# Autumn Raptor Migration Summary 2012 <br> Laurie Goodrich 

## Pennsylvania - the Eagle-watching

 StatePennsylvania may be the best location in eastern North America for seeing migrating eagles, and autumn is definitely the best time. Autumn 2012 brought record Bald and Golden Eagle counts across Pennsylvania, with a statewide total of 3988 eagles ( 2649 Bald and 1339 Golden) across sixteen watch sites. The state is also a leader in numbers of hawk and eagle watchers and days afield, with an impressive 8006 hours and 1164 days spent watching in autumn 2012 (Table 1). Perhaps a new state motto is in order, Pennsylvania: the eagle-watching state!

Total numbers of raptor were average to above-average for most of the watchsites, d a season full of memorable birding days. Across the state, 171,976 raptors were tallied, up $5 \%$ compared with 2011's above-average total of 163,984, and representing a respectable rate of 21 hawks per hour observed.

Notable increases from 2011 were recorded for Bald Eagle (up 17\%), Northern Goshawk (up 157\%), Redshouldered Hawk (up 64\%), Red-tailed Hawk (up 41\%), and American Kestrel (up 24\%). Particularly noteworthy days occurred across the state in midSeptember when skies filled with Broadwinged Hawks, and southeastern watchsites saw record concentrations. By September's close, most sites had seen above-average totals of Broad-winged

Hawk. October showed a steady movement of accipiters and falcons statewide, with no huge flights reported but numbers that kept counters busy daily. In early November a torrent of Red-tailed Hawks, Northern Goshawks, and Golden Eagles collected along the Appalachian ridges following the passage of Hurricane Sandy. Many sites enjoyed an amazing three-day push of Golden Eagles with some daily totals at times exceeding some annual totals from years past. Rarities observed in 2012 included three Swainson's Hawks sighted at Militia Hill (light morph, 9 September), Hawk Mountain (light morph, 4 November), and Bake Oven Knob (light morph, 12 November), and a white Gyrfalcon spotted at Second Mountain 11 December. No kites were counted for the first time in several autumns, although Waggoner's Gap observed one that was chased back up ridge by a Broad-winged Hawk 12 August, rendering it uncountable.

Allegheny Front (Somerset/Bedford) Allegheny Front recorded $22 \%$ fewer raptors than average during 832 hours and 114 days of counting (Table 1). Despite lower total counts, Bald Eagle numbers were $12 \%$ above average with 86, and Golden Eagle numbers 31\% above average with 233. Peregrine Falcon, Northern Goshawk and Sharpshinned Hawk were slightly above average as well. 13 September brought the highest one-day count for the season

Table 2. Peak count dates for selected species at all Pennsylvania watch sites.

| Site | Br.-winged Hawk |  | Bald Eagle |  | Golden Eagle |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Count | Date | Count | Date | Count | Date |
| Allegheny Front | 869 | $9 / 13$ | 11 | $9 / 20$ | 38 | $11 / 6$ |
| Bake Oven Knob | 1538 | $9 / 20$ | $\mathbf{3 0}$ | $9 / 5$ | $\mathbf{4 2}$ | $11 / 3$ |
| Blue Mtn./Rte. 183 | 698 | $9 / 14$ | 19 | $9 / 5$ | 23 | $11 / 4$ |
| Bucktoe Preserve | 468 | $9 / 23$ | 11 | $10 / 6$ | - | - |
| Pipersville (BW) | 518 | $9 / 19$ | 1 | $9 / 17$ | - | - |
| Council Cup | 147 | $9 / 19$ | 10 | $9 / 15$ | 1 | $11 / 13$ |
| Hawk Mountain | 1597 | $9 / 14$ | $\mathbf{3 6}$ | $9 / 5$ | 48 | $11 / 3$ |
| Jack's Mountain | 1116 | $9 / 13$ | 8 | $9 / 16,23$ | 14 | $11 / 3$ |
| Little Gap | 1985 | $9 / 17$ | $\mathbf{4 7}$ | $9 / 5$ | 21 | $11 / 3$ |
| Militia Hill | $\mathbf{6 4 2 0}$ | $9 / 16$ | 19 | $9 / 16$ | 1 | several |
| Rocky Ridge Park* | - | - | - | - | - | - |
| Rose Tree Park | $\mathbf{3 6 4 2}$ | $9 / 16$ | 18 | $9 / 30$ | 1 | several |
| Second Mountain | 2621 | $9 / 14$ | 16 | $9 / 10$ | 16 | $11 / 3$ |
| Stone Mountain | 207 | $9 / 17$ | 17 | $9 / 5$ | 19 | $11 / 9$ |
| Tuscarora Summit | 1095 | $9 / 14$ | 6 | several | 3 | $11 / 7$ |
| Tussey Mountain | 1114 | $9 / 19$ | 13 | $9 / 5$ | 5 | $11 / 3$ |
| Waggoner's Gap | 3377 | $9 / 14$ | 29 | $9 / 19$ | $\mathbf{5 0}$ | $11 / 5$ |

*daily count unreported
with 869 Broad-winged Hawks among 898 raptors (Table 2). This traditional site for Golden Eagle site did not disappoint, with counters tallying more than 20 on several days and a peak oneday count of 38 on 6 November. Peak counts of Red-tailed Hawk were early, when east winds brought 132 and 145 Redtails 17 and 18 October, among 239 and 258 total raptors observed.

Bake Oven Knob (Lehigh) - Bake Oven Knob tallied 17,186 total raptors during 769 hours of counting in 2012, a $14 \%$ increase over the ten-year average of 15,068 (Table 1). New season records of 300 Bald Eagles and 167 Golden Eagles were set. Other species migrating in above-average numbers were Sharpshinned Hawk (3832), Northern Goshawk (71), Broad-winged Hawk (7123), Red-tailed Hawk (2961), Red-shouldered Hawk (220), Merlin (106), and Peregrine Falcon (64). Both Turkey and Black vultures, Osprey, Northern Harrier, and Cooper's Hawk were observed in lower than average numbers (Table 1). Northern Goshawk and Red-shouldered Hawk counts were the highest in over a decade. A peak one-day flight of Broadwinged Hawks occurred 20 September, when 1538 Broadwings sailed south with seven Bald Eagles and the first Golden Eagle of the season. Bake Oven recorded the third highest one-day count of Golden Eagles 3 November (42), along with 515 Red-tailed Hawks, 10 Bald Eagles, and 27 Red-shouldered Hawks. The 42 Golden Eagles set a new one-day record for the site as well. One of the last highlights for the season was the light-morph Swainson's Hawk soaring south 12 November at 13:35, one of four recorded in the state this season.

## Blue Mountain-Route 183 (Berks)

Schuylkill) - Blue Mountain counters recorded 4388 total raptors in 133 hours and 24 days, an above-average count despite a slight dip in coverage (Table 1). Six migrants showed above-average counts including Bald Eagle (81), Redshouldered (43), Broad-winged (1311), and Red-tailed Hawk (833), Golden Eagle (55), and American Kestrel (98). Peak Broad-winged Hawk count (698) was recorded 14 September (Table 2). The best eagle days occurred 5 September when 19 Bald Eagles flew past, and 4 November, post-Hurricane Sandy, when 23 Golden Eagles were tallied. On 16

October, Blue Mountain counters enjoyed a memorable 14 -species day including all three accipiters, all three falcons, and both vultures moving through. The total one-day count of 468 was predominantly Sharp-shinned Hawks (314) and Redtailed Hawks (92).

Broadwing SEPT, Pipersville (Bucks) - This Broad-winged Hawk watchsite tallied 791 migrating raptors in two days and 11 hours of coverage in September (Table 1). The 753 Broadwings composed $95 \%$ of the migrants. Other birds included 14 Black Vultures, 4 Osprey, 2 Bald Eagles, one Northern Harrier, 13 Sharp-shinned Hawk, one Cooper's Hawk, 2 Red-tailed Hawk, and one American Kestrel.

Bucktoe Preserve (Chester) - Bucktoe observers tallied 755 raptors in five days of counts during September and October (Table 1). A flight of 481 hawks passed high overhead 23 September, including 468 Broad-winged Hawks, the site's highest one-day count (Table 2). Other highlights for the season included 11 Bald Eagles, 10 Osprey, and 3 Peregrine Falcons among 74 total migrants 6 October.

Council Cup (Luzerne) - This Susquehanna corridor site recorded 1166 raptors in 97 hours and 16 days. Broadwinged Hawk (435), Red-tailed Hawk (377), and Peregrine Falcon (3), were above average, whereas most other species posted below average counts. The peak one-day count of 170 occurred 19 September when northwest wind gusts hurried 147 Broadwings, 4 Bald Eagles, 4 Osprey, 12 Sharp-shinned Hawks, 2 American Kestrels, and a lone Peregrine Falcon close past the lookout.

## Hawk Mountain Sanctuary

 (Berks/Schuylkill) - Hawk Mountain counters recorded an above average total of 20,079 hawks during 1124 hours and 131 days and set a new season record for Golden Eagle at 173 (Table 1). Counts for Bald Eagle (365), Sharp-shinned Hawk (5222), Northern Goshawk (72), Broadwinged Hawk (8394), and American Kestrel (515) were above average, whereas below average counts were recorded for Turkey Vulture, Northern Harrier, and Cooper's Hawk (Table 1). A immature light-morph Swainson's Hawk flew past the lookout 4 November amid the post-Sandy torrent of migrants. The highest one-day count was recorded 14 September when 1597 Broad-winged Hawks were counted among a total of1653 raptors. Hawk Mountain enjoyed the second-highest one-day count of Bald Eagles (36) on 5 September, the secondhighest ever total recorded at Hawk Mountain and second-highest in the state for 2012. Counters also set a new one-day record for Golden Eagles with 48 on 3 November, also the second-highest oneday count for the state (Table 2). Both eagle flights followed storm events, the latter Hurricane Sandy. On 5 September, the first Bald Eagle glided by at 13:03 and the last at 17:15, and coincidently, 36 Osprey accompanied the 36 Bald Eagles in the parade. 3 November was a busier day with 580 Red-tailed Hawks, 31 Redshouldered Hawks, 23 Northern Goshawk, 12 Bald Eagles, and 46 Sharpshinned Hawks among the total of 762 raptors. The goshawk season totals were the highest in more than a decade. December watches added eagles nearly daily including a notable late pulse of 15 Bald Eagles 19 December (Table 1).

Jack's Mountain (Mifflin) - Jack's Mountain counters increased their coverage in 2012 to 358 hours in 70 days and were rewarded with above average raptor counts and a season total of 5884 raptors, compared with the average of 5162. Increased numbers of Black Vulture (38), Bald Eagle (73), Broadwinged Hawk (4236), and a new record of 69 Golden Eagles were highlights (Table 1). The Broad-winged Hawk count was the second highest on record, surpassed only by 2002's count of 6844 . The highest one-day count for the season occurred 13 September when 1116 Broadwings and 5 Bald Eagles sailed south among a total of 1148 hawks. Five September days exceeded 500 birds, providing a memorable early season at this mid-state watch.

Little Gap (Northampton) - Little Gap also increased coverage in 2012 to 714 hours over 111 days (Table 1). Total raptors were above average at 17,148 , compared with a 10-year average of 14,332. Largest increases were seen for Black Vulture and Turkey Vulture, with 129 and 577, respectively, Bald Eagle (316), Sharp-shinned Hawk (4049), Broad-winged Hawk (7851), Golden Eagle (106), and Merlin (144). Little Gap recorded its peak Broad-winged Hawk flight of 1985 on 17 September. A new one-day record of 47 Bald Eagles was tallied 5 September, the highest one-day count across the state. Sharp-shinned Hawks were steady through October with many days exceeding 200 birds. Little Gap recorded 21 Golden Eagles 3

November, and 20 the prior day, for its top Golden Eagle days.

Militia Hill (Montgomery) - Militia Hill had a red-letter season, and set a new record for total hawks at 24,085 , surpassing their prior high of 22,072 in 2010. Counters logged 61 days and 439 hours in September and October. New records were set for Broad-winged Hawk (20,550), Bald Eagle (175), Cooper's Hawk (200), and Peregrine Falcon (42). The all-time record for Golden Eagle was tied at 7 birds, and numbers of American Kestrel were above average at 306, compared with the average of 245 , as were Merlin with 36 compared to the average of 20 . For sites watching more than 400 hours, Militia Hill reported the highest rate of migration with 54 birds per hour. Counters recorded the highest one-day count for Broad-winged Hawks anywhere in the state with 6420 on 16 September. The same day brought the highest Bald Eagle count of 19 as well.

Rocky Ridge Park (York) - Rocky Ridge counters tallied 4200 hawks in 63 hours in September and October. The early-season focus for this site led to most their migrants coming in the form of Broad-winged Hawks, with 3945 representing $63 \%$ of their observations. Other raptors observed included 35 Osprey, 10 Bald Eagles, 8 Northern Harrier, 163 Sharp-shinned Hawks, and 26 American Kestrels. This southern Pennsylvania site benefits from easterly winds bring banner Broadwing flights some years, although in 2012 such winds appeared less frequent.

Rose Tree Park (Delaware) -Rose Tree watchers doubled their 10-year average of 7038 , with 14,111 in 2012 . Most of the increase can be attributed to a banner Broad-winged Hawk flight in the southeastern region. They recorded 10,536 Broadwings, including a new single-day record of 3642 on 16 September (Table 2). This one-day count was the second-highest for the state. Other species showing above average totals included Turkey Vulture (499), Bald Eagle (179), Osprey (266), Redshouldered Hawk (255), and Red-tailed Hawk (498). Counters enjoyed a phenomenal Red-shouldered Hawk flight 4 November, when 63 birds sailed overhead along with 152 Red-tailed Hawks and a Golden Eagle among a total of 290 migrants. Northwest winds 30 September ushered in a one-day peak count of 18 Bald Eagles, along with a push of early Sharp-shinned Hawks and late
moving Broad-winged Hawks, with 73 and 128 respectively. All three falcons and all three accipiters showed below average totals, perhaps suggesting these October migrants were ridge-faithful this season (Table 1).

Second Mountain (Lebanon) - Second Mountain counters recorded 15,407 total hawks in 2012, a new season record and $56 \%$ above the 10 -year average. Broadwinged Hawks were a key part of this total with a record-breaking 8493 passing over the site. Other species observed in above average numbers included Black Vulture (560), Turkey Vulture (997), Bald Eagle (215), Sharp-shinned Hawk (2827), Golden Eagle (106), and American Kestrel (154). The site enjoyed one of the best one-day counts for Broadwinged Hawks among the ridge sites, with 2621 on 14 September, including 1500 between 13:30 and 14:30 (Table 2). The post-Sandy flight brought 16 Golden Eagles past the lookout 3 November, accompanied by six Bald Eagles among 189 total raptors. 11 December brought the rarest raptor of the season barreling by the lookout, a white morph Gyrfalcon. At 14:30, the observer related that the bird flew fast out of the north toward the decoy owl then veered to the west, ten feet from the decoy before disappearing.

Stone Mountain (Huntingdon) - Stone Mountain counters tallied 4233 hawks in 64 days and 339 hours (Table 1). The 4648 total raptors were slightly below the 10 -year average. The most numerous migrant was Broad-winged Hawk at 1520 , with a peak count of 207 , on 17 September. The site enjoyed the highest one-day Bald Eagle count of the season 5 September with 17 birds (Table 2) After Sandy cleared 3 November, Stone watchers recorded 13 Golden Eagles, a respectable one-day count but which was quickly surpassed 9 November by a flight of 19 Goldens, predominantly adults. 2 and 7 December brought a push of late Golden Eagles, with 13 and 7 adult birds, respectively. Eagles ruled the skies in December with few other migrants joining their late season parade (Table 1).

## Tuscarora Summit (Fulton) -

 Tuscarora Summit observers counted 5027 raptors in 301 hours over 56 days of hawkwatching, a $20 \%$ increase above the 10 -year average of 4192 (Table 1). Similar to other sites, Broad-winged Hawks were a key contributor to the upswing, with observers recording 2746, compared to the average of 1801. A peak one-day count occurred 14 Septemberwith 1095 Broadwings tallied (Table 2). Above-average or average total counts were recorded for most species in 2012. Few species showed below average numbers, including Osprey (74), Northern Harrier (45), Red-shouldered Hawk (20), and Red-tailed Hawk (305). In contrast to many sites, the Golden Eagle totals were slightly below average with just 34, compared to the 10 -year average of 37 .

Tussey Mountain (Centre) - Tussey Mountain saw 98 hours of counts on 25 days, recording 1402 raptors. These totals represent an increase in autumn coverage and raptors, compared with the 10 -year averages of 26 hours and 433 hawks. This well-known spring Golden Eagle site contributed 19 if this species to the statewide total this autumn, including a peak one-day count of five eagles 3 November. The most numerous migrant was Red-tailed Hawk, with a one-day peak count of 181 also on 3 November. The 9.6 birds per hour suggested that greater coverage could yield interesting results for this northcentral site.

Waggoner's Gap (Cumberland) Waggoner's Gap led the sixteen reporting sites with a season total of 28,251 raptors in 140 days and 1116 hours (Table 1). The count total was the third highest in Waggoner's history. The counters also set a new season record for Bald Eagle at 534. A one-day record of 50 Golden Eagles was set 3 November, which also represented the highest one-day count in the state (Table 2). Broad-winged Hawks led species totals at the site with 11,708 , including a peak day of 3377 , the highest one-day count for a ridge site. Of note, the count of 438 American Kestrels was $28 \%$ above the 10 -year average of 341 , Perhaps an encouraging sign for this species. Most raptors showed above average counts, except for Osprey (457), Northern Harrier (205), Cooper's Hawk (690), Red-tailed Hawk (3158), and Merlin (95), which were all below average.

## Acknowledgements

I thank Pennsylvania's hawk counters for their many hours of counting, as well as the site compilers for organizing and entering the data and sharing their results. With permission from compilers, data were collected from >www.hawkcount.org>, a website maintained by the Hawk Migration Association of North America and
Table 2．Autumn 2012 count results for Pennsylvania watchsites．

| Month | Days | Hours | BLVU | TUVU | OSPR | BAEA | NOHA | SSHA | COHA | NOGO | RSHA | BWHA | RTHA | RLHA | GOEA | AMKE | MERL | PEFA | SWHA | Unid | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| August | 16 | 121 | 6 | 26 | 14 | 19 | 7 | 37 | 15 | 0 | 0 | 295 | 62 | 0 | 0 | 5 | 2 | 0 | 0 | 23 | 511 |
| September | 28 | 207 | 8 | 21 | 48 | 42 | 20 | 147 | 40 | 3 | 2 | 3323 | 128 | 0 | 0 | 18 | 2 | 8 | 0 | 47 | 3857 |
| October | 26 | 201 | 2 | 165 | 13 | 15 | 15 | 977 | 98 | 5 | 24 | 2 | 871 | 0 | 15 | 16 | 24 | 25 | 0 | 30 | 2297 |
| November | 28 | 210 | 0 | 30 | 0 | 8 | 6 | 14 | 13 | 4 | 13 | 0 | 287 | 3 | 188 | 0 | 4 | 1 | 0 | 12 | 583 |
| December | 16 | 94 | 0 | 1 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 22 | 0 | 30 | 0 | 0 | 1 | 0 | 0 | 57 |
| Total | 114 | 832 | 16 | 243 | 75 | 86 | 48 | 1176 | 166 | 12 | 39 | 3620 | 1370 | 3 | 233 | 39 | 32 | 35 | 0 | 112 | 7305 |
| Total per hr |  |  | 0.02 | 0.29 | 0.09 | 0.10 | 0.06 | 1.41 | 0.20 | 0.01 | 0.05 | 4.35 | 1.65 | 0.00 | 0.28 | 0.05 | 0.04 | 0.04 | 0.00 | 0.13 | 8.78 |
| \％of flight |  |  | 0.2 | 3.3 | 1.0 | 1.2 | 0.7 | 16.1 | 2.3 | 0.2 | 0.5 | 49.6 | 18.8 | 0.0 | 3.2 | 0.5 | 0.4 | 0.5 | 0.0 | 1.5 | 100.0 |
| Average last 10 yrs | 111.4 | 804.8 | 24.4 | 494.0 | 110.6 | 77.0 | 66.0 | 1170.0 | 241.7 | 10.0 | 87.0 | 4702.0 | 1896.0 | 4.0 | 178.0 | 71.6 | 32.0 | 33.4 | 0.1 | 221.0 | 9419.0 |

BAKE OVEN KNOB（Lehigh）－Dan Kunkle，compiler





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BLUE MOUNTAIN Rt． 183 （Schuylkill and Berks）－Scott Fisher，compiler

| Month | Days | Hours | BLVU | TUVU | OSPR | BAEA | NOHA | SSHA | COHA | NOGO | RSHA | BWHA | RTHA | RLHA | GOEA | AMKE | MERL | PEFA | SWHA | Unid | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| August | 2 | 9 | 8 | 7 | 2 | 3 | 0 | 2 | 2 | 0 | 0 | 14 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 2 | 45 |
| September | 11 | 59 | 37 | 48 | 41 | 56 | 6 | 344 | 47 | 0 | 1 | 1296 | 40 | 0 | 0 | 68 | 2 | 2 | 0 | 9 | 1997 |
| October | 6 | 38 | 23 | 35 | 14 | 4 | 6 | 1139 | 83 | 4 | 13 | 1 | 263 | 0 | 9 | 27 | 5 | 5 | 0 | 10 | 1641 |
| November | 5 | 27 | 3 | 8 | 0 | 18 | 4 | 44 | 16 | 5 | 29 | 0 | 528 | 1 | 46 | 0 | 1 | 0 | 0 | 2 | 705 |
| Total | 24 | 133 | 71 | 98 | 57 | 81 | 16 | 1529 | 148 | 9 | 43 | 1311 | 833 | 1 | 55 | 98 | 8 | 7 | 0 | 23 | 4388 |
| Total per hr |  |  | 0.53 | 0.74 | 0.43 | 0.61 | 0.12 | 11.47 | 1.11 | 0.07 | 0.32 | 9.84 | 6.25 | 0.01 | 0.41 | 0.74 | 0.06 | 0.05 | 0.00 | 0.17 | 32.93 |
| \％of flight |  |  | 1.6 | 2.2 | 1.3 | 1.8 | 0.4 | 34.8 | 3.4 | 0.2 | 1.0 | 29.9 | 19.0 | 0.0 | 1.3 | 2.2 | 0.2 | 0.2 | 0.0 | 0.5 | 100.0 |
| Average last 5 yrs | 35.0 | 189.4 | 83.0 | 137.3 | 75.0 | 57.5 | 22.5 | 1679.0 | 145.0 | 8.3 | 32.5 | 1237.5 | 636.5 | 0.5 | 34.8 | 84.8 | 16.0 | 8.5 | 0.0 | 31.5 | 4269.5 |

BUCKTOE PRESERVE（Chester）－Larry Lewis，compiler

BW SEPT－Pipersville（Bucks）－Kirk Moulton，compiler
 Days Hours BLVU TUVU OSPR

| 0．001 | $0 \cdot 0$ | $0 \cdot 0$ | $0 \cdot 0$ | $0 \cdot 0$ |
| :---: | :---: | :---: | :---: | :---: |
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| 162 | 0 | 0 | 0 | 0 |
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piler
MILITIA HILL (Montgomery) - Andy Fayer, Jamie Stewart, 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 | 30 | 229 | 0 | 0 | 208 | 112 | 47 | 421 | 37 | 0 | 12 | 20399 | 6 | 0 | 1 | 200 | 11 | 10 |  | 16 | 21481 |
| October | 31 | 210 | 15 | 832 | 83 | 63 | 57 | 809 | 163 | 3 | 67 | 151 | 140 | 0 | 6 | 106 | 24 | 32 | 0 | 53 | 2604 |
| Total | 61 | 439 | 15 | 832 | 291 | 175 | 104 | 1230 | 200 | 3 | 79 | 20550 | 146 | 0 | 7 | 306 | 35 | 42 | 1 | 71 | 24085 |
| Total per hr |  |  | 0.03 | 1.90 | 0.66 | 0.40 | 0.24 | 2.80 | 0.46 | 0.01 | 0.18 | 46.81 | 0.33 | 0.00 | 0.02 | 0.70 | 0.08 | 0.10 | 0.00 | 0.16 | 54.86 |
| \% of flight |  |  | 0.1 | 3.5 | 1.2 | 0.7 | 0.4 | 5.1 | 0.8 | 0.0 | 0.3 | 85.3 | 0.6 | 0.0 | 0.0 | 1.3 | 0.1 | 0.2 | 0.0 | 0.3 | 100.0 |
| Average last 10 yrs | 59.8 | 450.3 | 37.5 | 380.7 | 265.1 | 64.7 | 69.9 | 1010.9 | 143.9 | 1.7 | 45.6 | 7841.4 | 189.3 | 0.1 | 2.4 | 244.6 | 20.4 | 18.7 | 0.1 | 71.3 | 10408.5 |

ROCKY RIDGE (York) - Randy Phillips, compiler

ROSE TREE PARK (Delaware) - Holly Merker compiler


SECOND MOUNTAIN (Lebanon ) - David Schwenk, compile Month \begin{tabular}{|l|r|r|r|r|r|r|r|}
\hline Month \& Days \& Hours \& BLVU \& TUVU \& OSPR \& BAEA \& NOHA <br>
\hline August \& 17 \& 96 \& 2 \& 25 \& 8 \& 13 \& 1 <br>
\hline

 

\hline August \& 17 <br>
\hline September \& 29 <br>
\hline
\end{tabular} September November December Total per hr Total per hr \% of flight ${ }^{1}$ Includes one white morph gyrfalcon in December.



TUSCARORA SUMMIT (Fulton) - Dale Gearhart, compiler

| Month | Days | Hours | BLVU | TUVU | OSPR | BAEA | NOHA | SSHA | COHA | NOGO | RSHA | BWHA | RTHA | RLHA | GOEA | AMKE | MERL | PEFA | SWHA | Unid | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| September | 25 | 147 | 11 | 0 | 62 | 41 | 16 | 374 | 36 | 0 | 0 | 2743 | 35 | 0 | 8 | 30 | 11 | 6 | 0 | 25 | 3398 |
| October | 25 | 133 | 10 | 428 | 12 | 22 | 26 | 652 | 66 | 0 | 15 | 3 | 248 | 0 | 21 | 15 | 10 | 13 | 0 | 28 | 1569 |
| November | 6 | 21 | 8 | 13 | 0 | 1 | 3 | 2 | 0 | 0 | 5 | 0 | 22 | 0 | 5 | 0 | 0 | 0 | 0 | 1 | 60 |
| Total | 56 | 301 | 29 | 441 | 74 | 64 | 45 | 1028 | 102 | 0 | 20 | 2746 | 305 | 0 | 34 | 45 | 21 | 19 | 0 | 54 | 5027 |
| Total per hr. |  |  | 0.10 | 1.47 | 0.25 | 0.21 | 0.15 | 3.42 | 0.34 | 0.00 | 0.07 | 9.12 | 1.01 | 0.00 | 0.11 | 0.15 | 0.07 | 0.06 | 0.00 | 0.18 | 16.70 |
| \% of flight |  |  | 0.6 | 8.8 | 1.5 | 1.3 | 0.9 | 20.4 | 2.0 | 0.0 | 0.4 | 54.6 | 6.1 | 0.0 | 0.7 | 0.9 | 0.4 | 0.4 | 0.0 | 1.1 | 100.0 |
| Average last 10 yrs | 66.5 | 368.4 | 30.1 | 352.1 | 99.9 | 39.3 | 70.3 | 890.4 | 88.7 | 3.3 | 28.6 | 1800.9 | 615.6 | 0.6 | 36.5 | 37.7 | 8.9 | 19.4 | 0 | 73.9 | 4192.3 |

TUSSEY MOUNTAIN (Centre ) - Dan Ombalski, 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 | 19 | 2 | 0 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 42 | 7 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 60 |
| September | 8 | 32 | 1 | 0 | 6 | 34 | 6 | 37 | 9 | 0 | 0 | 283 | 38 | 0 | 0 | 27 | 3 | 1 | 0 | 4 | 449 |
| October | 5 | 25 | 3 | 4 | 4 | 9 | 3 | 105 | 11 | 0 | 3 | 5 | 200 | 0 | 2 | 21 | 4 | 3 | 0 | 3 | 380 |
| November | 4 | 15 | 5 | 23 | 0 | 8 | 5 | 21 | 5 | 0 | 2 | 0 | 403 | 0 | 12 | 0 | 0 | 1 | 0 | 1 | 486 |
| December | 2 | 7 | 14 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 27 |
| Total | 25 | 98 | 25 | 27 | 13 | 61 | 15 | 163 | 25 | 0 | 5 | 330 | 648 | 0 | 19 | 50 | 8 | 5 | 0 | 8 | 1402 |
| Total per hr. |  |  | 0.26 | 0.28 | 0.13 | 0.62 | 0.15 | 1.66 | 0.26 | 0.00 | 0.05 | 3.37 | 6.61 | 0.00 | 0.19 | 0.51 | 0.08 | 0.05 | 0.00 | 0.08 | 14.31 |
| \% of flight |  |  | 1.8 | 1.9 | 0.9 | 4.4 | 1.1 | 11.6 | 1.8 | 0.0 | 0.4 | 23.5 | 46.2 | 0.0 | 1.4 | 3.6 | 0.6 | 0.4 | 0.0 | 0.6 | 100.0 |
| Average last 10 yrs |  | 26.6 | 2.9 | 24.2 | 3.4 | 8.7 | 2.5 | 47.1 | 7.4 | 0.3 | 1.7 | 73.0 | 229.8 | 0.1 | 9.9 | 10.4 | 0.4 | 6.4 | 0.0 | 9.5 | 432.6 |

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

| Month | Days | Hours | BLVU | TUVU | OSPR | BAEA | NOHA |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| August | 31 | 204 | 0 | 0 | 37 | 76 | 9 |
| September | 28 | 262 | 0 | 0 | 283 | 274 | 65 |
| October | 28 | 236 | 48 | 1548 | 134 | 86 | 84 |
| November | 30 | 258 | 31 | 301 | 3 | 63 | 37 |
| December | 23 | 157 | 19 | 25 | 0 | 35 | 10 |
| Total | $\mathbf{1 4 0}$ | $\mathbf{1 1 1 6}$ | $\mathbf{9 8}$ | $\mathbf{1 8 7 4}$ | 457 | $\mathbf{5 3 4}$ | $\mathbf{2 0 5}$ |
| Total per hr. |  | 0.09 | 1.68 | 0.41 | 0.48 | 0.18 |  |
| \% of flight |  | 0.3 | 6.6 | 1.6 | 1.9 | 0.7 |  |
| Average last 10 yrs | 142 | 1134 | 105 | 1366 | 500 | 287 | 302 |

2012 TOTALS FOR ALL WATCHSITES

| Month | Days | Hours | BLVU | TUVU | OSPR | BAEA | NOHA | SSHA | COHA | NOGO | RSHA | BWHA | RTHA | RLHA | GOEA | AMKE | MERL | PEFA | SWHA | Unid | Total ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| August | 156 | 1,024 | 72 | 208 | 241 | 227 | 60 | 215 | 106 | 0 | 20 | 1,678 | 275 | 0 | 0 | 222 | 49 | 9 | 0 | 98 | 3,480 |
| September | 347 | 2,581 | 314 | 385 | 1,988 | 1,378 | 387 | 10,178 | 1,031 | 14 | 68 | 92,205 | 943 | 0 | 26 | 1,612 | 309 | 89 | 1 | 463 | 111,391 |
| October | 326 | 2,165 | 580 | 5,279 | 965 | 572 | 481 | 20,915 | 2,024 | 64 | 625 | 480 | 7,178 | 0 | 157 | 712 | 353 | 296 | 0 | 491 | 41,172 |
| November | 245 | 1,705 | 326 | 1,246 | 14 | 338 | 148 | 1,254 | 208 | 242 | 750 | 0 | 9,511 | 6 | 1,040 | 10 | 37 | 14 | 2 | 149 | 15,295 |
| December | 90 | 532 | 97 | 54 | 0 | 134 | 13 | 6 | 8 | 7 | 6 | 0 | 190 | 2 | 116 | 1 | 1 | 1 | 0 | 1 | 638 |
| Total | 1164 | 8006 | 1389 | 7172 | 3208 | 2649 | 1089 | 32568 | 3377 | 327 | 1469 | 94363 | 18097 |  | 1339 | 2557 | 749 | 409 |  | 1202 | 171976 |
| Total per hr. |  |  | 0.17 | 0.90 | 0.40 | 0.33 | 0.14 | 4.07 | 0.42 | 0.04 | 0.18 | 11.79 | 2.26 | 0.00 | 0.17 | 0.32 | 0.09 | 0.05 | 0.00 | 0.15 | 21.48 |
| \% of flight |  |  | 0.8 | 4.2 | 1.9 | 1.5 | 0.6 | 18.9 | 2.0 | 0.2 | 0.9 | 54.9 | 10.5 | 0.0 | 0.8 | 1.5 | 0.4 | 0.2 | 0.0 | 0.7 | 100.0 |
| 2011 totals | 1198 | 7562 | 1258 | 9830 | 3120 | 2263 | 1006 | 34241 | 3302 | 127 | 897 | 89774 | 12790 | 12 | 1170 | 2056 | 688 | 406 | 3 | 1018 | 163984 |
| \% change from 2011 | -2.8\% | 5.9\% | 10.4\% | -27.0\% | 2.8\% | 17.1\% | 8.3\% | -4.9\% | 2.3\% | 157.5\% | 63.8\% | 5.1\% | 41.5\% | -33.3\% | 14.4\% | 24.4\% | 8.9\% | 0.7\% | 0.0\% | 18.1\% | 4.9\% |

York

