six nights.

Bake Oven Knob (Lehigh)

Observers logged 801 hours in 2001, a new record over last season's 745 hours. Record numbers of Black Vultures (*Coragyps atratus*) (289), Turkey Vultures (804), Bald Eagles (175), Cooper's Hawks (459), American Kestrels (318), and Merlins (102) were sighted. The Bald Eagle total was the highest count in the state in 2001. The best days were September 1, 5, and 14, with 14, 13, and 13 eagles respectively. A single-day record of 79 Turkey Vultures was seen on November 4. The 571 Ospreys and 41 Peregrine Falcons were the second highest season counts ever at the site, and the 3,972 Sharp-shinned Hawks was the highest since 1989.

Brady's Bend (Clarion)

With the low numbers of Broad-winged Hawks at most watchsites in the state and the loss of a second observer at this

site, totals were the lowest since the site was established in 1999. The season total was 422, mainly made up of Turkey Vultures, which increased slightly to 152 over last year's total of 145. Count effort decreased 30 hours from 2000. Compiler Mark McConaughy also noted that fewer non-raptor migrant species were seen.

Hawk Mountain Sanctuary (Berks)

More Merlins were counted at the site than at any other in the state, and the season total of 176 topped last year's long-term record. Seventeen Merlins were seen on October 6 and 15, the site's seventh-best single day counts. The highest state counts for Osprey (573), Cooper's Hawk (902), and American Kestrel (581) also were reported. Back-to-back days of over 500 Red-tailed Hawks came on the weekend of October 27-28, a phenomenon that has occurred only 4 other times at the Sanctuary. Most species were at or above the ten-year average.

Jack's Mountain (Mifflin)

Compiler Ron Singer reported an overall average year at the site. Like many of the watchsites this year, Sharp-shinned Hawks were the most numerous migrant, and accounted for 1,105 of the total 3,628 hawks. The Red-tailed Hawk count (1,022) also made up nearly a third of the total. Broad-winged Hawk numbers were below average for the site. The peak flight of 14 Golden Eagles came on November 4.

Little Gap (Northampton)

A light-morph Swainson's Hawk (*Buteo swainsoni*) highlighted the count on September 15, only the fifth time this species has been seen at the site. New season records were set for Black Vulture (89), Turkey Vulture (378), and Merlin (89), and the American Kestrel total of 424 beat the previous record of 397 set in 2000. The 5,522 Broad-winged Hawks was the state high count total. Hours of effort increased by more than 30 over last year; however the number of count days remained equal.

Militia Hill (Montgomery)

The peak flight days occurred September 15-16, when 602 and 682 birds were counted. Broad-winged Hawks made up

more than half of the flight overall. The 42 Bald Eagles fell just short of the site record of 44, and Cooper's Hawks (149) were also well-represented. Northern Goshawks, Rough-legged Hawks, and Golden Eagles were all reported last year, but none were seen at the site in 2001.

Rocky Ridge (York County) - A season record of 38 Bald Eagles, with a high count of 7 on September 15, was reported at the site, which has seen numbers of this species increase steadily over the past ten years. Also of note was a total of 91 American Kestrels, well above the 16-year average of 48 per season. Although Broad-winged Hawks were nearly 70% below the annual average, totals for Sharp-shinned, Cooper's, and Red-tailed Hawks were somewhat above average. Count effort was typical for the site, with 146 hours, mainly in September and October.

Rose Tree Park (Delaware)

Ten new records were set for species totals at the site, including 84 Black Vulture (peak day of 20), 610 Turkey Vulture (79), 113 Bald Eagle (7), 93 Northern Harrier (8), 1,890 Sharp-shinned Hawk (217), 235 Cooper's Hawk (16), 20 Northern Goshawk (3), 192 Red-shouldered Hawk (37), 431 American Kestrel (42), and 61 Merlin (4). A year after totaling nearly 14,000 Broad-winged Hawks, observers counted only 2,094, the lowest in the three years of consistent count effort at the site. Passage rates for the remaining species were near or above those for 2000, except for the Rough-legged Hawk, which was not seen in 2001.

Second Mountain (Lebanon)

Count effort was expanded to a record 1186 hours and a state high of 149 days. Twenty-seven Bald Eagles counted in September helped set a new season record of 68, and the 2000 record of 66 Merlins was increased to 82 in 2001. Twenty-seven Merlins were seen October 9-16. A peak Northern Goshawk flight of 8 on October 16 highlighted a tied record total of 104. Observers reported more Black Vultures (300) than any other site this year.

Sterrett's Gap (Perry)

Count effort at the site was comparable to 2000. There was an overall decrease in accipiter hawks, but increases in vultures

and harrier. The peak of the Golden Eagle flight occurred November 4-7, when observers counted 12 individuals, and the peak flight overall was October 27 with 199 birds of 9 species.

Stone Mountain (Huntingdon)

The site experienced a good to excellent year in comparison to the previous ten years, according to compiler Greg Grove, who noted that several season and single-day records were established, including a total of 42 Bald Eagles (8 single-day), 255 Cooper's Hawks, 25 Northern Goshawks (5 single-day), and 39 Peregrine Falcons (11 single-day). Additionally, single-day records were set for Sharp-shinned Hawk (176) and Red-tailed Hawk (328). On November 9, a Swainson's Hawk was seen. It was the second best year on record for Ospreys, Sharp-shinned Hawks, Red-tailed Hawks, Golden Eagles, and Merlins.

Tuscarora Summit (Fulton)

The 2001 count was the best since 1993. A season record of 401 Turkey Vultures topped the previous high by nearly 100 birds, and the Golden Eagle count tied the 1999 record of 52. The Northern Harrier total reached 100 for the first time in eight years. The peak flight for this species was October 19, when 20 were seen. Passage rates for 12 species and for all species combined increased from 2000, and only the Bald Eagle and Broad-winged Hawk were seen at a lesser rate.

Waggoner's Gap (Cumberland)

The only site to report more than 200 Golden Eagles in the state, Waggoner's Gap also had state high counts of 1,243 Turkey Vultures (also a season record for the site), 313 Northern Harriers, 5,768 Sharp-shinned Hawks, 156 Northern Goshawks, 377 Red-shouldered Hawks, 4,632 Red-tailed Hawks, 52 Peregrine Falcons, and 20,098 total birds. Other site records include a season total of 149 Bald Eagles with a single-day record of 16 on September 14, and a single-day record of 105 Red-shouldered Hawks on October 29. More than 40% of the Northern Harrier flight passed during October 16-31. *

Table 2. PENNSYLVANIA AUTUMN HAWK MIGRATION SUMMARIES

ALLEGHENY FRONT (Bedford) 2001
Angelo Mincone, compiler

Month	Days	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOGO	RSHA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	Unid	Total
Aug	16	92	1	0	7	10	3	46	5	0	0	201	52	0	0	15	0	2	12	354
Sep	30	261	13	97	101	16	17	265	65	1	12	2,009	370	0	1	49	12	19	127	3,174
Oct	31	263	0	609	3	10	29	1,009	151	8	84	2	1,695	2	48	21	37	8	100	3,816
Nov	29	214	4	76	0	2	26	41	38	15	32	0	677	5	92	2	1	2	40	1,053
Dec	9	54	0	1	0	3	0	2	1	0	1	0	20	0	22	0	0	0	2	52
Total	115	884	18	783	111	41	75	1,363	260	24	129	2,212	2,814	7	163	87	50	31	281	8,449
Total per hr			0.02	0.89	0.13	0.05	0.08	1.54	0.29	0.03	0.15	2.51	3.19	0.01	0.18	0.10	0.06	0.04	0.32	9.57
% of flight			0.2	9.3	1.3	0.5	0.9	16.1	3.1	0.3	1.5	26.2	33.3	0.1	1.9	1.0	0.6	0.4	3.3	100.0

BAKE OVEN KNOB (Lehigh) 2001
Dan Kunkle, compiler

Month	Days	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOGO	RSHA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	Unid	Total
Aug	18	125.5	63	114	54	24	6	23	2	0	1	121	31	0	0	24	3	0	21	487
Sep	29	262.5	72	188	462	100	38	716	124	2	5	2,930	220	0	0	190	24	14	114	5,199
Oct	31	262	88	370	55	38	129	3,156	315	34	109	2	1,837	1	28	104	75	26	101	6,468
Nov	23	151	66	132	0	13	32	77	18	21	41	0	877	0	29	0	0	1	48	1,355
Total	101	601	289	804	571	175	205	3,972	459	57	156	3,053	2,965	1	57	318	102	41	284	13,509
Total per hr			0.36	1.00	0.71	0.22	0.26	4.96	0.57	0.07	0.19	3.81	3.70	0.00	0.07	0.40	0.13	0.05	0.35	16.87
% of flight			2.1	6.0	4.2	1.3	1.5	29.4	3.4	0.4	1.2	22.6	21.9	0.0	0.4	2.4	0.8	0.3	2.1	100.0

BRADY'S BEND (Clarion) 2001
Mark McConaughy, compiler

Month	Days	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOGO	RSHA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	Unid	Total
Aug	2	16	0	8	2	2	2	2	1	0	0	13	1	0	0	1	1	0	3	35
Sep	15	117	0	99	15	3	5	31	10	0	2	35	9	0	0	5	2	1	5	222
Oct	8	53	0	43	0	4	4	32	12	0	2	0	27	0	0	2	3	0	4	133
Nov	4	24	0	2	0	0	2	5	1	0	0	0	19	1	0	1	0	0	1	32
Total	29	210	0	152	17	9	13	70	24	0	4	48	56	1	0	9	5	1	13	422
Total per hr			0	0.72	0.08	0.04	0.06	0.33	0.11	0.00	0.02	0.23	0.27	0.00	0.00	0.04	0.02	0.00	0.06	2.01
% of flight			0.0	36.0	4.0	2.1	3.1	16.6	5.7	0.0	0.9	11.4	13.3	0.2	0.0	2.1	1.2	0.2	3.1	100.0

HAWK MOUNTAIN SANCTUARY (Barks) 2001
Laurie Goodrich, compiler

Month	Day	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOG	RSHA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	Unid	Total
Aug	18	167	0	0	63	20	11	37	16	0	1	79	9	0	0	51	4	0	5	296
Sep	29	316.5	10	1	458	66	47	904	168	4	14	3,754	208	0	1	360	50	11	42	6,098
Oct	31	305	18	239	52	27	139	3,733	637	26	165	9	1,939	0	34	169	116	23	79	7,405
Nov	27	215.5	19	69	0	22	55	136	72	77	92	0	1,426	2	46	1	5	1	25	2,048
Dec	20	124	1	20	0	23	3	16	7	15	3	0	119	1	8	0	1	1	3	221
Jan	12	61	0	0	0	15	0	1	2	3	0	0	13	3	0	0	0	0	0	37
Total	137	1189	48	329	573	173	255	4,827	902	125	275	3,842	3,714	6	89	581	176	36	154	16,105
Total per hr			0.04	0.28	0.48	0.15	0.21	4.06	0.76	0.11	0.23	3.23	3.13	0.01	0.07	0.49	0.15	0.03	0.13	13.56
% of flight			0.3	2.0	3.6	1.1	1.6	30.0	5.6	0.8	1.7	23.9	23.1	0.0	0.6	3.6	1.1	0.2	1.0	100.0

LITTLE GAP (Northampton) 2001
Michael Schall, compiler

Month	Days	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOG	RSHA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	Unid	Total
Aug	4	21	0	0	3	0	1	0	1	0	0	13	0	0	0	3	0	0	0	21
Sep	23	144	15	0	52	11	11	131	20	0	3	838	43	0	0	51	2	1	10	1,189
Oct	30	191	14	175	2	1	51	953	74	8	4	0	855	0	22	42	10	6	4	2,221
Nov	13	63	0	0	0	3	3	18	5	3	0	0	110	1	25	2	0	0	0	170
Dec	5	18	0	0	0	1	1	3	1	2	0	0	14	0	6	0	0	0	0	28
Total	75	437	29	175	57	16	67	1,105	101	13	7	851	1,022	1	53	98	12	7	14	3,628
Total per hr			0.07	0.40	0.13	0.04	0.15	2.53	0.23	0.03	0.02	1.95	2.34	0.00	0.12	0.22	0.03	0.02	0.03	8.30
% of flight			0.8	4.8	1.6	0.4	1.8	30.5	2.8	0.4	0.2	23.5	28.2	0.0	1.5	2.7	0.3	0.2	0.4	100.0

JACK'S MOUNTAIN (Mifflin) 2001
Ron Singer, compiler

Month	Day	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOG	RSHA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	Unid	Total
Aug	19	93	3	0	33	14	5	39	3	0	1	60	16	0	1	32	3	0	6	216
Sep	29	221	17	0	348	53	42	806	107	1	4	5,460	135	0	0	302	29	16	86	7,407
Oct	31	255	50	281	51	36	119	3,508	423	27	95	2	1,552	0	28	90	52	14	76	6,404
Nov	22	135	13	96	0	10	33	79	28	30	22	0	843	1	31	0	5	0	20	1,211
Dec	9	45	6	1	0	13	0	3	0	6	2	0	35	1	2	0	0	0	1	70
Total	110	749	89	378	432	126	199	4,435	661	64	124	5,522	2,581	2	62	424	89	30	189	15,308
Total per hr			0.12	0.50	0.58	0.17	0.27	5.92	0.75	0.09	0.17	7.38	3.45	0.00	0.08	0.57	0.12	0.04	0.25	20.45
% of flight			0.6	2.5	2.8	0.8	1.3	29.0	3.7	0.4	0.8	36.1	16.9	0.0	0.4	2.8	0.6	0.2	1.2	100.0

PENNSYLVANIA BIRDS

MILITIA HILL (Montgomery) 2001
Marylea Klauder, compiler

Month	Day	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOG	RSWA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	Unid	Total
Sep	30	235	0	30	229	33	18	408	82	0	0	2,756	11	0	0	245	10	4	73	3,899
Oct	31	230	13	208	20	9	22	437	67	0	16	0	172	0	0	120	11	4	29	1,128
Total	61	465	13	238	249	42	40	845	149	0	16	2,756	183	0	0	365	21	8	102	5,027
Total per hr			0.03	0.51	0.54	0.09	0.09	1.82	0.32	0.00	0.03	5.93	0.39	0.00	0.00	0.78	0.05	0.02	0.22	10.81
% of flight			0.3	4.7	5.0	0.8	0.8	16.8	3.0	0.0	0.3	54.8	3.6	0.0	0.0	7.3	0.4	0.2	2.0	100.0

ROCKY RIDGE (York) 2001
Randy Phillips, compiler

Month	Day	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOG	RSWA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	Unid	Total
Aug	4	8	0	0	0	1	2	0	1	0	0	12	0	0	0	1	0	0	1	19
Sep	17	67	2	0	39	23	8	138	16	0	3	554	19	0	0	57	1	1	15	876
Oct	14	43.5	3	126	4	9	9	227	19	0	11	0	187	0	1	33	1	3	12	625
Nov	8	21	21	37	0	1	4	19	2	1	4	0	87	0	0	0	0	0	0	176
Dec	3	6	41	0	0	4	0	4	0	0	0	0	16	0	0	0	0	0	0	65
Total	46	145.5	67	163	44	38	23	388	38	1	18	566	289	0	1	91	2	4	28	1,761
Total per hr			0.46	1.12	0.30	0.26	0.16	2.67	0.26	0.01	0.12	3.89	1.99	0.00	0.01	0.63	0.01	0.03	0.19	12.10
% of flight			3.8	9.3	2.5	2.2	1.3	22.0	2.2	0.1	1.0	32.1	16.4	0.0	0.1	5.2	0.1	0.2	1.6	100.0

ROSE TREE PARK (Delaware) 2001
Jim Lockyer, compiler

Month	Day	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOG	RSWA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	Unid	Total
Aug	16	120	2	14	36	8	1	11	10	0	10	64	12	0	0	14	0	0	13	195
Sep	30	232	14	22	231	52	40	822	87	3	10	2,026	32	0	0	286	15	4	34	3,678
Oct	31	228	49	455	36	39	42	923	118	17	118	4	318	0	4	129	37	9	48	2,346
Nov	16	105.5	19	119	0	13	9	129	19	0	49	0	103	0	1	2	9	2	15	489
Total	93	685.5	84	610	303	112	92	1,885	234	20	187	2,094	465	0	5	431	61	15	110	6,708
Total per hr			0.12	0.89	0.44	0.16	0.13	2.75	0.34	0.03	0.27	3.05	0.68	0.00	0.01	0.63	0.09	0.02	0.16	9.79
% of flight			1.3	9.1	4.5	1.7	1.4	28.1	3.5	0.3	2.8	31.2	6.9	0.0	0.1	6.4	0.9	0.2	1.6	100.0

SECOND MOUNTAIN (Lebanon) 2001
David Schwenk, compiler

Month	Day	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOG	RSHA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	Unid	Total
Aug	31	212	0	0	22	13	7	29	7	0	1	92	48	0	0	17	7	0	6	249
Sep	30	283	0	0	222	27	38	503	80	10	13	1,498	140	0	4	132	32	23	32	2,754
Oct	31	299	127	473	11	12	70	1,930	262	54	86	4	687	1	30	44	42	13	39	3,885
Nov	29	221	76	131	1	6	24	42	11	35	35	0	384	0	21	0	1	0	4	771
Dec	28	171	97	75	0	10	0	5	1	5	2	0	52	0	10	0	0	2	2	261
Total	149	1186	300	679	256	68	139	2,509	361	104	137	1,594	1,311	1	65	193	82	38	83	7,920
Total per hr			0.25	0.57	0.22	0.06	0.12	2.12	0.30	0.09	0.12	1.34	1.11	0.00	0.05	0.16	0.07	0.03	0.07	6.68
% of flight			3.8	8.6	3.2	0.9	1.8	31.7	4.6	1.3	1.7	20.1	16.6	0.0	0.8	2.4	1.0	0.5	1.0	100.0

STERRETT'S GAP (Perry) 2001
Burle Schofield, compiler

Month	Day	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOG	RSHA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	Unid	Total
Sep	5	22	0	0	10	1	2	16	5	0	0	50	93	0	0	1	0	0	7	185
Oct	11	42	29	201	3	1	13	153	51	2	8	0	343	0	8	5	0	0	1	818
Nov	11	34	21	124	0	0	1	2	3	6	1	0	159	0	14	0	0	0	3	334
Total	27	96	50	325	13	2	16	171	59	8	9	50	595	0	22	6	0	0	11	1,337
Total per hr			0.51	3.32	0.13	0.02	0.16	1.74	0.60	0.08	0.09	0.51	6.07	0.00	0.22	0.06	0.00	0.00	0.11	13.64
% of flight			3.7	24.3	1.0	0.1	1.2	12.8	4.4	0.6	0.7	3.7	44.5	0.0	1.6	0.4	0.0	0.0	0.8	100.0

STONE MOUNTAIN (Huntingdon) 2001
Greg Grove, compiler

Month	Days	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOG	RSHA	BWHA	RTHA	RLHA	GOEA	AMKE	MERL	PEFA	Unid	Total
Sep	22	146	0	0	92	27	10	219	52	1	6	606	124	0	1	64	10	14	21	1,247
Oct	26	163	0	0	15	7	36	915	186	10	40	1	1,044	1	21	57	24	23	46	2,426
Nov	15	90	0	0	2	7	16	31	15	13	20	0	337	2	83	1	2	0	7	537
Dec	3	13	0	0	0	1	0	1	2	1	1	0	38	0	4	0	0	2	0	50
Total	66	412	0	0	109	42	62	1,166	255	25	67	607	1,543	3	109	122	36	39	74	4,260
Total per hr			0.0	0.0	0.31	0.12	0.18	3.36	0.73	0.07	0.19	1.75	4.45	0.01	0.31	0.35	0.10	0.11	0.21	12.28
% of flight			0.0	0.0	2.4	0.9	1.4	25.6	5.6	0.5	1.5	13.3	33.9	0.1	2.4	2.7	0.8	0.9	1.6	100.0

TUSCARORA SUMMIT (Fulton) 2001
John Taylor, compiler

Month	Days	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOGO	RSHA	BWHA	RTHA	RLHA	GOGA	AMKE	MERL	PEFA	Unid	Total
Sep	26	161	2	16	104	10	22	259	28	0	3	2,055	43	0	3	27	5	7	32	2,616
Oct	30	182.5	35	289	18	3	66	1,134	94	2	23	2	501	0	22	18	10	11	45	2,273
Nov	20	106	0	96	0	2	12	24	13	6	5	0	166	0	27	0	1	0	9	361
Total	76	449.5	37	401	122	15	100	1,417	135	8	31	2,057	710	0	52	45	16	18	86	5,250
Total per hr			0.08	0.89	0.27	0.03	0.22	3.15	0.30	0.02	0.07	4.58	1.58	0.00	0.12	0.10	0.04	0.04	0.19	11.68
% of flight			0.7	7.6	2.3	0.3	1.9	27.0	2.6	0.2	0.6	39.2	13.5	0.0	1.0	0.9	0.3	0.3	1.6	100.0

WAGGONERS GAP (Cumberland) 2001
David Grove, compiler

Month	Days	Hours	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOGO	RSHA	BWHA	RTHA	RLHA	GOGA	AMKE	MERL	PEFA	Unid	Total*
Aug	31	199	0	0	50	24	20	74	12	0	2	124	24	0	0	71	0	1	11	413
Sep	28	273.5	0	0	357	71	50	1,138	174	4	21	5,024	303	0	2	219	27	12	50	7,452
Oct	31	299	36	1,053	23	27	176	4,417	643	58	283	3	2,811	1	70	77	62	38	105	9,883
Nov	28	222	9	114	2	10	64	127	51	82	63	0	1,282	2	114	0	3	1	22	1,946
Dec	29	194.5	29	76	0	17	3	12	11	12	8	0	212	2	18	1	0	0	3	404
Total	147	1,188	74	1,243	432	149	313	5,768	891	166	377	5,151	4,632	5	204	368	92	52	191	20,098
Total per hr			0.06	1.05	0.36	0.13	0.26	4.86	0.75	0.13	0.32	4.34	3.90	0.00	0.17	0.31	0.08	0.04	0.16	16.92
% of flight			0.4	6.2	2.1	0.7	1.6	28.7	4.4	0.8	1.9	25.6	23.0	0.0	1.0	1.8	0.5	0.3	1.0	100.0

TOTAL FOR ALL WATCHSITES 2001

Month	Days	Hours*	BLVU	TUVU	OSPR	BAEA	NOHA	SSHA	COHA	NOGO	RSHA	BWHA	RTHA	RLHA	GOGA	AMKE	MERL	PEFA	Unid	Total**
Aug	159	1054	69	136	271	116	58	261	58	0	16	779	193	0	1	229	17	3	78	2,285
Sep	343	2742	145	453	2,720	493	348	6,356	1,018	26	96	29,595	1,750	0	12	1,988	219	127	648	45,995
Oct	367	2816	462	4,522	293	223	905	22,527	3,052	246	1,044	29	13,948	6	316	911	480	178	689	49,831
Nov	245	1602	248	996	5	89	281	730	276	289	364	0	6,470	14	483	9	27	7	194	10,483
Dec	106	626	174	173	0	72	7	46	23	41	17	0	506	4	70	1	1	5	11	1,151
Jan	12	61	0	0	0	15	0	1	2	0	0	0	13	3	0	0	0	0	0	37
Total	1232	8900	1,098	6,280	3,289	1,008	1,599	29,921	4,429	605	1,537	30,403	22,880	27	882	3,138	744	320	1,620	109,782
Total per hr			0.12	0.71	0.37	0.11	0.18	3.36	0.50	0.07	0.17	3.42	2.57	0.00	0.10	0.35	0.08	0.04	0.18	12.34
% of flight			1.0	5.7	3.0	0.9	1.5	27.3	4.0	0.6	1.4	27.7	20.8	0.0	0.8	2.9	0.7	0.3	1.5	100.0
% change from 2000*			50	27	0	0	38	0	6	133	13	-54	22	0	0	6	0	0	6	-21

**Total per hr 2001 vs total per hr 2000