NorthEast Hawk Watch 2017 Hawk Migration Report





NorthEast Hawk Watch

The *NorthEast Hawk Watch* promotes the systematic study of migrating hawks in New England, southeastern New York and northeast New Jersey. Membership is open to anyone. Annual dues are \$10 payable to "NEHW" c/o treasurer: Joe Wojtanowski, PO Box 142, Poquonock, CT 06064.

Visit the website of *NorthEast Hawk Watch* at www.battaly.com/nehw/ to download a membership application, view seasonal site totals at all sites and daily counts at selected sites, download PDFs of previous reports, and find directions to hawkwatch sites in the northeast.

All counts can be easily reported online through a free service offered by the Hawk Migration Association of North America (HMANA). To sign up, visit www. hawkcount.org and click on "Account Request" link. To receive daily reports from all sites using the hawkcount program, subscribe to BIRDHAWK, which is also free and can be done by visiting the HMANA homepage at www.hmana.org and following the simple instructions there.

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From the Editor:

You did it again! You went to your favorite hawk watch, scanned the skies for migrating hawks, kept the count for each species, and then submitted your data to hawkcount! You can find your data in this Report, in the summary tables, the history tables, the site tables, and the Peak Days table. You can also find your data in the charts and maps, and in the record highs, record lows, and trends. It's all from you.

Your Spring data presented a big mystery: How did the Broad-winged Hawks leapfrog to the northern sections of the NorthEast with only a few seen in the southern sections? (page 4). Your Fall data presented us with continuing record low counts (page 26). These are now organized in a new Watch List composed of all the species with record lows in the last three years (page 27). This is intended to draw attention to those species that might be most at risk, and to promote a better understanding of how migration counts contribute to raptor conservation.

In addition to the Fall Broadwing Table, your data is also presented in a series of distribution maps of peak Broadwing days (page 30). These are google maps superimposed with bubbles that represent Broadwing densities. They show the sites with peak counts, but also the widespread distribution of the Broadwings across the NorthEast. These maps are a crowning jewel, so-to-speak, as they clearly show the importance of all your data, at all sites!

Drew's column (page 41) uses hawk count data to interpret the history and trends of Peregrine Falcons in the NorthEast. He uses data from six different sites to investigate the source regions for our Peregrines. This is neat stuff—a must read for all Peregrine lovers!

The centerfold has been updated and provides trends at a glance for 16 species from 1980 to 2017. That's 38 years of hawk watching by you. Thank you!

May you see lots more hawks, and enjoy the magic of their flight.

Trudy Battaly, Hawk Migration Report Editor merlin@pipeline.com

From the President:

Thank you to everyone who contributed to the counts for the Spring and Fall 2017 hawk migration seasons. This year's report reminds us again of the value of long-term hawk migration counts; of what you do.... of what NorthEast Hawk Watch does. This report by Trudy Battaly and lain Macleod reveals both short-term and long-term trends of concern, especially for four of our five most abundant raptors, including Broadwinged Hawk, Sharp-shinned Hawk, American Kestrel and Osprey. Many are aware of declines of sharpshins and kestrels, long-documented by migration counts, but many might be surprised by long-term declines in broadwings and Ospreys. I found the counts for Broad-winged Hawk this past year particularly alarming. We all owe a debt of gratitude to Trudy and Iain for putting together such a thorough, informative report.

After you complete the report, go to rpi-project.org (Raptor Population Index) to read the latest RPI data on raptor population trends on a continental basis. The prose analyses are not yet available as of this

continued on page 47 & 48 . . .



2017 Northeast Spring Season

Sites

During the 2017 Spring Season, hawk watchers counted 19 raptor species at nine sites. The sites are spread across the Northeast for approximately 500 miles from Montclair, New Jersey to Kerrs Ridge, New Brunswick. Our two most northerly sites are Kerrs Ridge which overlooks the Passamaguoddy Bay, an inlet of the Bay of Fundy, and Cooper which is 2 miles from Big Inlet and 12 miles from Dennys Bay in Maine, another Fundy arm. They are about 25 miles apart but 157 miles northeast of the nearest site to the south, Bradbury Mountain, also in Maine. Bradbury is eight miles from the mouth of the Harraseeket River on Casco Bay, close enough to the coast to get substantial numbers of coastal species. Our two coastal sites are Plum Island, located on the North Atlantic near Newburyport MA, 83 miles south-southwest of Bradbury, and Pilgrim Heights, located along the Cape Cod National Seashore on Cape Cod Bay, 60 miles south-southeast of Plum Island. In 2017 we had only one inland site, Barre Falls, situated at the Barre Falls Dam along the Ware River, 67 miles west-southwest of Plum Island. From Barre Falls, it is 135 miles southwest to our three sites in the New York metropolitan area. Hook Mountain rests atop the Palisades on the west bank of the Hudson River, 20 miles north of Manhattan; Wildcat Ridge overlooks a Wildlife Management Area, 29 miles west of Manhattan; and Montclair is situated on the First Watchung Mountain, 13 miles west of Manhattan.

We thank the hawk watchers who have provided data for the Spring Season. Their efforts provide us with the ability to assess trends in spring migration, which is our best measure of the health of the breeding populations in the Northeast. There were large areas which were not sampled in 2017, including all of Vermont, New Hampshire, Connecticut, and Rhode Island. Having data from any of those areas would provide us with a better understanding of spring raptor migration. If you or someone you know can count hawks for us in the spring, please be sure your data gets submitted to hawkcount.org, so that we can include it here. (Alternatively, send the data to me at merlin@pipeline.com.)

Coverage

Coverage in 2017 varied substantially by watch site, from 4 to 56 days and 13 to 417 hours. The collective total for all sites was 224 days and 1272 hours. In comparison to other years, this represents 11% fewer hours of coverage than in 2016, and 25% fewer than our average since 1989. Considering the volunteer nature of our coverage, we expect variation from year to year.

Our two full-season sites with more than 300 hours were Bradbury Mountain in the north and Montclair in the south. Together, these two sites accounted for 59% of the total hours, 58% of the total hawks, and an average of 49 hawks/day. The two other sites with more than 100 hours of coverage were Plum Island and Pilgrim Heights. Together, they represent 27% of the hours, 27% of the hawks, and an average of 32 hawks/day. The remaining five sites-Cooper, Barre Falls, Hook Mountain, and Wildcat Ridge-accounted for 14% of the hours, 16% of the hawks, and an average of 27 hawks/day. As expected intuitively, greater effort resulted in more hawks counted, for both the number of days and the number of hours of counting. The number of hours is a slightly better predictor of the number of hawks counted. (With a small sample size of 9 sites, non-normal data was transformed using the natural logarithm, resulting in strong correlations: r=0.911, p=0.0006 for hours; r=0.870, p=0.002 for days.)



The Count—How do the Species Rank? Nature spins the wheel!

During the 2017 Spring Season, hawk watchers at nine sites counted 19 raptor species—8650 hawks of 18 species, plus one Short-eared Owl. There were three species with counts over 1000, up from two species in 2016. These species were Broad-winged Hawk (2228), Turkey Vulture (1957), and American Kestrel (1214). All three of these counts are notable. The Broadwing count is low, less than half of the 2016 count of 4849, and easily accounts for the reduced total hawk count for this year—8,650 compared to 11,322 in 2016. The Turkey Vulture count is double last year's count of 942

and at least 600 more than average. The Kestrel count, while still below average, is above the last couple of years, even with the reduced coverage. So, our top ranked species were Broadwing in 1st place for all but 1 year since 1989, Turkey Vulture moving to 2nd place from 5th place last year, and Kestrel in 3rd place moving from 5th place two years ago. But, where are the Sharpies? With an average of 2480 since 1989, did we really not count 1000 Sharpies? Not only did we not count 1000, we actually counted less than 900! It's almost as if, once Broadwings get #1, the ranking of our other top

species is a random game of roulette! Nature spins the wheel on us, and where it stops, nobody knows! In 2017 the ball didn't land on Sharpshinned Hawks until the 4th spin, and our Sharpies dropped from their alternating 2nd and 3rd place ranks to 4th place!



So, our mid-range species, with counts above 500, begins with Sharpies at 893, and includes Osprey (592) and Redtailed Hawk (504). Other species with counts over 100 include Northern Harrier (359), Red-shouldered Hawk (235), Merlin (177), Cooper's Hawk (158), and Bald Eagle (147). Our least prevalent species, with counts under 100, include Peregrine Falcon (40), Black Vulture (35), Northern Goshawk (11), Rough-legged Hawk (9), Golden Eagle (2), Mississippi Kite (2) and Swallow-tailed Kite (1).

The 2017 Spring Migration Table shows the counts for each watch site, the totals, and the 28 year average for each species. The sites are listed by geographic location, from north to south. The Northern Region contains Kerrs Ridge and Cooper. Kerrs Ridge had two Goshawks, a Golden Eagle on April 9, and the highest Hawks/Day of 76. At Cooper, there were no Cooper's Hawks, but one of every four hawks was a Bald Eagle!

The Coastal Region includes Bradbury Mountain, Plum Island, and Pilgrim Heights. This region counted 73% of all the hawks, and most of the falcons, including 92% of the Kestrels, 85% of the Merlins, and 83% of the Peregrines. Bradbury Mountain had a Roughleg and the highest counts for eight species, including 7 Goshawks, the highest Total Hawks, and the 2nd highest Hawks/Day. Plum Island had 3 Roughlegs, the high counts for all three falcons, including a remarkable Kestrel count of 554, and on April 23, the Shorteared Owl. Pilgrim Heights had the high count for Turkey Vultures, a Mississippi Kite on May 19, and a Swallow-tailed Kite on May 3. The Swallow-tail was the 1st in two years and only the 6th since 1989.

Barre Falls, the sole interior site at the middle latitudes, had the third highest Broadwing count, a Goshawk, and a Golden Eagle, on April 9, the same day as Kerrs Ridge. The New York Metropolitan region includes Hook Mountain, Wildcat Ridge, and Montclair. Hook Mountain had the second highest Red-shoulder count, the third highest Hawks/Day, and regional highs for 8 species. Unfortunately, Wildcat Ridge had very much reduced coverage this year, resulting in few hawks. Montclair had a Goshawk, the high counts for Black Vulture and Red-tail, an amazing 5 Roughlegs, and the other Mississippi Kite on March 25.

Species with Above Average Counts

The Spring Migration Table shows higher than average counts for 5 species—Turkey Vulture, Bald Eagle, Northern Harrier, Roughleg, and Peregrine—even though the number of hours were significantly less than average. That is remarkable, especially since the grand total is 5630 fewer hawks than average! When we standardized the data to counts per 100 hours, the number of species that are more than 30% above the 28 year average increases to six, including Turkey Vulture (+114%), Northern Harrier (+66%), Red-shouldered Hawk (+39%), Bald Eagle (+97%), Peregrine Falcon (+58%), and Rough-legged Hawk (+173%). This is the second year in a row for above average numbers for Harriers and Peregrines, and the third year in a row for Bald Eagle.

Northeast Spring	g 201	7 Seas	onal	Total	s																		
SITE	Days	HRS	ΒV	τv	OS	BE	NH	SS	СН	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	мк	SK	TOTAL	Hk/Dy
Kerrs Ridge	6	15	0	19	39	3	20	36	0	2	1	293	12	0	1	24	3	0	5	0	0	458	76
Cooper	14	57	0	17	3	10	1	3	0	0	0	4	0	0	0	1	0	0	1	0	0	40	3
Bradbury Mountain	56	417	2	511	341	75	180	596	66	7	127	1363	171	1	0	433	60	7	48	0	0	3988	71
Plum Island	30	182	0	139	45	8	131	118	15	0	0	2	18	3	0	554	67	15	13	SE	0	1129	38
Pilgrim Heights	41	164	1	610	90	8	7	80	13	0	4	128	58	0	0	130	24	11	5	1	1	1171	29
Barre Falls	18	67	0	10	21	10	0	17	7	1	2	263	37	0	1	4	0	0	5	0	0	378	21
Hook Mountain	9	30	12	97	35	21	11	23	33	0	60	93	29	0	0	52	6	0	2	0	0	474	53
Wildcat Ridge	4	13	2	0	0	0	0	4	0	0	0	0	6	0	0	0	0	1	1	0	0	14	4
Montclair	46	327	18	554	18	12	9	16	24	1	41	82	173	5	0	16	17	6	5	1	0	998	22
TOTALS	224	1272	35	1957	592	147	359	893	158	11	235	2228	504	9	2	1214	177	40	85	2.0	1.0	8650	39
Average,1989-2016		1696.8	45	1221	837	100	289	2480	331	13	226	5729	728	4	3	1749	274	34	198	3.0	0.2	14280	

BV: Black Vulture, TV: Turkey Vulture, OS: Osprey, BE: Bald Eagle, NH: Northern Harrier, SS: Sharp-shinned Hawk, CH: Cooper's Hawk, NG: Northern Goshawk, RS: Red-shouldered Hawk, BW: Broad-winged Hawk, RT: Red-tailed Hawk, RL: Rough-legged Hawk, GE: Golden Eagle, AK: American Kestrel, ML: Merlin, PG: Peregrine Falcon, UR: Unidentified Raptor, MK: Mississippi Kite

2017 Hawk Migration Report

More than anything else, this is a testimony to our spring hawk watchers! Their efforts are helping us record the good things happening for these species.

Species with Below Average Counts

The counterpart to above average counts are the below average counts. The counts per 100 hours reveals 30% below average counts for three species: Broad-winged Hawk (-48%), Sharp-shinned Hawk (-52%), and Cooper's Hawk (-36%). Both Sharpies and Coops have been below average for the last 3 years, but the extent below average is greater this year.







The Species

Broad-winged Hawks—Now You See Them, Now You Don't

At 48% below the 28 year average, Broad-winged Hawks were at their second lowest count since 1989. Experience has shown that Broadwings are highly variable, so we accept that after two years of average to above average counts we would get a below average count. Further examination of the Spring Migration Table shows that the Broadwing count in the Northern Region was near normal. So, if you were looking for Broadwings in the Northern Region, you were in the "Now You See Them" group. However, the absence of Broadwings in the Metro Region is striking—only 175 for the whole region! If you were in the Metro Region, you were definitely in the "Now You Don't See Them" group.



How normal is it to see such a big difference in distribution across the Northeast? A comparison to the previous two years shows a steady shift from the Middle and Metro Regions to the Northern and Coastal Regions. From 2015 to 2017 the percentage of total Broadwings counted in each year by the North & Coastal regions grew from 40% to 56% to 80%, while the percentage counted by the Middle & Metro regions fell from 60% to 44% to 20%.



Why? How did the Broadwings get up north without being seen in the Metro Region? There are two possibilities: 1) they changed their flight path, either flying west or east of the Metro region, or 2) they flew overhead but were undetected against cloudless skies or at elevations too high to be seen. While it would be very difficult to prove either, it seems possible that weather data might offer an explanation.

Hourly wind and sky condition data from 8 am to 6 pm daily for the month of April for the years 2011 to 2017 was obtained from wunderground.com history for Hartford CT. Hartford was selected because it is located in the middle of the Northeast region. Wind direction was grouped into the four cardinal directions—north, east, south, and west. The middle directions were counted as half for each cardinal direction. Thus, north includes NNW, N, NNE, and half of both NW and NE. The number of hours of each direction was tallied, and the wind speeds were summed.





Generally, results show an alternating pattern for North and South winds, low numbers for East winds, and moderate numbers for West winds.

Comparing these results to the Broadwing counts in those years shows two significant relationships: a positive correlation with the hours of South winds (r=0.756, p=0.025) and a negative correlation with the speed of North winds (r=-0.737,

p=0.029). Neither of these is surprising, especially to those hawk watchers who look for South winds in the spring. The strength of North winds was greater in 2017 than in any of the years from 2011 to 2016, so its negative effect could account for reduced numbers of Broadwings in 2017 in the Northeast. However, this does not explain the disparity between the northern and southern regions of the NorthEast.





Even sky conditions did not help to explain the difference. Sky conditions were grouped into four categories indicating the proportion of sky covered by clouds: clear (0-25%), partly cloudy (25-50%), mostly cloudy (50-75%), and overcast (75-100%). The number of hours of each condition was tallied and compared to the Broadwing count. Results show more hours of clear sky than any other category, but no significant associations with Broadwing counts.



Finally, knowing that Broadwings are dependent on thermals during migration, and that thermals are formed as a consequence of temperature differences in an air column, the next step was to compare the Broadwing counts to temperatures. Using the same daytime hourly data for April from 2011 to 2017, a comparison of Broadwing counts to average temperatures are highly significant, showing an inverse correlation (r = -0.921, p=0.003). Eureka! We may be on to something! Comparing the Broadwing counts to 24 hour temperatures has even better results, with significance for all three daily temperature variables: average low (r=-0.865, p=0.012), average high (r=-0.921, p=0.003), and average (r=-0.939, p=0.002). The average count of Broadwings during 2011 to 2017 was 292 per 100 hours. Using the regression equation generated for average daily temperature and Broadwings, an average temperature of 50.4°F would result in the average Broadwing count of 292 per 100 hours. Thus, average temperatures below 50.4° are associated with above average counts and temperatures above 50.4° are associated with below average counts. To explain the disparity between the northern and southern regions, average temperatures at Hartford were compared to those at Portland ME and Caldwell NJ. The Hartford temperatures are closer to those in Caldwell than to those in Portland, and none of the Portland temperatures overlap either of the others. The average April temperature in Caldwell is 7.2° higher than Portland, and in 2017 it was 8.9° higher. Notably, the average temperature in Caldwell in 2017 was above 55°F.



So, it appears that average temperatures may explain the difference between the northern and southern Broadwing counts. But, it does not explain the mechanism. We are left with the same two options: the Broadwings diverted around the Metro area, or they were simply undetected as they flew past. More needs to be learned about thermals when ambient temperatures are higher. Are the thermals actually higher in elevation where the hawks are not readily detected? Or, are the thermals weaker, with possible low level inversions? That might cause Broadwings to follow the ridges west of the Metro region, seeking uplifts.

So, what does this mean for future Broadwing counts? As global warming continues and our temperatures increase, will

we be counting fewer Broadwings? It certainly makes me want to see the 2018 results! Hopefully, 2018 will bring the "Now You See Them" status back to the Metro sites once again.



Sharp-shinned Hawk—A Record Low

While our Sharpie count of 893 was the second lowest for actual numbers, when standardized to Sharpies per 100 hours, it is revealed as a record low. In 2015, when Turkey Vultures surpassed the Sharpies, we looked at their graphs and projected that Turkey Vultures would catch up to the Sharpies by 2019. Well, it appears that may very well have happened in 2017. The low Sharpie count, together with the high TV count, combined to shift the graphs, converging to 100 hawks per 100 hours, just as predicted, but 2 years earlier. Unfortunately, we can expect these two significant trends to continue, with Sharp-shinned Hawks declining (r = -0.508, p =0.005) and Turkey Vultures increasing (r = 0.610, p = 0.0004). However, acknowledging the larger variability in the Sharpie counts (points are further from the regression line), we can also expect some years ahead with more Sharpies, certainly more than in 2017!



Cooper's Hawk—Nascent Decline

In the early 2000's, when we were just beginning to notice that there were fewer Sharpies, we also noticed there were increased numbers of Cooper's Hawks flying overhead. Some of us thought it might be a trade-off in niches. But, counts of the two species are not negatively associated (r=0.427, p=0.051).

Instead, at least in the last 10 years, they are both declining. The distribution of Coops over the last 29 years has been more or less random, showing no significant trend either for the full 29 years, or for the last 20 years. But, a closer look reveals above average counts for almost all of the middle years, from 1999 to 2012, followed by a decline. The extent of scatter prior to the last 10 years suggests that this is likely to just be a random occurrence. But, the strong negative correlation of these last 10 years (r=-0.629, p=0.005) suggests otherwise. So, we may need to start worrying about Cooper's Hawks. Will they continue to decline, or will they recover like they did in the late 1990s? So, keep counting—your spring counts in the next few years will provide the answer!

Data for these analyses are noted on the Spring Historical Summary, which follows. Also included are the daily counts at the nine spring watch sites for 2017.



					SP	RING	HIST	ORICAL	SUM	MA	RY PE	R 100	HOUR	S: 1	989	- 2017						
YEAR	SITES	HRS	BV	ΤV	OS	BE	NH	SS	СН	NG	RS	BW	RT	RL	GE	AK	ML	PF	UR	мк	SK	TOT
1989	15	1608	0.0	68.3	63.2	1.9	30.2	294.2	20.1	1.2	13.7	695.3	52.5	0.2	0.1	167.7	15.4	1.2	20.0	0.0	0.0	1413.7
1990	20	1927	0.1	45.7	46.4	1.7	14.7	198.0	12.1	1.3	12.6	564.4	47.5	0.3	0.1	116.0	14.5	1.5	27.2	0.0	0.0	1097.4
1991	21	1957	0.7	45.3	50.3	1.5	17.6	179.4	13.1	1.9	14.6	385.7	66.3	0.7	0.3	88.8	14.6	1.6	24.0	0.0	0.0	891.5
1992	21	1638	0.0	38.0	48.9	1.6	17.9	149.3	12.6	1.3	15.1	523.4	62.9	0.7	0.1	174.9	14.5	2.1	16.4	0.0	0.0	1079.9
1993	22	1780	0.0	47.9	57.3	1.7	19.0	181.8	22.4	0.9	19.8	342.4	58.5	0.1	0.3	145.8	17.5	1.4	7.5	0.0	0.0	979.9
1994	33	1564	2.5	68.7	45.7	1.5	17.8	173.0	28.5	1.1	15.3	320.8	47.8	0.4	0.2	132.9	13.9	1.2	14.5	0.0	0.0	903.8
1995	26	914	2.7	84.5	52.0	1.2	13.5	76.8	5.7	0.1	11.1	454.7	29.9	0.0	0.1	187.4	7.1	0.7	9.1	0.0	0.0	936.4
1996	20	1061	2.3	63.7	56.9	2.5	19.4	132.0	8.2	0.4	17.4	187.7	67.1	0.4	0.1	193.4	9.8	1.9	9.9	0.0	0.0	773.0
1997	25	1253	2.6	66.6	42.1	2.2	13.6	98.7	10.1	1.0	7.9	534.5	52.0	0.1	0.3	73.6	5.5	0.3	22.6	0.0	0.0	933.5
1998	21	1235	2.1	59.3	26.9	1.7	11.3	70.4	9.5	0.7	8.1	276.1	27.0	0.0	0.0	101.7	4.6	1.0	11.1	0.0	0.0	611.3
1999	8	1758	2.0	59.2	32.2	3.3	18.1	206.5	23.5	0.5	17.1	444.8	26.4	0.0	0.1	133.2	16.0	1.6	13.1	0.0	0.0	997.6
2000	14	1824	1.3	69.5	35.9	7.9	10.9	155.8	23.7	0.6	9.7	323.1	38.9	0.1	0.1	138.4	22.2	2.7	10.9	0.1	0.0	850.6
2001	10	1881	2.8	88.8	47.3	3.2	17.3	149.2	18.8	0.3	11.2	315.8	40.3	0.0	0.1	132.9	22.3	1.8	13.3	0.0	0.0	866.3
2002	9	1886	2.7	66.0	31.4	3.2	12.5	157.6	30.5	0.7	9.3	383.9	30.1	0.0	0.1	66.8	16.1	2.0	4.4	0.6	0.0	819.7
2003	7	2021	2.5	73.3	41.0	4.2	10.2	137.6	20.4	0.2	10.2	242.0	35.5	0.2	0.2	54.9	17.5	1.4	7.8	0.0	0.0	658.4
2004	8	1803	2.2	99.4	60.5	4.7	19.6	149.8	31.9	0.7	11.0	193.2	52.4	0.4	0.3	73.0	21.5	1.8	7.8	0.3	0.0	730.8
2005	7	1419	3.1	89.9	43.4	4.4	9.6	108.5	20.7	0.8	11.8	240.6	53.3	0.2	0.1	41.9	7.1	1.3	10.6	0.1	0.0	647.1
2006	8	1466	3.0	58.3	54.6	3.5	7.3	85.9	12.8	0.1	8.0	368.1	40.5	0.1	0.2	52.0	7.8	1.5	9.6	0.1	0.0	713.7
2007	12	1711	3.6	80.5	66.7	9.0	14.8	140.9	22.6	0.5	11.8	331.3	46.9	0.6	0.2	68.5	11.8	2.5	8.6	0.6	0.0	821.0
2008	11	2288	2.2	72.6	44.0	7.7	18.1	116.7	17.4	0.7	9.6	170.5	29.3	0.7	0.0	85.4	19.9	3.4	7.5	0.2	0.0	612.5
2009	9	2313	4.2	89.5	35.6	6.5	17.1	130.5	24.4	0.5	18.0	188.0	39.5	0.3	0.2	96.8	13.9	2.9	7.0	0.0	0.0	675.1
2010	14	2329	8.4	106.0	61.1	7.4	16.4	179.6	23.5	0.6	12.5	316.6	33.2	0.0	0.2	64.9	26.3	3.0	8.8	0.4	0.0	869.3
2011	13	2061	5.7	70.1	45.6	13.1	19.2	152.7	21.7	0.8	14.3	278.5	38.6	0.2	0.1	144.4	28.4	2.3	10.0	0.5	0.0	846.3
2012	11	2107	4.0	86.9	38.5	11.5	19.8	119.4	25.7	1.0	11.5	206.3	47.6	0.0	0.2	85.8	17.8	2.3	10.9	0.0	0.0	689.9
2013	10	1568	1.4	69.3	56.9	9.9	21.9	86.3	12.4	1.3	17.9	257.4	37.6	0.4	0.1	98.5	13.1	1.5	9.4	0.3	0.0	695.4
2014	8	1321	3.2	73.4	81.2	15.1	23.9	145.9	17.9	0.8	27.0	388.8	42.8	0.3	0.2	97.1	18.6	3.3	9.8	0.5	0.2	949.7
2015	11	1386	2.2	92.1	71.1	15.3	21.1	86.9	17.2	0.4	18.1	387.7	30.6	0.6	0.1	68.2	13.4	2.4	11.0	0.7	0.1	839.1
2016	10	1430	3.0	65.9	65.9	13.7	23.1	127.8	15.3	0.2	10.1	339.1	33.6	0.1	0.1	67.6	16.3	2.7	7.0	0.3	0.0	791.7
2017	9	1272	2.8	153.9	46.5	11.6	28.2	70.2	12.4	0.9	18.5	175.2	39.6	0.7	0.2	95.4	13.9	3.1	6.7	0.2	0.1	680.0
AVE	14.2	1682	2.5	74.2	50.0	6.0	17.4	140.0	18.5	0.7	13.6	339.2	43.0	0.3	0.1	105.1	15.2	1.9	11.6	0.2	0.0	840.5

Daily Counts at the Nine Northeastern Watch Sites, Spring 2017

					KERI	RS RI	DGE,	во	САВ	EC, N	EW BE	RUNS	wie	сκ,	CA					
									Тос	ld Wat	tts									
2017	HRS	ΒV	ΤV	OS	BE	NH	SS	СН	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	мк	TOTAL
4/9	2.0	0	4	0	1	0	1	0	2	0	0	5	0	- 1	0	0	0	0	0	14
4/10	1.0	0	3	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	5
4/11	1.8	0	0	10	0	9	4	0	0	0	3	0	0	0	5	0	0	0	0	31
4/15	2.0	0	0	1	0	0	7	0	0	0	6	2	0	0	1	0	0	0	0	17
4/16	4.0	0	1	15	2	3	7	0	0	0	40	2	0	0	8	1	0	2	0	81
4/29	3.8	0	11	13	0	8	16	0	0	1	244	3	0	0	9	2	0	3	0	310
Total	14.5	0	19	39	3	20	36	0	2	1	293	12	0	1	24	3	0	5	0	458
2YrAve	24.5	0	20	67	7	28	66.5	0	0	1	366	17	0	0	41	4.5	2	10	0	628.5

									coc	OPER,	ME									
								к	aren	E. Ho	Imes									
2017	HRS	ΒV	τv	OS	BE	NH	SS	сн	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	мк	TOTAL
4/9	5.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/10	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/11	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/12	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/13	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/14	8	0	5	0	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	9
4/15	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/16	2.5	0	6	2	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	11
4/18	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4/19	2	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
4/23	2	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3
4/24	4.3	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	4
4/25	5	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
5/3	6	0	4	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	7
Total	57	0	17	3	10	1	3	0	0	0	4	0	0	0	1	0	0	1	0	40
6YrAv	52.2	1	12.3	3.7	11	1.8	5.17	2	0	0.33	5.2	0.7	0	0	3	1	0	5	0	51.3

						PLI	IM IS		יח	NFW/R	IIRYP	ORT	ма							
,	Mark 9	icho	ene T	ed M	ara	Boh	Secato	re l	Paul	Rober	ts Urs	ula (2000	line	Man	/elle	n St	one	oth	ers
2017	HRS	BV	TV	OS	BF	NH	SS	сн	NG	RS	BW	RT	RI	GF	AK	MI	PG	UR	мк	ΤΟΤΑΙ
3/29	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	2
3/30	8.5	0	22	2	1	8	0	0	0	0	0	5	0	0	1	1	0	0	0	40
4/2	8	0	20	1	1	10	0	2	0	0	0	0	1	0	6	2	2	0	0	45
4/3	3.5	0	4	0	0	6	0	0	0	0	0	0	1	0	1	0	0	0	0	12
4/7	6.5	0	1	4	0	7	0	0	0	0	0	1	0	0	56	2	0	2	0	73
4/8	7.0	0	2	2	0	14	0	0	0	0	0	2	0	0	10	0	0	0	0	30
4/9	9.5	0	26	3	0	17	3	1	0	0	0	2	1	0	44	2	1	0	0	100
4/10	8	0	5	3	1	20	1	0	0	0	0	0	0	0	16	0	0	2	0	48
4/11	5.0	0	0	4	0	1	0	0	0	0	0	0	0	0	6	0	1	0	0	12
4/13	11	0	13	1	0	5	0	2	0	0	0	1	0	0	47	1	1	1	0	72
4/14	3.25	0	0	0	0	3	0	0	0	0	0	0	0	0	4	2	0	0	0	9
4/15	8.5	0	14	5	1	0	0	0	0	0	0	4	0	0	15	1	0	0	0	40
4/16	10	0	0	1	0	3	6	0	0	0	0	0	0	0	179	13	0	0	0	202
4/17	9.0	0	4	1	0	1	7	1	0	0	2	3	0	0	47	2	0	0	0	68
4/18	6.5	0	0	0	0	1	0	0	0	0	0	0	0	0	4	0	0	0	0	5
4/20	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
4/23	6.25	0	0	0	0	5	1	0	0	0	0	0	0	0	5	5	0	0	0	*17
4/24	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/28	5.25	0	0	1	0	2	2	0	0	0	0	0	0	0	2	1	0	0	0	8
4/29	11.0	0	5	2	0	16	28	5	0	0	0	0	0	0	79	8	6	1	0	150
5/1	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/2	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/3	10.0	0	19	2	2	6	64	1	0	0	0	0	0	0	21	6	0	3	0	124
5/4	4	0	0	5	0	1	2	0	0	0	0	0	0	0	0	4	0	0	0	12
5/7	6.0	0	0	3	2	0	0	0	0	0	0	0	0	0	3	1	1	0	0	10
5/8	5.0	0	3	3	0	0	1	0	0	0	0	0	0	0	1	3	1	0	0	12
5/16	7.3	0	1	1	0	2	2	1	0	0	0	0	0	0	5	3	1	1	0	17
5/17	7.5	0	0	0	0	0	0	2	0	0	0	0	0	0	1	4	0	3	0	10
5/18	5.25	0	0	1	0	2	1	0	0	0	0	0	0	0	1	4	0	0	0	9
5/19	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Total	182	0	139	45	8	131	118	15	0	0	2	18	3	0	554	67	15	13	0	1129
11YrAv	126	0	47	34	3	95	140	16	0	0	1	6	1	0	519	63	7	15	0	949
*4/22	includ	000	C I		0.1															

						BRA	DBUR	YN	100	NTAI	N, PO	WNA	L, N	١E						
Za	ne Ba	ker,	Derel	Lov	itch,	Jean	nette l	ovi	tch,	Dave	Gulic	c, Tor	n Do	own	ing, D	on T	hom	npso	n, ot	hers
2017	HRS	BV	TV	OS	BE	NH	<u></u>	<u>СН</u>	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	мк	TOTAL
3/15	7.8	0	4	0	6 8	0	0	0	0	2	0	2	0	0	0	0	0	0	0	15
3/17	8.0	0	0	0	4	0	0	0	0	2	0	2	0	0	0	0	0	0	0	8
3/18	8	0	0	0	1	0	0	0	1	0	0	2	0	0	0	0	0	0	0	4
3/19	8	0	2	0	3	0	1	0	0	1	0	1	0	0	0	0	0	0	0	8
3/20	8.0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3/21	8	0	5	0	3	0	0	0	0	1	0	2	0	0	0	0	0	0	0	11
3/22	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3/23	8.0	0	0	0	1	0	0	0	0	1	0	2	0	0	0	0	0	0	0	4
3/24	2.5	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
3/25	8	0	16	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	19
3/26	8	0	3	0	3	2	4	3	0	11	0	11	0	0	0	0	0	4	0	41
3/28	8	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
3/29	8	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
3/30	8	0	221	0	3	0	2	0	0	3	0	9	0	0	0	1	0	0	0	22
3/3 I 4/2	0.0 p	0	221	0	2	2	2	2	1	25	0	- 27	0	0	1	1	0		0	285
4/3	80	0	41	2	/	0 8	12	2	2	21	0	22	0	0	1	2	0	2	0	120
4/5	0.0 8	0	41 2	0	0	1	0	1	0	- 21	0	23	0	0	0	2	0	0	0	130
4/6	5	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
4/7	8.0	0	62	17	2	22	30	4	0	9	1	19	0	0	49	8	0	2	0	225
4/8	8.0	0	2	4	0	2	6	0	0	1	0	4	0	0	3	2	0	1	0	25
4/9	8	0	8	12	6	3	16	2	0	4	0	4	0	0	10	0	0	4	0	69
4/10	8	0	43	60	2	49	105	9	0	11	33	11	0	0	110	1	0	5	0	439
4/11	8.0	1	20	56	0	40	61	6	0	15	52	2	0	0	100	7	1	0	0	361
4/12	6	0	6	21	1	13	19	1	1	2	84	4	0	0	31	3	0	0	0	186
4/13	8.5	0	0	16	0	3	9	0	0	2	6	4	0	0	3	0	0	2	0	45
4/14	9	0	1	11	0	1	3	1	0	2	16	2	0	0	4	0	0	2	0	43
4/15	8.8	0	0	22	1	6	52	1	0	0	156	3	0	0	29	3	0	1	0	274
4/16	9.8	0	0	14	0	2	24	3	0	0	112	1	0	0	22	1	0	4	0	183
4/17	9	0	0	5	1	1	6	0	0	0	86	2	0	0	3	0	0	1	0	105
4/18	7.3	0	0	19	1	2	6	3	1	3	53	1	0	0	0	0	0	1	0	90
4/19	9	0	0	11	0	2	9	1	0	0	61	1	0	0	4	0	0	2	0	91
4/20	8.0	0	0	5	1	1	3	0	0	0	1/	0	0	0		0	0	0	0	28
4/21	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/22	9.0	0	0	11	1	4	9	0	0	0	107	2	0	0	7	1	1	2	0	145
4/24	9	0	0	4	0	2	16	5	0	1	99	2	0	0	18	3	2	1	0	153
4/25	8.3	0	0	0	0	0	0	1	0	0	2	0	0	0	2	0	0	0	0	.55
4/27	5	0	0	0	0	0	2	0	0	0	3	0	0	0	3	1	0	0	0	9
4/28	6	0	0	5	2	2	28	2	0	0	81	2	0	0	12	8	1	3	0	146
4/29	8	0	0	13	5	2	51	2	0	0	304	4	0	0	3	1	0	2	0	387
4/30	8.3	0	0	2	0	2	15	0	0	0	30	1	0	0	1	2	0	2	0	55
5/1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
5/2	4	0	0	0	0	0	13	1	0	0	2	0	0	0	0	2	0	0	0	18
5/3	8	0	0	3	5	0	13	2	0	1	16	3	0	0	2	1	0	4	0	50
5/4	9	0	0	12	0	5	45	1	0	0	21	3	1	0	1	1	1	1	0	92
5/5	6	0	0	0	0	1	6	0	0	0	1	0	0	0	0	1	0	0	0	9
5/7	8.0	0	0	6	0	0	10	0	0	0	11	2	0	0	5	3	0	0	0	37
5/8	4.3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
5/9	8.5	0	0	1	0	0	5	0	0	0	1	0	0	0	1	0	0	1	0	9
5/10	8	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	2
5/12	90	0	0	2	0	0	2	2	0	2	2	0	0	0	2	0	0	0	0	19
5/13	9.0 8	1	0	4	0	2	2	0	0	0	<u>د</u>	2	0	0	4	-4	0	0	0	21
5/15	8	0	0	0	0	0	0	0	0	0	-4	0	0	0	0	0	0	0	0	0
тот	417	2	511	341	75	180	596	66	7	127	1363	171	1	0	433	60	7	48	0	3988
121/-4-	252	_	105	261		70	5.01				4222	202			207	50	<u> </u>	20		

Desire BV IV OS BV IV SC R BW RI CI AK ML PC IV MC A ML CI AK ML PC IV MC 449 6 0 28 0 1 1 1 0 0 0 0<							F	PILGR	м	HEIC	GHTS,	TRUR	О, М	A							
2017 HHS BV T CI AC AL A						Do	nald	Manch	nest	er, N	lichae	l Brok	enshi	re, d	othe	rs					
4/8 5 0 7 0 0 1 1 1 0	2017	HRS	ΒV	TV	OS	BE	NH	SS	СН	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	ΜК	TOTAL
449 6 0 28 0 1 1 0	4/8	5	0	7	0	0	0	0	0	0	0	0	3	0	0	0	0	0	1	0	11
4/10 5 0 32 2 0 0 7 1 0 <td>4/9</td> <td>6</td> <td>0</td> <td>28</td> <td>0</td> <td>1</td> <td>1</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>10</td> <td>0</td> <td>0</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>44</td>	4/9	6	0	28	0	1	1	1	0	0	0	0	10	0	0	3	0	0	0	0	44
4/11 3 0 1 0	4/10	5	0	32	2	0	0	7	1	0	0	0	3	0	0	0	0	1	0	0	46
4/14 2 0 28 1 0 <td>4/11</td> <td>3</td> <td>0</td> <td>15</td> <td>1</td> <td>0</td> <td>0</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>19</td>	4/11	3	0	15	1	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	19
4/15 4 0 25 1 0 1 5 0 0 3 2 0 0 8 2 0 0 0 0 4/17 3 0 6 0	4/14	2	0	28	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	31
4/17 3 0 16 0 0 1 0 <td>4/15</td> <td>4</td> <td>0</td> <td>25</td> <td>1</td> <td>0</td> <td>1</td> <td>5</td> <td>0</td> <td>0</td> <td>0</td> <td>3</td> <td>2</td> <td>0</td> <td>0</td> <td>8</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>47</td>	4/15	4	0	25	1	0	1	5	0	0	0	3	2	0	0	8	2	0	0	0	47
4/18 3 0 6 0	4/17	3	0	16	3	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	22
4/19 4 0 8 0	4/18	3	0	6	0	0	0	0	0	0	0	0	0	0	0	14	0	0	1	0	21
4/23 4 0 18 0 0 0 0 0 2 0 0 4 1 0 0 0 0 1 0 <td>4/19</td> <td>4</td> <td>0</td> <td>8</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> <td>0</td> <td>0</td> <td>18</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>29</td>	4/19	4	0	8	0	0	0	0	0	0	0	0	2	0	0	18	1	0	0	0	29
4/24 4 0 25 2 0 0 4 2 0 <td>4/23</td> <td>4</td> <td>0</td> <td>18</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> <td>0</td> <td>0</td> <td>4</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>25</td>	4/23	4	0	18	0	0	0	0	0	0	0	0	2	0	0	4	1	0	0	0	25
4/28 3 0 9 1 0 1 5 0 0 0 1 0 0 9 0 0 0 0 4/29 8 0 14 7 0 0 4 1 0	4/24	4	0	25	2	0	0	4	2	0	0	3	0	0	0	7	0	0	0	0	43
4/29 8 0 14 7 0 0 4 1 0 0 1 0 0 32 6 1 1 0 0 4/30 5 0 21 0 <t< td=""><td>4/28</td><td>3</td><td>0</td><td>9</td><td>1</td><td>0</td><td>1</td><td>5</td><td>0</td><td>0</td><td>0</td><td>0</td><td>1</td><td>0</td><td>0</td><td>9</td><td>0</td><td>0</td><td>0</td><td>0</td><td>26</td></t<>	4/28	3	0	9	1	0	1	5	0	0	0	0	1	0	0	9	0	0	0	0	26
4/30 5 0 21 0	4/29	8	0	14	7	0	0	4	1	0	0	0	1	0	0	32	6	1	1	0	67
5/3 5 0 22 14 1 1 26 6 0 0 2 1 0 1 1 0 1 1 0 <td>4/30</td> <td>5</td> <td>0</td> <td>21</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> <td>0</td> <td>0</td> <td>15</td> <td>1</td> <td>1</td> <td>0</td> <td>0</td> <td>40</td>	4/30	5	0	21	0	0	0	0	0	0	0	0	2	0	0	15	1	1	0	0	40
5/4 3 0 7 5 0 1 2 0 0 0 1 0 0 4 0 0 0 0 5/7 2 0 11 0 <th< td=""><td>5/3</td><td>5</td><td>0</td><td>22</td><td>14</td><td>1</td><td>1</td><td>26</td><td>6</td><td>0</td><td>0</td><td>20</td><td>2</td><td>0</td><td>0</td><td>3</td><td>2</td><td>1</td><td>1</td><td>0</td><td>*100</td></th<>	5/3	5	0	22	14	1	1	26	6	0	0	20	2	0	0	3	2	1	1	0	*100
5/7 2 0 11 2 0 0 1 0	5/4	3	0	7	5	0	1	2	0	0	0	0	1	0	0	4	0	0	0	0	20
5/8 2 0 17 0 0 0 1 0	5/7	2	0	11	2	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	15
5/9 3 0 11 0	5/8	2	0	17	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	18
5/10 4 0 18 1 0 0 1 0 0 1 0 0 1 1 0 <td>5/9</td> <td>3</td> <td>0</td> <td>11</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> <td>0</td> <td>0</td> <td>1</td> <td>1</td> <td>1</td> <td>0</td> <td>0</td> <td>16</td>	5/9	3	0	11	0	0	0	0	0	0	0	0	2	0	0	1	1	1	0	0	16
5/13 3 0 4 0	5/10	4	0	18	1	0	0	1	0	0	0	0	1	0	0	1	1	0	0	0	23
5/16 5 0 16 5 0 0 3 0 0 1 2 1 0 0 2 2 3 0 0 5/17 6 0 21 10 2 2 5 0 0 1 23 4 0 0 3 1 2 0 0 7 5/18 3 0 1 2 0 0 1 0	5/13	3	0	4	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	7
5/17 6 0 21 10 2 2 5 0 0 1 23 4 0 0 3 1 2 0 0 1 5/18 3 0 1 2 0 0 1 0 <	5/16	5	0	16	5	0	0	3	0	0	0	2	1	0	0	2	2	3	0	0	34
5/18 3 0 1 2 0 0 1 0	5/17	6	0	21	10	2	2	5	0	0	1	23	4	0	0	3	1	2	0	0	74
5/19 6 0 13 12 0 0 3 0 0 1 11 3 0 0 0 2 1 0 1 1 1 3 0 </td <td>5/18</td> <td>3</td> <td>0</td> <td>1</td> <td>2</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>1</td> <td>0</td> <td>5</td>	5/18	3	0	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	5
5/20 5 0 24 2 0 0 0 0 6 3 0 <td>5/19</td> <td>6</td> <td>0</td> <td>13</td> <td>12</td> <td>0</td> <td>0</td> <td>3</td> <td>0</td> <td>0</td> <td>1</td> <td>11</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> <td>0</td> <td>1</td> <td>47</td>	5/19	6	0	13	12	0	0	3	0	0	1	11	3	0	0	0	2	1	0	1	47
5/21 5 0 7 0 0 0 0 0 0 0 3 0 0 1 0	5/20	5	0	24	2	0	0	0	0	0	0	6	3	0	0	0	0	0	0	0	35
5/27 4 0 18 2 0 <td>5/21</td> <td>5</td> <td>0</td> <td>7</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>11</td>	5/21	5	0	7	0	0	0	0	0	0	0	0	3	0	0	0	1	0	0	0	11
5/28 5 0 2 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0	5/27	4	0	18	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
5/30 3 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 0 1 0	5/28	5	0	21	1	0	0	1	0	0	1	3	2	0	0	0	1	0	0	0	30
6/1 3 1 25 1 0 0 1 0 0 1 1 2 0 0 0 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 0 0 0 1 0 0 0 1 0	5/30	3	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	2
6/2 6 0 14 4 1 0 1 1 0 0 41 2 0 <td>6/1</td> <td>3</td> <td>1</td> <td>25</td> <td>1</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>31</td>	6/1	3	1	25	1	0	0	1	0	0	0	1	2	0	0	0	0	0	0	0	31
6/3 3 0 13 1 0 0 0 0 0 1 0	6/2	6	0	14	4	1	0	1	1	0	0	41	2	0	0	0	0	0	0	0	64
6/4 3 0 12 5 0 0 0 0 1 0	6/3	3	0	13	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	15
6/7 3 0 10 0	6/4	3	0	12	5	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	18
6/8 5 0 20 0 0 0 0 12 0 <td>6/7</td> <td>3</td> <td>0</td> <td>10</td> <td>0</td> <td>10</td>	6/7	3	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
6/10 6 0 9 4 0 0 2 1 0 1 1 2 0 0 0 1 0 2 0 0 0 0 1 0	6/8	5	0	20	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	32
6/11 4 0 5 0 1 0 2 0 0 0 1 0	6/10	6	0	9	4	0	0	2	1	0	1	1	2	0	0	0	1	0	0	0	21
6/15 3 0 15 0 0 0 1 0 <td>6/11</td> <td>4</td> <td>0</td> <td>5</td> <td>0</td> <td>1</td> <td>0</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>9</td>	6/11	4	0	5	0	1	0	2	0	0	0	0	1	0	0	0	0	0	0	0	9
6/21 3 0 4 1 2 0	6/15	3	0	15	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	16
6/22 2 0 20 0 <td>6/21</td> <td>3</td> <td>0</td> <td>4</td> <td>1</td> <td>2</td> <td>0</td> <td>7</td>	6/21	3	0	4	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Total 164 1 610 90 8 7 80 13 0 4 128 58 0 0 130 24 11 5 1 111 19YrAv 261 2 558 132 16 26 322 52 2 10 266 92 1 0 182 48 12 23 4 174	6/22	2	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
19YrA 261 2 558 132 16 26 322 52 2 10 266 92 1 0 182 48 12 23 4 174	Total	164	1	610	90	8	7	80	13	0	4	128	58	0	0	130	24	11	5	1	1171
	19YrAv	261	2	558	132	16	26	322	52	2	10	266	92	1	0	182	48	12	23	4	1747

*5/3 - includes a	Swallow-tail Kite
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							BA	RRE	FAL	LS, B	ARRE,	ма								
					Don	na Sc	hilling	, D	avid	Grant	, Jim E	mme	rton	oth	ers					
2017	HRS	ΒV	ΤV	OS	BE	NH	SS	сн	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	мк	ΤΟΤΑ
4/2	5.25	0	2	1	1	0	0	0	1	1	0	15	0	0	2	0	0	1	0	24
4/3	3	0	0	0	0	0	0	2	0	1	0	8	0	0	0	0	0	0	0	1
4/7	2	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2
4/8	2	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	4
4/9	5	0	3	1	1	0	1	0	0	0	0	3	0	1	1	0	0	2	0	13
4/10	6.5	0	0	2	1	0	5	1	0	0	19	4	0	0	0	0	0	0	0	32
4/11	2	0	0	1	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	
4/14	5.5	0	0	0	3	0	0	1	0	0	49	3	0	0	0	0	0	0	0	5
4/15	3	0	0	0	1	0	1	0	0	0	7	0	0	0	0	0	0	1	0	10
4/17	7.25	0	0	4	1	0	1	1	0	0	114	0	0	0	0	0	0	0	0	12
4/18	5.5	0	0	1	1	0	1	0	0	0	35	1	0	0	1	0	0	0	0	40
4/19	2.75	0	0	0	0	0	1	0	0	0	7	0	0	0	0	0	0	0	0	8
4/24	3.5	0	0	1	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	
4/27	2	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	
4/28	3	0	0	4	0	0	0	0	0	0	5	1	0	0	0	0	0	0	0	10
4/29	2	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	:
4/30	3	0	2	6	0	0	2	1	0	0	17	0	0	0	0	0	0	0	0	21
5/3	4	0	0	0	1	0	2	0	0	0	1	0	0	0	0	0	0	0	0	
тот	67	0	10	21	10	0	17	7	1	2	263	37	0	1	4	0	0	5	0	378
15YrAv	124	0	58	99	16	13	121	14	1	15	660	90	0	0	47	5	1	14	0	1155.

					Н	IOOK	мо	JNT	AIN	, ROC	KLAN	D LA	KE,	NY						
						Ste	even l	Baue	er, Pl	hil and	d Anne	Ribil	ow							
2017	HRS	ΒV	ΤV	OS	BE	NH	SS	сн	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	мк	TOTAL
3/30	3.25	0	0	0	2	2	4	10	0	28	0	3	0	0	8	1	0	0	0	58
4/2	2.5	7	5	1	1	0	4	4	0	9	0	3	0	0	0	0	0	0	0	34
4/5	4.5	5	92	12	1	2	0	7	0	18	2	6	0	0	34	0	0	0	0	179
4/8	4	0	0	3	8	0	5	2	0	1	2	1	0	0	1	2	0	0	0	25
4/9	3	0	0	1	6	2	3	2	0	2	3	7	0	0	1	1	0	2	0	30
4/10	3.25	0	0	8	0	1	2	4	0	1	22	6	0	0	1	2	0	0	0	47
4/11	5.25	0	0	7	0	2	0	1	0	1	17	2	0	0	6	0	0	0	0	36
4/16	1.5	0	0	0	2	0	2	1	0	0	8	1	0	0	0	0	0	0	0	14
4/17	3	0	0	3	1	2	3	2	0	0	39	0	0	0	1	0	0	0	0	51
тот	30	12	97	35	21	11	23	33	0	60	93	29	0	0	52	6	0	2	0	474
11YrAv	23	1	9	21	6	6	63	8	0	12	675	19	0	0	27	4	2	5	0	860

						١	NILD	САТ	RIC	GE, H	IIBERN	NA, I	٩J							
	Frank Budney																			
2017	HRS	ΒV	τv	OS	BE	NH	SS	сн	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	мк	TOTAL
4/11	3	0	0	0	0	0	2	0	0	0	0	0		0	0	0	1	0	0	3
4/18	3.5	0	0	0	0	0	1	0	0	0	0	4		0	0	0	0	1	0	6
5/2	3.5	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0
5/9	3	2	0	0	0	0	1	0	0	0	0	2		0	0	0	0	0	0	5
тот	13	2	0	0	0	0	4	0	0	0	0	6	0	0	0	0	1	1	0	14
15YrAv	207	8	16	42	8	7	101	25	0	11	445	61	0	0	26	1	1	12	0	766

								M	ONT	CLAI	R, NJ									
Date	HRS	вv	τv	05	RF	NH	Set	n Ols CH	sen, NG	Alex	Bernzy RW/	RT	RI	CE	AK	мі	PG	LIR	мк	τοται
3/17	7	0	2	03	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	101AL 6
3/18	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/19	8	2	12	0	0	0	0	1	0	2	0	4	0	0	0	0	0	0	0	21
3/20	8	0	3	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	7
3/21	8	0	3	0	0	0	0	0	0	2	0	1	0	0	0	0	0	1	0	7
3/22	2	0	0	0	0	0	0	0	- 1	0	0	0	0	0	0	0	0	0	0	1
3/23	8	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
3/24	6	0	15	0	0	1	0	0	0	3	0	1	0	0	0	0	1	0	0	21
3/25	8	0	26	0	0	1	0	0	0	2	0	5	0	0	1	0	3	0	1	39
3/28	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/29	8	3	48	0	3	1	0	0	0	8	0	8	0	0	7	2	0	0	0	80
3/30	8	0	28	0	0	1	1	0	0	1	0	2	0	0	2	2	0	0	0	37
4/1	7	0	0	2	2	0	1	1	0	3	0	3	0	0	2	0	0	1	0	15
4/2	8	3	20	0	0	0	0	0	0	4	0	4	0	0	0	0	0	0	0	31
4/3	8	1	56	3	1	2	2	1	0	5	0	8	2	0	1	1	0	0	0	83
4/5	8	0	111	1	0	0		1	0	0	0	8	0	0	0	0	0	0	0	121
4/7	-4	0	2 2	4	0	0	2	5	0	3	10	1	0	0	2	1	0	1	0	22
4/0	2	0	10		1	0	0	0	0	0	10	6	0	0		0	0	1	0	32
4/10	8	0	18	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	20
4/11	8	0	15	0	0	0	0	1	0	1	0	3	0	0	0	1	0	0	0	20
4/12	6	0	4	0	0	0	0	0	0	. 0	0	6	0	0	0	0	0	0	0	10
4/13	8	2	3	0	1	1	1	1	0	0	3	16	0	0	0	0	0	0	0	28
4/14	8	0	10	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	13
4/15	7	0	1	2	0	0	1	2	0	1	12	2	0	0	1	0	1	1	0	24
4/16	8	0	2	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	6
4/17	8	0	4	0	0	0	0	2	0	0	19	9	0	0	0	0	0	0	0	34
4/18	8	0	8	0	0	0	0	0	0	0	4	3	0	0	0	0	0	0	0	15
4/19	8	0	16	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	21
4/20	8	0	5	1	0	0	0	0	0	0	3	5	0	0	0	0	0	0	0	14
4/21	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	6
4/23	8	0	34	0	4	0	1	2	0	1	6	20	1	0	0	0	1	0	0	70
4/24	8	0	7	0	0	0	0	0	0	0	3	5	0	0	0	0	0	0	0	15
4/25	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/26	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
4/27	8	0	7	0	0	0	1	1	0	1	7	3	1	0	0	2	0	0	0	23
4/28	8	1	10	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	12
4/30	0	0	24	1	0	0		2	0	0	1	4	0	0	0	4	0	0	0	39
5/1	0	1	0	0	0	0	0	0	0	0	1		1	0	0	2	0	0	0	21
5/2	0	0	3	1	0	0	0	0	0	0	2	7	0	0	0	2	0	0	0	11
5/4	8	0	6	0	0	1	0	0	0	0	0	4	0	0	0	0	0	0	0	11
5/8	8	5	3	0	0		0	1	0	0	6	4	0	0	0	0	0	0	0	19
5/9	8	0	4	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	7
5/10	8	0	2	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	10
5/11	8	0	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	4
TOT	327	18	554	18	12	9	16	24	1	41	82	173	5	0	16	17	6	5	1	998
28YrA	331	22	330	187	14	41	429	58	0	61	1604	133	0	0	273	24	5	38	1	3223

2017 NorthEast Fall Season

In 2017 there were 34 active hawk watch sites throughout the NorthEast, extending from New Brunswick to New Jersey. Together, our counters dedicated a total of 9457 hours on 1514 days, and tallied 148,945 hawks, including 85,646 Broad-winged Hawks and 17,253 Sharp-shinned Hawks. This is an average of 98 hawks/day of coverage which is 13% more hawks/day than the 87 hawks/day in 2016.

The watch sites span latitudes from N 45.1 in the north to N 40.5 in the south, and are organized into six regions, named for their southern-most latitudes. Region 44 includes sites north of latitude N 44, Region 43 north of latitude N 43, Region 42 north of latitude N 42, etc. Regions 44 and 43 have five sites each. Region 42 has seven sites, Region 41 has 11 sites, and Region 40 has four sites. In addition to these five regions is the Coastal Region, which includes two sites along the southern coastline, overlapping Regions 40 and 41. The summary table for Seasonal Totals is arranged by Region with the sites listed from north to south.

Region 44

9% of hawks, 12% of XBV, 62 hawks/ day, 26 XBV/day, 10 hawks/hour [Note: XBV=Total Hawks minus Broadwinged Hawks and both vultures]

Region 44 includes Greenlaw Mountain in New Brunswick and four sites in Maine: Cooper, Cadillac Mountain, Clarry Hill, and Harpswell Peninsula. This region counted 9% of the hawks in the Northeast, averaging 62 hawks/day, both lower than in 2016. It counted 12% of the hawks without Broadwings and Vultures (XBV), the same percentage as last year, but only averaged 10 hawks/day, which is 1/3rd of last year's count. With the same number of hours as 2016, Greenlaw reached record high counts for Turkey Vultures (492), Peregrines (30), and Golden Eagles (2). It also counted 13 Goshawks, and is the only watch in the Northeast to report Swainson's Hawk this season, with two sightings, on Sep 30 and Oct 22. Cooper doubled its coverage and almost tripled its Turkey Vultures

		-		-				No	orthEas	t Fall	2017	Seaso	nal To	tals						· · · ·	-		
Reg	Site	Days	HRS	BV	TV	OS	BE	NH	SS	СН	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	Othr	Total	XBV
	Greenlaw Mt NB	49	325	0	492	142	90	64	571	11	13	6	1989	151	0	2	166	34	30	102	2SW	3865	1384
	Cooper ME	24	134	0	82	1	8	2	2	1	0	0	0	0	0	0	3	2	0	0	0	101	19
44	Cadillac Mt ME	60	255	0	92	109	113	75	683	18	2	3	585	63	0	0	395	55	37	130	0	2360	1683
	Clarry Hill ME	44	328	0	716	228	315	102	760	49	7	34	3969	370	1	6	211	31	25	31	0	6855	2170
	Harpswell Pen ME	50	350	0	6	55	9	12	262	15	0	3	250	9	0	0	88	62	13	18	0	802	546
	Interlakes School NH	2	10	0	12	1	4	0	12	0	0	0	123	1	0	0	0	1	2	2	0	158	23
	Concord School NH	6	24	0	41	2	0	0	1	0	0	0	19	1	0	0	2	0	0	6	0	72	12
43	Carter Hill NH	71	513	0	429	131	96	53	868	108	6	87	3842	224	1	5	242	51	21	114	0	6278	2007
	Pack Monadnock NH	72	515	0	324	219	163	82	1179	142	16	181	8744	341	2	7	166	106	64	68	6	11804	2736
	Putney Mt VT	71	562	2	460	139	151	51	1456	105	7	32	11728	428	1	5	181	45	32	0	0	14823	2633
	Mount Watatic MA	11	85	0	1	51	41	14	178	33	0	0	5039	0	0	0	68	22	1	33	0	5481	441
	Helderberg NY	12	75	26	40	8	17	6	12	7	0	1	907	21	0	0	5	3	4	40	0	1097	124
	Wachusett Mt MA	57	328	1	293	144	117	23	322	121	1	14	10348	99	0	0	132	19	37	118	0	11789	1147
42	Pinnacle Rock MA	20	97	0	2	9	7	9	95	29	0	1	0	2	0	0	6	1	4	19	0	184	182
	Barre Falls MA	54	256	2	334	39	52	8	192	63	1	16	2159	153	0	1	41	11	6	34	0	3112	617
	Shatterack Mt MA	25	132	0	100	17	20	12	189	28	1	21	1904	58	0	0	34	11	2	5	0	2402	398
	Booth Hill CT	2	9	0	12	5	9	3	10	0	0	3	380	4	0	0	16	0	0	0	0	442	50
	Middle School CT	13	52	6	0	6	7	1	5	6	0	0	890	0	0	0	6	0	0	5	0	932	36
	Johnnycake Mt CT	6	30	13	5	27	15	3	13	5	0	2	1144	4	0	0	9	0	0	0	0	1240	78
	Mohonk NY	59	314	11	471	79	105	43	645	115	2	52	4059	305	1	7	50	28	20	19	0	6012	1471
	Chestnut Hill CT	16	74	0	0	10	17	1	27	0	0	0	1631	0	0	0	14	1	0	3	0	1704	73
	White Memorial CT	10	14		2	1	0	1	1	6	0	12	98	3	0	0	1	2	0	9	0	136	36
41	Botsford Hill CT	11	44	0	0	19	12	2	60	4	0	0	1264	1	0	0	15	6	0	10	0	1393	129
	Bear Mountain NY	40	215	0	0	42	108	6	117	28	2	0	1828	9	0	0	23	2	11	13	0	2189	361
	Mount Peter NY	74	480	96	320	111	85	26	841	121	1	122	6874	232	0	4	83	18	26	36	0	8996	1706
	Chestnut Ridge NY	84	589	29	3098	263	149	90	1270	373	1	494	2133	265	0	13	334	120	32	343	0	9007	3747
	Hook Mountain NY	72	412	55	124	236	190	69	1161	149	1	94	4952	55	0	3	196	65	59	6	0	7415	2284
	Quaker Ridge CT	97	720	24	1743	321	172	86	1532	378	2	1006	3008	304	0	8	418	93	21	74 15	SE	9191	4416
	State Line NJ	76	445	45	1628	448	219	71	818	266	2	286	1216	431	0	0	288	70	57	97	0	5942	3053
40	Wildcat Ridge NJ	40	189	26	0	40	23	3	129	43	0	2	502	20	0	1	14	7	6	16	0	832	304
	Montclair NJ	88	670	61	2866	251	184	51	1187	321	1	418	2396	298	0	1	296	126	82	44	0	8583	3260
	Washington Valley NJ	33	172	0	108	41	94	17	427	52	0	154	1224	63	1	5	152	35	6	0	0	2379	1047
со	Lighthouse Pt CT	91	588	12	527	1084	181	263	2136	1080	2	298	441	243	2	0	1070	277	124	377 33	SE	8120	7140
Ľ	Fire Island NY	74	457	0	0	836	11	144	92	52	0	1	0	1	1	0	712	1177	216	6 25	SNOW	3249	3249
	Totals	1514	9457	409	14328	5115	2784	1393	17253	3729	68	3343	85646	4159	10	68	5437	2481	938	1778	6	148945	48562
	BV Black Vulture, TV Turke Golden Eagle, AK American	y Vulture, (Nestrel, M	OS Osprey 1L Merlin, I	∕, BE Bald I PG Peregri	Eagle, NH i ne Falcon.	Northern H. UR Unide	larrier, SS S ntified Ran	Sharp-shin tor. XBWN	ned Hawk, / Total with	CH Coop	er's Hawk winged F	, NG North Iawks and	ern Goshav Vultures	wk, RS Rea	d-shoulde.	red Hawk,	BW Broad-	-winged Ha	wk, RT R	ed-tailed Hav	vk, RL Roi	ıgh-legged Ha	wk, GE

(82), a new record. It continued with above average Bald Eagles. Cadillac Mountain had a record high count for Bald Eagles (113), which is almost double the previous high, and near record Peregrines (37). The Bald Eagle count (315) at Clarry Hill was the highest for the Northeast. Although that was not a site record, Clarry Hill did have five site records, including four record highs—Turkey Vulture (716), Northern Goshawk (7), Red-tailed Hawk (111), and American Kestrel (211); and one record low—Broad-winged Hawk (3969). They also counted six Golden Eagles and one of the ten Rough-legged Hawks seen in the Northeast. Increased hours at Harpswell Peninsula resulted in their best Osprey (55) and Kestrels (88) in the last five years. Unfortunately they had two record lows: Northern Harrier (12) and Sharp-shinned Hawk (262).

Region 43

22% of hawks, 15% of XBV, 149 hawks/day, 33 XBV/day, 20 hawks/hour

Region 43 includes Putney Mountain in Vermont and four sites in New Hampshire: Interlakes School, Concord School, Carter Hill, and Pack Monadnock. Region 43 counted 22% of all hawks in the Northeast, averaging 149 hawks/day, and 33 XBV/day. This was the highest hawks/day in the Northeast. Both New Hampshire schools had above average counts for at least one species. Interlakes School, in its 13th year, had above average Bald Eagles (4) and a new record for Peregrine Falcons (2). Concord School, in its 8th year, counted above average Turkey Vultures (41). Carter Hill had record highs for Turkey Vultures (429) and Golden Eagle (5), and above average counts for five species: Bald Eagles (96), Sharp-shinned Hawks (868), Red-shouldered Hawks (87), Red-tailed Hawks (224), and American Kestrel (242). They also counted one of the 10 Rough-legged Hawks. Pack Monadnock come through again with the most Northern Goshawks in the Northeast (16). It also had the 2nd highest total hawks for the Northeast, the 3rd highest Broadwing count (8744), and set new record highs for four species: Turkey Vultures (324), Bald Eagles (163), Peregrine Falcon (64), and Rough-legged Hawk (2). It also counted seven Golden Eagles. Putney Mountain tallied the highest Broad-winged count (11728) and the highest Total Hawks in the Northeast (14823). These were both record highs for the site. They had a 3rd site record, for Bald Eagle (151), and also counted one Rough-legged Hawk and five Golden Eagles.

Region 42

16% of hawks, 6% of XBV, 135 hawks/day, 16 XBV/day, 25 hawks/hour

Region 42 includes Helderberg in New York, Booth Hill in Connecticut, and five sites in Massachusetts: Mount Watatic, Wachusett, Pinnacle Rock, Barre Falls, and Shatterack Mountain. Region 42 counted 16% of all hawks in the Northeast, averaging 135 total hawks/day and 16 XBV/day. Region 42 counted 25 hawks/hour, the highest in the Northeast, and an increase of 38% compared to 2016. Mount Watatic reflected this increase with an above average season for four species: Bald Eagles (41), Northern Harrier (14), American Kestrel (68), and Merlin (22). It also counted the 5th highest Broadwings (5039) in the Northeast. Likewise, Helderberg had above average counts for four species: Black Vulture (26), Turkey Vulture (40), Red-tailed Hawk (21), and Peregrine Falcon (4). Wachusett tallied our 2nd highest Broadwing count (10348) and set a site record for Cooper's Hawk (121). They also had above average counts for four species: Turkey Vulture (293), Red-tailed Hawk (99), American Kestrel (132), and Peregrine Falcon (37). Pinnacle Rock had two above average species: Bald Eagle (7) and Northern Harrier (9). Barre Falls had good vulture counts, with above average Turkey Vultures (334) and two Black Vultures (BV). Since 2000, the site has documented only one BV a season in four of the 16 seasons. Barre Falls also recorded the only Golden Eagle in Region 42. Shatterack Mountain had reduced coverage and consequent below average counts. The exception was Redshouldered Hawk (21), which was above average. Consistent with the other more southern sites in Region 42, Booth Hill also had two above average species: Turkey Vulture (12) and American Kestrel (16).

Region 41

32% of hawks, 30% of XBV, 100 hawks/day, 30 XBV/day, 16 hawks/hour

Region 41 includes eleven sites, six in Connecticut and five in New York. The Connecticut sites include Middle School, Johnnycake Mountain, Chestnut Hill, White Memorial, Botsford Hill, and Quaker Ridge. The New York sites include Mohonk Preserve, Bear Mountain, Mount Peter, Chestnut Ridge, and Hook Mountain. Region 41 counted 32% of all hawks and 30% of XBV in the Northeast, averaging 100 total hawks/day and 30 XBV/day. These percentages of all hawks and XBV are the highest for the Northeast, and represent substantially more hawks for this region than in 2016. Reflecting this increase in hawks, Middle School had reduced coverage yet counted almost three times the total hawks counted in 2016. Nevertheless, all species were below average, except the six Black Vultures, which were above average. Johnnycake had only half the coverage of recent years, resulting in lower than average counts for all species except Black Vulture (13). Notable, though, the 42 hawks/hour was double that in 2016. Mohonk had an above average season for all species, and set site records for two species: Turkey Vulture (471) and Golden Eagle (7). They also counted one Rough-legged Hawk. Chestnut Hill had slightly less coverage than recent years and resulted in mostly below average counts. The only exception was American Kestrel (14) which was slightly above average. Coverage at White Memorial was less than any year since 2011, resulting in below average counts for all species except Red-shouldered Hawk (12), which was at average. Even with declining coverage, Botsford Hill set a new record for Merlins (6). All other species, however, were below average. At Bear Mountain, coverage was the lowest since 1997. In spite of this, they had above average counts for four species: Bald Eagle (108), Northern Goshawk (2), Broad-winged Hawk (1828), and Peregrine Falcon (11). Mount Peter had a site record for Peregrine Falcons (26) and above average counts for Black Vulture (96), Turkey Vulture (320), and Red-shouldered Hawk (122). It was one of five sites that counted more than 5000 Broadwings (6874), and also enjoyed four Golden Eagles and one Northern Goshawk. Chestnut Ridge had the highest counts in the Northeast for two species: Turkey Vultures (3098) and Golden Eagles (13). It also set site records for two species-Bald Eagle (149) and Merlin (120), and a near record for Redshouldered Hawk (494). Hook Mountain set a site record for Peregrine Falcons (59), and continued with near record Bald Eagles (190). Two species had record lows—Northern Harrier (69) and Sharp-shinned Hawk (1161). Broad-wings were at average (4952), with Hook ranking 6th in the Northeast. Quaker Ridge had the highest count for Red-shouldered Hawk (1006) in the Northeast, representing 30% of the Northeast total (3343). It also set a new site record for Turkey Vulture (1743), and counted eight Golden Eagles and one Short-eared Owl.

Region 40

12% of hawks, 16% of XBV, 75 hawks/day, 32 XBV/day, 12 hawks/hour

Region 40 includes four sites in New Jersey: State Line, Wildcat Ridge, Montclair, and Washington Valley. Region 40 counted 12% of all hawks in the Northeast, averaging 75 hawks/day, a 33% increase over 2016, and 32 XBV/day. State Line had the highest count in the Northeast for Redtailed Hawk (431), and set site records for two species: Bald Eagle (219) and Merlin (70). It also had above average counts for Red-shouldered Hawk (286) and Merlin (70). The count at Wildcat Ridge was comparatively low, a consequence of reduced coverage this season. Montclair had site records for two species, Turkey Vulture (2866) and Peregrine Falcon (82), and above average counts for Red-shouldered Hawk (418) and Merlin (126). Washington Valley is a new endeavor at the same location as Chimney Rock. Under new management they had only about half the coverage, but had better hawks/ hour than the previous two years, and counted one of the ten Rough-legged Hawks for the Northeast.

Coastal Region

8% of hawks, 21% of XBV, 69 hawks/day, 62 XBV/day, 11 hawks/hour

This region includes two watch sites-Lighthouse Point, along the southern shore of Connecticut, and Fire Island, a barrier beach in New York. The Coastal Region counted 8% of all hawks in the Northeast and 21% of XBV, averaging 69 hawks/day and 62 XBV/day. The XBV/day is the highest for the Northeast. Lighthouse Point had the highest counts for the Northeast for six species: Osprey (1084), Northern Harrier (263), Sharp-shinned Hawk (2136), Cooper's Hawk (1080), Rough-legged Hawk (2), and American Kestrel (1070)! This is extraordinary! Note, though, that the Harrier and Cooper's counts were below average for the site, and the Sharpie high for the Northeast is also a record low for the site. Lighthouse also counted three Short-eared Owls. Fire Island had the highest counts for the Northeast for two species: Merlin (1177) and Peregrine Falcon (216). This Merlin count is a whopping 47.4% of the whole Northeast! Fire also had site records for Osprey (836) and Bald Eagle (11), and counted three rarities: one Rough-legged Hawk and two Snowy Owls.



NorthEast Hawk Watch

RECENT YEARS for MAJOR SITES, 2007-2016 AVERAGES, and % CHANGE in 2017

XBWV=Total Hawks minus BW, BV & TV; PH=Total Hawks/Hr.; XPH=XBWV/Hr.

REGION 44

Green	nlaw I	Mount	ain -	St. An	drews	, Nev	<i>w</i> Bru	nswick	(av	e for	2009	- 2016	, % c	hango	e in 2	017)							
YR	DYS	HRS	ΒV	ΤV	OS	BE	NH	SS	СН	NG	RS	BW	RT	RL	GE	AK	м	PF	UR	TOT	хтот	PH	ХРН
2012	49	257	0	239	245	50	61	602	13	9	5	2100	332	0	0	173	48	23	79	3979	1640	15.48	6.4
2013	49	259.5	0	173	166	41	52	520	9	15	3	5405	132	0	0	200	42	12	71	6841	1263	26.36	4.9
2014	40	257.8	0	197	130	42	63	496	6	12	2	1704	148	0	1	155	44	24	70	3094	1193	12	4.6
2015	42	264.8	0	218	132	58	76	524	7	11	1	3791	106	0	1	158	35	24	83	5225	1216	19.74	4.6
2016	46	324.3	0	249	110	92	120	514	16	22	3	6990	211	1	2	147	34	11	87	8609	1370	26.55	4.2
2017	49	325.3	0	492	142	90	64	571	11	13	6	1989	151	0	2	166	34	30	102	3865	1384	11.88	4.3
ave 8	46	268	0	176	147	53	68.4	595	10.9	14	4.5	3690	193	0.1	0.63	169.3	39.63	19	78.5	5259.8	1393	19.4	5.23
%chg	7	21		179	-3	69	-6	-4	1	-7	33	-46	-22	-100	220	-2	-14	55	30	-27	-1	-39	-19
Соор	er - C	ooper,	Mai	ne (av	e for	2012	- 201	6, % c	hange	in 2	017)												
YR	DYS	HRS	ΒV	ΤV	OS	BE	NH	SS	СН	NG	RS	BW	RT	RL	GE	AK	ML	PF	UR	тот	XBWV	PH	ХРН
2012	3	12	0	16	0	0	0	0	0	0	0	4	0	0	0	5	0	0	0	25	5	2.083	0.4
2013	2	12	0	2	0	1	0	0	0	0	0	48	0	0	0	1	1	0	0	53	3	4.417	0.3
2014	2	18	0	10	0	4	0	4	0	0	0	5	0	0	0	10	0	0	8	41	26	2.278	1.4
2015	7	40	0	8	0	2	8	1	1	0	0	0	0	0	0	4	0	0	0	24	16	0.6	0.4
2016	12	57	0	31	3	15	4	6	6	0	0	20	0	0	1	6	3	0	0	95	44	1.667	0.8
2017	24	133.5	0	82	1	8	2	2	1	0	0	0	0	0	0	3	2	0	0	101	19	0.757	0.1
ave 5	5.2	27.8	0	13.4	1	4.4	2.4	2	1.4	0	0	15.4	0	0	0.2	5.2	0.8	0	1.6	47.6	18.8	2.21	0.66
%chg	362	380	*	512	67	82	-17	-9	-29	*	*	-100	*	*	-100	-42	150	*	-100	112	1	-66	-78
Cadil	lac M	ounta	in - A	cadia	Natio	onal F	Park,	Maine	(av	e for	2007	′ - 2016	,%с	hang	e in 2	017)							
YR	DYS	HRS	BV	ΤV	OS	BE	ŇĤ	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PF	UR	TOT	XBWV	PH	XPH
2012	56	247	0	43	200	58	106	750	20	10	0	665	49	2	0	634	74	28	83	2722	2014	11.0	8.2
2013	39	174	0	27	125	53	124	1007	9	5	1	1865	43	0	1	262	39	10	88	3659	1767	21.0	10.2
2014	63	315	0	148	143	73	94	762	16	8	1	646	40	1	0	481	62	31	99	2605	1811	8.3	5.8
2015	67	281	0	79	150	27	137	1127	25	5	3	360	15	0	0	613	96	18	100	2755	2316	9.8	8.2
2016	42	192	0	49	126	5/	80	582	10	3	- I	1490	3/	0	- 1	330	54	1/	120	2907	1368	15.1	7.1
2017	60	254.5	0	92	109	113	122	1120	10	2 11	3	202	63	1	1	595	33	3/	130	2360	1003	9.3	6.6
ave	35	251	0	22	164	4/	133	1138	23	11	172	959	68 7	100	100	368	/b	24 52	86 51	33/4	2340	14	9
%CHg	10	2		23	-34	139	-43	-40	-21	-02	1/3	-39	-/	-100	-100	-30	-27	33	51	-30	-20	-34	-30
Clarm		l In:		laina	1000	607.3	011	2016	0/ a.h.		:- 20	17)											
YR		HRS	BV	TV	OS	BF	NH	55	CH	NG		BW	RT	RI	GF	AK	A.41	PF	UR	тот	XRWV	РН	хрн
2012	24	175	0	341	195	131	37	499	53	5	44	6074	182	0	2	85	27	12	22	7709	1294	44 1	7.4
2012	23	174	0	504	220	180	81	547	36	3	31	13314	150	0	2	91	15	21	14	15209	1391	87.4	8.0
2014	27	227	0	422	245	192	113	749	84	4	40	8650	254	0	2	155	37	39	39	11025	1953	48.6	8.6
2015	35	248	0	569	215	334	126	792	59	7	47	17369	369	0	9	113	27	20	20	20076	2138	81.0	8.6
2016	39	296	0	594	310	313	89	597	67	4	27	12526	280	1	8	178	38	30	26	15089	1969	51.0	6.7
2017	44	328	0	/16	228	315	102	/60	49	/	34	3969	3/0	1	6	211	31	25	31	6855	21/0	20.9	6.6
aveo %cho	45	227	*	72	-6	203 54	21	20	-16	68	 	-65	65	100	4	81	20	24 6	21 48	-49	29	-65	-11
Joeng	15			, 2	U	51	27	20	10	00	0	0.5	00	100		01	,	U	10	15	25	0.5	
Harps	well	Pening	sula -	Casco	o Bav	Mai	ne (ave for	2005	-06.	2009	-2016.	% cha	nge i	n 201	7)							
YR	DYS	HRS	BV	TV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	м	PF	UR	тот	XBWV	PH	ХРН
2012	51	113.8	0	24	122	30	54	790	33	2	3	263	36	0	0	158	101	37	18	1671	1384	14.7	12.2
2013	63	90	0	17	113	21	35	436	20	0	1	1724	13	0	0	84	53	13	26	2556	815	28.3	9.0
2014	59	107	0	36	40	8	35	504	11	0	5	43	17	0	0	77	59	15	53	903	874	8.5	7.7
2015	66	130	0	63	16	7	37	464	7	0	2 8	10	20	0	0	81	41	12	27	793	720	6.1	5.6
2016	42	98	0	32	44	17	51	351	14	1	3	1695	12	0	0	83	73	15	32	2423	696	24.8	7.1
2017	50	350	0	6	55	9	12	262	15	0	3	250	9	0	0	88	62	13	18	<u>د ۲</u> ۲2	546	2.3	1.6
ave10	56	132	0	50	126	26	69	914	34		10	578	37	0	0	278	124	39	43	2782	1655	18	12
%cho	-11	165	*	-88	-56	-66	-82	-71	-56	-100	-69	-57	-76	-100	-100	-61	-50	-67	-59	-65	-67	-87	-87

REGION 43

Interl	akes	Schoo	l - Me	ereditl	h, Ne	w Ha	mpshi	ire (a	ve for	2007	7-201	6, % cł	nange	in 20	17)								
YR	DYS	HRS	BV	ΤV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	м	PF	UR	тот	XBWV	PH	ХРН
2012	2	11.5	0	16	6	2	0	9	2	0	0	609	5	0	0	1	0	0	5	655	30	57.0	2.61
2013	3	10	0	25	6	3	0	3	1	0	0	53	0	0	0	2	0	1	6	100	22	10.2	2.2
2014	2	6	0	2	1	1	0	2	2	0	0	49	0	0	0	0	0	0	1	58	7	9.7	1.2
2015	2	11	0	15	3	1	0	13	2	0	1	68	1	0	0	0	0	0	4	108	25	9.8	2.3
2016	2	6	0	10	2	5	0	5	0	0	0	163	0	0	0	0	0	0	7	192	19	32.0	3.2
2017	2	10	0	12	1	4	0	12	0	0	0	123	1	0	0	0	1	2	2	158	23	15.8	2.3
ave10	2	10	0	21	.3	2	0	1.3	2	0	0	1.3.3	1	0	0	2	0	0	.5	183	29	19	.3
%chg	-8		*	-42	-69	69	-100	-6	-100	*	-100	-8	-8	*	*	-100	175	*	-61	-14	-22	-17	-23
,					00	0.5										,			0,				
Conc	ord Se	chool	- Cor	ncord.	New	Ham	pshire	e (ave	e for 2	007-	2016.	% cha	nge ir	n 201	7)								
YR	DYS	HRS	BV	ΤV	OS	BE	NH	SS	СН	NG	RS	BW	RT	RL	GE	AK	М	PF	UR	TOT	XBWV	PH	ХРН
2012	7	18.5	0	23	0	0	0	2	1	0	2	18	6	0	0	0	0	0	16	68	27	3.7	1.46
2013	7	24	0	42	2	1	1	4	3	0	0	81	6	0	0	1	0	0	19	160	37	6.7	1.5
2014		11	0		0	. 1	0	. 1	0	0	0	39	2	0	0	0	0	0	7	59	11	5.6	1.0
2015	6	19	0	22	2	1	0	4	0	0	0	31	5	0	0	2	0	0	23	90	37	4.7	1.9
2016	6		0	15	- 0	0	0	2	0	0	0	24	2	0	0	-	0	0		48	9	5.8	1.1
2017	6	24 25	0	41	2	0	0	1	0	0	0	19	1	0	0	2	0	0	6	72	12	3.0	0.5
ave 6	7	18	0	21	1	1	0	2	1	0	0	32	5	0	0	1	0	0	15	78	25	5	1
%cho	-12	38	*	100	200	-100	-100	-57	-100	-100	-100	-41	-79	*	*	200	*	*	-60	-8	-53	-37	-64
Joeng	12	50		100	200	100	100	57	100	100	100		,,,			200			00	U	55	57	01
Carte	r Hill	- Con	cord	New	Hami	nshire	(av	e for 2	008 -	2016	5 % (hange	in 20	17)									
VR		HRS	BV	TV		RF	NH	55	СН	NG	RS	RW	RT	RI	CE	AK	мі	PF	LIR	TOT	XRWV	РН	хрн
2012	65	372	1	224	234	152	86	1276	207	28	100	3671	273	2	2	305	65	44	472	7142	3246	19.2	87
2012	75	490	0	333	165	94	66	1197	137	18	59	8915	356	0	0	307	78	17	154	11896	2648	24.3	5.4
2013	73	471	0	170	202	82	87	1151	124	14	25	4237	221	0	0	243	64	36	222	6878	2471	14.6	5.2
2014	71	553.8	0	299	134	91	81	1164	140	21	45	6274	345	0	3	171	41	23	55	8887	2314	16.0	4.2
2015	71	526.8	0	233	90	98	71	551	130	12	28	5045	169	1	3	172	62	23	130	6828	1539	13.0	2.9
2017	71	513	0	429	131	96	53	868	108	6	87	3842	224	1	5	242	51	21	114	6278	2007	12.2	3.9
2017	60	387	0	222	125	77	53	718	143	15	32	1882	178	1	1	171	53	21	244	6917	1833	12.2	5.5
%cha	10	30/	-100	85	5	21	-1	21	-25	-61	173	-21	26	80	350	171	-3	-6	-53	-10	1055	-31	-16
Jochg	15	52	-700	05	5	27	-,	21	-2.5	-07	175	-27	20	00	550	77	-5	-0	-55	-70	,	-51	-70
Pack	Mona	dnock	Pot	orbor		w Ha	mnchi	iro (wo fo	r 200	7 2	016 %	chan	no in	2017)								
VP		HRS	- Tet	TV		RF	мн			NC	PS	BW/	RT	RI BI	2017) CF	AK	мі	PF	LIR	TOT	YRW/V	рн	үрн
2012	76	600.8	0	164	314	105	91	1388	181	63	209	8848	522	1	7	19/	108	54	75	12324	3312	20.51	5 51
2012	70	575	0	142	102	103	100	1254	146	25	118	8221	378	1	11	166	80	18	37	11030	2667	10.18	1.64
2013	71	407	0	00	212	120	85	1004	126	23	122	11043	3/8	1	7	112	80	20	53	13565	2007	27.20	4 88
2014	78	586.0	0	137	213	120	125	1443	115	18	141	16503	546	1	12	112	120	57	59	10845	2425	22.21	5.21
2015	70	500.9	0	322	201	134	123 Q2	1176	163	40	117	10530	20/	1	5	167	96	/0	78	13/66	2614	25 55	4 96
2017	70	515.2	0	324	242	162	92 82	1170	1/12	16	181	8744	2.24		7	166	106	-+9 64	82	11804	2736	23.33	5 21
ave 10	67	507	0	128	219	-103 80	02 06	1235	152	10	117	9261	361		י פ	161	 	12	72	12212	2730	22.91	5.51
%cha	7	207	<i>###</i>	121	∠ 4 0	Q1	_15	1255 E	. 7	-50	55	7	504	200	Q	2	21 16	- 1 5 50	.6	12213	2/14	24	2
70CTIg	/	2	###	134	-//	04	-15	-5	-/	-59	35	-/	-0	500	-0	5	10	50	-0	-5	/	-0	-2
Dutno	v Mo	untain	Dut	nov	Vorma	nt	(2)/0	for 20(7 20	16	9/ ch/	ngo in	2017	\ \									
VD		ипсати нрс	- FUL	TV			(ave	101 200 SS	л - 20 СН	NC			2017. DT) DI	CE	٨K	M 1	DE	IID	TOT	Y R W/V/	рμ	үрц
2012	60	454	DV 0	142	267		06	1611	201	22	K 3	6122	024	1		200	62	E2	1	0966	2600	<u> </u>	0
2012	75	+34 E01	0	262	157	93	00 E 1	1102	104	22	37 2E	3773	024 111	0	9	100	دن ۸ د	32 34	1	6764	2000	12	0
2013	60	177	0	202	10/	74	51 70	1193	176	22	23	2207	500	1	4	210	34	/4 /2	0	5602	2230	12	4 6
2014	72	4//	0	33/	140	100	/0	1000	120	20	21	229/ E021	300	I	10	122	44	43	0	0023	2909	17	0
2015	/3	554	U	405	149	109	01 72	1024	129	19	28	5031	482	5	10	122	30	22	0	9250	2010	17	5
2016	- 69	554	4	425	120	152	/3	1305	101	46	30	11720	390	3	/	140	30	25	0	955/	2094	1/	5
2017		362	1	460	159	151	51	1456	105		32	11/28	428		5	101	45	32	0	7000	2033	26	5
aver0	11	454	1	253	16/	//	05	1324	120	25	35	4200	489	3	8 24	1/4	39	3Z 1	100	100	2301	10	0
170CDQ	11	24		ŏ2	-1/	112	-21	10	-1/	-/2	-9	1/4	-1.3	-/0	54	4	1/	-/	-100	109	.3	69	-10

REGION 42

Moun	t Wat	tatic -	Ashby	, Ma	ssach	usetts	(av	e for 20	007 - 2	2016,	, % с	hange	in 201	7)									
YR	DYS	HRS	BV	ΤV	OS	BE	NH	SS	СН	NG	RS	BW	RT	RL	GE	AK	м	PF	UR	TOT	XBWV	PH	XPH
2012	9	49	0	15	29	18	4	149	30	0	2	2126	2	0	0	19	5	1	15	2415	274	49.5	5.6
2013	4	30	0	4	22	17	1	19	11	0	0	3776	0	0	0	0	0	0	1	3851	71	127.3	2.3
2014	4	23	0	0	8	12	3	32	0	0	8	3388	17	0	0	13	0	1	4	3486	98	153.2	4.3
2015	16	107	0	11	72	60	8	282	79	0	2	5723	4	0	0	38	45	8	28	6360	626	59.4	5.9
2016	14	92	0	168	75	51	7	157	24	0	1	3040	2	0	0	30	6	2	30	3593	385	39.2	4.2
2017	11	84.5	0	1	51	41	14	178	33	0	0	5039	0	0	0	68	22	1	33	5481	441	64.9	5.2
ave10	11	72	0	24	64	29	9	203	28	1	5	4988	23	0	1	40	12	2	15	5442	431	84	6
%chg	4	17	*	-96	-20	44	57	-12	19	-100	-100	1	-100	-100	-100	68	86	-52	119	1	2	-23	-6
Helde	rberg	g Escai	rpmen	t - Vo	oorhee	esville	e, Ne	w York	(av	e for	2006	-09, 20)11-20	16, %	6 char	nge in	2017)						
YR	DYS	HRS	BV	ΤV	OS	BE	NH	SS	СН	NG	RS	BW	RT	RL	GE	AK	ML	PF	UR	тот	XBWV	PH	ХРН
2012	13	100	13	17	23	21	3	24	3	1	4	2981	9	0	0	14	7	7	43	3170	159	31.7	1.6
2013	7	52	29	26	23	25	4	17	3	1	0	2164	7	0	0	5	2	2	14	2322	103	44.65	2.0
2014	15	109	7	0	21	29	5	30	2	2	0	2600	4	0	0	4	1	4	65	2774	167	25.45	1.5
2015	15	104	0	0	16	35	7	27	10	0	0	1714	20	0	0	9	2	1	49	1890	176	18.17	1.7
2016	13	115	0	0	15	12	2	7	4	0	0	652	5	0	0	8	0	0	38	743	91	6.461	0.8
2017	12	75	26	40	8	17	6	12	7	0	1	907	21	0	0	5	3	4	40	1097	124	14.63	1.7
ave10	14	107	<u>_</u> 0	25	19	17	4	26	5	1	0	1513		0	0	11	3	2	28	1668	124	17.7	1.23
%chg	-12	-30	313	59	-59	-1	46	-54	52	-100	150	-40	150	*	*	-55	7	- 112	42	-34	0	-17.2	34.6
,			0.0		0.0		70						100							5.			5 110
Wach	usett	- Prir	ncetor	ı. Ma	ssachi	isetts	(av	e for 2	007 -	2016	. % (hange	in 20	17)									
YR	DYS	HRS	BV	τv	OS	BF	NH	SS	СН	NG	RS	BW	RT	RI	GE	AK	м	PF	UR	TOT	XBWV	РН	ХРН
2012	32	148.5	0	0	157	48	17	223	97	0	2	7777	4	0	0	57	16	6	99	8503	726	57.26	4.89
2012	44	269.8	1	99	169	102	30	350	75	3	5	35070	46	1	0	125	29	24	100	36229	1059	134.3	3.93
2013	48	324	5	157	239	189	29	573	115	8	12	16750	50	1	3	157	35	39	113	18475	1563	57.02	4 82
2014	10	310	2	62	205	159	23	406	86	0	18	11205	50	0	5	121	30	34	81	12/89	1220	39.15	3.82
2015	42	260.8	2	215	166	163	17	451	106	0	18	6962	64	0	0	107	32	35	125	8465	1220	32.46	1 93
2010	57	327.8	1	213	144	117	23	322	121	1	14	10348	99	0	0	132	19	37	118	11789	1147	35.97	3.5
ave10	31	192	2	53	149	82	16	284	65	1	6	9413	25	0	1	79	18	16	110	10320	852	48	
%cha	86	71	_ 2 2	119	-3	13	10	13	86	- 23	137	10	20	-100	-100	68	3	130	8	10520	35	-24	-21
Joeng	00	//	-55	775		75	71	15	00	-25	157	10	255	-700	-700	00		155	U	14	55	-27	-21
Pinna	cle R	ock -	Medfo	nd M	lassar	huset	ts (a	ve for	2007	- 201	6%	change	- in 2(017)									
YR		HRS	BV	TV	OS	BF	NH	55	сн	NG	RS	BW	RT	RI	GE	AK	м	PF	UR	тот	XBWV	РН	хрн
2012	16	78.5	0	7	28	5	2	58	24	0	1	1	9	0	0	14	7	5	11	172	164	2.2	2 1
2012	18	72.5	0	4	20	0	0	67	13	0	0	0	14	0	0	2	4	1	7	115	111	1.6	1.5
2013	22	99.25	0	8	9	5	4	146	28	0	3	0	11	0	0	- 8	5	4	20	251	243	2.5	2.4
2014	14	41 25	0	5	4	1	1	40	10	0	0	14	9	0	1	3	3	-	20	93	74	2.3	1.8
2015	18	71.5	0	6	- 6	10	5	103	42	0	1	9	0	0	0	6	6	1	10	205	190	2.5	2.7
2010	20	96.83	0	2	9	7	9	95	20	0	1	0	2	0	0	6	1	4	10	18/	182	1.9	1.0
2017	10	30.05	0	7	18	1	7	120	27	1	2	5	17	0	0	12	7		22	25.3	240	3	3
%cha	ر ، و	10	*	_7?	.51	71	20	-20 -21	21	-100	∠	_100	.99	*	-100	12 51		20	_15		240	.31	_ 28
Joeng	0	10		-75	-51	71	25	-21	,	-700	-47	-700	-00		-700	-51	-05	25	-15	-27	-27	-51	-20
Barre	Falle	Rar	re Ma	ssacl	hiisette	s (a)	/e fo	2007	- 2014	%	chang	pe in 24	017)										
VR		HPC	BV	TV		RF		<u> </u>	CH	, , , , o (pc	RW/	рт	RI	CF	ΔK	MI	PF	IIP	τοτ	X.B.W/1/	рн	хрн
2012	18	240.8	0	361	102	61	28	816	170	5	52	4730	378	1	1	174	37	20	60	71.41	2050	28.6	8.2
2012	40	102.3	0	150	110	47	20 10	/21	1/9	2	16	16110	570	0	1	76	15	12	27	17161	2050	20.0	
2014	51	238 5	0	1/1	75	72	20	491	8/	6	25	6830	151	0	1	, ປ ຊາ	17	11	46	8055	1075	33.2	- - ./ 15
2015	52	230.3	0	0/	62	/ J //2	20	272	55	2	∠_J ∧	3121	112	0	2	38	17	۰۱ ۵	-10 22	3887	756	16.6	 2.2
2015	55	204.0 010	0	200	02 / E	40	20	2/3	55	د 1	10	1100	113	0	د ۱	20 26	11	9	23 40	2126	1002	Ω7	J.Z
2010	53	243		234	20	43 E 1	27	102	60	1	10	2150	143	0	1		11	6	49	2120	617	12.2	-+.1 2 /
2017	54	200 251	2	234 247	125	52	0 21	192	110	1 E	21	2139 5121	100	0	1	125	25	11	34	7760	1626	12.2	۲.4 ۲
aver0	50	254	*	24/	71	11	32 75	/00 76	110	2) د ۱۰	5424	222	100		123	33 60	14 E6	40	/208	0201	50	62
70CTIg		/		25	-/1	-14	-/3	-/0	-43	-00	-40	-00	-57	-100	-50	-0/	-09	-30	-15	-3/	-02	-00	-02

REGION 42 continued

Shatt	erack	Moun	tain -	Russe	ell, M	assac	huset	ts (av	ve for	2007	- 20	16,%c	hang	e in 2	2017)								
YR	DYS	HRS	ΒV	ΤV	OS	BE	NH	SS	СН	NG	RS	BW	RT	RL	GE	AK	ML	PF	UR	тот	XBWV	PH	ХРН
2012	18	112	0	288	124	25	12	424	29	2	7	906	52	0	0	54	14	13	15	1965	771	17.54	6.88
2013	28	141.9	0	76	45	28	13	293	37	2	13	3216	19	0	0	47	10	8	24	3831	539	26.99	3.8
2014	32	169.3	0	170	63	15	27	517	47	2	20	8942	78	0	0	58	13	16	21	9989	877	59.02	5.18
2015	43	203	0	176	32	40	19	467	34	2	23	3009	110	0	3	47	19	5	19	4005	820	19.73	4.04
2016	39	190.3	0	491	46	15	8	299	38	3	33	1755	132	0	1	32	11	5	12	2882	636	15.15	3.34
2017	25	131.5	0	100	17	20	12	189	28	1	21	1904	58	0	0	34	11	2	5	2402	398	18.27	3.03
ave10	30	156	1	180	65	21	22	451	31	2	16	2993	81	0	1	54	10	7	17	3949	776	27	5
%chg	-16	-16	-100	-44	-74	-5	-44	-58	-9	-44	32	-36	-28	*	-100	-36	9	-73	-70	-39	-49	-32	-38
Booth	Hill	- Wes	t Har	tland,	Conn	ectic	ut (ave foi	r 2007	7 - 20	16, %	chang	e in 2	2017)									
YR	DYS	HRS	ΒV	ΤV	OS	BE	NH	SS	СН	NG	RS	BW	RT	RL	GE	AK	ML	PF	UR	TOT	XBWV	PH	ХРН
2012	2	10	0	2	6	17	1	39	1	1	0	1113	0	0	1	6	3	0	0	1190	75	119	7.5
2013	2	11	0	0	5	5	0	19	1	1	0	3526	0	0	0	2	2	1	0	3562	36	323.8	3.27
2014	2	8.5	0	4	2	3	0	6	0	1	0	1659	0	0	0	2	1	0	0	1678	15	197.4	1.76
2015	3	15	0	5	4	9	1	20	2	0	1	1454	0	0	0	3	2	1	0	1502	43	100.1	2.87
2016	3	18	0	21	11	17	0	18	0	1	0	414	0	0	0	3	0	0	0	485	50	26.94	2.78
2017	2	9	0	12	5	9	3	10	0	0	3	380	4	0	0	16	0	0	0	442	50	49.11	5.56
ave10	2	12	0	4	6	8	1	24	1	1	0	1652	0	0	0	3	2	0	0	1698	43	149	4
%chg	-5	-23	*	238	-15	13	238	-57	-100	-100	*	-77	*	*	-100	500	-100	-100	*	-74	17	-67	54

REGION 41

Middl	e Sch	nool -	Torrin	igton,	Conn	ectic	ut (ave fo	r 200	7 - 20)16, %	6 chan	ge in 1	2017)									
YR	DYS	HRS	ΒV	ΤV	OS	BE	NH	SS	СН	NG	RS	BW	RT	RL	GE	AK	ML	PF	UR	TOT	XBWV	PH	ХРН
2012	17	62.8	0	0	23	9	1	28	5	0	0	2009	0	0	0	15	4	0	19	2113	104	33.7	1.7
2013	16	72.0	0	0	13	13	0	23	11	0	0	8987	0	0	0	7	3	1	14	9072	85	126.0	1.2
2014	17	53.8	4	0	4	7	0	13	10	0	2	2185	1	0	0	4	2	0	10	2242	53	41.7	1.0
2015	15	49.8	2	7	9	7	0	4	2	0	1	1409	1	0	0	2	0	0	7	1451	33	29.2	0.7
2016	18	77.5	1	0	9	1	1	7	7	0	0	277	0	0	0	3	3	0	17	326	48	4.2	0.6
2017	13	51.5	6	0	6	7	1	5	6	0	0	890	0	0	0	6	0	0	5	932	36	18.1	0.7
ave10	18	72	3	2	18	8	2	31	13	0	3	2793	3	0	0	11	4	1	18	2909	112	41	1
%chg	-28	-28	114	-100	-67	-7	-58	-84	-53	-100	-100	-68	-100	-100	-100	-45	-100	-100	-72	-68	-68	-55	-53
Johnn	ycake	e Mou	ntain	- Burl	ingtor	n, Co	nnect	icut	(ave	for 2	007 -	2016,	% cha	nge i	n 201	7)							
YR	DYS	HRS	BV	ΤV	OS	BE	NH	\$\$	СН	NG	RS	BW	RT	RL	GE	AK	ML	PF	UR	TOT	XBWV	PH	XPH
2012	10	50	5	0	86	30	5	146	12	0	1	5905	0	0	1	47	2	2	0	6242	332	125	7
2013	11	49	0	8	59	37	0	58	3	0	0	3895	0	0	1	19	4	2	0	4086	183	83	4
2014	13	59	24	67	59	50	10	81	8	0	1	3239	6	0	0	63	2	0	0	3610	280	62	5
2015	14	58	2	4	59	40	2	58	9	0	5	1430	0	0	2	49	1	3	2	1666	230	29	4
2016	15	66	35	109	48	49	2	56	42	0	5	1010	18	0	0	46	2	2	0	1424	270	22	4
2017	6	30	13	5	27	15	3	13	5	0	2	1144	4	0	0	9	0	0	0	1240	78	42	3
ave10	9	42	8	19	43	29	3	72	11	0	1	2939	2	0	1	33	2	2	0	3166	200	83	5
%chg	-36	-29	71	-73	-38	-48	-6	-82	-55	-100	67	-61	67	*	-100	-73	-100	-100	-100	-61	-61	-49	-51
Moho	nk Pro	eserve	- Ne	w Pal	tz, Ne	w Yo	rk	(ave fo	r 200	5 - 2	012, 2	2015 - 2	2016,	% ch	ange	in 201	7)						
YR	DYS	HRS	BV	ΤV	OS	BE	NH	SS	СН	NG	RS	BW	RT	RL	GE	AK	ML	PF	UR	TOT	XBWV	PH	ХРН
2010	13	40.25	0	45	15	1	11	73	14	1	0	584	6	0	0	23	2	0	17	792	163	19.7	4.0
2011	1	4.0	0	0	0	1	0	20	4	0	1	1	1	0	0	1	0	2	0	31	30	7.8	7.5
2012	3	11.3	0	0	6	1	2	12	3	0	0	353	3	0	0	3	0	0	0	383	30	34.0	2.7
2015	39	150	0	0	46	36	12	221	20	0	10	2307	47	0	2	46	16	2	43	2808	501	18.7	3.3
2016	67	303	17	236	94	106	48	740	137	3	35	3776	250	0	1	74	32	33	16	5598	1569	18.5	5.2
2017	59	314	11	471	79	105	43	645	115	2	52	4059	305	1	7	50	28	20	19	6012	1471	19.2	4.7
ave10	24	101	2	44	31	18	16	209	29	1	6	915	63	0	1	25	6	7	19	1391	430	14	4
%chg	145	210	424	975	157	490	176	208	295	186	797	344	384	*	900	102	375	186	-2	332	242	38	15

REGION 41 continued

Chest	nut H	lill - L	itchfi	eld, C	Conne	cticut	t (a	ve for	2007	- 201	6, %	change	e in 20	017)									
YR	DYS	HRS	ΒV	ΤV	OS	BE	NH	SS	СН	NG	RS	BW	RT	RL	GE	AK	ML	PF	UR	тот	хвwv	PH	ХРН
2012	14	61	0	0	31	21	0	48	12	0	0	4048	0	0	0	18	1	0	8	4187	139	68.6	2.3
2013	15	58	0	1	26	22	0	25	3	0	0	5603	13	0	0	4	0	0	14	5711	107	98.5	1.8
2014	14	64	0	0	34	12	7	49	9	2	0	7712	12	0	1	8	1	0	10	7857	145	122.8	2.3
2015	19	89	0	2	20	39	5	39	8	0	0	4011	6	0	1	9	1	0	15	4156	143	46.7	1.6
2016	19	83.25	0	0	18	36	2	59	5	0	0	1509	1	0	0	24	0	1	16	1671	162	20.1	1.9
2017	16	74	0	0	10	17	1	27	0	0	0	1631	0	0	0	14	1	0	3	1704	73	23.0	1.0
ave10	13	61	0	0	26	17	2	48	6	0	0	3858	3	0	0	12	0	0	11	3985	126	68	2
%chg	19	22	*	-100	-61	-2	-58	-44	-100	-100	*	-58	-100	*	-100	19	150	-100	-72	-57	-42	-66	-53
White	e Men	norial	- Litc	hfield	l, Cor	necti	cut	(ave f	or 20	07 - 2	2016,	% cha	nge in	n 201	7)								
YR	DYS	HRS	ΒV	ΤV	OS	BE	NH	SS	СН	NG	RS	BW	RT	RL	GE	AK	ML	PF	UR	тот	хвмл	PH	ХРН
2012	23	53.97	0	65	9	9	9	2	7	2	21	155	15	0	1	13	33	0	11	352	132	6.5	2.4
2013	18	51.84	7	49	17	25	4	9	9	3	15	3704	10	0	0	6	37	5	17	3917	157	75.6	3.0
2014	13	23.03	0	34	8	12	0	7	21	1	23	1253	5	0	0	4	2	0	8	1378	91	59.8	4.0
2015	11	22	1	51	4	16	0	5	7	2	23	33	4	0	0	2	0	1	5	154	69	7.0	3.1
2016	12	20.42	0	0	4	7	2	7	18	0	27	15	4	0	1	7	4	0	1	97	82	4.8	4.0
2017	10	13.58		2	1	0	1	1	6	0	12	98	3	0	0	1	2	0	9	136	36	10.01	2.65
ave10	13	33	6	21	15	14	3	16	13	1	12	911	5	0	0	7	8	1	4	1037	99	30	3
%chg	-20	-59	-100	-91	-93	-100	-71	-94	-55	-100	0	-89	-41	*	-100	-85	-76	-100	114	-87	-64	-66	-11
Botsfe	ord H	ill - Bi	ridgev	water,	Conr	ectic	ut	(ave fo	r 200	7 - 20	016, 9	% chan	ge in	2017)									
YR	DYS	HRS	BV	ΤV	OS	BE	NH	SS	СН	NG	RS	BW	RT	RL	GE	AK	ML	PF	UR	TOT	XBWV	PH	ХРН
2012	13	68	0	0	67	12	7	176	2	0	0	2827	0	0	0	22	2	0	10	3125	298	46.0	4.4
2013	19	79	0	0	24	23	1	75	10	0	0	11167	0	0	0	16	4	0	18	11338	171	143.1	2.2
2014	16	68	0	0	28	21	7	74	12	0	0	3993	0	0	0	7	4	0	22	4168	175	61.1	2.6
2015	14	66	0	0	20	16	5	101	1	0	0	2778	0	0	0	4	5	1	7	2938	160	44.5	2.4
2016	13	54	0	0	14	9	3	51	4	0	0	885	0	0	0	7	5	0	11	989	104	18.5	1.9
2017	11	43.5	0	0	19	12	2	60	4	0	0	1264	1	0	0	15	6	0	10	1393	129	32.02	2.97
ave10	16	71	0	0	41	16	5	123	12	0	0	3574	0	0	0	20	3	0	17	3813	239	52	3
%chg	-32	-39	*	*	-54	-27	-62	-51	-67	*	-100	-65	233	*	-100	-25	107	-100	-41	-63	-46	-38	-10
Bear	Moun	tain -	Fort I	Montg	omery	, Nev	w Yor	k (av	/e for	2007	7 - 20	16, % (hange	e in 2	017)								
YR	DYS	HRS	BV	ΤV	OS	BE	NH	SS	СН	NG	RS	BW	RT	RL	GE	AK	ML	PF	UR	TOT	XBWV	PH	XPH
2012	54	311	0	0	95	74	14	416	41	0	11	1080	105	0	2	57	7	5	20	1928	848	6.2	2.7
2013	62	357	0	0	27	74	11	290	42	3	44	2208	126	0	1	42	13	3	7	2900	692	8.1	1.9
2014	62	335	0	0	29	76	7	287	25	0	9	727	69	2	7	40	12	1	8	1299	572	3.9	1.7
2015	70	400	0	0	56	81	10	262	27	3	9	421	102	0	7	29	5	7	17	1036	615	2.6	1.5
2016	63	338	0	0	46	142	5	141	27	1	6	333	40	0	4	35	7	11	11	809	476	2.4	1.4
2017	40	215	0	0	42	108	6	117	28	2	0	1828	9	0	0	23	2	11	13	2189	361	10.2	1.7
ave10	62	356	1	1	83	79	12	314	32	1	11	1200	115	0	5	40	8	6	14	1923	720	5	2
%chg	-36	-40	-100	-100	-50	37	-50	-63	-12	100	-100	52	-92	-100	-100	-42	-74	96	-8	14	-50	89	-16
Moun	t Pete	er - Wa	arwic	k, Nev	w Yor	k (a	ave fo	or 2007	- 201	6, %	char	nge in 2	2017)										
YR	DYS	HRS	BV	ΤV	OS	BE	NH	SS	СН	NG	RS	BW	RT	RL	GE	AK	ML	PF	UR	TOT	XBWV	PH	XPH
2012	66	412.5	4	112	191	130	47	1826	165	1	131	6073	437	0	3	232	23	20	68	9463	3274	22.9	7.9
2013	74	479.3	104	121	124	119	51	1028	64	0	118	7611	582	0	5	112	14	15	37	10105	2269	21.1	4.7
2014	72	467.8	232	570	111	79	46	1119	122	1	136	5685	658	0	10	139	23	12	69	9012	2525	19.3	5.4
2015	71	464.5	107	292	114	70	28	1017	74	0	85	11256	289	0	5	75	24	11	34	13481	1826	29.0	3.9
2016	69	487.8	84	337	98	95	35	1104	94	0	104	5894	478	0	3	52	15	13	42	8448	2133	17.3	4.4
2017	74	479.8	96	320	111	85	26	841	121	1	122	6874	232	0	4	83	18	26	36	8996	1706	18.8	3.6
ave10	68	436	77	240	153	78	48	1242	105	1	92	7324	448	0	5	141	19	15	51	10039	2398	23	6
%chg	9	10	25	33	-27	9	-46	-32	16	11	32	-6	-48	-100	-20	-41	-6	77	-29	-10	-29	-19	-36

REGION 41 continued

Chest	nut R	idge -	Bedf	ord, N	lew Y	ork	(ave	for 20	07 - 2	016,	% ch	ange i	n 2017	7)									
YR	DYS	HRS	ΒV	ΤV	OS	BE	NH	SS	СН	NG	RS	BW	RT	RL	GE	AK	ML	PF	UR	ΤΟΤ	XBWV	PH	ХРН
2012	102	723.3	70	1599	406	113	107	2122	313	12	187	6267	364	0	13	488	49	19	253	12382	4446	17.1	6.1
2013	109	747	72	2429	255	104	86	1824	258	6	499	12239	213	0	16	367	46	25	113	18552	3812	24.8	5.1
2014	93	628	102	2804	289	96	156	2216	276	6	341	6100	434	0	13	260	24	31	105	13254	4248	21.1	6.8
2015	103	702.5	119	2717	362	100	82	1532	290	4	319	6138	216	0	8	225	26	28	103	12269	3295	17.5	4.7
2016	100	670.4	64	1308	104	47	39	473	148	7	78	945	129	0	2	85	22	14	90	3555	1238	5.3	1.8
2017	84	589.1	29	3098	263	149	90	1270	373	1	494	2133	265	0	13	334	120	32	343	9007	3747	15.3	6.4
ave10	96	667	65	2068	338	87	107	1947	352	7	202	6614	299	0	7	311	41	24	153	12622	3876	19	6
%chg	-13	-12	-55	50	-22	72	-16	-35	6	-86	144	-68	-11	-100	81	7	196	31	124	-29	-3	-20	8
Hook	Mour	ntain -	Nya	ck, Ne	ew Yo	rk	(ave f	or 200	7 - 20	16, 9	% cha	nge in	2017)										
YR	DYS	HRS	ΒV	ΤV	OS	BE	NH	SS	СН	NG	RS	BW	RT	RL	GE	AK	ML	PF	UR	тот	XBWV	PH	XPH
2012	66	385	64	410	410	134	79	1872	197	4	177	2832	136	0	5	323	38	39	10	6732	3426	17.5	8.9
2013	82	506.5	48	163	272	162	125	2048	182	0	180	4933	127	0	8	208	67	39	20	8582	3438	16.9	6.8
2014	77	448	69	288	213	170	131	1910	185	3	308	5428	148	0	6	239	73	32	8	9211	3426	20.6	7.6
2015	76	432	32	416	319	197	97	1433	161	3	130	2296	79	0	10	210	82	28	12	5505	2761	12.7	6.4
2016	77	461	46	245	353	194	91	1424	207	19	165	2777	159	0	5	156	81	30	22	5974	2906	13.0	6.3
2017	72	411.5	55	124	236	190	69	1161	149	1	94	4952	55	0	3	196	65	59	6	7415	2284	18.0	5.6
ave10	73	433	50	274	301	136	113	1832	206	6	149	4928	144	0	6	222	62	31	22	8479	3228	20	7
%chg	-2	-5	11	-55	-22	40	-39	-37	-28	-82	-37	0	-62	-100	-45	-12	6	90	-72	-13	-29	-10	-26
Quak	er Rio	lge - C	Green	wich,	Conn	ectic	ut (ave fo	or 200	7 - 20	016, 9	% chan	ge in	2017)									
YR	DYS	HRS	BV	ΤV	OS	BE	NH	SS	СН	NG	RS	BW	RT	RL	GE	AK	ML	PF	UR	TOT	XBWV	PH	XPH
2012	76	578.5	20	1138	557	239	159	3316	502	3	437	18347	433	0	5	474	82	24	9	25745	6240	44.5	10.8
2013	92	760.8	15	928	470	177	165	2147	424	6	425	16188	223	0	10	484	83	33	171	21949	4818	28.9	6.3
2014	98	812	61	1661	586	210	202	3319	564	7	1046	7046	528	1	14	536	103	36	219	16139	7371	19.9	9.1
2015	102	821	47	1469	594	191	156	2160	403	4	406	5745	228	0	17	374	101	40	141	12076	4815	14.7	5.9
2016	98	732.8	24	673	461	159	104	1600	343	8	566	3484	197	0	7	284	75	28	62	8075	3894	11.0	5.3
2017	97	719.8	24	1743	321	172	86	1532	378	2	1006	3008	304	0	8	418	93	21	74	9191	4416	12.8	6.1
ave10	89	684	28	977	594	187	180	3110	473	9	443	10812	284	0	11	482	102	33	116	17839	6022	27	9
%chg	9	5	-15	78	-46	-8	-52	-51	-20	-77	127	-72	7	-100	-29	-13	-8	-37	-36	-48	-27	-53	-32

REGION 40

State	Line	- Alpi	ne, N	lew Je	rsey	(ave	e for 2	2007 -	2016,	% cł	nange	e in 201	7)										
YR	DYS	HRS	ΒV	ΤV	OS	BE	NH	SS	СН	NG	RS	BW	RT	RL	GE	AK	ML	PF	UR	TOT	XBWV	PH	ХРН
2012	56	355	62	287	331	101	48	1482	254	9	129	4544	534	0	2	340	44	23	173	8363	3470	23.6	9.8
2013	71	455	196	1126	423	93	71	1656	164	1	190	4896	304	0	4	372	37	37	155	9725	3507	21.4	7.7
2014	73	451.8	15	2428	447	78	126	2221	299	5	512	2654	634	0	1	468	59	56	185	10188	5091	22.6	11.3
2015	77	478	127	2278	857	151	86	1433	284	0	144	1613	395	0	1	333	49	52	128	7931	3913	16.6	8.2
2016	82	450	60	1311	856	160	74	1258	239	5	353	1010	539	1	1	227	61	61	106	6322	3941	14.0	8.8
2017	76	444.8	45	1628	448	219	71	818	266	2	286	1216	431	0	0	288	70	57	97	5942	3053	13.4	6.9
ave 9	52	317	54	921	404	76	54	1264	178	2	159	2311	282	0	1	268	37	43	113	6169	2883	21	9
%chg	47	40	-17	77	11	189	30	-35	49	-14	80	-47	53	-100	-100	7	91	34	-14	-4	6	-35	-24
Wildo	at Ri	dge -	Hibe	rnia, N	lew Je	ersey	(av	e for 2	2007 -	2016	5,%0	change	in 20	17)									
YR	DYS	HRS	ΒV	ΤV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PF	UR	TOT	XBWV	PH	ХРН
2012	45	307	28	44	138	89	17	741	135	0	14	5904	26		0	82	16	7	8	7249	1273	23.6	4.1
2013	48	266	28	0	84	59	11	474	71	1	22	4314	62	0	4	49	10	8	11	5208	866	19.6	3.3
2014	47	277.5	0	0	76	72	20	409	121	1	17	6465	52	0	0	77	7	5	18	7340	875	26.5	3.2
2015	54	321	11	0	82	66	15	418	107	0	16	2332	56		0	39	13	3	6	3164	821	9.9	2.6
2016	62	316	15	0	62	62	6	313	100	3	15	1264	60	0	1	32	9	2	0	1944	665	6.2	2.1
2017	40	188.5	26	0	40	23	3	129	43	0	2	502	20	0	1	14	7	6	16	832	304	4.4	1.6
ave10	52	305	41	63	117	65	20	708	124	1	17	4286	75	0	1	64	10	6	10	5607	1217	19	4
%chg	-22	-38	-37	-100	-66	-65	-85	-82	-65	-100	-88	-88	-73	*	43	-78	-30	0	54	-85	-75	-76	-59

REGION 40 continued

Monte	lair I	Hawk	Look	out - M	Montc	lair, l	New J	ersey	(ave	e for	2007	- 2016,	% ch	ange	in 20)17)							
YR	DYS	HRS	ΒV	ΤV	OS	BE	NH	SS	СН	NG	RS	BW	RT	RL	GE	AK	ML	PF	UR	тот	XBWV	PH	ХРН
2012	79	520.5	58	1514	474	194	72	1631	382	0	525	8949	489	0	2	419	108	49	100	14966	4445	28.8	8.5
2013	85	556.8	51	775	200	117	41	1178	161	0	157	8383	145	0	5	259	74	25	46	11617	2408	20.9	4.3
2014	79	534	45	757	414	182	77	1749	288	3	472	6192	165	0	1	415	87	61	21	10929	3935	20.5	7.4
2015	91	590.2	56	2067	302	120	39	1259	289	1	239	1223	118	0	1	207	107	55	59	6142	2796	10.4	4.7
2016	83	571.8	21	1044	182	102	31	671	167	2	174	1074	75	0	1	127	53	23	24	3771	1632	6.6	2.9
2017	88	670	61	2866	251	184	51	1187	321	1	418	2396	298	0	1	296	126	82	44	8583	3260	12.8	4.9
ave10	84	553	61	1255	393	130	79	1614	305	2	253	5654	272	0	2	320	89	47	64	10539	3569	19	7
%chg	5	21	0	128	-36	42	-35	-26	5	-58	65	-58	10	-100	-50	-7	42	74	-32	-19	-9	-33	-25
Wash	ingto	n Vall	ey (fr	omerl	y Chii	mney	Rock	() - Ma	rtinsv	ille, I	New	Jersey	(ave	e for 2	2007 -	- 2016,	% cha	inge	in 201	7)			
YR	DYS	HRS	ΒV	ΤV	OS	BE	NH	SS	СН	NG	RS	BW	RT	RL	GE	AK	ML	PF	UR	тот	XBWV	PH	ХРН
2012	76	556	23	89	547	310	137	2401	406	5	438	16392	454	0	15	741	237	55	24	22274	5770	40.1	10.4
2013	92	644.8	0	0	423	189	108	1948	300	2	298	17895	249	0	22	596	227	31	21	22309	4414	34.6	6.8
2014	76	613.3	0	0	362	220	164	2591	255	2	367	6472	291	0	21	880	268	3	34	11930	5458	19.5	8.9
2015	73	623	0	0	242	210	118	2083	204	0	186	2420	44	1	7	428	181	0	25	6149	3729	9.9	6.0
2016	75	614.3	0	0	272	234	73	1350	149	7	347	1807	188	0	8	316	188	0	21	4960	3153	8.1	5.1
2017	33	172.3	0	108	41	94	17	427	52	0	154	1224	63	1	5	152	35	6	0	2379	1047	13.8	6.1
ave10	74	581	9	61	437	196	152	2299	328	4	244	8306	199	1	11	678	214	74	23	13235	4860	23	8
%chg	-55	-70	-100	77	-91	-52	-89	-81	-84	-100	-37	-85	-68	25	-55	-78	-84	-92	-100	-82	-78	-40	-28

COASTAL REGION

Light	Lighthouse Point - New Haven, Connecticut (ave for 2007 - 2016, % change in 2017)																						
YR	DYS	HRS	ΒV	ΤV	OS	BE	NH	S S	СН	NG	RS	BW	RT	RL	GE	AK	ML	PF	UR	тот	XBWV	PH	ХРН
2012	97	593.3	3	297	1055	226	343	4105	1440	9	154	1724	449	2	4	1267	286	244	328	11936	9912	20.1	16.7
2013	95	681.8	39	416	715	173	282	3077	843	6	209	2676	486	3	10	906	393	147	459	10840	7709	15.9	11.3
2014	101	729.5	17	373	1190	290	403	3706	1548	9	259	475	518	0	4	1046	389	232	566	11025	10160	15.1	13.9
2015	82	631	6	696	1027	164	291	2325	849	0	62	133	186	0	4	428	250	61	297	6779	5944	10.7	9.4
2016	96	610.8	10	496	764	234	294	2434	1013	7	155	213	433	1	3	460	305	148	344	7314	6595	12.0	10.8
2017	91	588.3	12	527	1084	181	263	2136	1080	2	298	441	243	2	0	1070	277	124	377	8120	7140	13.8	12.1
ave10	94	630	10	485	1054	168	375	4272	1251	8	194	1196	543	2	6	1055	340	168	395	11520	9830	18	16
%chg	-3	-7	24	9	3	8	-30	-50	-14	-74	54	-63	-55	25	-100	1	-18	-26	-5	-30	-27	-25	-23
Fire I	sland	- Islip	, Nev	w Yor	k (a	ve fo	r 200	7 - 201	6, %	chan	ge in	2017)											
YR	DYS	HRS	ΒV	ΤV	OS	BE	NH	SS	СН	NG	RS	BW	RT	RL	GE	AK	ML	PF	UR	TOT	XBWV	PH	ХРН
2012	56	352	0	0	458	3	199	179	40	0	0	1	1	0	0	1027	1346	220	6	3480	3479	9.9	9.9
2013	68	451.3	0	1	337	5	136	111	28	0	1	0	1	2	0	484	916	156	9	2187	2186	4.8	4.8
2014	68	420	0	0	423	5	144	187	34	0	0	0	2	0	1	500	1010	177	6	2489	2489	5.9	5.9
2015	65	409.5	0	0	378	6	164	220	41	0	0	0	1	0	0	344	1064	73	2	2293	2293	5.6	5.6
2016	75	474.8	2	1	349	10	159	195	55	2	0	0	6	0	0	300	1016	121	8	2224	2221	4.7	4.7
2017	74	457	0	0	836	11	144	92	52	0	1	0	1	1	0	712	1177	216	6	3249	3249	7.1	7.1
ave10	66	434	0	0	399	4	231	280	46	1	0	0	1.7	0	0	676	1283	208	9	3140	3139	7	7
%chg	13	5	-100	-100	110	150	-38	-67	14	-100	900	-100	-41	233	-100	5	-8	4	-35	3	3	-2	-2

The Count

Our total of 148,946 hawks in 2017 is 7833 more than in 2016. That's good news! We always want more hawks! Even still, this total is 24% below our 20 year average, and 32% below the 10 year average. As you browse through the Recent History for Watch Sites, you will see the percent change of the 2017 Total Hawks compared to a 10 year average for each site. These results show that 56% of the sites had counts more than 20% below the 10 year average, 35% had counts within 20% of average, and only 9% of sites had counts more than 20% above average. So we see that the increase of 7833 hawks was not shared equally across the NEHW area.

Distribution of Hawks Across the Northeast

Record highs and record lows in the regions provide some insight towards understanding the 2017 season. Using average records per region and including the coastal sites in the regions that correspond to their latitudes, we see more record lows in the southern regions and more record highs in the northern regions. These are more evenly distributed than in 2016—a relief for watchers in the southern regions!

Likewise, the distribution of hawks per 100 hours changed from the straight line graph of 2016 to a curve that shows more hawks per 100 hours in the middle latitudes than furthest north or south. Regions 40, 41, and 42 had higher per 100 hour counts than in 2016 and Regions 43 and 44 had lower counts. This all suggests that our 2017 count was more evenly spread throughout the NEHW area than it was in 2016.

Perhaps a better way to visualize the distribution of our hawks is to standardize the counts to hawks per 100 hours in each region. On the Regional Distribution /100 Hour Table, using Peregrines (PG) as an example, we see that, in 100 hours, Region 44 counted 8 Peregrines, Region 42 counted 6, Region 40 counted 10, and Region CO counted 33. So we can conclude that the distribution of Peregrines across the NEHW area in 2017 is not uniform, but rather follows a coastal route. The Table supports what hawk watchers already knew. It also shows that the historical pattern for Peregrines persists today, even with the addition of those inland breeders that have captured the hearts of hawk watchers through the Northeast. Can the table inform us about other things that may not be as obvious?





			N	orth	East	Fall	20	17 C	Distril	outio	on: l	Haw	′ks/10	00H	r by	Reg	ion				
Reg	#Sites	Days	HRS	BV	τv	OS	BE	NH	SS	СН	NG	RS	BW	RT	RL	GE	AK	ML	PG	Total	XBV
44	5	227	1391	0	100	38	38	18	164	7	1.6	3	488	43	0.1	0.6	62	13	8	1005	417
43	5	222	1625	0	78	30	25	11	216	22	1.8	18	1505	61	0.2	1.0	36	12	7	2040	456
42	7	181	981	3	80	28	27	8	102	29	0.3	6	2115	34	0.0	0.1	31	7	6	2499	302
41	11	482	2941	8	196	38	29	11	193	40	0.3	61	948	40	0.0	1.2	39	11	6	1640	488
40	4	237	1476	9	312	53	35	10	174	46	0.2	58	362	55	0.1	0.5	51	16	10	1202	519
со	2	165	1045	1	50	184	18	39	213	108	0.2	29	42	23	0.3	0.0	170	139	33	1088	994

All numbers within the boxes are counts per 100 hours.

The table clearly shows how different the Coastal Region is from the others—all three falcons and Osprey on the coast are triple those in other regions, and the Harrier counts are double. These species definitely prefer flying near the coast. Red-tails and eagles have reduced numbers along the coast, but occur in decent numbers in all other regions. Broadwings are most prevalent in Regions 43 and 42, and Red-shoulders and Black Vultures are most prevalent in Regions 41 and 40. Sharpies, our most ubiquitous species, has a roughly uniform distribution through the NEHW area. Unfortunately, that means that hawk watchers throughout the Northeast are feeling the same absence of Sharpies that I feel when I sit atop Hook Mountain and yearn for those old numbers. What patterns do you see in the table? This is the pattern for 2017. Will the patterns be the same next year?

Any Temperature Effect?

In 2016 we found a negative correlation between hawks/100 hours and average September high temperatures in Hartford CT. Is the increase of 7833 hawks in 2017 associated with a lower temperature, as would be expected from our previous analysis? The average Sep 2017 high temperature at Hartford was 78°F, and the hawks/100 hours was 1575. This is reflected on the graph as a square. The point that represents 2016 is

graphed as a triangle, for comparison. We see that 2017 did indeed have a lower average September high than 2016, and that the two variables, hawks/100 hours and high temperature, have a strong inverse correlation (r=-0.560, p=0.0019). This does not mean that high temperatures cause reduced migration directly. But, higher temperatures may change the nature of thermals—their strength, height, or location—or the timing of migration, or even the need to migrate. If any of our readers have insight regarding thermals, please consider writing an article for our 2018 Report. We need your knowledge.





2017 Hawk Migration Report

The Hawks—2017 and Species Trends

To compare the species to each other and to our history, we arrange them in sequence from our most prevalent Broad-wings and Sharpies on the left to the least prevalent Golden Eagles and Rough-legged Hawks on the right. (Note the different scales.) Included for each species are the 2017 count (darkest bar) along with both the 37 year and 20 year averages.





Of the five most prevalent species, we see a declining trend for four: Broad-winged Hawk, Sharp-shinned Hawk, American Kestrel, and Osprey. For these species the 37 year average is larger than the 20 year average, and the 2017 count is lower than both. Other species with this same trend include Red-tailed Hawk, Merlin, Northern Harrier, Northern Goshawk, and Rough-legged Hawk. The reverse is true for Turkey Vulture for which the 37 year average is lower than the 20 year average, and the 2017 count is higher than both. This increasing trend is also evident for Red-shouldered Hawk, Bald Eagle, Peregrine Falcon, and Black Vulture. Cooper's Hawk and Golden Eagle have different patterns. These species increased from the 37 year average to a peak at the 20 year average, but had 2017 counts that are lower than both the 37 year and 20 years averages. A major change from 2016 is a switch in rank for Kestrels, which jumped from 6th place in 2016 to 4th in 2017, and Red-shouldered Hawks, which also jumped up 2 slots, from 10th place in 2016 to 8th place in 2017.

The Fall Regional Totals Table contains the 20 year counts used in the charts above. Also included in the Table is the 20 year average and the percent difference of the 2017 count from that average.

Species—One Record High, Three Record Lows, a Specialty, and One Sigh of Relief

We see from the percent difference on the Fall Regional Totals Table that four species were above average by more than 20% and nine species were below average by more than 20%, resulting in a generally below average year. A closer look reveals four records, one record high and three record lows.

Turkey Vulture—Record High

We counted 14328 Turkey Vultures (151.5/100 hr). This is a Record High count, an increase of 1255 (25.9/100 hr) over the previous high in 2015. This is not unexpected, as Turkey Vultures venture further north and populations are being established throughout the Northeast.

Our three Record Lows were Northern Goshawk (0.7/100 hr), Northern Harrier (14.7/100 hr), and Sharp-shinned Hawk (182.4/100 hr). Each had the lowest counts/100 hours since 1980. Sharp-shinned Hawk also had an actual count (17253) that is the lowest since 1980. Both Harrier and Goshawk had other years since 1980 with lower actual counts, but those years had only about half the coverage.

continued on page 26

						NORT	HEA	ST FA	ll Re	GIO	NAL 1	OTALS	5, 199	7 - 2	017						
										CC	DUNTS	5 PER 10	0 HOU	RS							
YEAR	Sites	HRS	BV	ΤV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	TOT	XBWV
1997	25	6126	2.0	45.7	102.9	8.3	27.8	574.6	47.3	2.8	18.2	1462.4	51.0	0.1	0.6	163.0	33.2	7.9	28	2576	1066
1998	29	7650	2.0	56.2	102.4	9.0	45.0	464.4	42.4	1.8	18.3	1628.3	62.0	0.3	1.3	173.6	41.8	8.0	22	2678	992
1999	31	7526	1.4	78.9	104.1	10.5	38.0	475.2	49.5	3.4	24.5	1461.0	139.0	0.4	1.4	171.6	43.7	10.4	25	2638	1097
2000	32	8349	1.9	60.9	71.7	9.7	21.8	346.5	37.3	1.6	12.0	1797.9	53.2	0.1	0.9	115.4	26.6	6.8	22	2586	726
2001	33	8349	2.8	59.6	65.7	8.6	25.9	410.0	36.3	1.7	16.0	1395.6	68.7	0.1	0.7	119.1	30.9	8.3	17	2267	809
2002	38	8020	1.8	57.5	83.9	10.8	24.5	349.3	36.8	1.3	12.3	1447.7	57.6	0.2	0.9	115.8	32.5	8.3	19	2260	753
2003	40	7930	2.0	56.6	75.6	11.4	34.5	363.6	43.5	1.5	14.5	434.8	87.0	0.3	1.0	90.2	31.5	8.9	19	1276	782
2004	39	8024	2.3	58.3	66.6	14.2	19.2	341.9	42.4	1.3	16.2	905.2	59.9	0.2	0.8	91.6	29.7	7.6	17	1674	709
2005	44	8596	5.7	64.5	68.3	13.6	20.5	345.9	49.4	1.5	14.7	1316.2	84.5	0.1	1.1	83.8	34.1	9.3	21	2134	747
2006	45	9658	2.5	65.5	78.8	13.5	29.6	367.0	47.8	1.6	18.3	936.7	56.4	0.1	1.7	80.6	32.6	9.9	17	1759	754
2007	43	10048	3.9	65.4	73.5	14.2	34.3	375.4	51.6	2.3	16.5	1027.1	55.7	0.2	0.8	85.1	31.7	10.1	17	1865	769
2008	44	10589	3.1	82.6	70.6	14.9	20.0	257.0	43.8	1.2	14.6	1388.3	53.0	0.3	1.0	54.0	24.1	11.8	15	2055	581
2009	51	10902	3.7	68.6	55.5	17.4	16.9	294.0	42.7	1.7	15.5	1049.5	48.9	0.1	0.9	65.3	26.5	11.5	19	1739	617
2010	41	10149	4.8	64.1	70.9	20.9	33.1	388.2	55.6	2.2	19.9	1136.2	61.7	0.2	1.0	96.2	40.6	13.6	28	2038	833
2011	44	10104	4.2	116.0	70.4	19.9	18.2	359.7	57.0	1.5	14.1	1861.1	49.8	0.1	0.9	70.0	26.9	11.7	20	2702	720
2012	44	9784	4.4	91.3	83.2	30.5	20.6	340.7	55.9	2.3	31.0	1655.7	78.9	0.1	1.1	87.6	30.2	10.9	23	2548	797
2013	40	10428	6.5	87.2	53.2	24.2	17.0	246.1	33.9	1.3	24.9	2366.9	48.8	0.1	1.2	55.9	23.0	7.4	18	3015	553
2014	39	9948	6.0	117.5	61.1	28.1	22.5	296.8	48.3	1.5	39.1	1438.8	61.6	0.1	1.0	68.0	25.8	9.7	22	2248	686
2015	38	10409	5.2	125.6	61.4	27.2	18.3	230.0	35.0	1.3	19.4	1201.9	39.5	0.1	1.1	44.4	23.7	5.9	14	1854	522
2016	37	9976	3.9	90.3	51.9	28.3	16.5	183.7	35.7	2.1	23.1	850.1	45.6	0.1	0.7	37.2	23.6	7.1	15	1415	470
2017	34	9457	4.3	151.5	54.1	29.4	14.7	182.4	39.4	0.7	35.3	905.6	44.0	0.1	0.7	57.5	26.2	9.9	19	1575	513
20yrAv	39	9128	3	76	74	17	25	350	45	2	19	1338	63	0.2	1	93	31	9.3	20	2166	749
% diff,	-12	4	24	100	-27	76	-42	-48	-12	-60	84.4	-32	-30	-38	-29	-38	-14	7	-5	-27	-31

BV Black Vulture, TV Turkey Vulture, OS Osprey, BE Bald Eagle, NH Northern Harrier, SS Sharp-shinned Hawk, CH Cooper's Hawk, NG Northern Coshawk, RS Red-shouldered Hawk, BW Broad-winged Hawk, RT Red-tailed Hawk, RL Rough-legged Hawk, GE Golden Eagle, AK American Kestrel, ML Merlin, PG Peregrine Falcon, UR Unidentified Raptor, XBWV Total without Broad-winged Hawks and Vultures

To find the original counts, divide by 100 and multiply by the hours. Eg: AK totals for 2016 = 57.5 / 100 * 9457 = 5437

NorthEast Hawk Watch Fall Migration Trends, 1980–2017: Vultures, Osprey, Bald Eagle



Harrier, Accipiters









NorthEast Hawk Watch Fall Migration Trends, 1980–2017: Buteos









Golden Eagle, Falcons









2017 Hawk Migration Report

Northern Harrier—more alarming than last year, watching for overdue jump up



Our Northern Harrier count of 1393 (14.7/100 hr) was a Record Low, for the 2nd year in a row. In viewing the graph from 1980 to 2017, the amount of variation in the earlier years appears larger than in the recent years. This is seen in the amount of scatter, with the points from 1980 to 1999 further apart and further from the line than the points from 2000 to 2017. To compensate for this, separate analyses have been done. While the earlier trend for Harriers shows a strong decline (r=-0.559, p=0.010), the recent trend is declining at half the rate, and is just barely significant (r=-0.483, p=0.042). That suggests that our Harrier numbers may be leveling off. Yet, it is disturbing to see declining numbers for three years in a row with no rise (the right tail of the graph). A three year decline only occurred one other time since 1980, from 1993 to 1996, and it was followed by two years of rising counts. This gives us hope that next year will be better for Harriers once again. But, to some extent the reduced variation since 2010 suggests that the big jumps up may no longer be happening. So, the question is: "Will the historical pattern prevail and our Harriers jump up once again?" The short term model predicts 1640 Harriers in 2018, which is near our 2016 count. Considering our Harrier history, I'm hoping for 2200-a modified jump up, back to 2014. We need the jump, and it is overdue!



Sharp-shinned Hawk—still sounding the alarm!

The bad news: This is our 3rd year in a row with a Record Low for Sharp-shinned Hawks! From 2014 to 2015, our Sharpies per 100 hours dropped from 297 to 230, a 23% decline in one year. From 2015 to 2016 it dropped from 230 to 184, a 20% decline. Then came 2017, and...

The good news, if a Record Low can ever be good: This year's drop, from 184 to 182, is enough to call it a Record Low, but is essentially no drop at all. The 2017 count is the same as 2016—thankfully! The actual Sharpie count went from 18326 in 2016 to 17253 in 2017, undoubtedly a consequence of the 518 fewer hours of coverage this season. So, our Sharpies are at approximately the same count as last year, except the recent trend is stronger than it was last year (r=-0.746, p=0.0004). The model predicts 226 Sharpies/100 hr in 2018. If that happens, we would be back to 2015. The decline would still be threatening, but at least we would have a small reprieve.

Northern Goshawk—Sudden Drop to Record Low



We counted only 68 Northern Goshawk this season, a drop from 205 in 2016 and 134 in 2015. This is a sudden and unexpected change and difficult to explain. A graph of the Goshawks per 100 hours clearly shows that 2017 was the first time since 1980 that the number of Goshawks dropped below 1 in 100 hours. However, a careful examination of the graph provides some reassurance that the Goshawks will recover. There are a number of sudden drops—2012 to 2013, 2007 to 2008, 1999 to 2000, 1993 to 1994, and others that are not as dramatic. So, this year's drop does not seem too far out of place. It might be that a larger contributing factor to the Record Low is the overall decline, which is significant in spite of the extensive variation (r=-0.535, p=0.0005).

To understand our fall counts of Goshawk, we should consider the question of just what our counts actually represent. David Brinker has concluded from his studies that Appalachian Goshawks are year-round residents, and suggests that hawk watches monitor post-breeding dispersal. (https:// www.nrs.fs.fed.us/pubs/gtr/gtr-p-64papers/21-brinker-p-64.pdf 2009) If Dave's conclusion about the Appalachian Goshawks is correct for our Northeast birds, then unsuccessful breeding of local pairs could certainly lower our counts. We can expect breeding success or absence thereof to contribute to the extensive variation we see in the scatter of points on the graph. But, our sudden drop in 2017 occurred across all Regions, suggesting that there is something beyond normal breeding success at play. Dave lists a number of factors, including West Nile, loss of hemlocks, and fisher predation as possible contributing factors to a declining Appalachian population during 2001-2008. It makes sense that habitat issues and increased predation could be contributing factors for the general decline of our Goshawks here in the Northeast, and perhaps zoonosis contribute to the sudden drops. Without careful studies we can only speculate, wonder, and wait for the 2018 results to see how big a rebound we get. But, truth be told, when I see my next Gos, I plan to enjoy her fierce look as she zooms past my left ear heading for a tasty lunch! I probably will wonder how far she's roamed from her natal grounds. But I will definitely cherish the 1-in-100 hour experience!

Swainson's Hawk—a New Brunswick specialty

Two Swainson's Hawks were counted at Greenlaw Mountain, on Sep 30 and Oct 22. While not seen elsewhere in our NorthEast count region, Swainson's was seen at a number of locations in New Brunswick, north and east of Greenlaw Mountain, from as early as Sep 9 to as late as Dec 11. There were 10 sightings, on Sep 9 - Oct 14, in the Perce, Cap-d'Espoir region; two sightings, on Sep 24-25, in Albert NB; five sightings, on Oct 3-9, near Miscou Lighthouse; and 14 sightings, on Nov 28-Dec 11, near Sackville and Nova Scotia. https://ebird.org/ view/checklist/S39824319. All sightings seem to be of the same morph described at the watch on Oct 22: An "immature intermediate morph Swainson's Hawk passed almost directly over the watch at moderate altitude, pausing to soar overhead for several minutes." http://hawkcount.org/month summary. php?rsite=686&ryear=2017&rmonth=10 Since there were sightings at Sackville in December, either this individual circled back to the north and east, or there were indeed more than one Swainson's Hawks in New Brunswick in 2017.

American Kestrel—sigh of relief, but 'Kestrel caution'

Thankfully, our 5437 American Kestrels (57.5/100 hr) did not make the record low category in 2017. In fact, this count is higher than counts in four other years. We can breathe a sigh of relief for Kestrels! But, they are still 38% below the 20 year average and 65% below the 37 year average. So, we need to keep watch with some 'Kestrel caution', accept a lower ranking for this species that ranked 3rd for decades, and hope that the population rebounds further.

NEHW Watch List—a new measure

We are at a time in the history of raptor conservation when several of our historically most prevalent species are declining and their future migration numbers are uncertain. The following table is intended to help us keep their decline in perspective.

NEHW W	atch List:	Declining	Species												
	2015	2016	2017	WL	Status										
Sharp-shinned Hawk	1	✓	~	3	м										
Northern Harrier	Northern Harrier 4 🖌 🖌 6 M American Kestrel 🖌 Ý 5 7 M														
American Kestrel	1	1	5	7	м										
Northern Goshawk	4	20	~	25	R										
Red-tailed Hawk	1	2	2	5	xCS										
Osprey	3	1	3	7	xFS										
Check mark indicates a Re low when record low = 1. risk of continued declines i x=population not threatene	cord Low year. WL= sum of all in migration cou od, CS=climate s	The numbers inc years: Species v nts. Status: M=n hift, FS=flyway s	licate the rank a with lower WL a nigrant, R=reside shift	bove ree re at gre ent,	cord ater										

This table includes the species that have had Record Low counts per 100 hours in the last three years. Discussions for these species can be found in the NEHW Report for the year of the Record Low, indicated by a check. (See: http://www.battaly.com/nehw/reports/NEHW2015.pdf and http://www.battaly.com/nehw/reports/NEHW2016.pdf) For the years when a species did not have a record low, the number indicates the rank for that year's count relative to the Record Low up to that year. For example, the Harrier count in 2015 was the 4th lowest count since 1980; there were three years before 2015 with lower Harrier counts than in 2015. The WL column is a simple sum of the ranks for that species, using a rank of 1 for the Record Low.

The Watch List provides an unbiased look at the species status regarding risk of decline, with the lowest numbers at the greatest risk. However, this is a measure of declining migration numbers, and requires interpretation as regards population changes. For example, neither Red-tailed Hawk (WL5) nor Osprey (WL7) is really at risk of declining populations. The Redtail decline in migration is most likely a response to a warming climate, resulting in more overwintering in the NorthEast. The Osprey decline in migration is localized to inland sites in the NorthEast. In the last five years, about 25% of the Osprey flew past our coastal sites, whereas in 2017 that increased to 37.5%. So, for Osprey, instead of a population decline we have a flyway shift to the coast. (See also the 2015 and 2016 NEHW Reports for Drew Panko's articles on Bald Eagles and Osprey. Jain MacLeod, an Osprey researcher and our Design and Production Editor, included some of his research in the 2016 Report.)

This is not the case for Sharp-shinned Hawk (WL3), our most at-risk species. Our Sharpie decline merits further study for a better understanding of its cause. Until we know otherwise, three years of Record Lows is alarming! So, the Watch List is intended to stimulate investigation and consideration of raptor ecology and how it relates to migration, and to sound an alarm if warranted.

	BROAD-WINGE	D HA	W K	COM	PARA	TIVE	COL	JNTS	5 DUI	ring	FLIC	CHT I	PERIC	DD, F	ALL	2017	
Reg	Site (total BW>50)	9/8	9/9	9/10	9/11	9/12	9/13	9/14	9/15	9/16	9/17	9/18	9/19	9/20	9/21	9/22	9/23
	Greenlaw Mt NB	502	564	196	46	48		2					346	27	4	11	0
	Cadillac Mt ME	0	2	84	289	6	3	0	13	0	0	0	0	0	6	0	1
44	Clarry Hill ME	13	137	1860	846	216	71	15	0	12	12	0	12	59	66	12	484
	Harpswell Pen ME	0	5	34	70	0	0	0	1	0	0	0	0	0	57	5	1
	Interlakes School NH					55	68										
42	Carter Hill NH	15	53	447	137	140	297	534	691	629	249	0	55	29	431	34	13
43	Pack Monadnock NH	4	843	1219	235	160	1373	32	459	1241	945	10	14	0	1836	205	61
	Putney Mountain VT	40	172	81	76	631	279	1193	979	3021	2218	597	747	553	777	204	38
	Mount Watatic MA		342	1395	290	1149	466	24		222	170				641	305	35
	Helderberg NY	0	5	34	70	0	0	0	1	0	0	0	0	0	57	5	1
42	Wachusett MA	8	803	516	4894	3008	301	27	30	56	67	0	0		344	27	23
42	Barre Falls MA	615	635	445	2	25	43	1	188	9	1	2	0	0	2	1	30
	Shatterack Mt MA	7	61	174	49	603	236		33		65	60		3	495	113	4
	Booth Hill CT		178				202										
	Middle School CT	0	5	118	155	339	203		11		49	0			4	6	0
	Johnnycake Mt CT		16	462	505		93		38		30						
	Mohonk NY	14	21	37	96	58	70		572	1224	917	743	68	130	30	46	10
	Chestnut Hill CT	18	45	221	601	264	115		23	6	26				223	55	0
	White Memorial CT	0			21	0	19		13			2		0	1	41	
41	Botsford Hill CT			25	495	395	28	6	54	1	12				151	95	2
	Bear Mountain NY	0	0		17	873	90	5	324	5	171	4	4	0	143	186	3
	Mount Peter NY	42	12	230	289	392	922	41	493	448	1140	609	10	71	1764	238	36
	Chestnut Ridge NY	13	197	459	361	194	54	0	44	35	148	40	14	4	226	212	24
	Hook Mountain NY	3	21	100	839	377	11	0	170	8	1	87	0	0	42	3164	25
	Quaker Ridge CT	15	594	732	639	54	17	0	32	138	119	16	5	12	85	344	21
	State Line NJ	5	118	68	265	107	33	0	93	4	8	8	2	2	85	229	29
40	Wildcat Ridge NJ		7		25	71	0	4	83	113	160	1	8	2	4	3	12
	Montclair NJ	7	133	357	71	51	3	1	35	9	5	11	18	4	19	1308	9
	Washington Valley NJ	25	282	278	50	33								17	117	340	38
CO	Lighthouse Point CT	0	70	58	16	0		0	0	17	1	0	0	9	20	51	14
	TOTALS	1346	5321	9630	11449	9249	4997	1885	4380	7198	6514	2190	1303	922	7630	7240	914

Broad-winged Hawks—seen at more watches

In 2017, watchers from all over the NorthEast counted 85,646 Broad-winged Hawks, 845 more than counted in 2016. This is a difference of only 1%, so it should not have made much difference in how the season went. Yet, for those in the middle and southern portions of the NorthEast, 2017 was so much better than 2016—the year of the Broadwing drought. For the northern sections, however, 2017 was a year with substantially fewer Broadwings. Broadwings are still 32% below the 20 year average and still in decline, so this was more a matter of where the Broadwings were sighted, and at what densities.

There were 14 days, from Sep 10 to Sep 22, when the daily Broadwing count across the NEHW area was 1000 or more. Like the last two years, there were three peaks. Unlike the last two years, peak values were lower and broader, with more than one day associated with each peak. This was also true for the two sites with more than 10,000 total Broadwings, Putney Mountain (11728) and Wachussett (10348). There were three additional sites with more than 5000 for the season—Pack Monadnock (8744), Mount Peter (6874), and Mount Watatic (5039).





Last year's chart of Grand Counts showed how the daily site counts greater than 1000 were distributed across the regions for both 2015 and 2016. A higher proportion of Grand Counts occurred in the northern regions in 2016 than in 2015. An update to that chart shows the 2017 distribution is different from both of the previous years, with more Grand Counts in the southern and middle regions than in 2016, and a decline of Grand Counts in Region 44. Region 43 is the winner, with a continually increasing proportion of Grand Counts since 2015.

With only five sites counting more than 5000 Broadwings in 2017, compared to seven in 2016 and nine in 2015, we see a distribution shift from very large numbers at some sites to smaller numbers at more sites. In 2015 and 2016, sites with more than 5000 hawks accounted for 64% of the total Broadwing count. In 2017 this dropped to 50%. The Broadwings were more widely distributed across the 34 watch sites than in other years. One way to evaluate the distribution of Broadwings across the NorthEast is to look at the percentage of each day's count occurring in each region.

The table below shows the percentage of Broadwings that occurred in each region on each of the 16 days from Sep 8 to Sep 23. For example, on the peak day of Sep 11, 46% of all the Broadwings counted in the NorthEast were in Region 42, and 35% were in Region 41. Whereas, on Sep 19, 63% of all Broadwings were counted in Region 43. We see an expected distribution of Broadwings inland near ridges and where thermals develop. Also included on the table are the regional percentage of total Broadwings for each of the last three years. Contrary to the proportion of Grand Counts, this percentage of actual counts shows Region 41 as counting the highest proportion of Broadwings for two of the three years, and tied for the third! Since it had the highest percentage on only two of the 16 days, this is undoubtedly due to the larger number of watch sites in Region 41. Clearly, all our watch sites are important contributors to our total Broadwings. Keep up the great work, all of you! We need your continued help!

			F	PERCE	ENTA	ge of	BRO	AD-V	VING	ED H/	WKS	σοι	INTE) in e	ACH	REGI	ON		
REG	9/8	9/9	9/10	9/11	9/12	9/13	9/14	9/15	9/16	9/17	9/18	9/19	9/20	9/21	9/22	9/23	2017	2016	2015
44	38	13	23	11	3	1	1	0	0	0	0	27	9	2	0	53	7	27	17
43	4	20	18	4	11	40	93	49	68	52	28	63	63	40	6	12	29	26	23
42	47	38	27	46	52	25	3	6	4	5	3	0	0	20	6	10	24	16	22
41	8	17	25	35	32	32	3	41	26	40	69	8	24	35	61	13	33	25	31
40	3	10	7	4	3	1	0	5	2	3	1	2	3	3	26	10	6	6	6
CO	0	1	1	0	0	0	0	0	0	0	0	0	1	0	1	2	0	0	0



A better way to understand the distribution of Broadwings in the NorthEast is to visualize it using a geographic display. Check out the maps of Broadwings on Sep 10-12, our three largest flight days.





The white circles on the maps indicate the Broadwings counted at those locations. The larger the circle, the larger the count. Starting with Sep 10, we notice that the flight was spread across the whole NorthEast, from New Jersey to Maine, with a small flight at Greenlaw Mountain in New Brunswick. On Sep 11, the flight builds with even more Broadwings in western Connecticut and a billowing count in north central Massachusetts—that was the 4894 at Wachusett. On Sep 12 the flight subsides slightly, with many of the larger flights reduced, except at Putney Mountain in south eastern Vermont, which is waking up. To see a video of the day to day migration changes, in color, check the NEHW web site, http://www. battaly.com/nehw/reports/2017/BW_migration.htm

One intuitive expectation is that the migration should be from north to south. To some extent this is dispelled—even the first day of the migration has Broadwings across the whole NorthEast. Yet, a check of the next peak, Sep 16-17, shows almost no Broadwings in Maine. It continues to show Putney Mountain with consistent counts, and more Broadwings in the south on the 2nd day.







NorthEast Hawk Watch

The 3rd peak, Sep 21-22, once again shows a broad distribution, with low counts in Maine and north. So, it seems the 2nd and 3rd peaks were past the time of migration in the most northern portion of the Northeast. Our intuition is right after all. The 2nd day, Sep 22, lends even more support, with the predominant migration clustered in the southwest—that was the 3264 at Hook Mountain. On closer inspection, an additional movement, from east to west, is suggested by this data. The counts at our western most sites—Putney, Mohonk, and Mount Peter—are larger on the later peaks, and especially the last day of the first two peaks, when the Broadwings were still passing through the middle regions.

Several questions arise from the maps. First, why is the migration mostly along a line from northeast to southwest? That's easy to answer—our watch sites are located along that line. We do not have any sites to the southeast near Rhode Island or to the northwest near Burlington. Other questions: Why were the counts at Clarry Hill and Greenlaw Mountain so much lower this year than last? Could it be that the flight was west of those areas this season? If so, were Pack Monadnock, Wachusett and Watatic successful at picking up any of these hawks? Or did we miss hawks that flew through northern New Hampshire and Vermont and never reached any of our sites?

While we won't be able to answer these questions unless we add more watch sites, we are grateful to all those who have collected the data. As we use your data to understand our raptors, we are reminded of the fun we have each migration season observing the phenomenon of migration—kettles of circling Broadwings rising up high overhead, then heading west-southwest for one more year of nature's wonder. You are helping us track the wonder!





2017 Hawk Migration Report

Daily Counts at Northeastern Watch Sites, Fall 2017

			Gr	eenla	w N	loun	tain,	Fall	201	7 - Si	t. And	rew	s, N	۱ev	v Brun	iswic	k			
Date	HRS	BV	TV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	Othr	TOTAL
8/24	8.0	0	0	6	4	0	3	1	0	0	6	0	0	0	2	0	0	0	0	22
8/25	8.0	0	0	11	5	5	4	0	0	0	10	1	0	0	0	0	0	- 1	0	37
8/26	8.0	0	0	11	5	4	7	0	0	0	129	3	0	0	3	0	- 1	1	0	164
8/27	2.0	0	0	3	0	0	1	0	0	0	5	0	0	0	0	0	0	0	0	9
8/31	5.5	0	0	9	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
9/1	8.0	0	0	6	- 1	5	0	0	0	0	0	1	0	0	3	0	0	4	0	20
9/2	3.0	0	0	3	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	6
9/3	3.0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	4
9/7	3.0	0	0	4	1	1	2	0	0	0	2	0	0	0	0	0	0	0	0	10
9/8	3.5	0	0	10	4	0	8	0	0	0	502	1	0	0	9	1	0	2	0	537
9/9	8.0	0	0	8	- 1	5	45	0	0	0	564	3	0	0	13	0	0	9	0	648
9/10	8.0	0	2	7	2	2	59	0	0	0	196	2	0	0	11	1	0	5	0	287
9/11	8.0	0	0	2	0	3	59	0	0	0	46	0	0	0	12	1	0	7	0	130
9/12	8.0	0	0	8	0	2	33	2	0	0	48	0	0	- 1	5	0	0	3	0	102
9/14	3.0	0	0	5	0	0	13	0	0	0	2	0	0	0	2	0	0	0	0	22
9/19	4.8	0	8	6	1	6	17	1	0	0	346	1	0	0	16	0	0	3	0	405
9/20	8.5	0	4	8	4	0	10	0	0	0	27	1	0	0	13	1	0	3	0	71
9/21	8.0	0	0	2	0	1	9	0	0	0	4	1	0	0	3	2	1	1	0	24
9/22	4.0	0	0	1	- 1	0	2	1	0	0	11	1	0	0	0	0	1	- 1	0	19
9/23	2.0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
9/24	7.0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	2
9/26	2.0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
9/27	9.5	0	2	14	4	0	7	0	1	0	38	1	0	0	6	4	3	5	0	85
9/28	10.0	0	2	1	- 1	1	19	0	0	0	41	10	0	0	23	7	7	6	0	118
9/29	10.0	0	13	4	3	1	13	1	0	1	9	0	0	0	4	1	2	- 1	1	54
9/30	9.0	0	7	0	0	0	7	0	0	0	0	1	0	0	0	0	1	0	0	16
10/1	10.0	0	1	2	2	3	10	0	0	1	0	3	0	0	9	0	0	0	0	31
10/4	8.5	0	5	3	7	1	6	0	2	0	0	3	0	0	1	1	4	2	0	35
10/5	6.0	0	0	0	- 1	3	8	0	0	0	0	0	0	0	0	0	0	0	0	12
10/6	6.0	0	0	1	- 1	1	8	1	0	0	0	0	0	0	2	0	0	2	0	16
10/9	9.0	0	0	0	3	2	14	2	0	0	0	2	0	0	2	2	0	- 1	0	28
10/10	9.0	0	142	0	9	1	35	1	2	1	0	7	0	0	11	5	5	8	0	227
10/11	9.0	0	38	1	2	3	45	0	0	1	3	11	0	- 1	8	0	1	6	0	120
10/12	6.5	0	18	1	0	1	17	0	1	0	0	4	0	0	0	0	0	2	0	44
10/15	8.0	0	19	0	8	2	11	0	0	0	0	8	0	0	3	0	1	2	0	54
10/16	8.8	0	62	1	0	1	20	0	2	0	0	26	0	0	2	0	0	7	0	121
10/17	8.0	0	2	1	3	0	0	0	1	0	0	2	0	0	0	2	0	0	0	11
10/19	8.3	0	0	0	1	0	3	0	1	0	0	0	0	0	1	1	0	1	0	8
10/20	9.0	0	66	0	1	2	40	0	1	1	0	11	0	0	1	0	1	2	0	126
10/21	9.0	0	51	1	1	1	16	1	0	1	0	5	0	0	0	3	0	4	1	85
10/26	6.0	0	13	0	5	1	4	0	1	0	0	1	0	0	0	0	1	1	0	27
10/27	6.5	0	0	0	0	0	5	0	0	0	0	3	0	0	0	0	0	1	0	9
10/31	5.5	0	12	0	1	2	0	0	0	0	0	8	0	0	0	1	0	0	0	24
11/3	7.5	0	12	0	1	1	2	0	1	0	0	17	0	0	1	0	0	5	0	40
11/6	7.0	0	0	0	1	3	3	0	0	0	0	3	0	0	0	0	0	1	0	11
11/7	6.5	0	13	0	2	0	1	0	0	0	0	5	0	0	0	0	0	0	0	21
11/10	2.5	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	3
11/13	4.0	0	0	0	1	0	0	0	0	0	0	4	0	0	0	0	0	1	0	6
11/14	3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	325.3	0	492	142	90	64	571	11	13	6	1989	151	0	2	166	34	30	102	2SW	3865

				Cadi	llac	Moi	Intain	20	17 -	Acad	ia Na	tion	al	Pai	rk, Ma	ine				
Date	HRS	BV	TV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	Othr	TOTAL
8/16	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/17	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19	3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/20	5.0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	0	4
8/21	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/22	5.0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	3
8/23	5.0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
8/24	4.3	0	1	1	4	3	4	0	0	0	10	2	0	0	1	0	0	8	0	34
8/25	3.0	0	0	8	- /	1	2	0	0	0	0	0	0	0	1	0	0	0	0	19
8/2/	5.0	0	5	1	4	2	4	2	0	0	62	1	0	0	0	0	1	5	0	95
0/20	4.0	0	15	0	1	1	2	0	0	0	0	- 1	0	0	1	1	0	1	0	25
8/30	5.0	0	13	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
8/31	0.0	0	- 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9/1	4.8	0	0	5	1	2	1	0	0	0	3	0	0	0	4	0	1	1	0	18
9/2	5.0	0	1	9	6	3	15	0	0	0	4	0	0	0	5	0	0	4	0	47
9/3	4.5	- 0	0	0	0	- 0	1	0	0	- 0	0	-	0	0	1	0	0	5	- 0	7
9/4	5.0	0	3	0	2	0	0	0	0	0	7	0	0	0	1	0	0	1	0	14
9/5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/6	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8	4.0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
9/9	6.0	0	3	5	6	1	8	2	0	0	2	- 1	0	0	8	2	1	4	0	43
9/10	6.0	0	1	14	8	14	84	1	1	2	84	2	0	0	84	4	4	9	0	312
9/11	6.3	0	1	14	5	9	129	1	0	0	289	3	0	0	108	9	0	11	0	579
9/12	5.5	0	0	2	0	2	62	0	0	0	6	0	0	0	6	2	0	7	0	87
9/13	5.3	0	0	2	1	3	107	1	0	0	3	3	0	0	8	1	0	12	0	141
9/14	4.3	0	0	0	0	0	15	1	0	0	0	0	0	0	0	- 1	0	6	0	23
9/15	4.3	0	0	0	1	0	3	0	0	0	13	0	0	0	2	2	0	2	0	23
9/16	5.0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9/17	3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/18	3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21	5.0	0	5	8	2	4	25	0	0	0	6	1	0	0	3/	4	1	8	0	99
9/22	4.0	0		2	2	2	9	0	0	0	1	1	0	0	4	1	1	0	0	24
9/23	5.0	0	0	0	0	1	7	0	0	0	1	0	0	0	0	1	0	0	0	14
9/25	5.0	0	0	0	1	1	,	2	0	0	0	0	0	0	1	0	0	0	0	14
9/26	5.0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	6
9/27	5.5	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
9/28	6,8	0	0	10	8	3	3	1	0	0	27	0	0	0	19	3	13	9	0	96
9/29	5.3	0	0	6	12	2	36	4	0	0	55	3	0	0	16	2	1	5	0	142
9/30	5.5	0	6	2	0	3	23	1	0	0	0	9	0	0	35	3	4	4	0	90
10/1	5.0	0	2	5	3	0	2	0	0	0	0	0	0	0	1	0	1	2	0	16
10/2	6.5	0	4	3	13	5	35	1	0	0	10	5	0	0	25	3	4	7	0	115
10/3	5.0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	7
10/4	5.0	0	2	1	1	0	0	0	0	0	0	- 1	0	0	0	0	0	0	0	5
10/5	4.0	0	1	1	1	1	1	0	0	0	0	- 1	0	0	0	0	1	0	0	7
10/6	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7	5.5	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	8
10/8	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/9	2.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/10	4.0	0	1	1	2	2	3	0	0	0	0	0	0	0	1	0	0	2	0	12
10/11	6.0	0	2	3	4	5	36	1	0	0	1	7	0	0	12	12	2	6	0	91
10/12	4.0	0	2	0	1	2	9	0	0	0	1	2	0	0	2	0	1	0	0	20
10/17	4.0	0	1	0	1	0	25	0	0	0	0	0	0	0	6	2	0	2	0	37
10/20	3.0	0	3	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5
10/21	4.0	0	5	0	6	- 1	2	0	- 0	1	0	5	0	0	3	0	0	2	0	26
60	254 5	0	5	100	112	75	683	19	- 1	3	585	63	0	0	395	55	37	130	0	25
00	234.3	U	72	109	113	13	005	10	- 4		202	0.5	U	0	373	- 33	3/	1.50	U	2000

				Ha	arps	well	Peni	nsula	ı Fa	II 201	7 - C	asco	Ba	ay,	Maine	e				
Date	HRS	BV	TV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	Othr	TOTAL
9/1	7.0	0	0	4	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	6
9/2	7.0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9/3	7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8	7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9	7.0	0	0	4	0	0	5	0	0	0	5	0	0	0	1	1	0	1	0	17
9/10	7.0	0	1	4	0	0	7	0	0	0	34	0	0	0	10	1	0	2	0	59
9/11	7.0	0	0	10	0	1	50	1	0	0	70	1	0	0	32	13	1	0	0	179
9/12	7.0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
9/13	7.0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	1	0	0	0	5
9/14	7.0	0	0	2	0	1	2	0	0	0	0	0	0	0	1	1	0	0	0	7
9/15	7.0	0	0	3	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	5
9/16	7.0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	2
9/17	7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	- 0	0	- 0	- 0
9/18	7.0	0	- 0	- 0	0	0	-	0	0	0	0	0	0	0	-	0	- 0	0	0	- 0
9/19	7.0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	4
9/20	7.0	0	0	3	0	1	0	0	0	0	n	n	0	0	0	0	0	0	0	4
9/21	7.0	0	3	2	2	0	55	2	0	0	57	1	0	0	8	2	0	1	0	133
9/22	7.0	0	0	1	-	2	6	0	0	1	5/	0	0	0	3	0	0	0	0	18
9/22	7.0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	10
0/24	7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
9/24	7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/25	7.0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9/20	7.0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/2/	7.0	0	0	0	2	0	25	0	0	0	56	1	0	0	0	10	0		0	122
9/20	7.0	0	0	0	2	0	25	9	0	0	50		0	0	5	16	4	2	0	132
9/29	7.0	0	0	1	0	0	2	0	0	0	19	1	0	0	0	1	0	0	0	23
9/30	7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		0	0	0	2
10/1	7.0	0	0	0	0	0	1	0	0	0	0	0	0	0	0		0	1	0	5
10/2	7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
10/3	7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	1
10/4	7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
10/5	7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/6	7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/7	7.0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	2	0	6
10/8	7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
10/9	7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	1
10/10	7.0	0	1	6	0	0	22	2	0	1	1	1	0	0	2	2	1	3	0	42
10/11	7.0	0	0	2	1	0	2	0	0	0	0	0	0	0	0	0	1	0	0	6
10/12	7.0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
10/13	7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/14	7.0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2
10/15	7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/16	7.0	0	0	1	2	3	65	1	0	1	1	3	0	0	22	19	0	2	0	120
10/17	7.0	0	1	0	1	0	7	0	0	0	0	0	0	0	0	0	0	0	0	9
10/18	7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/19	7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/20	7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/21	7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/22	7.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	3
10/23	7.0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
10/24	7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	350.0	0	6	55	9	12	262	15	0	3	250	9	0	0	88	62	13	18	0	802

Date IME SV VI OS BE MI SS LI NG RS RI R RI R								Cla	arry H	till F	all 2	017	- Unio	on, N	۸ai	ne						
NAZ6 9.0 0 1 5 5 1 2 1 0 1 20 1 0 0 3 0 0 3 0 </th <th>Date</th> <th>HRS</th> <th>BV</th> <th>ΤV</th> <th></th> <th>OS</th> <th>BE</th> <th>NH</th> <th>SS</th> <th>CH</th> <th>NG</th> <th>RS</th> <th>BW</th> <th>RT</th> <th>RL</th> <th>GE</th> <th>AK</th> <th>ML</th> <th>PG</th> <th>UR</th> <th>SW</th> <th>TOTAL</th>	Date	HRS	BV	ΤV		OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	SW	TOTAL
BA/26 8.5 0 0 5 9 4 2 1 0 0 28 3 0 0 1 0<	8/25	9.0	0		1	5	5	1	2	1	0	1	20	1	0	0	3	0	0	0	0	40
8/30 5.0 0 0 0 1 1 1 0 <td>8/26</td> <td>8.5</td> <td>0</td> <td></td> <td>0</td> <td>5</td> <td>9</td> <td>4</td> <td>2</td> <td>1</td> <td>0</td> <td>0</td> <td>28</td> <td>3</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>53</td>	8/26	8.5	0		0	5	9	4	2	1	0	0	28	3	0	0	1	0	0	0	0	53
9/1 5.5 0 0 3 2 0 1 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 <td>8/30</td> <td>5.0</td> <td>0</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>1</td> <td>0</td> <td>2</td>	8/30	5.0	0		0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2
9/2 8.0 0 0 1 4 1 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 0 1 1 0 <td>9/1</td> <td>5.5</td> <td>0</td> <td></td> <td>0</td> <td>3</td> <td>2</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>7</td>	9/1	5.5	0		0	3	2	0	1	0	0	0	0	0	0	0	0	1	0	0	0	7
99 9.0 0 0 5 6 2 10 3 0 13 3 0 0 1 1 0 1 0 1 0 1 0 1 0 1 0 1 0 <td>9/2</td> <td>8.0</td> <td>0</td> <td></td> <td>0</td> <td></td> <td>4</td> <td>1</td> <td>4</td> <td>1</td> <td>0</td> <td>0</td> <td>11</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td>0</td> <td>1</td> <td>0</td> <td>31</td>	9/2	8.0	0		0		4	1	4	1	0	0	11	1	0	0	0		0	1	0	31
39.3 0 0 0 1 0 1 0 0 0 0 0 0 1 2 0	9/8	9.0	0		0	10	6	2	10	5	0	1	13	3	0	0	1	2	0	0	0	46
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	9/10	10.0	0		0	10	8	5	10	2	0	1	1860	1	0	0	20	2	0	3	0	1031
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	9/11	10.0	0		0	13	7	5	17	1	0	0	846	1	0	0	20		1	2	0	893
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	9/12	9.0	0		41	16	8	2	30	1	0	1	216	4	0	0	2	0	0	0	0	321
9/14 8.5 0 0 1 1 2 66 2 0 0 15 0 0 0 3 1 0 1 0 0 0 3 3 1 0<	9/13	9.0	0		10	12	6	3	36	1	0	0	71	0	0	0	- 1	2	1	1	0	144
9/16 8.5 0 0 5 3 2 26 2 0 0 1 1 2 0 </td <td>9/14</td> <td>8.5</td> <td>0</td> <td></td> <td>0</td> <td>13</td> <td>1</td> <td>2</td> <td>66</td> <td>2</td> <td>0</td> <td>0</td> <td>15</td> <td>0</td> <td>0</td> <td>0</td> <td>3</td> <td>1</td> <td>0</td> <td>1</td> <td>0</td> <td>104</td>	9/14	8.5	0		0	13	1	2	66	2	0	0	15	0	0	0	3	1	0	1	0	104
9/16 8.5 0 0 5 3 2 2.6 2 0 0 1 2 0 0 0 9/17 7.0 0 0 11 3 1 6 0 0 1 1 0 0 0 1 1 0 0 0 0 1 0 <td>9/15</td> <td>4.0</td> <td>0</td> <td></td> <td>0</td> <td>2</td> <td>1</td> <td>0</td> <td>4</td> <td>0</td> <td>7</td>	9/15	4.0	0		0	2	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	7
9/17 7.0 0 0 11 13 1 16 0 0 12 1 0	9/16	8.5	0		0	5	3	2	26	2	0	0	12	3	0	0	1	2	0	0	0	56
9/18 3.0 0 <td>9/17</td> <td>7.0</td> <td>0</td> <td></td> <td>0</td> <td>11</td> <td>3</td> <td>1</td> <td>16</td> <td>0</td> <td>0</td> <td>0</td> <td>12</td> <td>1</td> <td>0</td> <td>0</td> <td>4</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>50</td>	9/17	7.0	0		0	11	3	1	16	0	0	0	12	1	0	0	4	2	0	0	0	50
9/19 3.0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 <td>9/18</td> <td>3.0</td> <td>0</td> <td></td> <td>0</td>	9/18	3.0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/20 7.5 0 0 2 43 0 0 1 9 1 0 2 6 0 0 2 6 0 0 1 0 0 2 6 0 0 1 0 0 2 1 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 1 0 1 1 1 0 0 0 0 0 0 0 0 0 0 </td <td>9/19</td> <td>3.0</td> <td>0</td> <td></td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>12</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>14</td>	9/19	3.0	0		0	0	1	0	1	0	0	0	12	0	0	0	0	0	0	0	0	14
9/21 9.0 0 1 7 3 2 15 4 0 0 66 1 0 0 20 2 5 0 0 9/22 9.0 0 0 4 3 2 17 2 0 0 12 1 0	9/20	7.5	0		0	29	4	2	43	0	0	1	59	1	0	0	26	1	2	0	0	168
9/22 9.0 0 0 4 3 2 17 2 0 0 12 1 0 0 12 1 0 0 12 1 0 0 12 1 0 0 12 1 0 0 12 1 0 0 12 1 0 0 10 0	9/21	9.0	0		1	7	3	2	15	4	0	0	66	1	0	0	20	2	5	0	0	126
9/24 9.0 0 0 0 6 6 15 2 0 0 484 0 0 6 6 1 1 0 0 3 2 0 0 484 0 0 6 6 1 1 0 0 16 0 16 0 16 0 0 0 0 0 0 1 0 0 0 1 0 <	9/22	9.0	0		0	4	3	2	17	2	0	0	12	1	0	0	12	1	0	0	0	54
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	9/23	10.0	0		0	10	6	6	15	2	0	0	484	0	0	0	6	0	1	1	0	531
9/26 6.5 0 0 10 2 1 12 3 0 0 11 0 0 1 1 1 0	9/24	9.0	0		0	3	3	2	5	1	0	0	16	2	0	0	3	0	3	0	0	38
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	9/25	9.0	0		0	10	2	1	12	3	0	0	11	0	0	0	1	0	1	0	0	41
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	9/26	6.5	0		0	11	0	4	2	0	0	0	0	0	0	0	1	1	1	0	0	20
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	9/20	9.5	0		0	/	2	2	10	0	0	0	0	1	0	0	/		1	0	0	43
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	9/29	9.0	0		21	4	2	6	12	2	1	0	4/	0	0	1	19	1	2	2	0	140
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	10/1	0.0	0		0	0		0	- 42	0	0	0	12	0	0	0	0	0	0		0	145
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	10/2	9.0	0	:	25	2	6	2	17	1	1	2	0	5	0	0	7	1	1	0	0	70
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	10/5	8.5	0	-	36	4	4	3	15	1	0	1	1	2	0	0	5	0	2	4	0	78
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	10/10	9.0	0	1	17	2	24	3	42	2	0	1	0	16	0	2	6	1	1	4	0	221
10/12 8.5 0 116 3 13 3 34 1 1 3 0 28 0 0 6 1 0 1 0 10/16 8.5 0 81 1 31 6 103 2 0 0 0 15 0 0 4 0 10/17 8.5 0 98 1 2 0 0 2 1 0 0 4 0 0 0 15 0 0 4 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 1 0 0 0 1 0 0 0 0 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 </td <td>10/11</td> <td>9.0</td> <td>0</td> <td></td> <td>16</td> <td>3</td> <td>4</td> <td>5</td> <td>61</td> <td>4</td> <td>1</td> <td>1</td> <td>0</td> <td>13</td> <td>0</td> <td>2</td> <td>23</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>165</td>	10/11	9.0	0		16	3	4	5	61	4	1	1	0	13	0	2	23	2	0	0	0	165
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	10/12	8.5	0	1	16	3	13	3	34	1	1	3	0	28	0	0	6	1	0	1	0	210
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	10/16	8.5	0	1	31	1	31	6	103	2	0	0	0	31	0	0	15	0	0	4	0	274
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	10/17	8.5	0	9	99	0	12	1	26	1	0	2	0	31	0	0	2	1	0	0	0	175
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	10/20	7.0	0		19	1	6	2	3	1	0	0	0	18	0	0	1	0	0	0	0	51
10/22 0.0 0 </td <td>10/21</td> <td>4.0</td> <td>0</td> <td></td> <td>10</td> <td>0</td> <td>0</td> <td>1</td> <td>8</td> <td>0</td> <td>0</td> <td>2</td> <td>0</td> <td>3</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>25</td>	10/21	4.0	0		10	0	0	1	8	0	0	2	0	3	0	0	1	0	0	0	0	25
10/27 7.5 0 13 1 20 2 4 2 0 1 0 16 0 0 0 0 1 0 10/28 7.0 0 11 1 10 2 10 0 1 0 16 0 0 0 0 0 1 0	10/22	0.0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10/27	7.5	0		13	1	20	2	4	2	0	1	0	16	0	0	0	0	0	1	0	60
	10/28	7.0	0		11	1	19	2	10	0	1	0	0	26	0	0	0	1	0	0	0	71
<u>11/1 65 0 12 2 12 3 9 1 0 2 0 15 0 0 1 0 0 1 0</u>	11/1	6.5	0		12	2	12	3	9	1	0	2	0	15	0	0	1	0	0	1	0	58
11/4 7.5 0 1 1 37 1 8 0 1 11 0 59 0 1 3 0 0 1 0	11/4	7.5	0		1	1	37	1	8	0	1	11	0	59	0	1	3	0	0	1	0	124
	11/8	6.5	0		2	0	15	5	2	1	1	2	0	71	1	0	0	0	0	0	0	100
	11/9	6.5	0	74	1	220	8	102	2	1	0	0	2000	12	0	0	0	21	0	21		26

						Co	oper	Fall	201	17 - C	oope	r, M	ain	e						
Date	HRS	BV	TV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	Othr	TOTAL
9/12	6.0	0	4	0	2	0	0	0	0	0	0	0	0	0	3	0	0	0	0	9
9/13	6.0	0	3	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
9/14	5.0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
9/15	4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/16	3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/17	4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/19	7.0	0	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
9/20	3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21	6.0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
9/22	9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/23	9.0	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4
9/24	6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/25	6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/26	6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/27	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/28	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/29	6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/30	3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1	8.0	0	2	0	- 1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	4
10/4	8.0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
10/6	6.0	0	2	0	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	6
10/7	6.0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
10/12	5.0	0	3	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
10/19	4.0	0	10	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
24	133.5	0	82	1	8	2	2	1	0	0	0	0	0	0	3	2	0	0	0	101

			Interl	akes	Eler	nent	ary S	choo	l Fa	ll 20	17 - N	/ere	dit	h, M	New H	lamp	shir	е		
Date	HRS	BV	TV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	Othr	TOTAL
9/12	5.0	0	3	0) 2	0	8	0	0	0	55	0	0	0	0	0	2	2	0	72
9/13	5.0	0	9	1	2	0	4	0	0	0	68	1	0	0	0	1	0	0	0	86
2	10.0	0	12	1	4	0	12	0	0	0	123	1	0	0	0	1	2	2	0	158

				Cor	cor	d Scl	hool	Fall	201	7 - C	oncor	d, N	ew	H	ampsl	nire				
Date	HRS	BV	ΤV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	Othr	TOTAL
9/14	3.5	0	6	2	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	26
9/15	3.3	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	7
9/18	5.0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	7
9/21	5.0	0	3	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	6
9/22	4.5	0	4	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	7
9/25	3.0	0	17	0	0	0	- 1	0	0	0	0	0	0	0	0	0	0	1	0	19
6	24.3	0	41	2	0	0	1	0	0	0	19	1	0	0	2	0	0	6	0	72

Date HKS BV TH GE AK MK C U C U C U C U C U C U C U C U <thu< th=""> U U U U<</thu<>					0	arte	r Hi	ll Fal	l 201	7 -	Conc	ord, N	New	Ha	am	oshire					
max max <th>Date</th> <th>HRS</th> <th>BV</th> <th>TV</th> <th>OS</th> <th>BE</th> <th>NH</th> <th>SS</th> <th>CH</th> <th>NG</th> <th>RS</th> <th>BW</th> <th>RT</th> <th>RL</th> <th>GE</th> <th>AK</th> <th>ML</th> <th>PG</th> <th>UR</th> <th>Othr</th> <th>TOTAL</th>	Date	HRS	BV	TV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	Othr	TOTAL
94 8.0 0 1 2 0 1 0	9/1	8.0	0	0	1	0	0	2	0	0	0	12	0	0	0	1	0	0	0	0	16
997 7.0 0 0 1 1 0 <td>9/4</td> <td>8.0</td> <td>0</td> <td>0</td> <td>12</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td>0</td> <td>1</td> <td>9</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> <td>0</td> <td>5</td> <td>0</td> <td>33</td>	9/4	8.0	0	0	12	2	0	0	2	0	1	9	0	0	0	0	2	0	5	0	33
997 8.0 0 0 1 0 <td>9/5</td> <td>7.0</td> <td>0</td> <td>4</td> <td>1</td> <td>- 1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>21</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>29</td>	9/5	7.0	0	4	1	- 1	0	0	0	0	0	21	1	0	0	0	0	0	1	0	29
mm mm<	9/7	8.0	0	0	4	2	0	0	0	0	0	2	0	0	0	0	2	0	0	0	10
970 60 0	9/8	/.5	0	1	5	2	0	5	3	0	0	53	1	0	0	0	0	0	2	0	25
9/11 8.5 0 7 2 1 0 0 <td>9/10</td> <td>8.0</td> <td>0</td> <td>0</td> <td>2</td> <td>2</td> <td>2</td> <td>16</td> <td>1</td> <td>0</td> <td>0</td> <td>447</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>1</td> <td>0</td> <td>1</td> <td>0</td> <td>473</td>	9/10	8.0	0	0	2	2	2	16	1	0	0	447	0	0	0	1	1	0	1	0	473
9/12 6.3 0 0 1 0 <td>9/11</td> <td>8.5</td> <td>0</td> <td>7</td> <td>2</td> <td>- 1</td> <td>0</td> <td>5</td> <td>1</td> <td>0</td> <td>0</td> <td>137</td> <td>2</td> <td>0</td> <td>0</td> <td>3</td> <td>1</td> <td>0</td> <td>7</td> <td>0</td> <td>166</td>	9/11	8.5	0	7	2	- 1	0	5	1	0	0	137	2	0	0	3	1	0	7	0	166
9/14 9.5 0 0 10 0 1 0 0 0 0 0 0 0 1 1 0 0 1 1 0 0 0 1 1 0 0 0 0 0 0 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 1 1 1 1 </th <td>9/12</td> <td>8.3</td> <td>0</td> <td>0</td> <td>4</td> <td>2</td> <td>2</td> <td>16</td> <td>3</td> <td>0</td> <td>0</td> <td>140</td> <td>0</td> <td>0</td> <td>0</td> <td>15</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>183</td>	9/12	8.3	0	0	4	2	2	16	3	0	0	140	0	0	0	15	1	0	0	0	183
9/14 8.5. 0 9 8 2 0 23 0 0 1 3.34 1 0 0 22 1 0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 </th <td>9/13</td> <td>9.5</td> <td>0</td> <td>0</td> <td>10</td> <td>0</td> <td>4</td> <td>20</td> <td>0</td> <td>0</td> <td>0</td> <td>297</td> <td>0</td> <td>0</td> <td>0</td> <td>16</td> <td>0</td> <td>2</td> <td>30</td> <td>0</td> <td>379</td>	9/13	9.5	0	0	10	0	4	20	0	0	0	297	0	0	0	16	0	2	30	0	379
All Col Col <thcol< th=""> <thcol< th=""> <thcol< th=""></thcol<></thcol<></thcol<>	9/14	8.3	0	9	8	2	0	23	0	0	1	534 691	1	0	0	22	7	0	1	0	587
9/17 R.3. 0 1 4 0 1 1 0 0 2 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0 1 0 1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 </th <td>9/16</td> <td>8.8</td> <td>0</td> <td>0</td> <td>5</td> <td>2</td> <td>1</td> <td>38</td> <td>3</td> <td>0</td> <td>0</td> <td>629</td> <td>0</td> <td>0</td> <td>0</td> <td>7</td> <td>0</td> <td>1</td> <td>5</td> <td>0</td> <td>691</td>	9/16	8.8	0	0	5	2	1	38	3	0	0	629	0	0	0	7	0	1	5	0	691
9/19 8.0 0 0 0 0 0 0 0 3 2 0 1 1 0 0 0 3 0 0 5 1 0 <td>9/17</td> <td>8.3</td> <td>0</td> <td>1</td> <td>4</td> <td>0</td> <td>1</td> <td>12</td> <td>1</td> <td>0</td> <td>0</td> <td>249</td> <td>2</td> <td>0</td> <td>0</td> <td>11</td> <td>0</td> <td>0</td> <td>3</td> <td>0</td> <td>284</td>	9/17	8.3	0	1	4	0	1	12	1	0	0	249	2	0	0	11	0	0	3	0	284
9/19 8.0 0 0 0 5 1 1 0 0 0 9/20 8.3 0 0 5 1 1 0 0 0 5 1 1 0 0 0 5 1 1 0	9/18	7.0	0	4	1	- 1	0	1	0	0	0	0	0	0	0	3	2	0	2	0	14
9/20 8.3 0 0 1 1 1 4 0 0 1 3 1 0 <td>9/19</td> <td>8.0</td> <td>0</td> <td>0</td> <td>8</td> <td>0</td> <td>0</td> <td>9</td> <td>3</td> <td>0</td> <td>0</td> <td>55</td> <td>0</td> <td>0</td> <td>0</td> <td>5</td> <td>1</td> <td>1</td> <td>0</td> <td>0</td> <td>82</td>	9/19	8.0	0	0	8	0	0	9	3	0	0	55	0	0	0	5	1	1	0	0	82
Ab O O O T D O D <thd< th=""> D D D</thd<>	9/20	8.3	0	1	2	6	0	14	2	0	1	431	0	0	0	12	1	0	2	0	476
973 8.0 0 0 0 0 10 11 0 2 13 2 0 0 7 0<	9/21	8.3	0	0	3	1	5	14	2	0	1	34	0	0	0	12	0	0	6	0	4/0
9/24 8.0 0 0 6 2 0 7 0 <td>9/23</td> <td>8.0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>10</td> <td>1</td> <td>0</td> <td>2</td> <td>13</td> <td>2</td> <td>0</td> <td>0</td> <td>7</td> <td>0</td> <td>2</td> <td>0</td> <td>0</td> <td>37</td>	9/23	8.0	0	0	0	0	0	10	1	0	2	13	2	0	0	7	0	2	0	0	37
9/26 6.0 0 0 1 0 <td>9/24</td> <td>8.0</td> <td>0</td> <td>0</td> <td>6</td> <td>2</td> <td>0</td> <td>7</td> <td>0</td> <td>0</td> <td>0</td> <td>5</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>20</td>	9/24	8.0	0	0	6	2	0	7	0	0	0	5	0	0	0	0	0	0	0	0	20
9/26 6.0 0 0 1 0 0 3 0 0 0 1 0 0 1 0 0 1 0 <td>9/25</td> <td>5.5</td> <td>0</td> <td>10</td> <td>3</td> <td>1</td> <td>0</td> <td>1</td> <td>1</td> <td>0</td> <td>0</td> <td>11</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>1</td> <td>0</td> <td>29</td>	9/25	5.5	0	10	3	1	0	1	1	0	0	11	0	0	0	0	1	0	1	0	29
1/2 0.0 0 1 0 <td>9/26</td> <td>6.0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>9</td>	9/26	6.0	0	0	1	0	0	3	0	0	0	2	0	0	0	3	0	0	0	0	9
929 8.0 0 2 0 1 2 0 1 0 <td>9/2/</td> <td>8.0</td> <td>0</td> <td>0</td> <td>4</td> <td>2</td> <td>0</td> <td>5</td> <td>1</td> <td>0</td> <td>0</td> <td>10</td> <td>0</td> <td>0</td> <td>0</td> <td>3</td> <td>1</td> <td>4</td> <td>0</td> <td>0</td> <td>14</td>	9/2/	8.0	0	0	4	2	0	5	1	0	0	10	0	0	0	3	1	4	0	0	14
9/30 4.8 0 0 0 0 0 0 6 6 1 0 0 0 0 6 1 0 0 0 1 0 0 0 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 0 1 0 <td>9/29</td> <td>8.0</td> <td>0</td> <td>23</td> <td>2</td> <td>0</td> <td>0</td> <td>14</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> <td>0</td> <td>0</td> <td>4</td> <td>1</td> <td>1</td> <td>0</td> <td>0</td> <td>49</td>	9/29	8.0	0	23	2	0	0	14	2	0	0	0	2	0	0	4	1	1	0	0	49
1010 8.0 0 2 1 1 0 1 1 0 0 4 0 0 0 0 2 102 7.0 0 5 1 0 1 1 1 0 0 1 1 0 0 0 1 2 0 0 0 0 1 1 0 0 0 1 0	9/30	4.8	0	0	6	0	0	4	0	0	0	0	0	0	0	6	1	0	0	0	17
1002 7.0 0 5 0 1 0 1 1 1 1 1 1 0 0 2 0 1 1 1 0 <td>10/1</td> <td>8.0</td> <td>0</td> <td>2</td> <td>1</td> <td>1</td> <td>0</td> <td>16</td> <td>1</td> <td>0</td> <td>0</td> <td>1</td> <td>1</td> <td>0</td> <td>0</td> <td>4</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>27</td>	10/1	8.0	0	2	1	1	0	16	1	0	0	1	1	0	0	4	0	0	0	0	27
109 8.0 0 0 7 0 3 23 0 0 2 4 1 0 1 1 2 0 0 0 1004 8.0 0 11 0 3 14 0 0 0 3 0 4 0 0 0 3 0 4 0 0 1 0 <	10/2	7.0	0	5	0	1	0	10	1	0	0	1	1	0	0	17	1	0	0	0	22
Index Index <th< th=""><td>10/3</td><td>8.0</td><td>0</td><td>8</td><td></td><td>1</td><td>1</td><td>12</td><td>2</td><td>0</td><td>- 2</td><td>-4</td><td>2</td><td>0</td><td>0</td><td>5</td><td>0</td><td>2</td><td>0</td><td>0</td><td>36</td></th<>	10/3	8.0	0	8		1	1	12	2	0	- 2	-4	2	0	0	5	0	2	0	0	36
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	10/5	8.0	0	11	0	3	0	14	0	0	0	0	3	0	0	4	0	0	1	0	36
107 9.0 0 0 2 2 0 0 0 0 1 12 1 0 0 5 0 0 1 0 0 5 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 <td>10/6</td> <td>6.5</td> <td>0</td> <td>1</td> <td>1</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>5</td>	10/6	6.5	0	1	1	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	5
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	10/7	9.0	0	9	0	0	0	24	2	0	0	0	0	0	0	12	2	1	0	0	50
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	10/8	8.3	0	6	1	0	2	2	1	0	0	0	5	0	0	0	0	0	1	0	18
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	10/10	8.0	0	10	4	0	2	70	4	0	1	2	1	0	0	13	5	0	4	0	108
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	10/12	8.0	0	48	3	2	2	19	4	0	1	0	3	0	0	1	0	0	2	0	85
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	10/13	8.3	0	59	0	4	2	24	5	0	1	1	4	0	0	2	0	1	2	0	105
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	10/14	8.0	0	30	0	5	0	6	0	0	1	0	6	0	0	2	1	0	1	0	52
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	10/15	7.0	0	18	0	1	0	12	0	2	0	0	4	0	0	0	1	1	0	0	23
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	10/17	8.0	0	16	1	0	1	36	- 4	2	4	0	7	0	0	- + 2	0	2	2	0	77
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	10/18	8.0	0	27	0	1	0	20	1	0	0	0	3	0	0	3	1	0	- 1	0	57
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	10/19	8.0	0	16	0	3	1	22	3	0	0	0	2	0	0	2	0	0	1	0	50
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	10/20	8.0	0	14	1	1	0	26	1	0	2	0	3	0	0	4	2	0	0	0	54
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	10/21	8.0	0	19	1	2	0	26	12	0	1	0	1	0	0	2	0	0	0	0	50
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	10/22	8.0	0	11	0	0	1	2	12	0	0	0	2	0	0	3	1	1	8	0	30
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	10/24	6.0	0	0	0	0	1	- 1	0	0	0	0	0	0	- 1	1	0	0	0	0	4
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	10/25	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	10/27	8.0	0	15	0	2	2	23	1	0	1	0	4	0	0	0	1	0	2	0	51
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	10/28	7.3	0	6	0	1	0	16	0	1	0	0	8	0	0	0	0	0	1	0	28
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	11/1	7.8	0	0	0	0	2	13	1	0	4	0	0	0	0	0	1	0	0	0	21
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	11/3	7.0	0	2	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	5
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	11/4	6.5	0	4	0	3	5	28	6	0	18	0	21	0	0	0	1	0	7	0	93
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	11/5	4.0	0	2	0	0	1	17	0	0	9	0	6	0	0	0	0	0	2	0	37
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	11/7	5.8	0	9	0	6	0	5	2	0	18	0	52	0	4	0	0	0	1	0	97
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	11/9	6.0	0	1	0	0	1	3	2	0	0	0	5	0	0	0	0	0	-	0	12
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	11/10	6.0	0	0	0	0	0	2	2	0	0	0	3	0	0	0	0	0	0	0	7
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	11/11	6.8	0	1	0	0	0	2	0	0	3	0	10	0	0	0	0	0	1	0	17
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	11/12	6.0	0	0	0	1	0	0	0	0	1	0	7	0	0	0	0	0	0	0	9
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	11/14	6.5	0	0	0	0	1	0	0	1	2	0	0	1	0	0	1	0	0	0	13
11/18 5.5 0 </th <td>11/17</td> <td>6.3</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>10</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>11</td>	11/17	6.3	0	0	0	0	1	0	0	0	0	0	10	0	0	0	0	0	0	0	11
11/19 4.0 0 0 0 0 0 1 1 0 0 3 0 0 0 0 0 0 0 1 11/20 2.5 0 0 0 0 0 1 0 0 0 0 2 0 0 0 0 0 0 0 0 11/20 0 4.0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	11/18	5.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11/19	4.0	0	0	0	0	0	1	1	0	0	0	3	0	0	0	0	0	0	0	5
	11/20	2.5	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	114	0	6070

_			Pa	ack N	lona	ıdno	ck Fa	all 20)17	- Pet	erboro	bugh	1, N	lew	Ham	npshir	e			
Date	HRS	BV	TV	OS	BE	NH	SS	CH 1	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	Othr	TOTAL
9/1	10.0	0	0		4	2	7	1	0		28	0	0	0	0	0	0	1	0	12
9/2	8.0	0	0	7	2	1	2	1	0	0	20	2	0	0	0	0	0	0	0	43
9/5	7.3	0	0	6	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	9
9/6	2.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/7	6.5	0	0	1	1	0	0	0	0	0	4	0	0	0	0	0	0	0	0	6
9/8	8.0	0	0	1	1	0	6	0	0	0	4	0	0	0	0	0	0	0	0	12
9/9	9.3	0	0	7	0	2	24	2	0	0	843	1	0	0	2	2	2	2	0	887
9/10	9.3	0	0	8	8	5	36	8	0	2	1219	0	0	0	2	5	1	0	0	1294
9/11	8.0	0	0	9	5	2	21	1	0	0	235	0	0	0	3	0	0	0	0	276
9/12	0.0	0	0	20	12	0	42	2	0		1272	0	0	0	9	/	0	2	0	1446
9/14	8.0	0	0	6	3	3	22		0	0	32	0	0	0	1	8	0	3	0	78
9/15	6.5	0	4	3	6	1	64	8	0	2	459	0	0	0	2	4	1	1	1	555
9/16	9.5	0	1	16	1	3	89	4	0	0	1241	0	0	0	10	4	3	6	0	1378
9/17	8.8	0	1	15	0	5	86	6	0	1	945	0	0	0	10	4	4	3	0	1080
9/18	7.0	0	0	3	1	0	2	1	0	0	10	0	0	0	0	1	0	0	0	18
9/19	3.0	0	0	4	0	0	6	1	0	0	14	0	0	0	1	1	0	0	0	27
9/20	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21	8.8	0	0	11	11	4	93	14	0	0	1836	0	0	0	22	13	2	4	0	2010
9/22	9.8	0	0	0	1	2	 	6	0	0	205	0	0		7	2	1	0		200
9/24	10,0	0	0	0	1	3	19	4	0	1	9	0	0	0	0	2	0	1	0	37
9/25	7.0	0	0	8	5	0	23	1	0	0	24	1	0	0	2	3	0	0	0	67
9/26	8.5	0	0	8	0	1	9	2	0	2	5	0	0	0	1	0	2	0	0	30
9/27	8.0	0	0	4	2	0	3	0	0	1	0	0	0	0	2	0	2	0	0	14
9/28	8.5	0	1	5	3	1	28	3	0	1	1	0	0	0	8	7	2	2	0	62
9/29	8.0	0	0	4	2	1	22	1	0	1	1	1	0	0	5	5	0	1	0	44
10/1	8.0	0	0	7	14	3	42	7	0	4	21	2	0	1	10	4	3	3	0	121
10/2	7.0	0	0	11	5	1	39	0	0	5	0	1	0	0	3	2	1	0	0	58
10/3	8.0	0	0	1	4	0	2	1	0	1	0	1	0	0	1	4	3	0	0	10
10/4	8.0	0	8	3	1	0	14	5	1	2	0	3	0	0	4	0	3	0	0	44
10/6	8.0	0	1	0	0	1	7	0	2	0	0	0	0	0	0	0	3	0	0	14
10/7	12.0	0	14	16	0	3	13	2	0	2	0	1	0	0	4	0	3	1	0	59
10/8	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
10/10	9.0	0	10	2	3	4	58	12	0	1	1	8	0	0	6	5	2	2	0	114
10/11	9.3	0	19	2	5	2	49	3	0	1	3	2	1	0	7	3	7	2	0	106
10/12	8.5	0	146	0	3	2	35	6	1	8	1	26	0	0	5	0	0	7	1	240
10/13	8.3	0	30	0	5	0	5	1	0	0	0	6	0	0	3	0	3	0	0	53
10/14	7.5	0	3	0	4	0	-4	0	1	1	0		0	0		0		1	0	10
10/16	7.0	0	5	1	1	0	20	1	0	1	0	6	0	0	3	5	0	2	1	45
10/17	7.3	0	2	0	3	1	19	2	0	6	0	4	0	0	0	0	0	0	0	37
10/18	8.3	0	10	0	1	1	15	3	1	2	0	1	0	1	1	0	0	0	0	36
10/19	8.0	0	3	1	1	1	0	1	0	0	0	1	0	0	1	1	0	0	0	10
10/20	8.3	0	2	2	3	2	20	8	1	0	0	0	0	0	1	1	0	2	0	42
10/21	8.0	0	0	0	1	1	6	2	1	1	0	0	0	0	2	3	2	0	0	19
10/22	8.5	0	4	2	0	2	11	1	0	0	0	0	0	0	0	1	1	1	0	23
10/23	6.8	0	5	1	2	1	0	0	0	0	0	7	0	0	1	1	0	0	0	18
10/25	2.0	0	15	0	0	1	11	0	1		0	10	0		2	1	1	1	0	62
10/28	8,3	0	10	0	0	1	5	0	2	2	0	- 19	0	0	0	3	0	1	0	33
10/31	6.5	0	3	0	1	0	2	1	0	1	0	1	0	0	0	1	2	0	0	12
11/1	8.0	0	1	0	0	1	11	1	0	1	0	1	0	0	0	1	0	0	0	17
11/2	5.5	0	0	0	0	0	5	0	0	0	0	2	0	0	0	2	0	1	0	10
11/3	6.0	0	0	0	3	0	1	1	0	0	0	5	0	0	0	0	1	0	0	11
11/4	8.5	0	13	0	4	3	16	5	0	46	0	20	0	0	0	0	1	5	1	113
11/5	4.5	0	0	0	0	4	3	1	0	0	0	10	0	1	0	0	0	1	0	20
11/7	6.0	0	2	0	4	0	5	1	0	27	0	9	1	0	0	0	0	0	0	49
11/0	6.0	0	5	0	2	0	9	1	0	39	0	18	0		0	0	1	1		125
11/10	4.0	0	- 2	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	23
11/11	6.0	0	0	0	0	0	0	0	0	2	0	19	0	1	0	0	0	1	0	23
11/12	6.0	0	1	0	1	1	0	1	1	2	0	21	0	0	0	0	0	1	0	29
11/13	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/14	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/15	6.0	0	0	0	1	0	3	0	1	4	0	21	0	1	0	0	0	1	0	32
11/17	6.0	0	0	0	3	0	0	0	0	0	0	14	0	1	0	0	0	1	0	19
11/18	6.0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
11/19	4.3	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	15
72	515.3	0	324	219	163	82	1179	142	16	181	8744	341	2	7	166	106	64	68	6	11804
			727	,	105		,				0, 74		- 4	÷_ب						11004

				N	٨ou	nt W	atati	c Fal	20	17 - /	Ashby	, Ma	issa	ach	usetts					
Date	HRS	BV	TV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	Othr	TOTAL
9/9	7.5	0	0	4	4	1	11	4	0	0	342	0	0	0	2	3	0	1	0	372
9/10	8.0	0	0	7	4	2	16	3	0	0	1395	0	0	0	2	1	0	2	0	1432
9/11	8.0	0	0	2	2	0	5	2	0	0	290	0	0	0	0	0	0	2	0	303
9/12	8.0	0	0	4	2	2	9	1	0	0	1149	0	0	0	3	0	0	0	0	1170
9/13	7.0	0	0	3	3	0	10	1	0	0	466	0	0	0	4	3	0	- 1	0	491
9/14	6.5	0	0	4	0	0	11	2	0	0	24	0	0	0	1	5	0	3	0	50
9/16	8.5	0	0	6	7	0	35	7	0	0	222	0	0	0	5	4	1	- 1	0	288
9/17	8.0	0	0	8	2	0	21	4	0	0	170	0	0	0	13	4	0	6	0	228
9/21	8.0	0	0	5	10	4	25	6	0	0	641	0	0	0	27	2	0	3	0	723
9/22	8.0	0	0	4	3	5	17	1	0	0	305	0	0	0	9	0	0	0	0	344
9/23	7.0	0	1	4	4	0	18	2	0	0	35	0	0	0	2	0	0	14	0	80
11	84 5	0	1	51	41	14	178	33	0	0	5039	0	0	0	68	22	1	33	0	5481

			н	elde	rberg	g Esc	arpn	nent l	all	2017	' - Vo	orhe	esv	ille	e, Net	w Yo	rk			
Date	HRS	BV	TV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	Othr	TOTAL
9/3	8 6.0	0 0	4	0	0	0	1	1	0	0	4	0	0	0	0	0	0	1	0	11
9/	9 7.0	2	0	3	2	1	1	1	0	0	179	0	0	0	0	0	1	3	0	193
9/1	0 7.0	3	0	0	2	0	0	0	0	0	32	0	0	0	1	2	1	13	0	54
9/1	1 6.0	2	0	0	2	0	1	2	0	0	35	8	0	0	0	0	0	1	0	51
9/1	2 6.0	3	13	2	2	1	2	0	0	0	337	4	0	0	0	0	0	5	0	369
9/1	3 6.0	0 0	18	1	3	0	1	1	0	0	31	7	0	0	1	0	0	2	0	65
9/1-	4 5.0	0	5	0	2	0	1	0	0	0	38	2	0	0	1	0	0	0	0	49
9/1	5 7.0	1	0	0	2	2	1	1	0	0	53	0	0	0	1	1	0	3	0	65
9/1	6 7.0	3	0	0	0	1	3	0	0	1	138	0	0	0	0	0	0	1	0	147
9/1	7 8.0	5	0	0	2	0	0	0	0	0	53	0	0	0	0	0	2	7	0	69
9/2	3 5.0	7	0	2	0	1	0	1	0	0	5	0	0	0	1	0	0	2	0	19
9/2	4 5.0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	2	0	5
11	75.0	26	40	0	17	6	10	7	0	1	007	21	0	0	E	2	4	40	0	1007

					Put	ney	Moun	tain	Fall	2012	7 - Pu	tney	, ν	err	nont					
Date	HRS	BV	TV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	Othr	TOTAL
8/24	4.5	0	0	1	1	0	1	0	0	0	10	0	0	0	1	0	0	0	0	14
8/25	5.0	0	0	1	5	0	1	0	0	0	5	0	0	0	0	0	0	0	0	/
8/27	5.0	0	0	1	5	0	0	0	0	0	15	0	0	0	1	0	0	0	0	22
8/28	6.0	0	0	0	2	0	1	1	0	0	32	0	0	0	0	0	0	0	0	36
8/29	3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
8/30	5.0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2
8/31	6.5	0	0	0	5	1	4	0	0	0	1	0	0	0	1	0	0	0	0	12
9/1	7.3	0	0	1	2	0	5	0	0	0	16	0	0	0	0	0	0	0	0	24
9/2	6.0	0	0	1	0	0	1	2	0	0	12	0	0	0	0	0	0	0	0	16
9/4	5.0	0	0	2	2	0	2	0	0	0	4	0	0	0	0	0	0	0	0	23
9/7	8.8	0	0	5	4	0	12	1	0	0	9	0	0	0	0	0	0	0	0	31
9/8	9.0	0	0	3	6	0	10	1	0	0	40	0	0	0	2	1	0	0	0	63
9/9	9.8	0	0	4	2	1	14	1	0	0	172	0	0	0	0	0	0	0	0	194
9/10	9.5	0	0	4	5	0	8	2	0	0	81	0	0	0	5	1	0	0	0	106
9/11	10.0	0	0	0	9	1	9	3	0	0	76	0	0	0	6	1	0	0	0	105
9/12	10.0	0	0	5	10	2	33	4	0	0	631	0	0	0	6	0	0	0	0	691
9/13	9.8	0	0		2	0	9	1	0	0	2/9	0	0	0	0	1	2	0	0	296
9/14	9.3	0	0	4	0	0	32	5	0	0	970	0	0	0	2	ں ۵	0	0	0	1030
9/16	10.0	0	0		2	4	42	4	0	0	3021	0	0	0	6	-	0	0	0	3087
9/17	10.0	0	0	5	6	3	49	4	0	0	2218	0	0	0	5	- 1	1	0	0	2292
9/18	10.0	0	0	1	4	3	57	1	0	0	597	0	0	0	7	0	1	0	0	671
9/19	10.0	0	0	2	2	0	32	0	0	0	747	0	0	0	4	0	0	0	0	787
9/20	9.0	0	0	4	5	0	45	0	0	0	553	0	0	0	1	0	0	0	0	608
9/21	10.0	0	0	7	5	0	41	2	0	0	777	0	0	0	5	1	0	0	0	838
9/22	10.0	0	0	4	12	5	41	4	0	0	204	0	0	0	3	1	0	0	0	274
9/23	9.5	0	0	0	0	0	41	0	0	0	30	1	0	0	0	0	0	0	0	6/
9/24	8.0	0	5	6	3	1	4	2	0	0	2	4	0	1	0	0	0	0	0	32
9/26	9.0	0	0	4	2	3	15	0	0	0	6	0	0	0	1	0	0	0	0	31
9/27	6.5	0	4	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	7
9/28	10.0	0	4	21	2	1	28	3	0	1	0	0	0	0	14	3	10	0	0	87
9/29	9.5	0	2	5	4	0	16	0	1	0	1	0	0	0	1	1	2	0	0	33
10/1	9.3	0	9	2	4	1	51	1	0	1	0	2	0	0	19	0	0	0	0	90
10/2	8.5	0	6	0	0	1	13	1	0	0	0	0	0	0	1	1	1	0	0	24
10/3	9.0	0	2	2	0	1	14	0	0	0	0	0	0	0	0	0	0	0	0	19
10/4	10.0	0	9	4	2	0	35	3	1	1	0	9	0	1	20	4	2	0	0	91
10/6	9.0	0	6	0	0	0	15	0	0	0	0	0	0	0	1	0	2	0	0	24
10/7	8.0	0	0	1	0	0	9	0	0	0	0	0	0	0	1	0	1	0	0	12
10/8	4.5	0	3	1	0	2	18	0	0	0	0	0	0	0	3	1	5	0	0	33
10/10	11.0	0	14	5	3	1	214	20	0	4	4	19	0	0	28	11	1	0	0	324
10/11	8.5	0	24	2	0	3	60	3	0	0	1	3	0	1	3	1	1	0	0	102
10/12	9.8	0	24	1	1	2	3/	5	0	1	0	2	0	0	3	1	0	0	0	142
10/14	7.5	0	0	0	2	0	15	1	0	0	0	1	0	1	1	2	0	0	0	28
10/15	7.5	0	1	1	0	0	4	0	0	1	0	0	0	0	0	0	0	0	0	20
10/16	10.8	0	21	0	4	0	47	5	3	2	1	12	0	0	3	- 1	2	0	0	101
10/17	10.0	0	35	0	0	0	14	2	0	2	0	2	0	0	2	1	0	0	0	58
10/18	8.5	0	35	0	1	3	34	4	0	0	0	15	0	0	0	0	0	0	0	92
10/19	9.0	0	47	0	0	0	18	4	0	0	0	5	0	0	0	1	1	0	0	76
10/20	9.3	0	11	0	1	0	40	0	0	0	0	28	0	0	1	1	0	0	0	82
10/21	8.5	0	14	0	0	0	26	د 0	0	1	0		0		1	0	0	0	0	15
10/22	5.8	0	0	0	2	0	9	0	0	0	0	0	0	0	0	0	0	0	0	13
10/25	5.5	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	3
10/27	10.3	0	12	0	3	0	45	2	2	7	0	48	0	0	2	1	0	0	0	122
10/28	8.0	0	24	0	1	2	17	2	0	1	0	5	1	0	1	1	0	0	0	55
10/30	4.8	0	0	0	3	0	2	1	0	0	0	5	0	0	0	0	0	0	0	11
10/31	8.5	0	10	0	1	0	39	4	0	0	0	25	0	0	0	1	0	0	0	80
11/1	6.0	0	0	0	1	0	11	0	0	0	0	0	0	0	0	0	0	0	0	12
11/2	4.0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
11/3	6.8	0	17	0	2	1	29	0	0	4	0	40	0	0	0	0	0	0	0	102
11/5	4.8	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
11/7	7.3	0	10	0	4	0	8	3	0	0	0	92	0	0	1	1	0	0	0	119
11/8	6.8	2	2	0	3	0	3	0	0	6	0	34	0	0	0	0	0	0	0	50
11/9	6.3	0	3	0	0	0	1	0	0	0	0	8	0	0	0	0	0	0	0	12
11/10	6.0	0	0	0	0	0	1	0	0	0	0	41	0	0	1	0	0	0	0	43
71	562.0	2	460	139	151	51	1456	105	7	32	11728	428	1	5	181	45	32	0	0	14823

Date	прс	DV/	TV	05	DE	NLL	cc	CH 20	., -	DC	DIA/	, 1714	DI	Cr	AV	A.41	PC.		CIA/	TOTA
8/17	5.0	0	0	1	DE	0	35	СП	NG 0	к 5 0	2	<u>KI</u> (KL	UE 0	0	ML 0	PG 0		500	TOTAL
8/21	3.0	0	0	0	0	0	3	1	0	0	0	0		0	0	0	0	0	0	4
8/24	6.0	0	0	0	0	0	0	0	0	0	0	0) (0	0	0	0	0	0	(
8/25	5.5	0	0	2	0	0	4	2	0	0	13	() (0	0	0	0	0	0	21
8/27	5.0	0	0	0	0	0	0	0	0	0	4	() (0	0	0	0	1	0	5
8/28	6.0	0	0	0	0	0	2	0	0	0	5	() (0	0	0	0	0	0	7
8/29	2.0	0	0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	(
8/30	4.0	0	0	0	1	0	1	0	0	0	1	() (0	0	0	0	0	0	3
8/31	4.5	0	0	0	2	0	1	1	0	0	6	(0 0	0	0	0	0	0	0	10
9/1	5.5	0	0	1	3	0	4	0	0	0	4	() (0	0	0	0	0	0	12
9/2	6.8	0	0	0	3	0	0	0	0	0	3	() (0	0	0	1	0	0	7
9/4	7.0	0	0	5	0	0	2	0	0	0	3	(0 0	0	0	0	0	0	0	10
9/5	3.3	0	0	0	0	0	0	0	0	0	0	(0 0	0	0	0	1	0	0	1
9/7	5.0	0	0	1	0	0	0	0	0	0	2	0) (0	0	0	0	0	0	3
9/8	4.0	0	0	3	0	0	1	0	0	0	8	() (0	1	0	0	0	0	13
9/9	7.0	0	0	6	8	0	6	7	0	0	803	() (0	6	0	2	2	0	840
9/10	7.5	1	0	8	21	3	18	15	0	0	516	() (0	9	1	1	9	0	602
9/11	9.0	0	0	10	8	1	14	1	0	1	4894	0	0 0	0	3	0	0	3	0	4935
9/12	7.5	0	0	11	9	1	11	2	0	0	3008	() (0	4	0	1	3	0	3050
9/13	7.0	0	0	7	4	1	6	0	0	0	301	0) (0	2	0	0	2	0	323
9/14	7.5	0	0	6	0	0	5	0	0	0	27	0	0 0	0	0	0	0	0	0	38
9/15	6.3	0	0	5	0	0	10	3	0	0	30	0) (0	3	1	0	6	0	58
9/16	7.5	0	0	2	0	0	26	14	0	0	56	0) (0	8	1	6	5	0	118
9/17	9.0	0	0	2	1	0	3	5	0	0	67	() (0	4	2	2	2	0	88
9/18	7.0	0	0	0	0	0	2	0	0	0	0	(0	1	0	0	1	0	4
9/19	1.5	0	0	0	0	0	0	0	0	0	0	() (0	0	0	0	0	0	(
9/21	8.3	0	0	13	13	2	27	7	0	0	344	(0	21	2	2	10	0	441
9/22	8.5	0	0	14	8	1	13	4	0	0	2/	(0	6	2	3		0	85
9/23	8.5	0	0	4	2	1	21	7	0	1	23	(0	5	5	0	14	0	80
9/24	0.5	0	0	2	1	0	0	/	0	1	31			0	2	1	0	0	0	1
9/25	7.0	0	0	2	1	0	2	0	0	0	4			0	3	0	0		0	
9/20	0.0	0	0	1	0	0	1	0	0	0	1			0	0	0		0	0	
9/2/	7.8	0	11	4	4	1	14	6	0	0	5	0		0	6	2	2	11	0	66
0/20	7.8	0	0	7	1	1	14	0	0	0	5	0		0	2		0	5	0	4/
10/1	8.5	0	55	7	11	0	16	4	0	0	155	0		0	12	1	3	8	0	273
10/2	6.5	0	32	2	2	0	7	7	1	0	0	0		0	2		1	0	0	54
10/3	4.5	0	11	2	0	0	7	4	0	0	0	(0	1	0	0	1	0	26
10/5	2.0	0	0	0	0	0	1	0	0	0	0	() (0	0	0	0	0	0	1
10/6	5.5	0	0	0	0	0	3	0	0	0	0	0) (0	1	0	1	0	0	5
10/7	5.8	0	0	1	0	0	2	1	0	0	0	0) (0	1	0	2	1	0	8
10/10	5.5	0	5	3	3	0	10	5	0	0	0	() (0	2	0	1	1	0	30
10/11	6.0	0	0	2	0	1	9	6	0	0	0	10) (0	0	0	0	2	0	30
10/12	6.3	0	5	3	2	0	8	5	0	1	0	0) (0	4	1	0	2	0	31
10/13	5.0	0	7	0	1	0	2	2	0	0	0	() (0	0	0	1	0	0	13
10/16	5.8	0	17	2	0	0	4	0	0	0	0	2	2 0	0	8	1	2	1	0	37
10/17	6.5	0	15	3	1	2	12	1	0	0	0	15	5 0	0	10	0	3	5	0	67
10/20	7.3	0	47	0	2	0	7	1	0	0	0	2	2 0	0	4	0	1	0	0	64
10/23	4.0	0	0	0	0	1	0	0	0	0	0	(0 0	0	0	0	0	0	0	1
10/27	7.0	0	10	0	0	0	1	3	0	0	0	4	4 C	0	0	0	0	2	0	20
11/1	5.0	0	0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	(
11/4	6.5	0	44	0	2	4	3	0	0	4	0	42	2 0	0	0	0	0	3	0	102
11/7	5.0	0	9	1	0	1	1	0	0	1	0	2	2 0	0	0	0	1	1	0	13
11/8	7.0	0	16	0	2	2	3	0	0	6	0	22	2 0	0	0	0	0	1	0	52
11/11	0.8	0	0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	(
11/13	1.5	0	0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	C
11/14	2.0	0	0	0	0	0	0	0	0	0	0	() (0	0	0	0	0	0	(
57	327.8	1	293	144	117	23	322	121	1	14	10348	99	0	0	132	19	37	118	0	11789

					Ва	rre F	alls,	Fall 1	2012	7 - Ba	arre, M	Aass	acł	nus	etts					
Date	HRS	BV	TV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	URC	Dthr	TOTAL
9/4	3.0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
9/5	6.0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
9/6	5.5	0	0	3	4	0	2	0	0	0	63	0	0	0	1	0	0	0	0	73
9/7	5.5	0	0	0	5	0	2	0	0	0	90	0	0	0	0	0	0	0	0	97
9/8	6.0	0	0	1	1	0	- 1	0	0	0	615	0	0	0	0	0	0	0	0	618
9/9	6.0	0	0	3	1	0	1	1	0	0	635	0	0	0	2	0	0	0	0	643
9/10	5.5	0	0	4	4	0	5	0	0	0	445	0	0	0	1	0	0	0	0	459
9/11	3.0	0	0	1	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	4
9/12	6.5	0	0	1	1	0	8	4	0	0	25	0	0	0	1	0	0	0	0	40
9/13	6.0	0	0	2	3	0	6	0	0	0	43	0	0	0	7	0	0	0	0	61
9/14	3.5	0	0	1	0	0	14	1	0	0	100	0	0	0	0	1	0	0	0	217
9/15	0.5	0	0	2	2	0	14	2	0	0	100	- 2	0	0	4	1	0	2	0	217
9/16	4.0	0	0	2	2	0	1	2	0	0	9	0	0	0	2	0	1	0	0	19
0/19	1.0	0	0	2	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	10
9/10	4.5	0	0	1	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	
9/20	4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21	5.0	0	0	1	1	0	4	2	0	0	2	0	0	0	1	0	1	0	0	12
9/22	5.5	0	0	3	0	0	15	0	0	0	- 1	2	0	0	0	0	0	4	0	25
9/23	5.5	0	0	0	2	0	3	3	0	1	30	0	0	0	3	0	0	1	0	43
9/24	5.0	0	0	1	2	0	6	3	0	0	2	0	0	0	2	0	0	0	0	16
9/25	6.0	0	2	1	0	0	8	8	0	0	0	3	0	0	1	0	1	4	0	28
9/26	4.0	0	0	1	2	0	3	0	0	0	0	1	0	0	1	0	0	0	0	8
9/27	5.5	0	0	0	2	0	11	0	0	1	0	0	0	0	4	0	1	4	0	23
9/28	3.0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	4
9/29	5.0	0	11	1	0	0	1	1	0	0	0	0	0	0	4	0	1	1	0	20
9/30	5.5	0	11	1	2	0	24	1	0	1	0	3	0	0	2	1	0	2	0	48
10/1	4.0	0	2	0	- 1	0	4	1	0	3	0	0	0	0	2	2	- 1	2	0	18
10/2	5.0	0	2	1	2	0	2	0	0	0	0	4	0	0	1	0	0	0	0	12
10/3	5.0	0	1	0	1	0	0	2	0	0	0	3	0	0	0	1	0	0	0	8
10/4	5.5	0	0	0	0	1	4	2	0	0	0	1	0	0	0	0	0	1	0	9
10/5	4.0	0	2	0	1	0	2	0	0	0	0	1	0	0	0	3	0	0	0	9
10/6	5.0	0	3	0	0	0	11	0	0	1	0	6	0	0	0	0	0	1	0	22
10/7	4.0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
10/8	2.5	0	0	0	0	0	2	3	0	0	0	2	0	0	0	0	0	0	0	7
10/9	5.5	0	1	0	0	1	2	2	0	0	0	2	0	0	0	1	0	1	0	9
10/10	5.0	0	242	1	0	-	4	1	0	0	0	د ہ	0	0	0	1	0		0	266
10/12	5.0	2	243	0	0	4	7	2	1	1	0	3	0	0	0	0	0	2	0	200
10/13	4 5	0	7	0	0	0	1	2	0	0	0	1	0	0	0	0	0	- 0	0	23
10/14	4.0	0	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	4
10/15	4,0	0	0	0	0	1	2	2	0	0	0	0	0	0	0	0	0	1	0	6
10/16	4.5	0	2	0	0	. 0	6	0	0	0	0	0	0	0	0	0	0	0	0	8
10/17	4.5	0	8	0	1	0	4	6	0	1	0	1	0	0	0	0	0	1	0	22
10/18	5.5	0	5	0	0	0	8	4	0	2	0	36	0	0	0	0	0	0	0	55
10/19	2.5	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
10/20	4.5	0	6	0	4	0	4	0	0	3	0	19	0	0	0	0	0	1	0	37
10/21	6.0	0	10	0	3	0	2	4	0	2	0	35	0	0	0	0	0	1	0	57
10/22	4.5	0	0	0	0	0	0	0	0	0	0	4	0	0	1	0	0	0	0	5
10/23	3.5	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	3
10/24	3.0	0	0	0	0	0	0	0	0	0	0	- 1	0	0	0	0	0	0	0	1
10/25	4.5	0	0	0	1	0	1	1	0	0	0	3	0	1	0	0	0	0	0	7
10/26	4.0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
10/27	4.5	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
54	256.0	2	334	39	52	8	192	63	1	16	2159	153	0	1	41	11	6	34	0	3112

				Pi	nna	cle F	Rock	Fall	201	7 - M	edford	I, M	as	sacl	nusett	s				
Date	HRS	BV	TV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	Othr	TOTAL
9/28	6.0	0	0	1	0	0	6	2	0	0	0	0	0	0	1	0	0	3	0	13
9/29	4.0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	3
10/1	6.6	0	0	2	- 1	1	13	4	0	0	0	0	0	0	2	0	1	2	0	26
10/4	7.0	0	0	1	0	0	- 1	1	0	0	0	0	0	0	0	0	1	- 1	0	5
10/5	3.8	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	3
10/15	1.3	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2
10/16	5.3	0	0	0	0	1	3	1	0	1	0	0	0	0	0	1	0	1	0	8
10/17	2.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/20	7.5	0	0	0	0	0	23	4	0	0	0	0	0	0	2	0	1	0	0	30
10/21	7.3	0	0	1	2	2	23	8	0	0	0	0	0	0	1	0	1	2	0	40
10/27	6.5	0	0	2	1	2	4	2	0	0	0	0	0	0	0	0	0	- 1	0	12
10/28	3.5	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
10/31	5.8	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	2	0	6
11/3	5.8	0	0	0	- 1	0	5	1	0	0	0	0	0	0	0	0	0	3	0	10
11/4	5.5	0	0	0	1	0	3	0	0	0	0	0	0	0	0	0	0	3	0	7
11/5	2.8	0	0	0	0	0	1	0	0	0	0	- 1	0	0	0	0	0	0	0	2
11/10	5.5	0	0	0	1	1	4	1	0	0	0	- 1	0	0	0	0	0	0	0	8
11/11	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/17	5.8	0	2	0	0	1	3	1	0	0	0	0	0	0	0	0	0	1	0	8
11/18	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	96.8	0	2	9	7	9	95	29	0	1	0	2	0	0	6	1	4	19	0	184

Date HRS BV TV OS BE NH SS CH NG RS BW RT RL GE AK ML PG UR 9/9 2.0 0 6 2 1 0 5 0 0 178 2 0 0 3 0 0 0					В	ooth	ı Hil	l Fall	201	7 - V	Nest	Hartla	ınd,	Co	nn	ecticu	ıt				
9/9 2.0 0 6 2 1 0 5 0 0 0 178 2 0 0 3 0 0 0	Dat	e HRS	BV	TV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	Othr	TOTAL
	9	/9 2.0	0	6	2	1	0	5	0	0	0	178	2	0	0	3	0	0	0	0	192
9/13 7.0 0 6 3 8 3 5 0 0 3 202 2 0 0 13 0 0 0	9/1	13 7.0	0	6	3	8	3	5	0	0	3	202	2	0	0	13	0	0	0	0	24
2 9.0 0 12 5 9 3 10 0 0 3 380 4 0 0 16 0 0 0		2 9.0	0	12	5	9	3	10	0	0	3	380	4	0	0	16	0	0	0	0	442

				Shat	tera	ck M	ount	ain F	all	2017	- Rus	sell,	M	ass	achuse	etts				
Date	HRS	BV	TV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	MK	TOTAL
9/8	5.5		0	5	1	0	1	0	0	0	7	0	0	0	2	0	0	0	0	16
9/9	6.0		0	0	- 1	0	5	0	0	0	61	0	0	0	0	0	0	0	0	67
9/10	7.3		0	1	2	0	8	1	0	0	174	0	0	0	1	2	0	0	0	189
9/11	5.0		0	1	0	0	3	1	0	0	49	0	0	0	2	0	0	0	0	56
9/12	7.0		0	2	- 1	4	11	2	0	0	603	0	0	0	2	1	0	1	0	627
9/13	4.8		0	1	0	0	3	0	0	0	236	0	0	0	1	0	0	0	0	241
9/15	4.5		0	0	0	0	3	0	0	0	33	0	0	0	2	1	0	2	0	41
9/17	5.8		0	1	2	0	3	0	0	0	65	0	0	0	0	0	0	0	0	71
9/18	5.0		0	1	1	0	16	1	0	0	60	0	0	0	1	0	0	0	0	80
9/20	4.3		0	0	0	0	2	0	0	0	3	0	0	0	0	0	0	0	0	5
9/21	7.3		0	2	4	0	14	2	0	0	495	0	0	0	2	0	0	0	0	519
9/22	5.8		0	1	0	2	19	1	0	0	113	0	0	0	2	0	0	0	0	138
9/23	4.3		0	0	0	1	1	0	0	0	4	0	0	0	0	0	0	0	0	6
9/28	5.0		2	0	0	0	2	0	0	0	1	0	0	0	1	0	0	0	0	6
9/29	5.0		10	0	1	1	3	2	0	0	0	0	0	0	1	0	0	0	0	18
10/1	4.8		0	0	0	1	3	1	0	0	0	0	0	0	2	0	1	0	0	8
10/2	5.0		7	0	1	0	4	0	0	0	0	- 1	0	0	0	0	0	0	0	13
10/3	5.0		5	0	1	0	2	5	0	0	0	0	0	0	0	0	0	0	0	13
10/10	5.5		2	2	2	0	39	3	0	1	0	- 1	0	0	10	1	0	0	0	61
10/11	4.0		2	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	5
10/16	4.0		8	0	- 1	0	10	1	0	0	0	- 1	0	0	0	3	0	0	0	24
10/20	6.0		27	0	0	0	22	4	1	0	0	12	0	0	2	3	0	0	0	71
10/31	5.0		8	0	1	1	5	0	0	0	0	- 11	0	0	1	0	1	0	0	28
11/4	6.5		26	0	0	1	6	2	0	10	0	25	0	0	0	0	0	1	0	71
11/7	3.5		3	0	1	1	2	2	0	10	0	7	0	0	1	0	0	1	0	28
25	131.5		100	17	20	12	189	28	1	21	1904	58	0	0	34	11	2	5	0	2402

				Mic	ldle	Sch	ool F	all 2	017	- Tor	ringto	n, C	or	ne	cticcc	ut				
Date	HRS	BV	TV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	Othr	TOTAL
9/7	3.0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9/8	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/9	2.0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
9/10	6.3	0	0	0	0	0	- 1	0	0	0	118	0	0	0	0	0	0	1	0	120
9/11	6.3	0	0	0	0	0	0	0	0	0	155	0	0	0	1	0	0	0	0	156
9/12	5.5	0	0	- 1	- 1	0	- 1	1	0	0	339	0	0	0	1	0	0	1	0	345
9/13	3.8	6	0	2	2	0	0	0	0	0	203	0	0	0	0	0	0	0	0	213
9/15	5.0	0	0	0	3	- 1	- 1	0	0	0	11	0	0	0	0	0	0	0	0	16
9/17	6.3	0	0	1	0	0	0	2	0	0	49	0	0	0	1	0	0	2	0	55
9/18	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/21	3.0	0	0	0	0	0	0	2	0	0	4	0	0	0	3	0	0	1	0	10
9/22	5.5	0	0	1	- 1	0	2	1	0	0	6	0	0	0	0	0	0	0	0	11
9/23	2.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	51.5	6	0	6	7	1	5	6	0	0	890	0	0	0	6	0	0	5	0	932

			Je	ohnn	yca	ke M	ount	ain F	all :	2017	- Burl	ingt	on	, C	onnec	ticut				
Date	HRS	BV	TV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	UE	TOTAL
9/9	3.5	0	0	11	2	1	3	0	0	1	16	0	0	0	4	0	0	0	0	38
9/10	6.0	2	5	6	5	0	6	0	0	0	462	4	0	0	2	0	0	0	0	492
9/11	6.0	6	0	5	4	0	2	1	0	0	505	0	0	0	3	0	0	0	0	526
9/13	6.0	0	0	0	- 1	1	0	0	0	0	93	0	0	0	0	0	0	0	0	95
9/15	4.0	5	0	4	3	0	0	0	0	1	38	0	0	0	0	0	0	0	0	51
9/17	4.0	0	0	1	0	1	2	4	0	0	30	0	0	0	0	0	0	0	0	38
6	29.5	13	5	27	15	3	13	5	0	2	1144	4	0	0	9	0	0	0	0	1240

				C	hes	tnut	Hill	all 2	2017	7 - Lit	chfiel	ld, C	on	ne	cticut					
Date	HRS	BV	TV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	Othr	TOTAL
9/2	2.3	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	20
9/8	3.0	0	0	3	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	21
9/9	6.8	0	0	1	1	0	3	0	0	0	45	0	0	0	0	0	0	0	0	50
9/10	6.5	0	0	1	3	0	4	0	0	0	221	0	0	0	1	0	0	0	0	230
9/11	6.3	0	0	0	2	0	4	0	0	0	601	0	0	0	1	0	0	0	0	608
9/12	7.0	0	0	0	3	0	2	0	0	0	264	0	0	0	4	0	0	0	0	273
9/13	5.5	0	0	1	0	0	1	0	0	0	115	0	0	0	1	0	0	0	0	118
9/15	6.0	0	0	0	1	0	2	0	0	0	23	0	0	0	0	0	0	0	0	26
9/16	4.5	0	0	1	2	1	2	0	0	0	6	0	0	0	1	0	0	0	0	13
9/17	6.0	0	0	0	0	0	5	0	0	0	26	0	0	0	1	0	0	0	0	32
9/21	5.3	0	0	1	0	0	0	0	0	0	223	0	0	0	1	0	0	3	0	228
9/22	4.8	0	0	1	0	0	3	0	0	0	55	0	0	0	1	0	0	0	0	60
9/23	3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
9/24	2.8	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2
9/28	1.0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	3
9/29	3.0	0	0	0	4	0	1	0	0	0	11	0	0	0	2	1	0	0	0	19
16	74.0	0	0	10	17	1	27	0	0	0	1631	0	0	0	14	1	0	3	0	1704

				w	hite	Men	noria	l Fal	20	17 - L	itchfi	eld,	Co	onn	ecticu	t				
Date	HRS	BV	TV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	Othr	TOTAL
9/8	1.0		0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
9/11	2.0		0	0	0	0	0	2	0	1	21	0	0	0	0	0	0	0	0	24
9/12	0.5		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/13	0.8		0	0	0	0	0	0	0	1	19	- 1	0	0	1	0	0	0	0	22
9/15	1.5		0	0	0	0	0	0	0	0	13	1	0	0	0	0	0	1	0	15
9/18	1.7		0	0	0	0	0	1	0	1	2	- 1	0	0	0	0	0	- 1	1	6
9/20	1.2		0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	1	1	4
9/21	1.2		0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	3
9/22	2.5		2	0	0	0	0	2	0	6	41	0	0	0	0	0	0	6	5	57
9/28	1.2		0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3
10	13.6		2	1	0	1	1	6	0	12	98	3	0	0	1	2	0	9	7	136

				В	otsfo	ord ⊦	till Fa	all 20)17	- Bric	lgewa	iter,	Co	nn	ecticu	ıt				
Date	HRS	BV	TV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	Othr	TOTAL
9/10	3.0	0	0	0	0	0	4	0	0	0	25	0	0	0	1	1	0	1	0	32
9/11	6.0	0	0	3	2	0	9	1	0	0	495	1	0	0	2	1	0	0	0	514
9/12	6.3	0	0	3	2	1	5	0	0	0	395	0	0	0	1	0	0	- 1	0	408
9/13	4.3	0	0	1	2	0	4	0	0	0	28	0	0	0	2	0	0	1	0	38
9/14	2.5	0	0	0	0	0	4	0	0	0	6	0	0	0	0	0	0	0	0	10
9/15	4.8	0	0	2	1	1	7	0	0	0	54	0	0	0	2	1	0	0	0	68
9/16	1.0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	- 1	0	2
9/17	3.5	0	0	3	0	0	9	1	0	0	12	0	0	0	2	2	0	1	0	30
9/21	4.8	0	0	4	- 1	0	5	2	0	0	151	0	0	0	3	0	0	2	0	168
9/22	4.8	0	0	3	4	0	12	0	0	0	95	0	0	0	2	1	0	2	0	119
9/23	2.8	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	- 1	0	4
11	43.5	0	0	19	12	2	60	4	0	0	1264	1	0	0	15	6	0	10	0	1393

				м	oho	nk P	reser	ve Fa	II 2	017 -	New	Pal	z,	Ne	w Yor	k				
Date	HRS	BV	TV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	Othr	TOTAL
8/22	2.0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	2
8/24	2.5	0	0	1	0	1	0	1	0	0	3	0	0	0	0	1	0	0	0	7
8/26	5.0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	2
8/28	3.3	0	0	2	0	0	1	2	0	0	8	0	0	0	0	0	2	0	0	15
8/31	4.8	0	0	2	1	0	1	1	0	0	2	1	0	0	1	0	0	0	0	9
9/2	6.0	0	0	1	1	0	1	0	0	0	4	1	0	0	0	0	0	0	0	8
9/5	3.3	0	0	3	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	5
9/8	7.0	0	0	5	4	0	2	0	0	0	14	2	0	0	0	0	0	1	0	28
9/9	7.8	0	0	3	2	1	5	1	0	0	21	1	0	0	0	2	0	3	0	39
9/10	7.0	0	0	3	2	0	5	1	0	1	37	1	0	0	1	0	1	0	0	52
9/11	7.3	0	0	1	1	0	2	3	0	0	96	0	0	0	2	0	0	1	0	106
9/12	7.0	0	0	2	0	2	4	0	0	0	58	1	0	0	3	2	1	0	0	/3
9/13	5.5	0	0	2	0	0	22	1	0	0	570	1	0	0	0	0	0	0	0	(02
9/15	5.0	0	0		2	4	10	1	0	0	1224	1	0	0	2	1	0	0	0	1056
9/16		0	0	2	2	1	20		0	0	017	1	0	0	6	1	0	1	0	1250
0/10	9.0	0	0	10	2	1	39	0	0	0	7/2	0	0		4	0	1	0	0	9/2
9/10	5.8	0	0	10	0	0	+3	1	0	0	647	0	0	0	4	0	1	0	0	110
9/20	8.0	0	0	7	1	0	26	4	0	1	130	2	0	0	4	1	0	0	0	176
9/21	6.3	0	0	3	4	1	20	-	0	0	30	0	0	0		1	0	0	0	51
9/22	7.5	0	0	7	10	3	11	3	0	0	46	0	0	0	1	0	0	0	0	81
9/23	4.3	0	0	1	2	1	2	0	0	- 1	10	0	0	0	1	0	1	0	0	19
9/24	6.5	0	0	2	1	0	13	3	0	0	2	1	0	0	0	0	0	2	0	24
9/25	5.0	0	0	1	2	0	3	1	0	0	2	1	0	0	0	0	0	1	0	11
9/28	5.0	0	0	4	4	0	1	0	0	0	0	0	0	0	0	0	0	1	0	10
9/30	6.5	0	0	5	0	0	2	1	0	2	0	0	0	0	0	0	2	0	0	12
10/1	6.0	0	0	0	- 1	0	0	0	0	0	0	- 1	0	0	0	1	0	1	0	4
10/4	2.0	0	0	0	2	0	0	1	0	1	0	2	0	0	0	0	0	0	0	6
10/6	6.0	0	0	0	3	0	11	1	0	0	0	0	0	0	1	1	2	0	0	19
10/7	7.0	0	0	0	- 1	2	10	1	0	0	0	1	0	0	2	1	3	1	0	22
10/10	7.0	0	0	1	- 1	1	21	2	0	0	0	0	0	0	1	2	1	1	0	31
10/13	8.0	0	0	0	0	1	11	3	0	1	0	3	0	0	1	0	1	2	0	23
10/16	4.8	0	27	0	2	0	17	6	0	2	0	5	0	1	0	4	0	1	0	65
10/17	4.5	0	0	0	2	1	56	3	0	2	0	2	0	0	1	0	0	0	0	67
10/18	5.0	0	0	1	3	2	20	4	0	3	0	7	0	0	1	0	0	0	0	41
10/19	5.3	0	7	0	2	1	19	3	0	3	0	5	0	0	1	3	0	1	0	45
10/20	3.8	0	2	0	3	1	7	6	0	2	0	9	0	1	0	1	0	0	0	32
10/21	6.0	0	10	0	- 1	4	43	1	0	1	0	4	1	0	1	0	0	0	0	59
10/22	5.3	0	10	0	2	2	45	4	0	4	0	5	0	0	0	0	2	0	0	78
10/25	63	0	65	0	6	1	6	10	0		0	4	0	0	0	1	0	0	0	08
10/27	6.0	0	24	0	0	1	16	2	1	1	0		0	0	0	1	1	0	0	57
10/28	7.3	0	31	0	4	2	97	13	0	0	0	11	0	0	1	2	0	0	0	161
10/31	6,3	0	45	1	2	2	19	8	0	0	0	11	0	0	0	1	0	0	0	89
11/1	2.5	0	0	0	0	0	5	1	0	0	0	0	0	0	0	0	1	0	0	7
11/2	2.3	0	0	0	0	0	4	2	0	0	0	3	0	0	0	0	0	1	0	10
11/5	2.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
11/8	4.0	0	99	0	3	2	2	1	0	12	0	53	0	0	0	0	0	0	0	172
11/9	5.5	0	43	0	2	1	5	1	1	4	0	99	0	0	0	0	0	0	0	156
11/11	5.5	0	14	0	3	0	4	0	0	5	0	23	0	0	0	0	0	0	0	49
11/14	4.0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
11/16	2.0	0	0	0	- 1	1	0	0	0	0	0	4	0	0	0	0	0	0	0	6
11/17	3.5	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3
11/20	4.0	2	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	1	0	6
11/21	6.5	0	18	0	2	1	7	3	0	0	0	12	0	2	0	0	0	0	0	45
11/24	5.0	0	1	0	0	0	2	0	0	0	0	5	0	0	0	0	0	0	0	8
11/26	4.8	0	0	0	2	1	1	1	0	0	0	4	0	0	0	0	0	0	0	9
11/27	3.5	0	0	0	3	1	4	3	0	1	0	3	0		0	0	0	0	0	16
11/28	3.5	11	471	0	105	42	645	115	0	0	4050	305	1	2	50	20	0	10	0	6012
1 79	313.0		4/		(115)	43	D45	115			4054	1112	- -	. /		/ 6	211			DU1 /

				Bear	Mo	unta	in Fa	II 20	17 -	Fort	Mont	gom	ery	/, N	New Y	ork				
Days	HRS	BV	TV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	URC	Othr	TOTAL
9/1	4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/5	6.0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
9/7	6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/8	4.0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
9/9	2.0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
9/11	8.0	0	0	1	3	0	0	0	0	0	17	0	0	0	2	0	0	0	0	23
9/12	8.0	0	0	5	3	1	10	2	0	0	873	0	0	0	1	1	0	0	0	896
9/13	7.0	0	0	2	7	0	7	0	0	0	90	0	0	0	4	0	0	0	0	110
9/14	7.0	0	0	3	4	1	2	2	0	0	5	0	0	0	1	0	0	1	0	19
9/15	8.0	0	0	2	6	1	6	1	0	0	324	0	0	0	0	0	0	0	0	340
9/16	8.0	0	0	2	2	0	5	0	0	0	5	0	0	0	0	0	0	2	0	16
9/17	4.0	0	0	2	11	1	6	3	0	0	171	0	0	0	0	0	0	2	0	196
9/18	8.0	0	0	0	1	0	2	0	0	0	4	0	0	0	5	0	0	1	0	13
9/19	7.0	0	0	0	9	0	3	0	0	0	4	0	0	0	0	0	0	1	0	17
9/20	7.0	0	0	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	4
9/21	7.5	0	0	2	1	0	5	1	0	0	143	0	0	0	0	0	0	0	0	152
9/22	8.0	0	0	0	15	0	3	0	0	0	186	0	0	0	3	0	0	0	0	207
9/23	6.0	0	0	0	1	0	2	0	0	0	3	0	0	0	1	0	0	0	0	7
9/25	6.0	0	0	1	1	0	1	1	0	0	2	0	0	0	1	0	0	0	0	7
9/26	5.0	0	0	0	0	0	0	3	0	0	1	0	0	0	0	0	0	0	0	4
9/27	6.0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	4
9/28	5.0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
9/29	6.0	0	0	0	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	6
9/30	4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/1	4.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2	6.5	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	3
10/3	6.0	0	0	8	3	0	7	0	0	0	0	1	0	0	2	0	2	0	0	23
10/4	6.0	0	0	1	4	1	6	1	1	0	0	2	0	0	0	1	3	1	0	21
10/5	4.5	0	0	1	4	0	7	0	0	0	0	0	0	0	0	0	0	0	0	12
10/6	4.5	0	0	3	1	0	2	2	0	0	0	0	0	0	0	0	0	1	0	9
10/7	4.5	0	0	3	8	0	2	0	1	0	0	0	0	0	0	0	4	1	0	19
10/10	3.0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
10/12	4.0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	1	0	0	6
10/17	4.0	0	0	0	0	0	9	1	0	0	0	0	0	0	0	0	0	2	0	12
10/19	4.0	0	0	0	2	0	10	3	0	0	0	2	0	0	0	0	0	1	0	18
10/23	3.0	0	0	1	5	1	8	2	0	0	0	0	0	0	2	0	1	0	0	20
10/25	2.5	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
11/2	4.0	0	0	0	0	0	2	0	0	0	0	4	0	0	0	0	0	0	0	6
11/3	3.5	0	0	1	2	0	2	3	0	0	0	0	0	0	0	0	0	0	0	8
11/8	3.0	0	0	0	- 0	0	-	- 1	0	0	0	0	0	0	0	0	0	0	0	1
40	215.0	0	0	42	108	6	117	28	2	0	1828	9	0	0	23	2	11	13	0	2189

					Mo	unt	Peter	Fall	201	7 - V	Varwi	ck, 1	٩e	νY	ork					
Date	HRS	BV	TV	OS	BE	NH	\$\$	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	Othr	TOTAL
9/1	7.0	0	1	2	2	0	1	0	0	0	4	0	0	0	1	1	0	1	0	13
9/2	6.5	0	0	1	0	0	5	0	0	0	11	0	0	0	0	0	0	0	0	17
9/4	3.0	0	0	2	0	0	4	0	0	0	2	0	0	0	0	0	0	0	0	8
9/6	3.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9/7	6.0	0	0	0	1	0	0	0	0	0	2	0	0	0	1	0	0	0	0	4
9/8	8.0	0	0	3	7	1	5	0	0	0	42	0	0	0	0	0	0	0	0	58
9/9	8.0	0	0	1	5	0	3	1	0	0	12	0	0	0	2	0	0	0	0	24
9/10	9.0	0	0	0	0	0	4	1	0	0	230	0	0	0	1	0	0	2	0	238
9/11	8.0	0	0	2	4	0	5	0	0	0	289	0	0	0	1	0	0	0	0	301
9/12	7.5	0	0	1	2	0	5	1	0	0	392	0	0	0	2	0	0	2	0	405
9/13	8.0	0	0	3	2	0	10	1	0	0	922	0	0	0	3	1	0	0	0	942
9/14	5.5	0	0	3	0	0	6	0	0	0	41	0	0	0	0	0	0	1	0	51
9/15	8.5	0	0	6	1	0	17	4	0	0	493	0	0	0	3	1	0	0	0	525
9/16	8.0	0	0	8	5	1	24	1	0	0	448	0	0	0	4		0	1	0	493
9/17	9.0	0	0	2	- 2	1	20	4	0	1	609	0	0	0	2	1	0	4		685
9/10	6.5	0	0	3	2	0	17	- 4	0	0	10	0	0	0	3	1	0	0	- 0	37
9/20	8.0	0	0	0	1	1	6	0	0	0	71	0	0	0	0	1	0	1	0	81
9/21	8.5	0	0	5	0	0	6	2	0	1	1764	0	0	0	2	0	0	0	0	1780
9/22	9.0	0	0	9	1	2	29	1	0	0	238	0	0	0	0	0	0	7	0	287
9/23	7.0	0	0	1	1	1	7	3	0	0	36	0	0	0	3	0	0	2	0	54
9/24	7.5	0	0	0	0	0	2	0	0	0	19	1	0	0	0	1	0	0	0	23
9/25	6.0	0	0	1	0	1	12	0	0	0	9	0	0	0	0	0	0	0	0	23
9/26	7.5	0	0	7	2	0	3	4	0	0	8	0	0	0	1	0	0	0	0	25
9/27	7.0	2	0	9	2	0	2	0	0	0	56	0	0	0	1	0	0	0	0	72
9/28	8.0	0	0	8	2	1	18	0	0	0	4	0	0	0	8	1	0	2	0	44
9/29	7.0	0	0	0	1	0	10	2	0	0	9	0	0	0	0	0	1	0	0	23
9/30	7.5	0	0	4	0	0	13	3	0	0	0	0	0	0	0	0	1	0	0	21
10/1	7.5	0	0	0	0	0	2	2	0	1	6	0	0	0	1	0	0	0	0	12
10/2	5.5	0	0	1	0	0	6	1	0	0	1	1	0	0	0	0	2	0	0	12
10/3	7.5	1	23	2	0	0	21	8	0	1	2	0	0	0	6	0	2	1	0	67
10/4	0.5	0	0	2	- 1	0	0	2	0	0	0	0	0	1	0	0	1	0	0	15
10/5	7.5	2	4	2	0	1	15	4	0	2	0	0	0	0	2	0	2	0	0	26
10/7	7.0	0	4	1	1	1	18	1	0	0	0	0	0	0	3	0	2	0	0	31
10/8	3.0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	4
10/9	2.0	- 0	0	0	0	0	- 1	- 0	0	0	0	0	0	0	0	0	0	0	0	1
10/10	7.5	25	8	1	2	1	41	6	0	3	1	0	0	0	2	0	1	0	0	91
10/11	7.5	0	2	3	4	2	30	3	0	0	3	0	0	0	11	1	6	0	0	65
10/12	7.0	0	34	4	0	0	29	1	0	2	0	0	0	0	1	0	1	0	0	72
10/13	6.5	0	16	2	0	0	17	3	0	3	0	0	0	0	2	2	0	2	0	47
10/14	5.0	0	0	0	0	0	6	1	0	0	0	1	0	0	0	0	0	1	0	9
10/15	7.0	0	0	0	1	1	5	0	0	0	0	0	0	0	0	1	0	0	0	8
10/16	6.0	0	28	0	0	1	57	10	0	9	0	0	0	0	0	1	1	0	0	107
10/17	7.3	5	9	0	1	0	15	0	0	1	0	4	0	0	0	0	0	0	0	35
10/18	7.5	0	0	0	2	0	5	5	1	0	0	0	0	0	0	0	1	0	0	14
10/19	5.0	0	0	0	0	0	10	3	0	0	0	2	0	0	0	0	0	0	0	15
10/20	8.0	2	32	0	3	2	69	7	0	2	0	2	0	0	2	1	0	0	0	122
10/21	5.8 7.0	0	5	0	0	- 0	12	2	0	2	0	5	0	0	1	0	0	0	0	19
10/22	7.0	0	1	0	0	1	11	2	0	1	0	0	0	0	0	0	0	1	0	19
10/25	5.5	1	0	1	0	1	13	2	0	1	0	5	0	0	4	0	0	0	- 0	13
10/26	6.5	1	3	0	2	0	10	2	0	2	0	5	0	0	+	0	0	0	0	25
10/27	7,0	0	0	0	2	2	12	0	0	9	0	6	0	0	0	0	1	0	0	32
10/28	7.0	0	2	0	- 1	0	15	2	0	0	0	3	0	0	1	0	0	0	0	24
10/29	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/30	6.0	4	7	0	4	0	3	3	0	0	0	2	0	0	2	0	0	0	0	25
10/31	8.0	4	33	0	3	0	17	0	0	0	0	3	0	0	0	0	0	0	0	60
11/1	2.5	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
11/2	5.5	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
11/3	6.8	0	17	0	0	2	11	2	0	2	0	3	0	0	0	0	0	0	0	37
11/4	7.3	11	14	0	1	1	23	6	0	27	0	25	0	1	0	0	0	4	0	113
11/5	4.0	0	0	0	3	0	6	2	0	0	0	1	0	0	0	0	0	0	0	12
11/6	2.5	0	7	0	0	0	5	0	0	0	0	2	0	0	0	1	0	0	0	15
11/7	6.0	1	29	0	1	0	1	0	0	6	0	25	0	0	0	1	0	0	0	64
11/8	6.8	3	15	0	3	0	4	1	0	12	0	15	0	1	0	0	0	0	0	54
11/9	6.5	0	1	0		0	7	1	0	3	0	20	0	0	0	0	0	0	0	33
11/10	6.8	0	12	0	1	0	5	1	0	11	0	73	0	0	1	0	0	0	0	104
11/11	/.3	1	3	U	0	0	6	2	0	15	0	20	0	0	U	0	0	2	- 0	49
11/12	4.5	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
11/13	5.0	0	-	0	2	0	1	0	0	2	0	2	0	1	0	0	0	0	- 0	12
11/14		0	2	4 U	- 2	0		0	0				/			0	0	U U	0	1.3
11/14	7.0	32	2	0	2	0	0	0	0	-	-	-	-	0	-	0	0	1	0	40

Date His EV CH CH CH CH CH						Che	stnu	t Rid	ge Fa	II 2	017 -	Bedf	ord,	Ne	ew	York					
bbb bbb </th <th>Date</th> <th>HRS</th> <th>BV</th> <th>TV</th> <th>OS</th> <th>BE</th> <th>NH</th> <th>SS</th> <th>CH</th> <th>NG</th> <th>RS</th> <th>BW</th> <th>RT</th> <th>RL</th> <th>GE</th> <th>AK</th> <th>ML</th> <th>PG</th> <th>UR</th> <th>Othr</th> <th>TOTAL</th>	Date	HRS	BV	TV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	Othr	TOTAL
abs b	8/25	4.0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
no. no. <td>8/27</td> <td>6.8</td> <td>0</td> <td>0</td> <td>1</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>5</td>	8/27	6.8	0	0	1	1	0	0	0	0	0	1	0	0	0	1	0	0	1	0	5
129 5 0	8/28	7.0	0	0	2	1	0	1	0	0	0	1	0	0	0	0	0	0	1	0	6
100 6.4 3 0.0 0 0 0 0 <td>8/29</td> <td>5.5</td> <td>0</td> <td>0</td> <td>5</td> <td>4</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>1</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>12</td>	8/29	5.5	0	0	5	4	0	1	0	0	1	1	0	0	0	0	0	0	0	0	12
BA1 Coc D Co D	8/30	6.8	3	0	1	1	0	0	0	0	0	2	0	0	0	0	0	0	1	0	8
91 72 0	8/31	6.0	0	0	7	0	2	0	0	0	0	0	0	0	0	2	0	1	0	0	12
94 7.0 0	9/1	7.0	0	0	2	1	1	1	0	0	1	5	0	0	0	1	0	0	4	0	16
94 7.0 0 0 0 1 0 0 1 2 0	9/2	7.0	0	0	1	5	0	0	1	0	3	8	0	0	0	0	0	0	7	0	25
98 7.0 0	9/4	7.0	0	0	7	0	0	0	1	0	0	1	2	0	0	0	0	0	4	0	15
aff ab 0	9/5	7.0	0	0	9	0	0	0	1	0	0	4	0	0	0	0	0	0	0	0	14
nm nm<	9/7	8.0	0	0	7	2	0	0	0	0	0	7	0	0	0	0	0	0	3	0	19
99 80 0 0 0 10 <td>9/8</td> <td>8.0</td> <td>0</td> <td>0</td> <td>7</td> <td>3</td> <td>1</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>13</td> <td>0</td> <td>0</td> <td>0</td> <td>5</td> <td>0</td> <td>0</td> <td>3</td> <td>0</td> <td>34</td>	9/8	8.0	0	0	7	3	1	2	0	0	0	13	0	0	0	5	0	0	3	0	34
N10 B2 D <thd< th=""> <thd< th=""> <thd< th=""> <thd< th=""></thd<></thd<></thd<></thd<>	9/9	8.0	0	0	4	5	0	14	0	0	0	19/		0	0	3	0	0	6	0	217
N11 N2 N0 N <td>9/10</td> <td>0.3</td> <td>0</td> <td>0</td> <td>2</td> <td>2</td> <td>1</td> <td>14</td> <td>2</td> <td>0</td> <td>0</td> <td>261</td> <td>4</td> <td>0</td> <td>0</td> <td>4</td> <td>2</td> <td>0</td> <td>4</td> <td>0</td> <td>49/</td>	9/10	0.3	0	0	2	2	1	14	2	0	0	261	4	0	0	4	2	0	4	0	49/
N11 Y5 0 0 1	9/12	8.0	0	0	5	1	5	43	2	0	0	194	0	0	0	23	1	0	8	0	280
null yz o <td>9/13</td> <td>7.5</td> <td>0</td> <td>0</td> <td>12</td> <td>6</td> <td>2</td> <td>17</td> <td>0</td> <td>0</td> <td>1</td> <td>54</td> <td>0</td> <td>0</td> <td>0</td> <td>10</td> <td>2</td> <td>0</td> <td>3</td> <td>0</td> <td>107</td>	9/13	7.5	0	0	12	6	2	17	0	0	1	54	0	0	0	10	2	0	3	0	107
nyns 8.0 0 4. 15 1 0 0.44 2 0 0 12 0 4 0 9.9 9/17 7.0 0 1 10 0 2 13 0 0 14 0 0 25 0 0 10 20 10 10 25 10 0 10 10 10 10 25 10 0 10 <	9/14	7.8	0	0	4	1	2	7	0	0	0	0	0	0	0	13	3	0	0	0	30
m/16 63. 0 12 5 3. 25 4 0 0.35 2 0 0 36 12 1 4 0 13. 9/17 6.0 0 0 0 0 0 10	9/15	8.0	0	0	8	0	4	15	1	0	0	44	2	0	0	11	5	0	4	0	94
9/17 7.0 0 1 1 0 2 35 5 0 1 0 1 0 0 25 0 0 10 20 10 20 10 0 10 20 10 0 10 20 10 10 20 10 10 20 10 10 20 10 10 20 10 10 20 10 10 20 10 <	9/16	8.3	0	0	12	5	3	25	4	0	0	35	2	0	0	26	17	1	4	0	134
9/16 6.0 0 <td>9/17</td> <td>7.0</td> <td>0</td> <td>1</td> <td>11</td> <td>0</td> <td>6</td> <td>35</td> <td>5</td> <td>0</td> <td>0</td> <td>148</td> <td>1</td> <td>0</td> <td>0</td> <td>36</td> <td>12</td> <td>0</td> <td>4</td> <td>0</td> <td>259</td>	9/17	7.0	0	1	11	0	6	35	5	0	0	148	1	0	0	36	12	0	4	0	259
9/19 6.0 0 <td>9/18</td> <td>8.0</td> <td>0</td> <td>0</td> <td>7</td> <td>0</td> <td>2</td> <td>33</td> <td>6</td> <td>0</td> <td>0</td> <td>40</td> <td>1</td> <td>0</td> <td>0</td> <td>20</td> <td>15</td> <td>0</td> <td>2</td> <td>0</td> <td>126</td>	9/18	8.0	0	0	7	0	2	33	6	0	0	40	1	0	0	20	15	0	2	0	126
9/20 8.0 0 0 0 0 0 0 0 0 1 0 2 9/21 8.0 0 0 0 2 0 0 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 0 <th< td=""><td>9/19</td><td>6.0</td><td>0</td><td>0</td><td>4</td><td>0</td><td>0</td><td>27</td><td>2</td><td>0</td><td>0</td><td>14</td><td>0</td><td>0</td><td>0</td><td>5</td><td>0</td><td>0</td><td>0</td><td>0</td><td>52</td></th<>	9/19	6.0	0	0	4	0	0	27	2	0	0	14	0	0	0	5	0	0	0	0	52
9/21 8.0 0 0 1 2 0 0 1 1 0 3 0 3 0 3 0 3 0 3 0 3 0 3 0 3 0 3 0 3 0 3 0 3 0 3 0 3 0 3 0 3 0 <td>9/20</td> <td>8.0</td> <td>0</td> <td>0</td> <td>8</td> <td>- 1</td> <td>1</td> <td>27</td> <td>0</td> <td>0</td> <td>0</td> <td>4</td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> <td>0</td> <td>2</td> <td>0</td> <td>46</td>	9/20	8.0	0	0	8	- 1	1	27	0	0	0	4	0	0	0	2	1	0	2	0	46
9/22 8.5 0 1 4 2 3 4 1 0 0 24 0 0 0 1 0 6 0 9 9/24 8.0 0 0 0 1 0 1 0 1 0 1 0 <t< td=""><td>9/21</td><td>8.0</td><td>0</td><td>0</td><td>8</td><td>1</td><td>0</td><td>52</td><td>0</td><td>0</td><td>0</td><td>226</td><td>0</td><td>0</td><td>0</td><td>17</td><td>2</td><td>0</td><td>1</td><td>0</td><td>307</td></t<>	9/21	8.0	0	0	8	1	0	52	0	0	0	226	0	0	0	17	2	0	1	0	307
mls mu	9/22	8.5	0	1	4	2	3	41	1	0	0	212	0	0	0	3	3	0	3	0	273
m/m m/m m <td>9/23</td> <td>8.0</td> <td>0</td> <td>0</td> <td>3</td> <td>1</td> <td>0</td> <td>46</td> <td>1</td> <td>0</td> <td>0</td> <td>24</td> <td>0</td> <td>0</td> <td>0</td> <td>11</td> <td>1</td> <td>0</td> <td>6</td> <td>0</td> <td>93</td>	9/23	8.0	0	0	3	1	0	46	1	0	0	24	0	0	0	11	1	0	6	0	93
m.m. o n.d o d g/2/2 d	9/24	8.0	0	0	2	1	0	25	3	0	0	8	0		0	3	1	0	5	0	48
n.m. 0 0 0 1 1 0 0 0 1 2 0 0 0 1 2 1 0	9/25	0.0	0	0	10	2	1	17	9	0	1	9	0	0	0	0	2	0 2	C (0	
<th< td=""><td>9/27</td><td>7.0</td><td>0</td><td>0</td><td>11</td><td>2</td><td>2</td><td>1/</td><td>2</td><td>0</td><td>0</td><td>1</td><td>0</td><td>0</td><td>0</td><td>2</td><td>2</td><td>- 2</td><td>4</td><td>0</td><td>48</td></th<>	9/27	7.0	0	0	11	2	2	1/	2	0	0	1	0	0	0	2	2	- 2	4	0	48
999 80 0 3 5 1 399 3 0 0 23 0 0 23 0 0 23 0 0 0 23 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0 0	9/28	8.0	0	0	1	2	1	31	4	0	0	0	1	0	0	- 6	0	0	5	0	51
990 5.4 0 1 2 3 1 0 0 0 0 1 0 <td>9/29</td> <td>8.0</td> <td>0</td> <td>3</td> <td>3</td> <td>5</td> <td>1</td> <td>39</td> <td>3</td> <td>0</td> <td>0</td> <td>23</td> <td>0</td> <td>0</td> <td>0</td> <td>23</td> <td>1</td> <td>2</td> <td>4</td> <td>0</td> <td>107</td>	9/29	8.0	0	3	3	5	1	39	3	0	0	23	0	0	0	23	1	2	4	0	107
101 7.5 0 2 7 0 0 1 1 1 0 3 102 7.8 0 2 7 2 0 0 1 0 11 11 0 11 <td>9/30</td> <td>5.4</td> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>1</td> <td>13</td> <td>1</td> <td>0</td> <td>0</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>25</td>	9/30	5.4	0	1	2	3	1	13	1	0	0	3	0	0	0	1	0	0	0	0	25
102 7.8 0 2 4 5 3 17 16 0 2 7 2 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 </td <td>10/1</td> <td>7.5</td> <td>0</td> <td>4</td> <td>2</td> <td>0</td> <td>0</td> <td>10</td> <td>8</td> <td>0</td> <td>2</td> <td>7</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>1</td> <td>1</td> <td>0</td> <td>36</td>	10/1	7.5	0	4	2	0	0	10	8	0	2	7	0	0	0	1	0	1	1	0	36
103 7.8 0 7.9 1 0 20 6 0 0 3 0 0 1 1 0 6 6 104 7.3 4 9 1 0 1 0 0 <th< td=""><td>10/2</td><td>7.8</td><td>0</td><td>22</td><td>4</td><td>5</td><td>3</td><td>17</td><td>16</td><td>0</td><td>2</td><td>7</td><td>2</td><td>0</td><td>0</td><td>9</td><td>1</td><td>0</td><td>- 11</td><td>0</td><td>99</td></th<>	10/2	7.8	0	22	4	5	3	17	16	0	2	7	2	0	0	9	1	0	- 11	0	99
104 7.3 4 9 4 2 5 2 0 <td>10/3</td> <td>7.8</td> <td>0</td> <td>7</td> <td>9</td> <td>1</td> <td>0</td> <td>20</td> <td>6</td> <td>0</td> <td>0</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>11</td> <td>0</td> <td>1</td> <td>4</td> <td>0</td> <td>62</td>	10/3	7.8	0	7	9	1	0	20	6	0	0	3	0	0	0	11	0	1	4	0	62
1076 8.0 0 5 6 0 1 5 2 0 0 1 2 0 0 3 1 0 3 1 0 3 1 2 1 0 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 1 2 1 <td>10/4</td> <td>7.3</td> <td>4</td> <td>9</td> <td>4</td> <td>2</td> <td>2</td> <td>5</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>29</td>	10/4	7.3	4	9	4	2	2	5	2	0	0	0	0	0	0	0	0	0	1	0	29
iury e.v u e.v u 1 0 1 0 1 0 5 0 0 1 2 1 3 0 5 1007 5.0 <	10/5	8.0	0	5	6	0	1	5	2	0	0	1	2	0	0	3	1	0	4	0	30
1007 7.5 0 0 0 2 0 0 2 0 0 2 0 <td>10/6</td> <td>8.0</td> <td>0</td> <td>16</td> <td>6</td> <td>1</td> <td>0</td> <td>13</td> <td>4</td> <td>0</td> <td>1</td> <td>0</td> <td>5</td> <td>0</td> <td>0</td> <td>1</td> <td>2</td> <td>1</td> <td>3</td> <td>0</td> <td>53</td>	10/6	8.0	0	16	6	1	0	13	4	0	1	0	5	0	0	1	2	1	3	0	53
100 8.0 0 <td>10/7</td> <td>7.5</td> <td>0</td> <td>0</td> <td>6</td> <td>0</td> <td>1</td> <td>24</td> <td>3</td> <td>0</td> <td>0</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> <td>0</td> <td>1</td> <td>0</td> <td>46</td>	10/7	7.5	0	0	6	0	1	24	3	0	0	2	0	0	0	2	1	0	1	0	46
N10 O O O D <thd< th=""> D <thd< th=""> <thd< th=""></thd<></thd<></thd<>	10/10	5.0	0	0	2	6	0	27	0	0	1	0	1	0	0	5	3	2	6	0	c 60
Introduct Image	10/11	7.3	0	33	14	4	1	81	38	0	1	4	1	0	0	7	10	4	21	0	219
1013 7.8 0 17 2 3 0 3 0 3 0 3 0 1 1 1 2 0 1014 7.8 0 3 0 1 0 <	10/12	7.8	0	26	3	2	1	17	41	0	6	0	3	0	0	11	1	1	9	0	121
Inv 7.8 0 3 3 0 1 9 5 0 0 1 1 0 <td>10/13</td> <td>7.8</td> <td>0</td> <td>17</td> <td>2</td> <td>3</td> <td>0</td> <td>38</td> <td>19</td> <td>0</td> <td>2</td> <td>0</td> <td>3</td> <td>0</td> <td>0</td> <td>1</td> <td>1</td> <td>1</td> <td>2</td> <td>0</td> <td>89</td>	10/13	7.8	0	17	2	3	0	38	19	0	2	0	3	0	0	1	1	1	2	0	89
10106 6.5 1 6 2 2 0 4 3 0 </td <td>10/14</td> <td>7.8</td> <td>0</td> <td>3</td> <td>3</td> <td>0</td> <td>1</td> <td>9</td> <td>5</td> <td>0</td> <td>0</td> <td>1</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>2</td> <td>0</td> <td>26</td>	10/14	7.8	0	3	3	0	1	9	5	0	0	1	1	0	0	0	1	0	2	0	26
101/16 8.0 4 66 1 0 2 0 2 0 1 1 0 0 6 6 0 1 1 1 0 0 0 1 1 1 0 0 0 1 1 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 0 1 0 1 1 0 0 0 0 0 0	10/15	6.5	1	6	2	2	0	4	3	0	0	0	0	0	0	0	2	0	1	0	21
10/17 7.3 0 93 1 0 2 1 2 1 2 1 2 1 1 4 0 13 10/18 8.0 0 132 0 1 0 0 0 0 0 0 0 1 4 0 0 6 6 10/19 8.0 0 173 0 5 1 0 1 0 0 0 1 1 4 0 6 6 10/21 8.0 0 175 2.3 1 0 1 0 1 0	10/16	8.0	4	66	1	0	3	26	3	0	1	1	0	0	0	6	2	0	2	0	115
10/19 8.0 0 10 2 10 0 5 0 1 0 4 0 1 0 4 0 18 0 18 0 18 0 18 0 18 0 1 0 0 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 <	10/17	7.3	0	93	1	0	2	13	9	0	3	0	2	0	- 1	2	1	1	4	0	132
10/19 8.0 0 1 2 0 4 2 17 10 0 1 0 0 0 7 1 4 0 16 10/20 8.3 0 173 10 5 1 0 1 4 0 16 0 1 4 0 16 0 1 4 0 16 0 17 17 17 17 0 </td <td>10/18</td> <td>8.0</td> <td>0</td> <td>130</td> <td>2</td> <td>0</td> <td>1</td> <td>22</td> <td>10</td> <td>0</td> <td>5</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>4</td> <td>0</td> <td>0</td> <td>8</td> <td>0</td> <td>183</td>	10/18	8.0	0	130	2	0	1	22	10	0	5	0	1	0	0	4	0	0	8	0	183
10/20 8.3 0 1 28 0 2 0 1 0 8 0 23 1 28 8 0 2 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 0 1 0 0 0 1 0	10/19	8.0	0	122	0	4	2	17	10	0	1	0	0	0	0	7	1	1	4	0	169
Invest Iso I S3	10/20	8.3	0	173	0	5	1	28	8	0	2	0	1	0	0	1	4	0	10	0	231
Nume Obs O J <td>10/21</td> <td>/.8</td> <td>0</td> <td>1/5</td> <td>2</td> <td>2</td> <td>1</td> <td><u>کر</u> 17</td> <td>17</td> <td>0</td> <td>4</td> <td>0</td> <td>5</td> <td>0</td> <td></td> <td>5</td> <td>1</td> <td>0</td> <td>10</td> <td>0</td> <td>2/8</td>	10/21	/.8	0	1/5	2	2	1	<u>کر</u> 17	17	0	4	0	5	0		5	1	0	10	0	2/8
Image Image <th< td=""><td>10/22</td><td>0.0</td><td>0</td><td>45 41</td><td>0</td><td>3</td><td>2</td><td>12</td><td>1/</td><td>0</td><td>1</td><td>0</td><td>2</td><td>0</td><td>0</td><td>0</td><td>3</td><td>0</td><td>0 </td><td>0</td><td>108</td></th<>	10/22	0.0	0	45 41	0	3	2	12	1/	0	1	0	2	0	0	0	3	0	0 	0	108
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	10/24	3.3	0	5	0	2		0	1	0	0	0	0	0	0	0	0	0	1	0	9
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	10/25	7.5	0	8	1	0	1	9	0	0	1	0	0	0	0	0	0	0	0	0	20
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	10/26	8.0	0	36	2	1	1	26	7	0	4	0	0	0	0	1	2	0	4	0	84
10/28 8.0 9 51 1 0 3 14 6 0 3 0 4 0 1 0 0 4 0 1 0 0 4 0 1 0 0 4 0 0 1 0 0 2 0 1 0 0 2 0 0 2 0 0 1 0 2 0 0 1 0 2 0 0 1 0 2 0 0 1 0 2 0 0 1 1 0 2 0 1 1 0 2 0 0 1 1 0 2 0 1 1 0 2 0 1 1 1 0 2 0 1 1 1 0 2 0 1 1 1 1 1 1 1 1 1 1	10/27	8.0	0	121	1	3	0	17	8	0	5	1	1	0	0	1	1	0	12	0	171
10/30 6.5 0 109 0 2 6 1 0 0 2 0 0 0 12 0 10 6 12 0 0 2 0 0 0 2 0 10 0 12 0 0 2 0 0 10 0 2 0 10 0 0	10/28	8.0	9	51	1	0	3	14	6	0	3	0	4	0	0	1	0	0	4	0	96
10/31 6.8 0 203 0 6 2 13 11 0 2 0 8 0 1 0 0 0 25 25 11/1 40 0 0 0 0 0 0 0 0 0 1 1 0 2 0 12 11/2 78 6 82 0 2 0 14 9 0 <td>10/30</td> <td>6.5</td> <td>0</td> <td>109</td> <td>0</td> <td>2</td> <td>2</td> <td>6</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> <td>0</td> <td>1</td> <td>0</td> <td>125</td>	10/30	6.5	0	109	0	2	2	6	1	0	0	0	2	0	0	0	2	0	1	0	125
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	10/31	6.8	0	203	0	6	2	13	11	0	2	0	8	0	1	0	2	0	7	0	255
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	11/1	4.0	0	0	1	0	0	5	0	0	0	0	0	0	0	1	1	0	2	0	10
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	11/2	7.8	6	82	0	2	0	14	9	0	2	0	3	0	1	1	1	0	2	0	123
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	11/3	8.0	0	242	0	1	3	13	17	0	167	0	0		0	0	0	0	15	0	97
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	11/4	0.0	0	242	0	2	2	51	1/	0	10/	0	- 22	0	1		0		15	0	463
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	11/7	7.5	0	169	0	1	6	15	9	0	63	0	15	0	1	0	0	0	11	0	290
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	11/8	8.0	0	269	0	3	1	17	9	0	105	0	25	0	0	0	0	0	11	0	440
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	11/9	7,0	2	309	0	4	0	13	3	0	26	0	22	0	1	0	0	0	11	0	391
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	11/10	7.0	0	67	1	2	1	5	2	0	6	0	31	0	1	0	0	0	8	0	124
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	11/11	7.0	0	43	0	3	0	3	1	0	21	0	19	0	- 1	0	1	0	9	0	101
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	11/12	7.0	0	61	0	2	0	4	1	1	2	0	19	0	0	0	0	0	1	0	91
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	11/14	7.0	0	31	0	1	0	7	0	0	3	0	6	0	1	0	1	0	1	0	51
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	11/15	7.0	0	22	0	0	1	7	6	0	10	0	4	0	1	0	1	0	9	0	61
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	11/16	4.5	0	68	0	1	1	2	0	0	0	0	0	0	2	0	2	0	0	0	76
11/10 5.0 0 2 0 0 0 2 0 0 3 0 </td <td>11/17</td> <td>5.0</td> <td>0</td> <td>55</td> <td>0</td> <td>3</td> <td>1</td> <td>3</td> <td>0</td> <td>0</td> <td>7</td> <td>0</td> <td>5</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>3</td> <td>0</td> <td>77</td>	11/17	5.0	0	55	0	3	1	3	0	0	7	0	5	0	0	0	0	0	3	0	77
11/12 3.0 0 25 0 1 1 1 0 1 0 1 0 0 0 0 0 0 2 0 42 11/20 5.0 0 25 0 1 1 5 2 0 9 0 <td>11/18</td> <td>4.0</td> <td>0</td> <td>2</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>9</td>	11/18	4.0	0	2	0	1	0	0	2	0	0	0	3	0	0	0	0	0	1	0	9
Integration and the set of	11/19	5.0	0	29	0	1	1	1	1	0	1	0	11	0	0	0	0	0	2	0	47
1/2.2 3.0 0 2 0 12 11/22 3.0 0 12 0 0 0 0 0 0 0 0 0 0 13 34 120 32 343 0 9070	11/20	5.0	0	25	0	1	1	1	2	0	9	0	19	0	0	0	0	0	0	0	15
<u>84 589.1 29 3098 263 149 90 1270 373 1 494 2133 265 0 13 334 120 32 343 0 9007</u>	11/21	3.0	0	12	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	13
	84 5	589.1	29	3098	263	149	90	1270	373	1	494	2133	265	0	13	334	120	32	343	0	9007

					Ho	ok N	lount	ain F	all	2017	- Nya	ck,	Ne	w	York					
Date	HRS	BV	TV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	Othr	TOTAL
8/24	3.5	0	0	0	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	7
8/25	3.0	0	0	1	2	0	0	0	0	0	3	0	0	0	0	0	0	0	0	6
8/26	5.0	0	0	2	- 1	0	0	0	0	2	3	0	0	0	0	0	0	0	0	8
8/27	3.0	0	0	3	1	0	0	0	0	1	2	0	0	0	1	0	0	0	0	8
8/28	3.0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	5
8/30	4.0	0	0	0	0	2	2	1	0	2	1	0	0	0	0	0	0	0	0	8
9/1	5.8	0	0	1	0	0	2	0	0	0	3	0	0	0	0	0	0	0	0	6
9/2	4.0	0	0	7	0	1	0	1	0	0	22	0	0	0	0	0	0	0	0	31
9/4	4.0	0	0	4	1	1	2	0	0	0	0	2	0	0	0	0	0	1	0	11
9/5	4.5	2	3	9	1	3	1	0	0	0	6	0	0	0	0	3	0	0	0	28
9/7	6.0	0	0	6	1	0	1	1	0	0	0	0	0	0	0	1	0	0	0	10
9/8	6.0	0	0	4	2	1	3	0	0	0	3	0	0	0	0	1	0	0	0	14
9/9	11.2	0	0	11	2	2	11	0	0	1	100	0	0	0	6	4	0	0	0	140
9/10	9.0	0	0	24	0	- 2	42	2	0	3	839	2	0	0	7		2	0	0	93/
9/12	6.5	0	0		8	5	33	- 3	0	0	377	0	0	0	11	3	- 0	0	0	449
9/13	6.0	0	- 0	2	5	- 0	14	- 1	0	2	11	0	0	0	4	2	0	0	- 0	41
9/14	5.3	0	0	2	2	0	4	1	0	0	0	0	0	0	1	2	0	0	0	12
9/15	6.5	0	0	1	0	2	14	0	0	0	170	0	0	0	1	1	0	0	0	189
9/16	6.5	0	0	11	12	0	23	0	0	0	8	0	0	0	8	2	3	0	0	67
9/17	7.3	0	0	2	0	1	8	5	0	0	1	0	0	0	8	1	0	0	0	26
9/18	6.5	0	0	23	9	2	85	3	0	0	87	0	0	0	22	3	0	0	0	234
9/19	6.0	0	0	17	5	0	8	0	0	0	0	0	0	0	2	3	2	0	0	37
9/20	6.0	0	0	1	3	0	17	0	0	0	0	0	0	0	4	1	0	0	0	26
9/21	8.8	0	0	3	1	0	58	4	0	0	42	0	0	0	16	0	- 1	0	0	125
9/22	8.8	0	0	23	5	1	200	3	0	2	3164	1	0	0	29	2	1	0	0	3431
9/23	6.3	0	0	1	7	9	48	4	0	2	25	1	0	0	5	1	5	0	0	108
9/24	8.0	0	0	1	0	3	53	4	0	1	15	0	0	0	7	0	0	1	0	85
9/25	6.0	0	0	5	0	1	26	3	0	1	1	0	0	0	2	1	1	1	0	3/
9/26	3.3	0	0	4	0	1	10	2	0	0	1	0	0	0	0	1	2	0	0	25
9/2/	4.0	0	0		10	0	7	2	0	0	2	0	0	0	2	1	2	0	0	22
9/20	9.0	0	3	3	7	1	57	2	0	0	20	0	0	0	2	7	4	0	0	104
9/30	6.5	0	0	4	2	0	21	3	0	1	20	0	0	0	7	0	3	0	0	43
10/1	8.0	0	0	. 1	5	1	28	11	0	. 1	8	0	0	0	3	1	3	0	0	62
10/2	7.0	0	0	4	- 6	2	14	11	0	2	1	0	0	0	1	2	0	0	0	43
10/3	6.0	6	0	0	0	0	19	4	0	0	5	0	0	0	5	2	3	0	0	44
10/5	6.5	0	0	1	1	0	3	0	0	1	1	2	0	0	0	0	0	0	0	9
10/6	6.5	14	32	4	4	2	12	7	0	0	4	1	0	0	4	0	- 1	1	0	86
10/7	7.0	0	0	0	3	1	8	0	0	0	1	0	0	0	4	0	2	0	0	19
10/8	3.0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	6
10/9	1.0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
10/10	6.8	0	0	3	6	1	22	7	0	1	1	3	0	0	5	3	1	0	0	53
10/11	8.0	0	0	5	2	2	19	9	0	1	0	0	0	0	4	2	0	0	0	44
10/12	5.5	0	3	3	3	0	0	1	0	2	0	2	0	0	0	0	1	0	0	15
10/13	5.0	0	0	2	1	2	30	/	0	0	0	0	0	0	2	4	2	0	0	14
10/17	5.0	0	0	2	5	3	47	15	0	2	0	3	0	1	2	0	3	0	0	87
10/18	5.0	0	0		0	0	2/	13	0	0	0	0	0		2	0	0	0	0	3/
10/19	8.3	0	3	5	9	3	7	3	0	0	0	2	0	0	1	0	2	0	0	35
10/20	7.0	0	0	2	5	3	32	6	0	1	0	4	0	0	4	0	0	0	0	57
10/21	5.5	0	0	0	0	1	36	2	0	0	0	0	0	0	1	1	0	0	0	41
10/22	5.0	0	0	0	0	1	16	2	0	0	0	1	0	0	1	0	2	0	0	23
10/23	6.0	6	18	0	6	0	10	0	0	1	0	4	0	0	1	0	4	0	0	50
10/26	5.8	6	15	0	- 1	0	9	2	0	0	0	2	0	0	0	0	0	0	0	35
10/27	7.8	0	0	0	- 1	1	13	7	0	1	0	3	0	0	1	0	0	0	0	27
10/28	5.3	4	16	2	1	1	31	4	0	0	0	3	0	0	3	5	- 1	0	0	71
10/31	5.5	0	0	0	0	0	1	0	0	2	0	1	0	0	0	0	2	0	0	6
11/1	3.0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
11/2	5.0	9	6	0	3	0	7	1	0	1	0	2	0	0	0	0	2	1	0	32
11/7	5.5	0	0	0	0	0	2	0	0	22	0	3	0	0	0	0	0	0	0	27
11/8	6.3	0	0	0	0	1	6	0	0	14	0	6	0	0	0	0	0	0	0	27
11/10	4.5	1	0	0	0	0	6	2	0	12	0	-	0	0	0	0	0	0	0	14
11/10	4.5	0	4	0	0	0	3	1	0	12	0	4	0		0	0	- 1	0	0	36 2
11/13	2.0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2
11/14	4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11/18	4.5	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11/20	3.0	7	0	0	3	1	0	0	0	1	0	0	0	0	0	0	0	0	0	12
11/21	4.5	0	15	0	2	0	0	0	1	0	0	0	0	0	0	1	0	0	0	19
11/26	2.8	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2
72	411.5	55	124	236	190	69	1161	149	1	94	4952	55	0	3	196	65	59	6	0	7415

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1606 45 0 0 0 0	8/25	9.0	0	0	8	1	0	1	0	0	1	10	0	0	0	0	0	0	0	0	21
1272 AB 0 <td>8/26</td> <td>4.5</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> <td>0</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>4</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>9</td>	8/26	4.5	0	0	2	1	0	2	0	0	0	4	0	0	0	0	0	0	0	0	9
1200 52 0 <td>8/27</td> <td>8.8</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>-</td> <td>5</td>	8/27	8.8	0	0	2	1	0	1	0	0	0	1	0	0	0	0	0	0	0	-	5
1299 A.B. 0 </td <td>8/28</td> <td>7.5</td> <td>0</td> <td>0</td> <td>7</td> <td>3</td> <td>0</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>12</td>	8/28	7.5	0	0	7	3	0		0	0	0		0	0	0	2	0	0	0	0	12
No. No. <td>0/20</td> <td>0.0</td> <td>0</td> <td>0</td> <td>,</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>12</td>	0/20	0.0	0	0	,	0	1	0	0	0	0	0	0	0	0		0	0	0	0	12
000 000 0 <td>0/29</td> <td>0.0</td> <td>0</td> <td>0</td> <td>2</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>4</td>	0/29	0.0	0	0	2	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	4
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m m	8/31	8.0	0	0	7	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	9
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98 90 0	9/4	4.0	0	0	2	3	1	0	0	0	0	2	0	0	0	0	0	0	1	0	9
····································	9/5	9.0	0	0	13	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	16
mm m	0/6	1.0	0	0	0	-	0		0	0	0	0	0	0	0	0	0	0	0	0	10
m b< b b< b<	9/0	1.0	0	0	0	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
N N	9//	6.0	0	0	4	2	0	1	0	- 0	0		0	0	0	0	0	0	0	0	0
99 93 0 0 0 0 1 0	9/8	8.0	0	0	15	4	0	2	0	0	0	15	0	0	0	1	0	0	0	0	37
910 92 0	9/9	9.5	0	0	19	8	3	14	4	0	0	594	1	0	0	6	1	1	0	0	651
911 100 0 0 0 0 1 0 0 1 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 <td>9/10</td> <td>9.5</td> <td>0</td> <td>0</td> <td>25</td> <td>5</td> <td>3</td> <td>60</td> <td>13</td> <td>0</td> <td>0</td> <td>732</td> <td>1</td> <td>0</td> <td>0</td> <td>26</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>865</td>	9/10	9.5	0	0	25	5	3	60	13	0	0	732	1	0	0	26	0	0	0	0	865
n12 90 0 0 0 1 1 1 1 1 0	9/11	10.0	0	0	9	9	2	41	1	0	0	639	1	0	0	21	2	0	1	0	726
1013 0.0 0 <td>9/12</td> <td>9.0</td> <td>0</td> <td>0</td> <td>6</td> <td>2</td> <td>2</td> <td>23</td> <td>2</td> <td>0</td> <td>0</td> <td>54</td> <td>0</td> <td>0</td> <td>0</td> <td>21</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>111</td>	9/12	9.0	0	0	6	2	2	23	2	0	0	54	0	0	0	21	1	0	0	0	111
nyh z 0 1 2 0 1 0	9/13	8.0	0	0	7	3	1	13	1	0	0	17	0	0	0	9	0	0	0	0	51
min min <td>9/14</td> <td>7.0</td> <td>0</td> <td>0</td> <td>2</td> <td>0</td> <td>1</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>3</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>9</td>	9/14	7.0	0	0	2	0	1	2	0	0	0	0	0	0	0	3	0	0	1	0	9
1116 200 6 6 6 1 0 1 0 0 1 1 0 0 1 0 0 1 0 0 1 0 0 1 0 1 0 0 1 0 <td>9/15</td> <td>8.0</td> <td>0</td> <td>0</td> <td>- 4</td> <td>2</td> <td>4</td> <td>10</td> <td>1</td> <td>0</td> <td>0</td> <td>32</td> <td>0</td> <td>0</td> <td>0</td> <td>9</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>64</td>	9/15	8.0	0	0	- 4	2	4	10	1	0	0	32	0	0	0	9	2	0	0	0	64
m m	0/16	0.0	0	0				42	-	0	0	120	0	0	0	20	12	1	2	0	262
M11 Bot D <thd< th=""> D D D</thd<>	9/16	9.0	0	0	20	6	0	43	2	0	0	130	0	0	0	20	13	1	2	0	262
nu abo abo b <td>9/17</td> <td>8.0</td> <td>U</td> <td>0</td> <td>18</td> <td>-</td> <td>5</td> <td>93</td> <td>- 5</td> <td>0</td> <td>0</td> <td>119</td> <td>0</td> <td>0</td> <td>0</td> <td>25</td> <td>15</td> <td>0</td> <td>5</td> <td>0</td> <td>284</td>	9/17	8.0	U	0	18	-	5	93	- 5	0	0	119	0	0	0	25	15	0	5	0	284
1419 840 0 1 37 1 0 0 5 0 0 6 2 0 1 0 </td <td>9/18</td> <td>8.0</td> <td>0</td> <td>0</td> <td>13</td> <td>0</td> <td>2</td> <td>113</td> <td>3</td> <td>0</td> <td>0</td> <td>16</td> <td>0</td> <td>0</td> <td>0</td> <td>13</td> <td>12</td> <td>0</td> <td>2</td> <td>0</td> <td>174</td>	9/18	8.0	0	0	13	0	2	113	3	0	0	16	0	0	0	13	12	0	2	0	174
1/20 8.01 0 1 2 0 1 1 37 1 0 0 1 0 0 0 0 </td <td>9/19</td> <td>8.0</td> <td>0</td> <td>0</td> <td>4</td> <td>2</td> <td>1</td> <td>26</td> <td>1</td> <td>0</td> <td>0</td> <td>5</td> <td>0</td> <td>0</td> <td>0</td> <td>6</td> <td>2</td> <td>0</td> <td>1</td> <td>0</td> <td>48</td>	9/19	8.0	0	0	4	2	1	26	1	0	0	5	0	0	0	6	2	0	1	0	48
19/21 1100 0 0 0 0 </td <td>9/20</td> <td>8.0</td> <td>0</td> <td>0</td> <td>2</td> <td>0</td> <td>1</td> <td>37</td> <td>1</td> <td>0</td> <td>0</td> <td>12</td> <td>0</td> <td>0</td> <td>0</td> <td>9</td> <td>2</td> <td>0</td> <td>1</td> <td>0</td> <td>65</td>	9/20	8.0	0	0	2	0	1	37	1	0	0	12	0	0	0	9	2	0	1	0	65
19/2 110 0 18 11 7 143 4 0 0 36 4 0 1 0 1 0 <th< td=""><td>9/21</td><td>10.0</td><td>0</td><td>0</td><td>10</td><td>1</td><td>5</td><td>117</td><td>1</td><td>0</td><td>0</td><td>85</td><td>0</td><td>0</td><td>0</td><td>85</td><td>1</td><td>0</td><td>1</td><td>0</td><td>306</td></th<>	9/21	10.0	0	0	10	1	5	117	1	0	0	85	0	0	0	85	1	0	1	0	306
1923 900 0 0 1 1 12 2 0 0 1 6 0 </td <td>9/22</td> <td>11.0</td> <td>0</td> <td>0</td> <td>18</td> <td>11</td> <td>7</td> <td>143</td> <td>4</td> <td>0</td> <td>0</td> <td>344</td> <td>0</td> <td>0</td> <td>0</td> <td>36</td> <td>4</td> <td>0</td> <td>1</td> <td>0</td> <td>568</td>	9/22	11.0	0	0	18	11	7	143	4	0	0	344	0	0	0	36	4	0	1	0	568
19/2 0	9/23	9,0	0	0	3	2	0	54	2	0	0	21	0	0	0	6	0	0	2	0	90
nms nms n <td>9/24</td> <td>9.0</td> <td>0</td> <td>0</td> <td>1</td> <td>1</td> <td>1</td> <td>22</td> <td>5</td> <td>0</td> <td>0</td> <td>28</td> <td>0</td> <td>0</td> <td>0</td> <td>5</td> <td>0</td> <td>0</td> <td>1</td> <td>-</td> <td>64</td>	9/24	9.0	0	0	1	1	1	22	5	0	0	28	0	0	0	5	0	0	1	-	64
<td>0/2=</td> <td>7 5</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> <td>0</td> <td>22</td> <td>1</td> <td>0</td> <td>0</td> <td>- <u>2</u>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>04</td>	0/2=	7 5	0	0	2	1	0	22	1	0	0	- <u>2</u> 0	0	0	0	0	0	0	0	0	04
n-c o i	0/20	/.) 0.0	0		2	-	+	2	-	0	0		0	0	0	1	1	-	0	0	0
m/c n/s v <td>9/26</td> <td>8.0</td> <td>0</td> <td>1</td> <td>9</td> <td>1</td> <td>1</td> <td>14</td> <td>0</td> <td>0</td> <td>0</td> <td>4</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>1</td> <td>2</td> <td>0</td> <td>0</td> <td>34</td>	9/26	8.0	0	1	9	1	1	14	0	0	0	4	0	0	0	1	1	2	0	0	34
91/28 80.0 0 4 9 2 1 1 1 1 1 1 1 0 3 3 0 5 44 0 0 20 0 20 0 0 20 0 0 <th< td=""><td>9/27</td><td>7.8</td><td>0</td><td>0</td><td>5</td><td>1</td><td>0</td><td>8</td><td>2</td><td>0</td><td>0</td><td>2</td><td>1</td><td>0</td><td>0</td><td>1</td><td>1</td><td>1</td><td>0</td><td>0</td><td>22</td></th<>	9/27	7.8	0	0	5	1	0	8	2	0	0	2	1	0	0	1	1	1	0	0	22
14/2 10.0 0 0 0 1 1 0 158 0 0 0 0<	9/28	8.0	0	0	5	2	1	17	1	0	0	5	0	0	0	4	1	1	1	0	38
900 00 0	9/29	10.0	0	4	9	5	5	44	8	1	0	58	2	0	0	20	0	1	1	0	158
1010 1.6.5 0 3 4 0 0 0 0 7 1 1 0 0 0 10102 7.5 0 7 5 4 0 10 3 0	9/30	9.0	0	0	3	2	1	17	3	0	0	5	0	0	0	4	0	0	0	0	35
1002 7.7 1 86 6 2 0 0 0 6 2 1 0 </td <td>10/1</td> <td>8.5</td> <td>0</td> <td>3</td> <td>4</td> <td>2</td> <td>1</td> <td>22</td> <td>5</td> <td>0</td> <td>0</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>7</td> <td>1</td> <td>1</td> <td>0</td> <td>0</td> <td>49</td>	10/1	8.5	0	3	4	2	1	22	5	0	0	3	0	0	0	7	1	1	0	0	49
1100 75 0 0 7 5 4 0 10 3 0 0 3 0 <td>10/2</td> <td>7.0</td> <td>1</td> <td>86</td> <td>6</td> <td>2</td> <td>0</td> <td>15</td> <td>6</td> <td>0</td> <td>0</td> <td>24</td> <td>0</td> <td>0</td> <td>0</td> <td>6</td> <td>2</td> <td>1</td> <td>2</td> <td>0</td> <td>151</td>	10/2	7.0	1	86	6	2	0	15	6	0	0	24	0	0	0	6	2	1	2	0	151
104 7.0 0 <td>10/2</td> <td>7.5</td> <td></td> <td>7</td> <td>5</td> <td>4</td> <td>0</td> <td>10</td> <td>3</td> <td>0</td> <td>0</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>5</td> <td>-</td> <td>3</td> <td>-</td> <td>0</td> <td>40</td>	10/2	7.5		7	5	4	0	10	3	0	0		0	0	0	5	-	3	-	0	40
Int X.X 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <td>10/3</td> <td>7.5</td> <td>0</td> <td></td> <td>2</td> <td></td> <td>0</td> <td>10</td> <td></td> <td>0</td> <td>0</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>40</td>	10/3	7.5	0		2		0	10		0	0	2	0	0	0	1	0	0	0	0	40
106 7.0 0 0 0 0 0 0 1 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 <td>10/4</td> <td>7.0</td> <td>0</td> <td>0</td> <td>5</td> <td>- 1</td> <td>0</td> <td>5</td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>10</td>	10/4	7.0	0	0	5	- 1	0	5	0	0	0	2	0	0	0	1	0	0	0	0	10
106 7.0 0 7 5 5 0 18 1 0 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 1 0 0 1 0 <td>10/5</td> <td>8.0</td> <td>0</td> <td>0</td> <td>3</td> <td>1</td> <td>1</td> <td>6</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>1</td> <td>2</td> <td>0</td> <td>0</td> <td>16</td>	10/5	8.0	0	0	3	1	1	6	1	0	0	0	0	0	0	1	1	2	0	0	16
107 7.0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 0 1 0 0 1 0 <td>10/6</td> <td>7.0</td> <td>0</td> <td>7</td> <td>5</td> <td>5</td> <td>0</td> <td>18</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>4</td> <td>0</td> <td>0</td> <td>2</td> <td>0</td> <td>42</td>	10/6	7.0	0	7	5	5	0	18	1	0	0	0	0	0	0	4	0	0	2	0	42
1010 8.5 0 9 2 1 0 0 8 1 10 7.7 1011 8.5 0 22 4 2 3 3 2 1 10 0 0 1 10 10 10 10 0 0 1 10 0	10/7	7.0	0	0	4	1	0	6	2	0	1	0	0	0	0	3	0	0	1	0	18
10/11 8.5 0 26 6 3 2 49 32 0 1 10 0 0 15 3 20 1 100 100 100 0 11 22 1 0 101 1001 40 0 1 1 26 6 0 1 0	10/10	8.5	0	9	2	1	0	37	12	0	2	1	0	0	0	8	1	0	1	0	74
1012 80 0 21 33 32 0 8 2 1 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 1 2 0 1 1 2 0 1 0 1 1 1 1 0 0 0 1 1 1 0 0 0 1 1 1 0 0 0 0 1 1 1 0 0 0 0 0 0 0 1 1 1 0 0 0 0 1 1 1 1 1 1 0 0<	10/11	85	0	26	6	3	2	49	32	0	1	10	0	0	0	15	3	2	1	0	150
10.13 80 0 1 1 0 1 0 1 0 <td>10/12</td> <td>8.0</td> <td>0</td> <td>20</td> <td>4</td> <td>2</td> <td>3</td> <td>33</td> <td>32</td> <td>0</td> <td>8</td> <td>2</td> <td>1</td> <td>0</td> <td>0</td> <td>1</td> <td>2</td> <td></td> <td>1</td> <td>0</td> <td>110</td>	10/12	8.0	0	20	4	2	3	33	32	0	8	2	1	0	0	1	2		1	0	110
Intria 8.0 0 0 0 1 0 1 1 1 1 0 0 0 0 1 0 0 0 0 1 1 1 0 0 0 0 0 1 1 1 0<	10/12	0.0	0	21	4	2		33	32	0	0	2		0	0	1	4	0	1	0	110
Intria 4.0 0<	10/13	8.0	0	0	0			26	6	0	1	0	1	0	0	0	0	0	0	0	36
10/15 7.0 1 1 1 0 0 1 0 0 0 1 1 1 0 0 0 0 1 1 1 0 </td <td>10/14</td> <td>4.0</td> <td>0</td> <td>3</td> <td>1</td> <td>0</td> <td>0</td> <td>2</td> <td>0</td> <td>6</td>	10/14	4.0	0	3	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	6
10/16 9.0 0 0 0 0 0 0 1 0 0 2 0 1 0 0 0 1 1 0 2 0 0 0 0 1 1 1 1 0 0 0 1 1 1 1 0 0 0 1 1 1 1 0 0 0 0 1 1 1 0 0 0 0 0 1 1 1 0 </td <td>10/15</td> <td>7.0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>2</td>	10/15	7.0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2
1017 8.0 0 1 1 1 5 0 1 1 1 5 0 1 1 1 1 0 1 1 1 1 0 1 1 1 1 1 0 0 1 0 1 1 1 1 0 0 1 0 0 1 0 0 0 1 0 <td>10/16</td> <td>9.0</td> <td>0</td> <td>30</td> <td>1</td> <td>2</td> <td>0</td> <td>26</td> <td>9</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>2</td> <td>0</td> <td>71</td>	10/16	9.0	0	30	1	2	0	26	9	0	0	0	0	0	0	1	0	0	2	0	71
Invas 7.0 1 2.8 2 3 1 6 6 0 4 0 2 0 0 1 1 1 1 0 0 0 1 1 1 1 0 0 0 0 0 0 1 1 1 1 1 1 0	10/17	8.0	0	121	1	6	2	29	16	0	2	0	7	0	0	3	1	1	5	0	194
1019 70 0 1 1 0 5 1 0 2 0 0 0 1 1 0 0 2 2 10/20 8.0 1 199 1 2 25 9 0 3 0 1 0 0 0 1 0 0 0 1 0	10/18	7.0	1	28	2	3	3	16	6	0	4	0	2	0	0	1	1	1	1	0	69
1000 100 100 100 100 200 <td>10/19</td> <td>7.0</td> <td>0</td> <td>14</td> <td>1</td> <td>1</td> <td>0</td> <td>5</td> <td>1</td> <td>0</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>25</td>	10/19	7.0	0	14	1	1	0	5	1	0	2	0	0	0	0	1	0	0	0	0	25
Index Obs I O I </td <td>10/20</td> <td>8.0</td> <td>1</td> <td>189</td> <td>1</td> <td>1</td> <td>2</td> <td>25</td> <td>9</td> <td>0</td> <td>- 3</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>3</td> <td>4</td> <td>0</td> <td>2</td> <td>0</td> <td>241</td>	10/20	8.0	1	189	1	1	2	25	9	0	- 3	0	1	0	0	3	4	0	2	0	241
10/21 9.0 0 8.0 0 2 1 19 15 4 0 5 0 <th< td=""><td>10/20</td><td>0.0</td><td></td><td>105</td><td>-</td><td>2</td><td>4</td><td>10</td><td>12</td><td>0</td><td></td><td>0</td><td></td><td>0</td><td>0</td><td></td><td>-</td><td>1</td><td>2</td><td>0</td><td>120</td></th<>	10/20	0.0		105	-	2	4	10	12	0		0		0	0		-	1	2	0	120
10/22 6.0 0 9 0 1 1 4 0 5 0 0 0 1 3 0 </td <td>10/21</td> <td>9.0</td> <td>6</td> <td>68</td> <td>0</td> <td>2</td> <td>1</td> <td>19</td> <td>13</td> <td>0</td> <td>4</td> <td>0</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td></td> <td>0</td> <td>120</td>	10/21	9.0	6	68	0	2	1	19	13	0	4	0		0	0	0	0	1		0	120
10/23 6.0 0 9 1 0 0 2 1 0 </td <td>10/22</td> <td>8.0</td> <td>0</td> <td>8</td> <td>0</td> <td>2</td> <td>0</td> <td>15</td> <td>4</td> <td>0</td> <td>5</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>37</td>	10/22	8.0	0	8	0	2	0	15	4	0	5	0	0	0	0	3	0	0	0	0	37
10/24 6.0 0 2 0 0 0 3 1 0 </td <td>10/23</td> <td>6.0</td> <td>0</td> <td>9</td> <td>1</td> <td>0</td> <td>0</td> <td>2</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>15</td>	10/23	6.0	0	9	1	0	0	2	1	0	0	0	0	0	0	0	2	0	0	0	15
10/25 7.0 0 </td <td>10/24</td> <td>6.0</td> <td>0</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>3</td> <td>1</td> <td>0</td> <td>6</td>	10/24	6.0	0	2	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	6
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	10/25	7.0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
1027 8.0 0 62 0 5 1 18 9 0 12 0 3 0 4 2 0 3 0 1 10 1028 4.0 0 0 0 0 4 1 0	10/26	7.0	0	4	0	0	0	5	5	0	4	0	1	0	0	1	1	0	0	0	21
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	10/27	8.0	0	62	0	5	1	18	9	0	12	0	3	0	0	4	2	0	3	0	119
	10/28	40	0	0	0	0	0	10	1	0	0	0	0	0	0	3	- 0	0	0	0	
11/2 2 0 1 0 7 2 0 1 0 7 0 7 0 7 0 7 0 7 0 1 0	10/20	7.0	0	20	1	1	0	í í		~	,		7	0	0	0	2	-	1	0	50
number cons z con 1 o 1 o 1 o 1 o 1 o 1 o 1 o 1 o 1 o 1 o 1 o 0 <th< td=""><td>10/30</td><td>7.0</td><td>2</td><td>29</td><td>1</td><td>6</td><td>1</td><td>4</td><td></td><td>-0</td><td>1</td><td>0</td><td>1</td><td>0</td><td>0</td><td>0</td><td>- 2</td><td>0</td><td>2</td><td>0</td><td>00</td></th<>	10/30	7.0	2	29	1	6	1	4		-0	1	0	1	0	0	0	- 2	0	2	0	00
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	10/31	0.0	د	01	1	0		0	1	0	4	-	0	U	0	0	1	0	2	U	92
111/2 0.0 0 30 0 0 9 9 9 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0<	11/1	5.0	0	0	0	0	0	4	2	0	0	-	0	0	0	0	0	0	0	U	6
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	11/2	8.0	0	42	0	1	0	9	6	U	1	0	1	0	0	0	0	0	0	0	60
114 7.0 5 171 0 7 1 45 31 0 260 0 44 0 1 1 0 11 0 11 0 11 0 11 0 11 0 11 0 1 0 0 0 0 0 0 0 0 0 0	11/3	8.0	0	30	0	0	0	6	3	0	7	0	3	0	0	0	0	0	0	0	49
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	11/4	7.0	5	171	0	7	1	45	31	0	260	0	44	0	0	1	1	0	11	0	577
11/7 7.5 2 65 0 1 4 40 28 0 26 0 24 0 1 1 1 1 1 1 1 1 1 1 1 0 3 0 396 11/8 7.5 1 81 0 2 1 14 9 1 26 1 19 0 0 0 2 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	11/6	6.0	0	3	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	6
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	11/7	7.5	2	65	0	1	4	40	28	0	226	0	24	0	1	1	1	0	3	0	396
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	11/8	7.5	3	237	0	2	3	46	29	0	277	0	69	0	0	0	1	0	5	1	673
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	11/9	7.5	1	81	0	2	1	14	9	1	26	1	19	- 0	0	0	2	0	0	0	157
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11/10	8.0	1	7	0	2	0		4	0	17	0	10	0	2	0	2	0	1	0	50
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	11/10	0.0		10	0	2	0	4		0	1/	0	10	0	2	0	2	0		0	50
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	11/11	7.0	U	12	0	2	0	0	1	0	16	0	19	0	0	0	0	0		0	51
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	11/12	7.0	0	21	0	0	0	3	1	0	11	0	10	0	1	0	0	0	2	0	49
11/14 7.0 0 33 0 1 0 3 1 0 2 0 4 0<	11/13	5.0	0	36	0	0	0	3	0	0	2	0	3	0	0	0	0	0	0	0	44
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	11/14	7.0	0	33	0	1	0	3	1	0	2	0	4	0	0	0	1	0	0	0	45
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	11/15	7.0	0	11	0	0	0	3	2	0	5	0	4	0	1	0	0	0	0	0	26
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	11/16	7.0	0	10	0	0	0	2	0	0	0	0	3	0	0	0	0	1	0	0	16
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11/17	8.0	0	20	0	3	0	-	3	0	0	0	12	ő	0	0	0		1	0	61
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	11/17	4.0	0	20	0	0	0	0	2	-	9	0	14	0	0	0	0	0	0	0	01
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	11/16	4.0	0	0	0	0	0	0	2	0	0	-		U	0	0	0	0	0	U	2
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	11/19	7.0	0	14	0	2	0	1	2	0	0	0	4	0	0	0	0	0	0	0	23
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	11/20	7.0	0	6	0	1	0	1	1	0	4	0	10	0	0	0	0	0	0	0	23
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	11/21	6.0	0	6	0	0	0	1	1	0	1	0	1	0	0	0	0	0	0	0	10
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	11/23	6.3	0	16	0	0	0	4	2	0	24	0	10	0	2	0	0	0	1	0	59
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	11/24	7.0	0	11	0	0	0	1	2	0	16	0	3	0	0	0	0	0	1	0	34
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	11/25	7.5	0	2	0	1	0	1	0	0	0	0	0	0	0	1	1	0	0	0	6
11/27 7.0 0 1 2 0 2 0 2 0 0 1 0 1 0 1 2 0 13 0 4 0<	11/26	5.0	0	-	0	0	1	2	0	0	2	0	2	0	0	0	0	0	0	-	7
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	11/27	7.0	0	10	0	0			1	~	2	0		0	1	0	1	0	0	0	10
11/20 6.0 0 59 0 0 1 2 1 30 4 0 0 0 1 0 0 50 11/29 6.0 0 6 0	11/2/	7.0	0	12	0	0	0		1	0	2	-		U		0	1		0	U	18
11/27 6.0 0 0 0 0 0 0 1 0 </td <td>11/28</td> <td>7.0</td> <td>0</td> <td>29</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>2</td> <td>0</td> <td>13</td> <td>0</td> <td>4</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>50</td>	11/28	7.0	0	29	0	0	0	1	2	0	13	0	4	0	0	0	0	1	0	0	50
11/30 6.0 0 7 0 0 1 0 2 0 1 0 1 0 0 0 0 10 12 0 0 0 0 0 0 10 12 0 0 0 0 0 12 0 0 0 0 0 12 0 <	11/29	6.0	0	6	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	7
12/1 7.0 0 13 0 0 0 6 1 2 0 0 0 0 25 12/2 6.0 0 32 0 0 1 1 0 23 0 3 0 0 0 6 0	11/30	6.0	0	7	0	0	1	0	2	0	1	0	1	0	0	0	0	0	0	0	12
12/2 6.0 0 32 0 0 1 1 0 23 0 3 0 0 0 0 0 6.0 97 719.8 24 1743 321 172 86 1532 378 2 1006 3008 304 0 8 418 93 21 74 ISE 9191	12/1	7.0	0	13	0	3	0	0	0	0	6	1	2	0	0	0	0	0	0	0	25
97 719.8 24 1743 321 172 86 1532 378 2 1006 3008 304 0 8 418 93 21 74 1SE 9191	12/2	6.0	0	32	0	0	0	1	1	0	23	0	3	0	0	0	0	0	0	0	60
	97	719.8	24	1743	321	172	86	1532	378	2	1006	3008	304	0	8	418	93	21	74 1	SE	9191

_			_		S	tate	Line	Fall 2	201	7 - A	lpine,	Nev	n Je	erse	ey 🛛					
Date 9/7	HRS	BV	TV	OS 7	BE	<u>NH</u>	55	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	URC	Othr	TOTAL
9/8	6.5	0	0	7	2	1	5	0	0	2	5	4	0	0	0	0	1	4	0	31
9/9	6.5	0	0	3	6	1	12	1	0	0	118	2	0	0	2	0	0	1	0	146
9/10	7.3	0	0	3	3	5	18	6	0	2	68	2	0	0	14	2	0	2	0	125
9/11	7.0	0	0	17	1	1	38	9	0	2	265	2	0	0	16	0	0	1	0	352
9/12	7.0	0	0	9	6	1	25	1	0	2	10/	2	0	0	1/	1	2	1	0	169
9/14	6.5	2	0	6	0	0	20	0	0	0	0	0	0	0	0	2	1	1	0	19
9/15	6.5	0	0	16	5	0	21	0	0	3	93	9	0	0	8	3	1	5	0	164
9/16	6.0	0	0	13	3	1	12	1	0	0	4	- 1	0	0	14	3	1	0	0	53
9/17	6.5	0	0	4	- 1	5	10	1	0	1	8	0	0	0	19	8	2	2	0	61
9/18	7.3	0	0	47	16	4	41	9	0	0	8	5	0	0	35	4	7	0	0	176
9/19	6.5 7.5	0	0	23	13	0	4	3	0	0	2	4	0	0	3	3	0	3	0	37
9/21	6.0	0	0	16	0	0	36	4	0	0	85	0	0	0	9	2	0	7	0	159
9/22	8.5	0	0	14	4	2	29	4	0	2	229	1	0	0	18	0	0	8	0	311
9/23	6.5	0	0	2	- 1	1	41	5	0	1	29	0	0	0	1	1	0	3	0	85
9/24	6.5	0	0	3	0	1	21	3	0	1	29	0	0	0	4	1	0	2	0	65
9/25	6.0	0	0	10	2	1	10	5	0	0	3	4	0	0	5	0	0	0	0	35
9/26	7.0	0	0	10	2	2	10	2	0	1	8	2	0	0	4	2	2	0	0	40
9/28	6.0	0	0	4	2	1	12	2	0	0	2	0	0	0	-4	0	0	0	0	22
9/29	7.0	0	0	10	5	2	24	5	0	0	25	1	0	0	17	1	2	1	0	93
9/30	6.0	0	0	3	1	0	10	1	0	0	1	0	0	0	1	1	0	0	0	18
10/1	8.0	0	0	8	2	0	20	3	0	3	7	5	0	0	4	1	2	1	0	56
10/2	7.0	0	8	14	11	1	35	15	1	9	79	4	0	0	9	4	0	1	0	191
10/3	7.0	0	9	15	3	0	5	2	0	4	4	3	0	0	10	1	1	0	0	26
10/5	7.0	0	42	14	5	2	7	0	0	0	0	12	0	0	0	2	0	1	0	85
10/6	7.0	3	11	6	3	1	12	5	0	4	0	5	0	0	4	1	3	3	0	61
10/7	6.5	0	4	4	2	0	4	0	0	0	1	1	0	0	5	2	0	0	0	23
10/8	2.5	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	10
10/10	7.0	0	2	7	15	0	18	11	0	2	0	6	0	0	6	1	1	4	0	63
10/12	6.0	6	28	36	15	3	17	28	0	1	0	11	0	0	5	4	2	5	0	163
10/13	7.0	0	6	19	10	2	13	13	0	2	0	7	0	0	1	1	2	3	0	79
10/14	6.0	0	0	1	- 1	0	4	2	0	0	0	1	0	0	2	0	4	0	0	15
10/15	6.5	0	22	6	0	1	5	1	0	0	0	4	0	0	0	0	2	0	0	41
10/16	6.3	0	72	2	4	0	10	5	0	0	0	13	0	0	0	1	1	0	0	108
10/17	6.5	0	12	1	0	1	26	7	0	11	0	5	0	0	1	1	0	4	0	69
10/18	6.0	10	41	0	0	1	16	3	0	14	0	5	0	0	2	2	0	0	0	92
10/20	6.0	0	0	5	0	0	5	4	0	2	0	8	0	0	1	0	1	1	0	27
10/21	6.0	0	8	1	2	4	44	7	0	4	0	5	0	0	2	0	0	4	0	81
10/22	7.0	7	9	0	0	0	5	1	0	1	0	9	0	0	0	0	0	6	0	38
10/23	6.0	0	56	2	4	1	2	7	0	0	0	8	0	0	1	0	2	0	0	83
10/25	6.0	0	27	6	3	2	8	3	0	0	0	3	0	0	0	0	0	1	0	30
10/26	4.0	2	37	3	1	1	10	13	0	7	0	11	0	0	1	0	0	3	0	48
10/28	7.0	0	29	4	3	0	.5	0	0	0	0	3	0	0	2	1	0	0	0	50
10/30	3.5	0	60	6	0	1	6	5	0	0	0	5	0	0	0	1	0	0	0	84
10/31	7.5	5	43	4	8	0	8	4	0	0	0	3	0	0	1	2	0	1	0	79
11/1	7.0	0	5	1	0	3	4	3	1	1	0	1	0	0	0	2	0	0	0	21
11/2	6.0	0	52	0	1	0	7	6	0	0	0	6	0	0	0	0	0	0	0	23
11/3	6.0	2	53 74	0	1	1	с р	8	0	21	1	38	0	0	1	2	1	3	0	167
11/5	4.0	6	6	2	3	6	6	1	0	4	0	4	0	0	0	0	0	0	0	38
11/6	5.0	0	4	1	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	8
11/7	6.5	0	256	1	12	1	15	2	0	51	0	25	0	0	0	1	0	0	0	364
11/8	6.5	2	177	0	1	0	4	2	0	68	0	21	0	0	0	0	0	1	0	276
11/9	6.0	0	162	0	0	0	6	1	0	28	0	17	0	0	0	0	0	0	0	214
11/10	5.0	0	26 12	0	1	3	4	5	0	15	0	21	0	0	0	0	1	5	0	63
11/12	6.0	0	21	0	1	0	2	0	0	4	0	6	0	0	0	0	1	0	0	35
11/14	3.0	0	10	0	0	0	1	0	0	0	0	6	0	0	0	0	1	0	0	18
11/15	3.5	0	27	0	3	0	0	0	0	0	0	18	0	0	0	0	0	0	0	48
11/16	1.5	0	27	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	34
11/17	2.0	0	5	0	2	0	2	2	0	0	0	2	0	0	0	0	1	0	0	14
11/19	3.0	0	19	0	0	1	1	1	0	0	0	5	0	0	0	0	0	0	0	25
11/20	2.0	0	21	0	0	1	0	1	0	0	0	5	0	0	0	0	1	0	0	28
11/25	4.0	0	0	0	0	0	1	0	0	1	0	2	0	0	0	0	0	0	0	4
11/26	4.0	0	0	0	1	0	0	1	0	1	0	6	0	0	0	0	0	0	0	9
11/27	3.0	0	14	0	0	1	0	1	0	0	0	9	0	0	0	0	0	0	0	25
11/28	5.0	0	15	0	1	0	0	0	0	2	0	8	0	0	0	0	0	0	0	26
11/30	2.0	0	13	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	16
76	444.8	45	1628	448	219	71	818	266	- 2	286	1216	431	0	0	288	70	57	97	0	5942

	Washington Valley Fall 2017 - Martinsville, New Jersey																			
Date	HRS	BV	TV	OS	BE	NH	SS	CH	NG	RS	BW	RT	RL	GE	AK	ML	PG	UR	Othr	TOTA
9/8	7.0	0	0	6	19	1	2	0	0	0	25	0	0	0	0	1	0	0	0	5
9/9	7.0	0	0	8	12	0	3	1	0	1	282	0	0	0	8	1	0	0	0	31
9/10	8.0	0	0	3	2	0	0	1	0	1	278	0	0	0	4	1	0	0	0	29
9/11	7.0	0	0	3	2	0	1	0	0	2	50	0	0	0	21	3	0	0	0	8
9/12	5.3	0	0	2	2	0	0	0	0	0	33	0	0	0	6	2	0	0	0	4
9/20	6.0	0	0	2	3	0	40	2	0	2	17	0	0	0	6	2	1	0	0	7
9/21	6.3	0	0	2	3	0	20	4	0	0	117	0	0	0	11	4	1	0	0	16
9/22	7.8	0	0	2	10	5	118	6	0	3	340	0	0	0	39	2	0	0	0	52
9/23	5.0	0	0	0	3	0	4	0	0	0	38	0	0	0	0	0	0	0	0	4
9/28	9.5	0	0	1	4	0	27	1	0	1	6	0	0	0	17	2	1	0	0	6
9/29	8.0	0	0	5	7	0	11	1	0	1	15	0	0	0	6	3	0	0	0	4
9/30	7.5	0	0	4	3	2	14	4	0	2	15	0	0	0	6	0	0	0	0	5
10/1	1.0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
10/2	1.0	0	0	0	0	0	1	0	0	0	3	0	0	0	0	0	0	0	0	
10/3	2.0	0	0	0	0	0	2	1	0	0	1	0	0	0	0	0	0	0	0	
10/6	2.3	0	0	2	0	1	4	0	0	0	0	0	0	0	3	0	0	0	0	1
10/10	7.8	0	0	0	2	2	14	0	0	0	0	0	0	0	6	2	3	0	0	2
10/16	6.0	0	0	0	1	0	66	7	0	2	1	0	0	0	10	4	0	0	0	9
10/17	8.0	0	11	0	2	0	10	2	0	3	0	0	0	0	3	2	0	0	0	3
10/20	7.0	0	0	0	3	0	27	3	0	4	0	2	0	0	2	2	0	0	0	4
10/25	4.0	0	9	0	0	0	2	0	0	1	0	0	0	0	0	1	0	0	0	1
10/26	4.0	0	0	1	2	2	13	3	0	0	0	0	0	- 1	4	1	0	0	0	2
10/31	7.5	0	0	0	2	0	10	3	0	2	0	0	0	0	0	2	0	0	0	1
11/1	2.5	0	0	0	0	0	- 1	0	0	0	0	0	0	0	0	0	0	0	0	
11/3	2.8	0	10	0	- 1	1	9	0	0	0	0	0	0	1	0	0	0	0	0	2
11/4	2.0	0	0	0	0	0	6	4	0	1	0	2	0	0	0	0	0	0	0	1
11/7	4.0	0	63	0	6	0	4	4	0	43	0	8	0	0	0	0	0	0	0	12
11/8	4.0	0	15	0	0	1	6	2	0	56	3	12	0	- 1	0	0	0	0	0	9
11/10	5.0	0	0	0	0	0	5	0	0	4	0	13	0	0	0	0	0	0	0	2
11/11	5.5	0	0	0	1	1	- 1	0	0	23	0	18	1	- 1	0	0	0	0	0	4
11/14	5.0	0	0	0	2	0	3	0	0	0	0	- 1	0	1	0	0	0	0	0	
11/17	5.5	0	0	0	2	1	2	3	0	2	0	6	0	0	0	0	0	0	0	1
11/20	1.3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
33	172.3	0	108	41	94	17	427	52	0	154	1224	63	1	5	152	35	6	0	0	2379
							_					_	_							

Date	HRS	BV	N TV	1onto	lair BF	Haw NH	vk Lo	<mark>okou</mark> сн	t Fa	II 20 RS	17 - N BW	10nt RT	cla RI	ir, Ge	New J	ersey MI	/ PG	UR	Othr	τοται
9/1	8.0	0	0	5	2	0	0	0	0	0	2	0	0	0	2	0	0	0	0	11
9/2	8.0	0	0	3	1	0	0	0	0	0	3	0	0	0	0	1	0	0	0	8
9/3	8.5	0	0	9	0	1	0	1	0	0	0	0	0	0	0	2	1	0	0	14
9/4	8.0	0	0	10	0	1	1	2	0	0	9	0	0	0	0	0	1	0	0	24
9/6	7.0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	3
9/7	8.0	0	0	12	3	4	0	0	0	0	4	0	0	0	1	3	3	0	0	30
9/8	8.0	0	0	21	5	1	0	0	0	0	7	0	0	0	1	1	0	2	0	38
9/9	4.0	0	0	5	3	2	13	3	0	0	357	0	0		0	4	0	0	0	396
9/11	9.0	0	0	9	3	2	11	1	0	0	71	0	0	0	12	6	0	0	0	115
9/12	8.0	0	0	1	5	1	27	4	0	0	51	0	0	0	13	4	0	0	0	106
9/13	8.0	0	0	5	1	1	4	0	0	0	3	0	0	0	6	1	0	0	0	21
9/14	8.0	0	0	4	2	1	4	0	0	0	1	0	0	0	4	3	1	0	0	20
9/15	6.0	0	0	4	2	0	7	0	0	1	22	0	0	0	13	3	2	0	0	29
9/17	9.0	0	1	4	1	0	38	4	0	. 1	5	0	0	0	29	11	3	1	0	98
9/18	8.0	0	0	14	4	0	33	8	0	0	11	0	0	0	13	8	2	2	0	95
9/19	8.0	0	0	7	1	0	32	16	0	0	18	0	0	0	7	3	2	0	0	86
9/20	8.0	0	0	2	1	0	17	2	0	1	10	0	0	0	4	3	1	0	0	35
9/21	9.0	0	4	3	15	1	40	11	0	1	1308	0	0	0	43	1		0	0	1454
9/23	7.0	0	1	2	2	0	19	2	0	0	9	0	0	0	3	0	0	2	0	40
9/24	8.0	0	0	2	6	0	12	3	0	3	12	0	0	0	1	2	0	0	0	41
9/25	8.0	0	0	3	0	0	7	0	0	0	2	0	0	0	1	0	0	0	0	13
9/26	8.0 8.0	0	0	10	1	2	14	4	0	1	11	0	0	0	1	1	4	0	0	48 42
9/28	8.0	0	0	3	2	1	15	0	0	0	7	0	0	0	9	0	2	0	0	40
9/29	8.5	0	6	0	6	3	18	4	0	1	68	0	0	0	16	4	1	0	0	127
9/30	6.0	0	0	2	1	0	6	4	0	1	4	0	0	0	0	1	0	0	0	19
10/1	8.0	0	29	6	4	0	17	2	0	0	30	0	0	0	7	1	3	0	0	99
10/2	8.0 8.0	0	28	4	10	0	17	2	0	2	188	1 0	0	0	4	0	4	0	0	250
10/4	8.0	0	20	2	1	0	5	1	0	0	0	0	0	0	3	3	0	0	0	16
10/5	8.0	0	4	4	0	0	15	2	0	0	0	0	0	0	2	1	3	0	0	31
10/6	7.0	0	13	1	0	1	16	8	0	0	3	0	0	0	4	0	0	4	0	50
10/7	8.0	0	6	6	5	0	10	5	0	1	0	3	0	0	8	2	0	0	0	46
10/0	9.0	6	12	4	2	1	31	9	0	0	1	1	0	0	15	1	0	0	0	83
10/11	8.5	0	24	8	2	0	49	8	0	0	0	0	0	0	10	5	3	1	0	110
10/12	8.0	0	29	5	7	4	65	16	0	6	0	3	0	0	11	5	4	0	0	155
10/13	8.0	0	27	2	3	0	23	6	0	3	0	0	0	0	3	0	3	1	0	71
10/14	7.0	0	10	2	0	0	3	3	0	0	0	0	0	0	0	2	0	0	0	20
10/15	8.0	12	102	1	3	0	43	8	0	2	0	5	0	0	7	3	2	2	0	192
10/17	8.0	0	131	1	3	1	42	9	0	10	0	3	0	0	0	2	3	2	0	207
10/18	8.0	0	42	2	4	1	26	4	0	3	0	8	0	0	2	1	0	1	0	94
10/19	8.0	3	31	1	2	1	7	11	0	2	0	4	0	0	2	5	2	0	0	71
10/20	8.5	4	89	1	1	0	21	6	0	0	0	3	0	0	2	4	3	1	0	135
10/21	8.0	4	33	0	0	1	22	5	0	2	0	2	0	0	2	2	1	1	0	62
10/23	8.0	0	0	0	0	0	7	3	0	0	1	0	0	0	1	2	1	0	0	15
10/25	8.0	0	8	0	3	1	11	3	0	0	0	0	0	0	0	0	0	0	0	26
10/26	8.0	0	124	2	2	0	20	4	0	0	0	0	0	0	2	1	0	0	0	155
10/27	8.0	0	33	0	1	1	35	7	0	6	0	6	0		2	0	0	4	0	95
10/20	7,3	0	22	1	4	0	4	0	0	0	0	2	0	0	0	2	0	0	0	30
10/31	8.0	4	120	0	1	0	15	8	0	2	0	3	0	0	0	3	0	0	0	156
11/1	8.0	0	6	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	11
11/2	8.0	0	122	0	0	0	18	11	0	1	0	8	0	0	0	1	2	2	0	165
11/3	8.0 6.0	0	135	0	1	2	0د م	4	0	2	0	3	0	0	0	1	1	0	0	1/8
11/5	5.0	0	0	0	0	0	6	1	0	- 27	0	20	0	0	1	0	0	0	0	240
11/6	7.0	0	0	0	0	0	5	2	0	0	0	0	0	0	0	0	0	0	0	7
11/7	7.8	0	436	0	3	3	23	17	1	81	0	28	0	0	0	0	0	4	0	596
11/8	8.0	0	426	0	4	3	12	20	0	126	0	42	0	0	0	0	1	1	0	635
11/10	0.0 8.0	0	203	0	0	0	12	3	0	26	0	22	0	1	0	0	0	1	0	
11/11	8.0	2	125	0	3	2	13	2	0	26	0	33	0	0	0	0	0	3	0	209
11/12	8.0	0	66	0	2	0	6	3	0	4	0	6	0	0	0	0	2	0	0	89
11/13	4.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/14	8.0	1	30	0	0	0	3	1	0	2	0	10	0	0	0	0	0	0	0	45
11/16	8.0	0	10	0	5	1	3	0	0	0	0	10	0	0	0	0	0	0	0	3/ Q
11/17	8.0	0	2	0	0	3	0	0	0	7	0	4	0	0	0	0	0	0	0	16
11/18	4.0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	2
11/19	7.0	0	0	0	2	0	0	0	0	3	0	2	0	0	0	1	0	0	0	8
11/20	7.8	0	0	0	2	0	3	0	0	2	0	5	0	0	0	0	0	0	0	12
11/21	8.0	- 22	12	0	1	0	6	3	0	0	0	4	0	0	0	0	0	0	0	46
11/23	4.0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	.3
11/24	8.0	0	6	0	1	0	3	0	0	11	0	6	0	0	1	0	0	0	0	28
11/25	7.0	0	0	1	1	0	4	0	0	1	0	0	0	0	0	0	0	0	0	7
11/26	7.0	1	0	0	2	0	5	0	0	10	0	1	0	0	0	0	0	0	0	19
11/2/	7.5	0	7	0	1	0	11	0	0	6	0	6	0	0	0	0	0	0	0	31
11/29	6.0	2	0	0	0	0	1	4	0	3	0	6	0	0	0	1	1	0	0	18
11/30	7.0	0	0	0	0	0	3	2	0	2	0	3	0	0	0	1	0	0	0	11
88	670.0	61	2866	251	184	51	11187	321	1	418	2396	298	0	1	296	126	82	44	0	8583

Date	HRS	вv	TV	OS	Wile	dcat NH	Ridge SS	E Fall CH	20 NG	17 - RS	Hiber	nia, RT	Ne RL	w J GE	ersey AK	ML	PG	UR	Othr	TOTAL
8/15	3.3	0	0	0	0 0	1	0	0	0	0	0 0	0	0	0	0	0	0	0	0	1
8/29	2.3	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0
8/30 9/2	4.0	0	0	1	0	0	1	0	0	0	0 0	0	0	0	0	0	0	0	0	2
9/4	7.0	0	0	2	0	0	0	0	0	0	4	0	0	0	1	0	0	0	0	7
9/5	4.3	0	0	1	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	1
9/9 9/11	5.5	0	0	0	2	0	1	0	0	0	25	0	0	0	0	0	0	0	0	10
9/12	5.0	0	0	1	0	0	1	0	0	0	71	0	0	0	0	1	0	1	0	75
9/13 9/14	3.0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	2	0	0	0
9/15	7.3	0	0	9	7	1	9	2	0	0	83	0	0	0	2	0	0	4	0	117
9/16 9/17	9.5	0	0	6	6 6 2 4	0	9	10	0	1	113	0	0	0	4	3	2	1	0	156
9/18	5.0	0	0	0	0 0	0	1	0	0	0) 1	0	0	0	0	0	0	1	0	3
9/19	4.0	0	0	0) 0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	4
9/21	3.5	0	0	0	0 0	0	1	0	0	0	4	0	0	0	0	0	0	1	0	6
9/23	7.5	0	0	1	0	0	8	2	0	0	12	0	0	0	0	0	0	0	0	23
9/24 9/26	4.0	0	0	0	0 0	0	1	2	0	0	0 0	0	0	0	0	0	0	0	0	3
9/29	3.0	0	0	0	0	0	3	5	0	0	0 0	0	0	0	0	1	0	0	0	9
9/30	4.5	0	0	3	0	0	7	2	0	0	0 0	0	0	0	1	0	0	0	0	13
10/10	4.5	0	0	0) 1	0	3	1	0	0	0 0	0	0	0	0	0	0	1	0	6
10/13	4.0	0	0	0	0 0	0	2	1	0	0	0 0	4	0	0	0	0	0	0	0	4
10/19	4.8	1	0	0	0	0	4	1	0	0	0 0	4	0	0	0	0	0	0	0	10
10/21	3.5	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
10/25 10/27	6.0 4.0	0	0	0	0 0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0
10/31	5.0	0	0	0	0	0	3	0	0	0	0 0	0	0	0	0	0	0	0	0	3
11/2	4.5	6	0	0	, 0) 0	0	4	2	0	1	, 0 0	1	0	0	0	0	1	0	0	14
11/14	4.0	0	0	0	0 0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0
40	4.0 188.5	26	0	40	23	3	129	43	0	2	502	20	0	1	14	7	6	16	0	832
						Fire	Islar	d Fa	<u> </u> 20	017	- Islip,	Nev	v Y	orl	<u> </u>					
Date 8/25	HRS	BV	TV	OS 5	BE	NH 1	SS 0	CH	NG	RS	BW	RT	RL	GE	AK	ML 1	PG	UR	Othr	TOTAL
8/26	4.6	0	0	0	0 0	0	0	0	0	0	0 0	0	0	0	0	1	0	0	0	1
8/31 9/1	4.0	0	0	32	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	1
9/4	2.0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9/5 9/7	0.8	0	0	1	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	1
9/8	2.0	0	0	1	0	0	0	0	0	0	0 0	0	0	0	0	2	1	0	0	4
9/9	9.0	0	0	105	5 0 5 1	4	0	1	0	0	0 0	0	0	0	20	61	1	0	0	215
9/11	6.0	0	0	35	0	3	1	0	0	0	0 0	0	0	0	16	23	0	0	0	78
9/12	5.0	0	0	1	0	0	2	0	0	0	0 0	0	0	0	0	10	0	0	0	11
9/14	4.0	0	0	1	0	1	0	0	0	0	0 0	0	0	0	0	2	0	0	0	4
9/16	7.0 8.0	0	0	3	0	1	0	0	0	0	0 0	0	0	0	0	11	0	1	0	1/
9/17 9/18	5.0 7.0	0	0	2	0	0	0	0	0	0	0 0	0	0	0	0	2	0	0	0	4
9/19	2.5	0	0	8	3 1	0	2	0	0	0	0 0	0	0	0	2	14	0	0	0	27
9/20 9/21	7.5 9.0	0	0	41	0	0	1	0	0	0	0 0	0	0	0	11 108	69 173	3 10	0	0	125 429
9/22	9.5	0	0	201	0	13	6	0	0	0	0 0	0	0	0	343	209	10	0	0	782
9/23	9.0 4.0	0	0	11	0	7	9	3	0	0	, 0 0 0	0	0	0	60	57	2	0	0	149
9/26	7.5	0	0	0	0 0	1	0	0	0	0	0 0	0	0	0	2	13	1	0	0	17
9/28	8.0	0	0	44	1	3	2	0	0	0	0 0	0	0	0	19	37	27	0	0	133
9/29	7.0	0	0	24	0	6	2	0	0	0	0 0	0	0	0	7	15	0 24	0	0	54 154
10/1	8.5	0	0	16	0	2	1	1	0	0	0 0	0	0	0	9	21	0	0	0	50
10/2	8.5 8.5	0	0	8	8 O	2	0	0	0	0	0 0	0	0	0	4	13	1	0	0	28
10/4	5.5	0	0	0	0	0	1	0	0	0	0 0	0	0	0	0	2	4	0	0	7
10/5	4.0 7.0	0	0	1	, 0	0	0	1	0	0	, 0) 0	0	0	0	1	0	16	0	0	24
10/7	6.0	0	0	0	0 0	1	0	0	0	0	0 0	0	0	0	0	2	1	0	0	4
10/8	5.0	0	0	0	0 0	0	0	0	0	0	, 0) 0	0	0	0	0	1	2	0	0	4
10/10	8.5	0	0	7	0	0	0	2	0	0		0	0	0	2	7	37	1	0	56
10/12	5.0	0	0	4	0	0	1	1	0	0	0 0	0	0	0	0	12	0	0	0	18
10/13	6.5 7.5	0	0	0	0 0	1	1	2	0	0	0 0	0	0	0	0	1	0	0	0	5
10/16	7.5	0	0	14	0	6	5	4	0	0	0 0	1	0	0	20	29	6	0	0	85
10/17	8.0 5.5	0	0	4	+ 1) 0	5	3	1	0	0	, 0) 0	0	0	0	8	6 10	2	1	0	22
10/19	5.0	0	0	0	0 0	0	0	0	0	0	0 0	0	0	0	0	2	1	0	0	3
10/20	9.5 5.0	0	0	0	0 0	0	0	3	0	0	, 0	0	0	0	0	21	0	0	0	2
10/22	5.5	0	0	0	0 0	0	1	0	0	0	0 0	0	0	0	1	3	1	0	0	6
10/24	3.3	0	0	0	0 0	0	0	0	0	0	0 0	0	0	0	0	0	1	0	0	1
10/25	5.0 9.0	0	0	1	0 0	0	0	0	0	0	0 0	0	0	0	0	1	0	0	0	24
10/27	8.0	0	0	d	0	3	6	1	0	0	0 0	0	0	0	0	6	0	0	0	16
10/28 10/30	7.0 5.5	0	0	0	0 0	0	1	0	0	0	0 0	0	0	0	0	6 8	0	1	0	8
10/31	7.0	0	0	0	0	1	1	1	0	0	0 0	0	0	0	0	15	3	0	0	21
11/1	7.0	0	0	3	0	0	0	0	0	0	0 0	0	0	0	0	1	0	0	0	4
11/3	6.8	0	0	d	0	0	1	0	0	C	0 0	0	0	0	0	0	2	0	0	3
11/4	6.0 2.5	0	0	1	0	1	1	3	0	0	0 0	0	0	0	3	0	2	0	0	11
11/7	6.5	0	0	0	0 0	6	8	3	0	0	0 0	0	0	0	0	1	1	0	0	19
11/8	6.5 5.0	0	0	0	0 0	0	0	ь 0	0	0	, 0) 0	0	0	0	0	4	0	0	0	41
11/10	10.0	0	0	0	0 0	3	1	4	0	1	0	0	0	0	0	2	3	0	0	14
11/12	9.0 4.0	0	0	0	0 0	2	0	0	0	0	, 0	0	0	0	0	0	1	0	0	3
11/13	4.0	0	0	0		3	0	1	0	0	0 0	0	0	0	0	0	0	0	0	4
11/17	7.3	0	0	0	0 0	4	0	1	0	0	0 0	0	0	0	1	1	0	0	0	7
11/23	5.0 4.5	0	0	0	0 0	4	6	1	0	0	0 0	0	0	0	0	0	5	1	0	17
74	457.0	0	0	836	11	144	92	52	0	1	0	1	1	0	712	1177	216	6	250	3249

				Ligh	ntho	use	Point	Fall 20	17 - N	lew H	aven,	, C	or	necti	cut				
Date	HRS	BV	TV	OS	BE	NH	SS	CH NO	RS RS	BW	RT R		ε	AK	ML	PG	URC	Dthr	TOTAL
8/20	2.0	0	0	0	1	0	1	0	0 0	0	0	0	0	0	0	0	0	0	5
8/28	5.5	0	0	3	0	2	0	0	0 0	1	0	0	0	0	0	0	0	0	6
8/29	4.0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	1	0	0	0	1
9/1	7.3	0	1	13	2	1	0	0	0 0	1	0	0	0	6	2	0	0	0	26
9/2	8.0	0	0	19	0	2	0	0	0 0	0	0	0	0	0	2	0	0	0	23
9/4	5.0	0	0	35	0	2	0	0		0	0	0	0	0	0	1	0	0	36
9/6	6.0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	1	0	0	0	1
9/7	6.0	0	0	3	0	0	0	0	0 0	0	0	0	0	0	6	0	0	0	9
9/8	8.0	0	0	2	0	2	2	0	0 0	0	0	0	0	5	1	0	1	0	13
9/9	10.5	1	0	63	9	7	14	1	0 0	70	1	0	0	28	5	1	1	0	201
9/10	8.5	0	0	31	14	13	35	17	0 1	58	8	0	0	21	3	4	6	0	211
9/11	5.5	0	0	0C 9	0	2	13	4	0 0	0	0	0	0	6	1		0	0	35
9/14	6.3	0	0	10	0	3	1	0	0 0	0	0	0	0	9	4	2	0	0	29
9/15	6.0	0	0	4	0	2	1	2	0 0	0	0	0	0	1	2	0	1	0	13
9/16	9.0	0	0	12	0	9	33	16	0 3	17	0	0	0	14	17	6	15	0	142
9/17	9.8	0	0	30	1	12	91	21	0 0	1	0	0	0	72	35	0	9	0	272
9/18	6.0	0	0	60 50	1	4	53	19		0	2	0	0	14	16	3	0	0	208
9/20	9.0	0	5	79	1	3	96	30	0 1	9	0	0	0	22	8	1	-4	0	255
9/21	9.8	0	0	154	2	13	231	63	0 0	20	0	0	0	175	19	1	3	0	681
9/22	9.5	1	10	143	19	24	378	112	0 2	51	1	0	0	356	18	- 11	26	0	1152
9/23	8.0	0	2	41	14	5	181	61	0 0	14	6	0	0	28	4	6	58	0	420
9/24	5.5	0	0	8	0	1	3	1	0 0	0	0	0	0	1	1	0	0	0	15
9/25	/.0	0	0	4	1	5	10	4	0 0	0	0	0	0	2	2	0	0	0	54 A
9/27	9.5	0	0	9	0	0	11	6	0 0	0	0	ŏ	0	0	3	1	2	0	32
9/28	10.5	0	0	10	0	4	47	12	0 0	0	0	0	0	36	12	0	3	0	124
9/29	8.0	0	7	17	3	1	2	8	0 1	60	3	0	0	8	2	2	9	0	123
9/30	9.3	0	0	34	9	10	71	60	0 0	38	5	0	0	14	7	7	8	0	263
10/1	6.5	0	0	19	2	3	9	13	0 0	6	1	0	0	3	0	0	16	0	72
10/2	5.0	0	0	10	2	0	15	3	0 0	62	1	0	0	2	1	2	2	0	111
10/4	9.0	0	9	3	0	2	5	2	0 0	0	0	0	0	4	2	0	0	0	27
10/5	6.3	0	0	3	0	0	4	6	0 0	0	0	0	0	0	2	0	0	0	15
10/6	7.5	0	20	3	1	0	4	6	0 1	0	1	0	0	5	3	0	1	0	45
10/7	9.5	0	0	5	0	5	28	14	0 1	0	0	0	0	11	7	3	8	0	82
10/8	4.3	0	10	10	0	1	25	1	0 0	0	2	0	0	24	0	4	0	0	216
10/10	9.0	2	11	52	12	10	51	64	0 0	/ 8	0	0	0	23	10	9	41	0	216
10/12	8.3	0	52	15	9	2	32	63	0 3	0	22	0	0	3	3	6	16	0	226
10/13	7.8	0	8	6	1	2	6	27	0 1	0	3	1	0	0	4	0	11	0	70
10/14	7.5	0	0	0	0	0	3	2	0 1	0	0	0	0	2	1	1	0	0	10
10/15	4.5	0	0	4	0	0	0	0	0 0	0	0	0	0	0	1	0	0	0	5
10/16	/.5	0	5	5	4	2	25	40	0 0	2	12	0	0	21	3	1	12	0	120
10/17	9.5	0	94	2	0	6	16	9	0 0	0	0	0	0		3	0	2	0	41
10/19	6.5	0	9	1	0	0	13	6	0 0	0	2	0	0	- 1	1	0	0	0	33
10/20	9.0	0	7	2	3	3	56	39	0 0	0	7	0	0	16	8	3	10	0	154
10/21	7.3	0	0	0	0	3	28	6	0 0	0	1	0	0	2	1	1	5	0	47
10/22	4.5	0	0	0	0	1	2	1	0 0	0	0	0	0	0	0	0	0	0	4
10/23	7.0	0	12	0	0		10	9	0 0	0	0	0	0	2	2	1	0	0	27
10/25	6.0	0	0	1	0	0	1	0	0 0	0	0	0	0	2	0	1	0	0	5
10/26	5.3	0	0	2	1	1	23	15	0 1	0	0	0	0	3	3	0	1	0	50
10/27	9.3	0	1	5	1	2	11	5	1 1	0	1	0	0	0	1	0	6	0	35
10/28	8.0	0	0	0	0	2	16	3	0 0	0	0	0	0	1	8	0	0	0	30
10/30	2.5	0	0	1	0	0	2	12		0	0	0	0	2	0	1	0	0	7
10/31	5.5 6.0	0	0	2	0	7	20	2	0 0	0	0	0	0	0	4	0	0	0	31
11/2	6.5	0	0	0	1	1	13	2	0 0	0	0	0	0	0	1	1	0	0	19
11/3	8.0	0	0	1	0	2	10	7	0 0	0	0	0	0	0	1	1	0	0	22
11/4	8.5	6	20	2	13	9	49	24	0 51	0	50	0	0	1	6	6	11	3	251
11/5	3.3	0	0	0	0	2	1	1	0 0	0	1	0	0	2	0	0	0	0	7
11/0	2.5	0	0	2	1	4	47	50	0 70	0	43	0	0	0	2	3	38	0	320
11/8	9.0	0	127	0	4	8	55	49	0 122	0	28	0	0	0	3	6	25	0	427
11/9	4.0	0	0	0	0	0	6	2	0 1	0	3	0	0	0	0	0	0	0	12
11/10	7.8	0	1	0	6	3	10	4	1 0	0	9	0	0	1	2	4	2	0	43
11/11	6.5	2	9	0	9	4	10	6	0 15	0	2	0	0	0	0	1	2	0	60
11/12	4.3	0	0	0	0	3	4	3		0	0	0	0	0	0	0	0	0	10
11/14	2.3	0	0	0	0	0	0	0	0 0	0	1	0	0	0	0	1	0	0	2
11/15	7.8	0	15	0	1	7	18	4	0 8	0	4	0	0	0	0	0	3	0	60
11/16	2.0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0
11/17	8.5	0	1	1	1	14	11	5	0 1	0	1	0	0	0	3	2	0	0	40
11/18	3.0	0	0	1	0	0	1	0	0 0	0	1	0	0	0	0	0	0	0	3
11/19	5.0	0	1	0	2	1	11	2		0	4	0	0	0	1	1	0	0	27
11/20	5.8	0	0	0	2	2	3	1	0 0	0	- 4	0	0	0	1	1	0	0	2/ 9
11/22	6.8	0	0	0	0	1	0	0	0 0	0	0	õ	0	0	0	1	0	0	2
11/23	6.0	0	1	0	0	1	3	1	0 5	0	8	0	0	0	1	0	1	0	21
11/24	4.5	0	0	0	0	0	0	1	0 0	0	0	0	0	0	1	0	0	0	2
11/25	4.8	0	0	0	0	0	2	0	0 0	0	0	0	0	0	0	0	0	0	2
11/26	4.8	0	0	0	1	0	9	7		0	1	0	0	0	2	2	1	0	15
11/2/	4.0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	20
11/29	6.5	0	0	0	0	0	0	1	0 0	0	0	0	0	0	0	0	0	0	1
12/1	2.5	0	20	0	0	0	5	2	0 2	0	5	0	0	0	0	0	1	0	35
01	F 0 0 2	1 4 0	507					4000	al ao <u>o</u>		0.40	~1	~	4070	0.77			a - 7	

DEAK DAILY SITE COUNTS Eall 2017

			1	PEA	K DA	ILY SHE COU	JIN I 3) - Fá	all 2017			ń		
BROAD-WINGE	D H	٩WK	RED-SHOULDE	RED	HAWK	SHARP-SHINN	ED HA	٩WK	AMERICAN KES	TREL		OSPREY		
Wachusett	9/11	4894	Quaker Ridge	11/8	277	Lighthouse Point	9/22	378	Lighthouse Point	9/22	356	Fire Island	9/22	201
Hook Mountain	9/22	3164	Quaker Ridge	11/4	260	Lighthouse Point	9/21	231	Fire Island	9/22	343	Lighthouse Point	9/21	154
Putney Mountain	9/16	3021	Quaker Ridge	11/7	226	Putney Mountain	10/10	214	Lighthouse Point	9/21	175	Lighthouse Point	9/22	143
Wachusett	9/12	3008	Chestnut Ridge	11/4	167	Hook Mountain	9/22	200	Fire Island	9/21	108	Fire Island	9/21	131
Putney Mountain	9/17	2218	Montclair	11/8	126	Lighthouse Point	9/23	181	Cadillac Mt	9/11	108	Fire Island	9/10	105
Clarry Hill	9/10	1860	Lighthouse Point	11/8	122	Quaker Ridge	9/22	143	Quaker Ridge	9/21	85	Lighthouse Point	9/20	79
Pack Monadnock	9/21	1836	Chestnut Ridge	11/8	105	Cadillac Mt	9/11	129	Cadillac Mt	9/10	84	Fire Island	9/9	66
Mount Peter	9/21	1764	Montclair	11/7	81	Washington Valle	9/22	118	Lighthouse Point	9/17	72	Lighthouse Point	9/9	63
Mount Watatic	9/10	1395	Lighthouse Point	11/7	70	Quaker Ridge	9/21	117	Lighthouse Point	9/18	64	Lighthouse Point	9/18	60
Pack Monadnock	9/13	1373	State Line	11/8	68	Quaker Ridge	9/18	113	Fire Island	9/23	60	Lighthouse Point	9/19	59
Montclair	9/22	1308	Chestnut Ridge	11/7	63	Cadillac Mt	9/13	107	Montclair	9/22	43	Lighthouse Point	10/11	52
Pack Monadnock	9/16	1241	Washington Valley	11/8	56	Clarry Hill	10/16	103	Washington Valley	9/22	39	State Line	9/18	47
Mohonk Preserve	9/16	1224	State Line	11/7	51	Mohonk Preserve	10/28	97	Fire Island	9/10	39	Fire Island	9/28	44
Pack Monadnock	9/10	1219	Lighthouse Point	11/4	51	Lighthouse Point	9/20	96	Cadillac Mt	9/21	37	Lighthouse Point	9/23	41
Putney Mountain	9/14	1193	Pack Monadnock	11/4	46	Pack Monadnock	9/21	93	Lighthouse Point	9/28	36	Fire Island	9/20	41
Mount Watatic	9/12	1149	Washington Valley	11/7	43	Quaker Ridge	9/17	93	Quaker Ridge	9/22	36	Lighthouse Point	9/11	38
Mount Peter	9/17	1140	Pack Monadnock	11/8	39	Lighthouse Point	9/17	91	Chestnut Ridge	9/17	36	State Line	10/12	36
Putnev Mountain	9/15	979	Montclair	11/9	28	Pack Monadnock	9/16	89	Cadillac Mt	9/30	35		-	
, Pack Monadnock	9/17	945	State Line	11/9	28	Pack Monadnock	9/17	86	State Line	9/18	35	NORTHERN H	ARRIE	R
Mount Peter	9/13	922	Mount Peter	11/4	27	Hook Mountain	9/18	85				Lighthouse Point	9/22	24
Mohonk Preserve	9/17	917		, .		Cadillac Mt	9/10	84	MERLIN			Fire Island	11/8	15
Bear Mountain	9/12	873	ROUGH-LEGGE	D H	AWK	Chestnut Ridge	10/11	81	Fire Island	9/22	209	Lighthouse Point	11/17	14
Clarry Hill	9/11	846	Lighthouse Point	10/10	1	Lighthouse Point	9/30	71	Fire Island	9/21	173	Cadillac Mt	9/10	14
Pack Monadnock	9/9	843	Pack Monadnock	10/11	1	Carter Hill	10/11	70	Fire Island	9/30	90	Fire Island	9/22	13
Hook Mountain	9/11	839	Lighthouse Point	10/13	1	Mount Peter	10/20	69	Fire Island	9/9	79	Lighthouse Point	9/21	13
Wachusett	9/9	803	Mohonk Preserve	10/22	1	Montclair	9/22	66	Fire Island	9/20	69	Lighthouse Point	9/10	13
Putney Mountain	9/91	777	Putney Mountain	10/22	1	Montelun	5122	00	Fire Island	9/10	61	Lighthouse Point	9/17	12
Putney Mountain	0/10	747	Pack Monadnock	11/7	1	COOPER'S HAV	NK		Fire Island	0/22	57	Lighthouse Point	10/11	10
Mohopk Procoryo	9/19	747		11//	1	Lighthouse Point	0/22	112	Fire Island	9/23	- 37	Lighthouse Point	0/20	10
Qualtor Pidge	9/10	743		11/0	1	Lighthouse Point	9/22	02	Fire Island	9/10	49	Lighthouse Point	9/30	10
Quaker Ridge	9/10	/ 32	Fire Island	11/11	1	Lighthausa Baint	10/10	02	Fire Island	9/28	3/	Lighthouse Point	0/22	9
	9/15	691	washington valle	11/11	1	Lighthouse Point	10/11	64		9/1/	30		9/23	9
Mount watatic	9/21	641		11/14	I	Lighthouse Point	10/12	63	Fire Island	10/16	29	Lighthouse Point	9/16	9
Quaker Ridge	9/11	639		F		Lighthouse Point	9/21	63	Fire Island	9/11	23	Cadillac Mt	9/11	9
Barre Falls	9/9	635	GOLDEN EAGL	E 		Lighthouse Point	9/23	61	Fire Island	10/20	21			
Putney Mountain	9/12	631	Carter Hill	11/7	4	Lighthouse Point	9/30	60	Fire Island	10/1	21	TURKEY VULT	JKE	10.6
			Mohonk Preserve	11/28	2	Lighthouse Point	11/7	50	Harpswell Penins	10/16	19	Montclair	11/7	436
RED-TAILED H	AWK		Quaker Ridge	11/23	2	Lighthouse Point	11/8	49	Lighthouse Point	9/21	19	Montclair	11/8	426
Mohonk Preserve	11/9	99	Mohonk Preserve	11/21	2	Chestnut Ridge	10/12	41	Lighthouse Point	9/22	18	Chestnut Ridge	11/9	309
Putney Mountain	11/7	92	Chestnut Ridge	11/16	2	Lighthouse Point	10/16	40	Fire Island	10/11	17	Montclair	11/9	303
Mount Peter	11/10	73	Quaker Ridge	11/10	2	Lighthouse Point	10/20	39	Chestnut Ridge	9/16	17	Chestnut Ridge	11/8	269
Clarry Hill	11/8	71	Clarry Hill	10/11	2	Chestnut Ridge	10/11	38				State Line	11/7	256
Quaker Ridge	11/8	69	Clarry Hill	10/10	2	Quaker Ridge	10/12	32	PEREGRINE FA	LCON		Barre Falls	10/11	243
Pack Monadnock	11/8	62				Quaker Ridge	10/11	32	Fire Island	10/10	37	Chestnut Ridge	11/4	242
Clarry Hill	11/4	59	BALD EAGLE			Quaker Ridge	11/4	31	Fire Island	9/28	27	Quaker Ridge	11/8	237
Mohonk Preserve	11/8	53	Clarry Hill	11/4	37	Lighthouse Point	9/20	30	Fire Island	9/30	24	Chestnut Ridge	10/31	203
Carter Hill	11/7	52	Clarry Hill	10/16	31				Fire Island	10/11	21	Quaker Ridge	10/20	189
Lighthouse Point	11/4	50	Clarry Hill	10/10	24	NORTHERN GO	DSHA	WK	Fire Island	10/6	16			
Putney Mountain	11/4	49	Wachusett	9/10	21	Putney Mountain	10/16	3	Cadillac Mt	9/28	13	BLACK VULTU	RE	
Putney Mountain	10/27	48	Clarry Hill	10/27	20	Pack Monadnock	10/28	2	Lighthouse Point	9/22	11	Mount Peter	11/15	33
Quaker Ridge	11/4	44	Clarry Hill	10/28	19	Putney Mountain	10/27	2	Putney Mountain	9/28	10	Mount Peter	10/10	25
Lighthouse Point	11/7	43	Lighthouse Point	9/22	19	Carter Hill	10/17	2	Fire Island	9/22	10	Montclair	11/21	22
Montclair	11/8	42	Washington Valley	9/8	19	Greenlaw Mounta	10/16	2	Fire Island	9/21	10	Wildcat Ridge	10/13	17
Wachusett	11/4	42	State Line	10/12	16	Carter Hill	10/16	2	Lighthouse Point	10/11	9	Hook Mountain	10/6	14
Putney Mountain	11/10	41	State Line	9/18	16	Greenlaw Mounta	10/10	2	Pack Monadnock	10/11	7	Montclair	10/16	12
, State Line	11/4	38	Clarry Hill	11/8	15	Pack Monadnock	10/6	2	Greenlaw Mounta	9/28	7	Mount Peter	11/4	11
Barre Falls	10/18	36	State Line	10/11	15	Greenlaw Mounta	10/4	2	State Line	9/18	. 7	State Line	10/19	10
	.,		Montclair	9/22	15			_				Hook Mountain	11/2	9
SWAINSON'S F	1AWk	(Bear Mountain	9/22	15	SNOWY OWI			SHORT-FARED	OWI		Chestnut Ridge	10/28	9
Greenlaw Mountain	9/29	1	Pack Monadnock	10/1	14	Fire Island	11/11	1	Lighthouse Point	11/4	3	Mohonk Preserve	10/27	q
Greenlaw Mountain	10/21	1	Lighthouse Point	9/22	1/	Fire Island	11/26	1	Ouaker Ridge	11/8	1	Helderberg Escare	9/22	7
Greeniaw Mountain	10/21	1	Lighthouse i Unit	1/25	14		11/20	1	Vuakei Kiuge	11/0		Lieuenneig Lscalp	1/23	/

Estimating Peregrine Population Trends Based on Hawk Watch Data

By Drew Panko

Peregrine Migration Tracks:

To be useful predicting population trends, hawk watch data must be supplemented with other information. In particular, what are the source regions for each watch, and what weather conditions shift the path of migrating hawks? This information can only be found by banding hawks on their breeding grounds and then tracking them during their migration. Until the 90's the only way to track them was to re-trap them at various points along their migration route. Important information has been gained by banding. Mattox & Seegar (1988) reported that of 17 Peregrine Falcons (PG)) banded in Greenland (1972-'85), and re-trapped in southbound migration, two were re-trapped at Democrat Point NY (on the same barrier beach as Fire Island), one at Cape May NJ, four at Chincoteague VA, and two in Padre Island TX. The Padre Island birds show that some PGs take an inland route, and one bird re-trapped in McGregor IA, along the Mississippi River, also shows the non-coastal route of some PGs, likely including the two banded on Padre Island TX.

Then solar powered satellite radios became available, and if you were an accomplished hawk bander and could muster the financial resources to buy the radio you could obtain the much more detailed data. Besides cost, the early drawback of this method was the weight of the transmitter, which allowed



PEFA Migration Map – "Island Girl" (female) - Combined North and South Migration Map Yrs. 2009-2013



it to be used on only the largest hawks, mainly Peregrines, Eagles, and Osprey. But the radios are getting lighter and are beginning to be used on smaller birds. While there have been many transmitter studies of Peregrines only a few have been published for North America birds.

Pertinent to our discussion is a published account based on two migrant Peregrines banded on Mohegan Island Maine by DeSorbo, Wright, Johnson, and Gray: http://www.briloon. org/uploads/ BRI_Documents/Raptors/BRI%202012-08%20 Bird%20migration%20stopover %20sites.pdf

Close examination of these two tracks show one (PEFA 820) flying over water from the vicinity of Cape Cod MA directly to Long Island and passing close to, if not over, the Fire Island (FI) hawk watch. The other (PEFA 821) leaves Mohegan Island and makes landfall in New Jersey, paralleling Long Island but staying well off shore and missing FI. Both pass close enough to Cape May (CM) to possibly be counted there, and continue their journey close to or over the shoreline until jumping off for a major overwater flight at Cape Hatteras, North Carolina. One female Peregrine, Island Girl, banded and tracked for four years by the Southern Cross Peregrine Project in Missouri, clearly shows a different migration route. (https://raptorlab. org/expeditions/1799) Although her hatch site and breeding site are east of Hudson Bay, both her north and southbound migration paths were through the Great Lakes or further west, not along the east coast.

Migratory Movements of Peregrines Falcons Captured on Block Island, RI (DeSorbo) http://www.briloon.org/uploads/ BRI_Documents/Raptors/ Raptors_Block_Island_Map_ Insert_053014.pdf

The largest number of tracks were found from another publication also by DeSorbo, this time of Peregrines banded and released from Block Island. These tracks illustrate the great variability of the paths taken by individual Peregrines. They also confirm the tendency of Peregrines that pass over Block Island to migrate over water relatively close to the eastern coast until many jump off in the vicinity of Cape Hatteras, NC. To really understand some of these tracks it would be important to consider each with the weather systems it encountered. The aberrant track of the bird flying far to the east was a bird DeSorbo believes hitched a ride on several ships (straight line course at the speed of a ship) and eventually perished before completing its first migration attempt.

Figure: Block Island Peregrines. Fall migration paths used by migrant Peregrine Falcons fitted with satellite transmitters on Block Island. Males (n = 4) and females (n = 8). Peregrines used both inshore and offshore habitats along the mid-Atlantic U.S. states. After reaching North Carolina, many flew over open water to reach wintering areas in the Caribbean and Central and South America. Male peregrines tended to migrate further south compared to females, but sample sizes are limited (particularly for males). Map by Jeff Tash.

Historical Perspective:

Our best insight into the dynamics of the Peregrine (PG) population is available from the longest running yearly count totals from Hawk Mountain PA. To my mind this plot divides into three periods-a period of low but stable counts, a period of decline to the lowest counts, and a period of rising counts. During the first period, from 1945 to about 1960, the population was depressed by the pressure of humans, but still breeding. PGs were shot, their young captured by falconers, their eggs collected, and their habitat reduced and disturbed by growing human population, and they were being poisoned by many poisons, but particularly DDT, introduced around 1945. By around 1960, the beginning of our second period, the concentration of DDT had increased to the point that breeding success was markedly reduced and the population declined to the new lows of the mid-'70's. Few or no anatum Peregrines were left breeding in the eastern US and adjacent Canada. This is likely the reason for the low variation in counts during the mid-70's. With no new offspring, there was little variation in numbers from year to year. This further suggests that most of the yearly variation seen in counts during the first and third periods are due to varying breeding success from year to year and not weather conditions encountered during migration.

The highest number of PGs counted in the northeast is at Cape May. The introduction (hacking) of mixed heritage PGs started in the early '70's. We don't have Cape May counts from '45, so the graph shows only the recovery phase of the PGs now breeding in the Northeast. The data from Cape May shows particularly large deviations in 1996 & '97 (hi values) and particularly low values in 2001 and especially 2015. As seen in the banding and tracking data, individual Peregrine paths are very variable and it is likely that the high counts in '96 & '97 were simply the result of poor weather offshore, while the low count in 2015 was due to a poor breeding year, but good migration weather offshore cannot be ruled out.

Breeding Regions:

What are the possible source regions for the PGs that are counted at our hawk watches? From the Birds of North America account of PG distributions (BNA-https://birdsna.org/Species-Account/bna/species/perfal/introduction) we see the breeding areas of PGs (medium and dark shading on the map). We might expect to see different population trends for the various regions, i.e. Greenland, Arctic N. Am., Nova Scotia, and inland New England. Note that the map indicates that the New England population does not migrate. While this is possible, I believe it is more likely that although the adults might stay in the general region, the immatures may move significant distances and be counted at our hawk watches. It should be noted that other maps of breeding areas include breeding as well as migration in Canadian boreal forest. (Note: Greenland is actually much further east, with almost all of it east of Newfoundland.)

Local Watches:

Six hawk watches in the New York-New Jersey-Connecticut region account for more than half of all the Peregrines counted in the NorthEast, offering insight to our understanding of PG populations. FI in New York and Lighthouse Point (LH) in Connecticut are located on their respective shorelines. Three of the sites are relatively close to the coast—Quaker Ridge (QR) at 6.6 mi, Hook Mountain (HM) at 15.4 miles, and Montclair (MC) at 19 miles from the nearest coastline. Mount Peter (MP), at 37 mi, is furthest inland. Examination of count data for the same or subsequent days from these sites indicate that they are independent of each other. That is, individual hawks that are counted at one site are not counted at the others.

The yearly totals of PGs observed at FI are the largest counted north of Cape May (CM). A comparison of the graphs of FI and CM shows both similarities and differences. 2015 is noticeably low at both hawk watches while the 1996, '97 and '01 do not seem to match. The prominent high years of 2008 & '09 & '10 at FI are only shallowly matched at CM. Both CM and FI show mediocre years after 2010 while Hawk Mountain shows a prominent maximum for 2014, not seen at either CM & FI. The "Trend" for PGs at FI is a population growth of about 3.1/164 or 1.9% since 1983. Cape May has been changing at 20/900 or 2.2%.

 R^2 gives the percentage of the variation in all the years that is explained by the changing years. In the case of FI, 19% of the total variation is explained by the trend line, leaving 81% of yearly variation attributed to other influences (likely weather). The increasing population trend at Cape May (since '83) explains 31% of its variation. So the counts at FI are more variable than the counts at Cape May.

To find out how significant the 19% explained is, I calculated a p-value of 0.0081. A value of 0.01 is 1 chance in 100 of occurring by pure chance. So statistical analysis indicates that our outcome of 19% explained variation has a less than 1 chance in 100 of occurring by random chance.

Similar analyses was done for yearly totals of PGs at Lighthouse Point over the same years as the FI data. Since LH often covered more days then FI, the LH data was adjusted to the same number of days as FI. Both sites counted on more that 95% of the dates on which PGs could be expected, i.e. 9/20-10/20 in all years.

LH has counted an increasing number of PGs since 1983, an average of 4.5/86 or 5.2% more per year and this trend accounts for more than 60% of the yearly variation in PG numbers. Note the high count year of 1990 occurs at both sites as well as the low count year of 2015. While the counts for '97, '98 and '99 do not seem to correspond to either FI or CM.

The trends and results for PGs from '83-'17 are tabulated for all the local watches, together with CM and Hawk Mountain (HkMt). CM counts far and away the most PGs. All watches except LH, show a trend of about 2%+/-1%.

Peregrine Falcons								
Site	Aver.	Growth	R ²					
FI	165	1.9%	19%					
LH	81	5.5%	62%					
QR*	23	2.8%	32%					
НМ	25	3.0%	30%					
MP	11	2.4%	23%					
MC	34	1.4%	49%					
HkMt	46	1.2%	56%					
СМ	917	2.2%	31%					

LH has the highest * QR data only from '85

increase in PGs, as well as the highest percent explained. The total of over 900 at CM indicates that we do not count anywhere near all of the PGs that migrate through the region, and that CM must count PGs that pass uncounted through our region, and it's likely some may be coming in from offshore as seen in the PG tracks as well as additional inland birds. We do not see any differences in the population trends at the various hawk watches that would indicate they are counting PGs originating in different source regions. Except for LH. Perhaps a significant number of the PGs introduced in New England do indeed migrate and disproportionately pass LH? Note that the population counted at LH shows a stronger correlation with an exponential growth (R^2 =0.72) than with a linear one (R^2 =0.61). This exponential growth implies a population expanding into a vacant breeding area and is not seen in any other hawk watch for PGs. It suggests that some of the PGs introduced in New England do indeed migrate and that more of these hybrid PGs proportionately pass LH than any other hawk watch in the region.

A graph of the yearly totals from LH (y-axis) against the yearly totals from FI (x axis) has a highly significant p-value of p = 0.00077 (less than 1 chance in a 1000 of being random). So it seems likely that both FI & LH count PGs from source regions with the same population increase... therefore, likely the same population—in this case a mixture of Arctic and local breeders. If this is so, and you count the years where the LH count is uncharacteristically large (above the trend line) (6 points), it seems likely that these are years when the weather favors LH over FI. Years with points well below the line (12 points), when the weather favors the PGs going to FI, are twice as likely as the reverse. This correlation also suggests that when looking for a trend in PG populations the sum of FI & LH is better than the counts at either one alone, because some weather effects should cancel in the sum.

If FI and LH are indeed counting PGs from the same source region, this should be reflected in their respective seasonal distributions, presented here with a 3-day running average. The upper curve, marked with triangles, is FI PGs; the lower curve, marked with circles, is LH PGs. The shape of the curves is very similar. The peak in the LH curve is markedly narrow compared to the broader FI curve. The locations of the peak, at just one day difference, is essentially the same. The "shoulders" on the FI curve are much reduced on the LH curve, but occurring on the same dates, 9/29 and 10/11. The

curves themselves are absolutely unique....no other species at any other hawk watch that I have looked at has only one prominent peak! The similarities of the two curves are strong evidence that most of the PGs at these sites originate in the same source region(s).

The seasonal distribution for CM is very similar to LH and different from FI because, like LH, it has only weak shoulders before and after the main peak. The CM peak is at the same date as LH and FI. So, FI is the different one here. In the very early season (9/1-9/21) LH sees 13.5% of its season total, CM sees 6.2% and FI 5.2%. A reasonable interpretation would be that LH gets a higher percentage of its total hawks from a different source than FI or CM. My guess is that it is the local New England breeding population that contributes a higher percentage of PGs sighted at LH at very early dates, and that this also explains its higher growth rate (5.5%) than FI (1.9%) or CM (2.2%).

Now we can compare the yearly totals at Cape May with the sum of the yearly totals of FI and LH and see if they correlate. For one thing the peaks at 1990 & 2008, '09 & '10 and the minimum at 2015 correspond closely between CM and the

sum of LH & FI. But the prominent peak in the Cape May data at '96 & '97 is completely missing from the LH & FI sum.

The correlation between CM (Cape May PGs) and FI & LH* Sum (sum of Fire Island & Lighthouse Point PGs) is very high—higher than any others I have seen—and has a p-value (assuming normality) of 0.000023. That's less than 1 in 40,000.

We can also look at the maximum PGs seen on any day and something jumps out of the LH data for 2012: 10/6 was an exceptional day for LH. It was the highest number of PGs ever seen at LH, and more than twice as high as its next highest day. It was a big day for CM as well, but not making the top ten highest days. 18 for FI was much more moderate, barely making the top 30 ever. The weather was an important factor. The Metro area was in a southwest flow with an approaching cold front. New Haven, CT had moderate SW winds until the front came through with light rain at 4pm. The winds at Islip, NY were strong (15+) and gusty with clouds until the front passed at 6pm. And Dover, DE had moderate to strong SW winds until the front passed at 1pm. So, why did LH have such an outstanding day? It seems to me that the hawks it counted normally would have passed FI, but the PGs were

2017 Hawk Migration Report

deterred by the strong, opposing SW winds and moved inland to continue to migrate in the more moderate winds on the south shore of CT.

Date	Lighthouse Point	Fire Island	Cape May
October 4	0	1	69
October 5	8	41	130
October 6	66	18	164

So it would appear that the majority of PGs at FI & LH & CM are from similar source regions, with a higher proportion of inland New England breeders at LH. Weather conditions will shift the flight from FI to LH on occasion, but the majority of Greenland & Nova Scotia birds are more likely to pass FI. Cape May counts both the birds that pass FI and LH and more as its geography causes it to collect more birds from inland and over water sources as well. The northern North American coast trends in a SSW direction and Arctic and inland PGs may tend to fly S until they encounter the coast and then continue

along it. But after Cape Cod the coast trends more significantly westerly. While some PGs continue to follow the coast and pass LH, a larger number will continue over water if weather conditions are conducive. Some of these birds, predominately the females and immatures, see Long Island and detour to travel along its barrier beaches only to jump off over water again to their next landfall at Cape May. Some birds flying over water from Cape Cod pass Block Island, and may avoid Long Island entirely and next encounter land at Cape May. Some, particularly tundrius males, continue over water, bypassing Cape May and next encountering land at Florida or even South America. I expect that the most experienced adult PGs will take the shortest route to their wintering grounds and spend more time migrating over water, while immatures and females tend to take a slightly more inland route. I postulate that the more northern and eastern breeders tend to migrate over water more readily and encounter FI & Cape May; while more inland and southerly breeders (and a few North American Arctic PGs) tend to stay inland and pass LH, CM and other inland sites.

NorthEast Hawk Watch

... From the President, continued from page 1

writing but the data is available, including maps with trends noted for all the sites included in the Raptor Population Index for the past ten years.

I'd like to thank all the NEHW members and friends who have made financial contributions to NEHW above and beyond annual dues. These reports now cost more than our current dues to print and mail every year. We could not do this without gifts from members and the revenue from our quadrennial hawk migration conferences.

We are planning a NorthEast Hawk Watch Hawk Migration Conference for spring 2019 but cannot announce the date and location yet because we cannot be certain that the preferred site will be available then due to delays in construction work that has taken them far longer than expected. We will notify every member by email (or mail if you do not have an email address) when we have a firm location and date for the conference, but also check the NEHW web site periodically at www.battaly.com/nehw

I'd also like to encourage everyone to attend the 2018 Hawk Migration Association (HMANA) Conference in Detroit on October 12-14. This should be a great conference featuring some of the most accomplished professional and amateur authorities on hawks and hawk migration. For complete information on the conference, including a list of presenters, their presentations and registration information, visit HMANA. org. Bill Clark will present on "Raptor Migration Around the World," unusual plumages in raptors (including the numbers of hybrid individuals now being documented), and the Harlan's Hawk. David Bird will speak on the American Kestrel, and Rob Bierregaard will describe Osprey migration and some of the new insights revealed by advanced telemetry. Todd Katzner will speak at the conference banquet on the eastern Golden Eagle, which behaves quiet differently from what most people might expect and appears to be increasing in numbers. Kate Davis will give an inspiring keynote presentation on educating the public and especially youth about the beauty and importance of raptors. There will also be some outstanding presentations by experienced amateur hawk watchers, like our own Trudy Battaly and Drew Panko, Vic Berardi, and many more. The conference will also offer opportunities to visit two of the premier hawk watch sites in North America: Detroit Rivers Hawk Watch in Brownstown, MI, and Holiday Beach Hawk Watch in Ontario, during migration. It should be an exciting, informative, and inspiring three days.

We continue to look for people who might be interested in joining the NEHW board of directors or helping in other ways. Serving as a director of NEHW is a great way to learn more about raptors in the northeast, meet many people who know a lot about raptors, and make a difference in raptor conservation. The board meets once each year, usually in early March, in the Connecticut Valley in Mass. or Conn. If you would like to learn more about how you might contribute to NEHW, contact any of the regional coordinators or directors on the masthead listed in the front matter. It is a lot of fun, and you meet some really great, knowledgeable people!

The NorthEast Hawk Watch (NEHW)—and the raptors need your continued involvement and support. Renew your membership in NEHW, give inexpensive gift memberships to friends, buy a license plate holder so people wherever you drive can see that you are a hawk watcher, and invite friends to go hawk watching with you. Encourage young people to get out and look up during migration season! We need to do all that we can to help ensure that this important citizen science research continues for the benefit of the hawks we love.

> Paul M. Roberts NEHW President

You Can Help NEHW

We suggest that you consider giving a NEHW membership to hawk watching or birding friends. It is only \$10 for a 36pp annual report that provides data and analysis on over four decades of hawk watching in the northeast. Nobody in North America provides a more comprehensive report on each year's migration by site, by species, and by day for any region.

NEHW has developed a new membership brochure that you can download from our web site at www.battaly.com/ nehw. We want to recruit more people, including young adults and kids, to hawk watching. They are, in fact, the future of hawk watching and raptor conservation. Consider giving a brochure to friends or members of your local bird or nature club.

Visit the NEHW web site at www.battaly.com/nehw to check out the snappy NEHW license plate holders, available for only \$5 each plus postage and handling. You can also buy them directly from a NEHW director near you. The license plate holders announce to everyone who sees your car that you are a hawk watcher, and that you "COUNT", and they help others interested in hawks learn about NEHW!

Thank YOU For Your Gifts !

In 2017-18, 38 people made financial gifts to NEHW in addition to their membership dues. Your gifts are vitally important to our efforts and we thank you: Ajit Antony, George Appell, Renee Baade, Julie Brown, Gail Cameron, Daniel Capuano, Mary K. Clark, Myles Conway, Barbara Goodchild, Laurie Goodrich, Else Greenstone, Norbert Grohoski, Nora Hanke, Bill Hanley, Russell Johnson, Thomas Killip, Lloyd Klinger, Nigel Kraus, Susan Llorca, William Loomis, Jane Low, Lisa Lozer, Donald Manchester, David Matsushita, John Merrill, Doris Metraux, Martin Moore, Steve & Kathy Olson, Drew Panko, John & Linda Parker, Gerhard Patsch, Paul Roberts, Joseph Scordato, Luciano Toffolo, Matthew Tozer, Todd Watts, Edith & Robert Wilson, Joseph Wojtanowski, Mariko Yamasaki.

Rough-legged Hawk. Photo by Brian Rusnica

NorthEast Hawk Watch

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