

## 2013 Maryland eBird Stats

### Distribution of species and checklists by county and month and change from 2012

Overall, ebirders submitted 65,966 checklists for 350 species in the state of Maryland in 2013.

County	Species (# Change)	Checklists (% Change)
Allegany	195 (-8)	787 (-8.7%)
Anne Arundel	266 (-9)	5,669 (11.8%)
Baltimore	273 (-9)	8,553 (58.2%)
Calvert	235 (-5)	1,590 (63.6%)
Caroline	208 (0)	853 (-0.6%)
Carroll	213 (17)	1,456 (41.9%)
Cecil	229 (-16)	1,050 (2.0%)
Charles	188 (-8)	457 (2.7%)
Dorchester	253 (-11)	2,535 (13.3%)
Frederick	229 (8)	2,906 (13.9%)
Garrett	207 (-1)	1,110 (-17.5%)
Harford	243 (-5)	3,042 (75.4%)
Howard	236 (-5)	6,226 (4.2%)
Kent	225 (-9)	1,150 (-39.5%)
Montgomery	250 (-7)	7,044 (31.3%)
Prince George's	247 (-4)	4,518 (49.7%)
Queen Anne's	231 (-19)	2,065 (-13.3%)
Somerset	220 (-7)	894 (-35.9%)
St Mary's	247 (9)	1,699 (-0.9%)
Talbot	253 (-8)	3,850 (-7.3%)
Washington	204 (15)	1,078 (24.5%)
Wicomico	209 (-14)	1,459 (-4.5%)
Worcester	306 (0)	5,934 (-5.8%)
<b>Total</b>	<b>5,367 (-96)</b>	<b>65,925 (13.4%)</b>

Month	Species (# Change)	Checklists (% Change)
January	195 (-5)	7,334 (17.9%)
February	192 (-10)	8,220 (42.5%)
March	203 (-4)	6,980 (22.3%)
April	263 (6)	7,793 (31.1%)
May	271 (-3)	7,695 (27.6%)
June	238 (-6)	3,826 (1.8%)
July	233 (5)	2,869 (0.7%)
August	244 (-14)	3,602 (-16.0%)
September	251 (-16)	5,016 (10.9%)
October	252 (-10)	4,150 (-9.5%)
November	230 (-5)	4,116 (-7.9%)
December	194 (2)	4,365 (8.0%)
<b>Total</b>	<b>2,766 (-60)</b>	<b>65,966 (13.4%)</b>

#### eBirders Submitting ≥1 Checklist for MD

Year	Number
2013	2,630
2012	1,345
2011	1,042

Year	Total Checklists	Complete Checklists	Percent Complete
2013	65,966	46,746	70.1%
2012	58,180	39,278	67.5%
2011	49,352	33,223	67.3%

**Most and Least Observed** – The following tables list the top 20 most and least observed species in Maryland during 2012 according to the percentage of checklists on which they appear.

20 Most Observed Birds of 2012	
Species	Checklist Percentage
Northern Cardinal	53.45%
Carolina Wren	48.09%
Carolina Chickadee	42.83%
American Crow	41.68%
Tufted Titmouse	39.09%
Mourning Dove	38.93%
Blue Jay	38.85%
American Robin	36.94%
Red-bellied Woodpecker	35.27%
Canada Goose	34.91%
American Goldfinch	34.21%
Downy Woodpecker	33.09%
European Starling	32.74%
Turkey Vulture	32.12%
Song Sparrow	30.31%
Northern Mockingbird	29.04%
Red-winged Blackbird	27.81%
White-throated Sparrow	25.34%
Mallard	24.77%
Great Blue Heron	24.77%

20 Least Observed Birds of 2013	
Species	Checklist Percentage
Common Murre	0.0020%
Bicknell's Thrush	0.0024%
White-faced Storm-Petrel	0.0025%
Arctic Tern	0.0026%
Gull-billed Tern	0.0031%
Magnificent Frigatebird	0.0031%
Western Grebe	0.0035%
Western Kingbird	0.0051%
Eared Grebe	0.0052%
Cave Swallow	0.0055%
Northern Goshawk	0.0063%
Evening Grosbeak	0.0063%
White-winged Dove	0.0065%
Yellow-headed Blackbird	0.0071%
Trumpeter Swan	0.0072%
Franklin's Gull	0.0081%
Black Rail	0.0084%
Atlantic Puffin	0.0084%
Lark Sparrow	0.0098%
Manx Shearwater	0.0119%

**Species differences between 2012 and 2013**

Seen in 2013 but not 2012	Seen in 2012 but not 2013
Trumpeter Swan	Swainson's Hawk
Pacific Loon	Yellow Rail
White-faced Storm-Petrel	Thayer's Gull
Magnificent Frigatebird	Ruff
Northern Goshawk	Sooty Shearwater
Northern Lapwing	Calliope Hummingbird
Atlantic Puffin	Loggerhead Shrike
Snowy Owl	Pink-footed Goose
Say's Phoebe	Eurasian Collared-Dove
Black-throated Gray Warbler	Virginia's Warbler
Bullock's Oriole	Sabine's Gull

**Species Frequency Changes** – The following tables show species frequency data in Maryland and changes in frequency between 2012 and 2013 as defined by percentage of ebird checklists. The tables show checklist percentages for four time periods; the six-year average of 2005-2010, 2011, 2012 and 2013. The sample size (# of complete checklists) is also listed for each time period. The final column represents the percentage difference in checklist frequency from 2012 to 2013. The tables show the largest increases and decreases in checklist frequency (top 30). These tables are limited to species that appear in at least 0.5% of ebird checklists. **Please note** – Care should be taken not to necessarily assign increases or decreases to changes in a species population. A shift in the pattern of eBird reporting (habitat, season, chasing) will also affect checklist frequencies.

<b>Largest increases in species frequencies from 2012 to 2013 according to eBird data</b>					
	2005-2010 (69,272)	2011 (33,223)	2012 (39,278)	2013 (46,746)	Change from 2012
<b>Greater Scaup</b>	2.05%	2.29%	1.208%	1.859%	53.90%
<b>Lesser Scaup</b>	3.33%	3.30%	3.195%	4.879%	52.68%
<b>Black Scoter</b>	0.93%	0.96%	0.616%	0.911%	47.74%
<b>American Pipit</b>	1.12%	0.95%	0.880%	1.268%	44.17%
<b>Warbling Vireo</b>	1.45%	1.34%	1.495%	2.015%	34.76%
<b>Common Merganser</b>	2.99%	2.56%	2.033%	2.688%	32.21%
<b>Tennessee Warbler</b>	0.43%	0.60%	0.825%	1.061%	28.60%
<b>Yellow-billed Cuckoo</b>	4.02%	4.41%	4.081%	5.173%	26.74%
<b>Blackburnian Warbler</b>	0.54%	0.57%	0.893%	1.131%	26.67%
<b>Golden-crowned Kinglet</b>	5.13%	3.73%	5.656%	6.968%	23.19%
<b>Marsh Wren</b>	1.56%	1.19%	1.229%	1.445%	17.55%
<b>House Wren</b>	8.52%	6.57%	6.972%	8.146%	16.84%
<b>Palm Warbler</b>	2.61%	2.53%	2.691%	3.133%	16.42%
<b>Surf Scoter</b>	2.19%	1.87%	1.384%	1.586%	14.63%
<b>Wild Turkey</b>	1.47%	1.73%	1.562%	1.786%	14.40%
<b>Common Goldeneye</b>	2.47%	2.28%	1.629%	1.861%	14.24%
<b>Eastern Screech-Owl</b>	1.14%	1.10%	0.918%	1.046%	13.87%
<b>House Sparrow</b>	26.67%	17.85%	16.043%	18.094%	12.78%
<b>Dark-eyed Junco</b>	18.44%	16.06%	16.802%	18.870%	12.31%
<b>Long-tailed Duck</b>	2.28%	1.77%	1.417%	1.584%	11.74%
<b>Winter Wren</b>	2.84%	2.72%	3.690%	4.093%	10.92%
<b>Nashville Warbler</b>	0.64%	0.70%	0.685%	0.747%	9.02%
<b>Gadwall</b>	2.96%	3.59%	3.477%	3.786%	8.90%
<b>Pileated Woodpecker</b>	9.73%	9.81%	11.458%	12.406%	8.28%
<b>Blue-headed Vireo</b>	1.25%	0.98%	1.379%	1.493%	8.27%
<b>Redhead</b>	1.10%	1.62%	0.831%	0.895%	7.62%
<b>Ruby-crowned Kinglet</b>	6.89%	5.31%	6.234%	6.691%	7.32%
<b>Hermit Thrush</b>	3.62%	2.79%	3.218%	3.453%	7.28%
<b>Yellow-throated Vireo</b>	2.19%	2.17%	2.147%	2.296%	6.92%
<b>Northern Parula</b>	5.79%	6.02%	5.738%	6.119%	6.65%

<b>Largest declines in species frequencies from 2012 to 2013 according to eBird data</b>					
	2005-2010 (69,272)	2011 (33,223)	2012 (39,278)	2013 (46,746)	Change from 2012
<b>Pine Siskin</b>	2.34%	0.60%	2.924%	0.935%	<b>-68.04%</b>
<b>Mute Swan</b>	2.62%	1.49%	0.843%	0.371%	<b>-56.03%</b>
<b>Purple Finch</b>	2.14%	0.70%	2.249%	1.148%	<b>-48.93%</b>
<b>Red-breasted Nuthatch</b>	3.30%	1.36%	6.988%	3.656%	<b>-47.68%</b>
<b>Sora</b>	0.34%	0.45%	0.536%	0.291%	<b>-45.70%</b>
<b>Brown Pelican</b>	1.41%	2.10%	1.793%	0.996%	<b>-44.46%</b>
<b>Virginia Rail</b>	0.69%	0.98%	1.048%	0.660%	<b>-36.96%</b>
<b>Cattle Egret</b>	1.13%	1.41%	1.456%	0.920%	<b>-36.83%</b>
<b>Least Tern</b>	1.78%	2.09%	2.087%	1.358%	<b>-34.94%</b>
<b>Brant</b>	1.10%	1.04%	1.122%	0.736%	<b>-34.39%</b>
<b>Boat-tailed Grackle</b>	1.16%	1.55%	1.438%	0.947%	<b>-34.15%</b>
<b>Little Blue Heron</b>	1.87%	2.73%	2.555%	1.723%	<b>-32.56%</b>
<b>Peregrine Falcon</b>	1.35%	1.41%	1.330%	0.913%	<b>-31.35%</b>
<b>American Oystercatcher</b>	0.99%	1.26%	1.195%	0.821%	<b>-31.33%</b>
<b>American Coot</b>	3.18%	4.83%	4.310%	2.988%	<b>-30.67%</b>
<b>Blackpoll Warbler</b>	2.03%	2.00%	2.024%	1.438%	<b>-28.95%</b>
<b>Dunlin</b>	1.54%	1.44%	1.548%	1.104%	<b>-28.69%</b>
<b>Black-bellied Plover</b>	1.29%	1.48%	0.958%	0.684%	<b>-28.61%</b>
<b>Common Tern</b>	1.52%	1.83%	1.401%	1.004%	<b>-28.36%</b>
<b>Northern Gannet</b>	0.76%	1.07%	1.193%	0.861%	<b>-27.82%</b>
<b>Northern Pintail</b>	1.89%	1.95%	1.953%	1.412%	<b>-27.71%</b>
<b>Blue-winged Teal</b>	1.13%	1.26%	1.609%	1.171%	<b>-27.22%</b>
<b>Red-throated Loon</b>	1.10%	0.88%	1.017%	0.741%	<b>-27.08%</b>
<b>American Woodcock</b>	0.46%	0.48%	0.519%	0.379%	<b>-27.00%</b>
<b>Swainson's Thrush</b>	1.15%	0.82%	1.272%	0.936%	<b>-26.46%</b>
<b>Northern Bobwhite</b>	0.61%	0.71%	0.643%	0.482%	<b>-24.99%</b>
<b>Rose-breasted Grosbeak</b>	1.37%	1.14%	1.554%	1.174%	<b>-24.50%</b>
<b>Snowy Egret</b>	3.25%	4.12%	3.718%	2.845%	<b>-23.48%</b>
<b>Herring Gull</b>	14.99%	16.28%	14.573%	11.155%	<b>-23.46%</b>
<b>Yellow-throated Warbler</b>	1.06%	1.20%	1.575%	1.205%	<b>-23.46%</b>

Checklist percentages for preceding tables is somewhat controlled for seasonal differences in checklist numbers by equally weighting the % in all of ebird's 48 time points. This might not be the best method, but it's the easiest.

**Species to watch****Identified by >30% change from 05-09 to 2013 and sorted by strength of linear trend**

<b>Species</b>	<b>05-09</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>Trend</b>
<b>Mute Swan</b>	3.06%	2.17%	1.49%	0.843%	0.371%	0.994
<b>Sharp-shinned Hawk</b>	4.95%	4.52%	4.13%	3.681%	3.077%	0.990
<b>Tennessee Warbler</b>	0.38%	0.47%	0.60%	0.825%	1.061%	0.984
<b>Snow Goose</b>	1.77%	1.91%	1.49%	1.010%	0.875%	0.958
<b>Eared Grebe</b>	0.18%	0.07%	0.04%	0.014%	0.005%	0.953
<b>Winter Wren</b>	3.13%	2.49%	2.72%	3.690%	4.093%	0.947
<b>Short-billed Dowitcher</b>	1.20%	0.98%	0.94%	0.747%	0.651%	0.947
<b>Blackburnian Warbler</b>	0.57%	0.51%	0.57%	0.893%	1.131%	0.945
<b>Rock Pigeon</b>	14.36%	12.07%	11.39%	10.918%	9.312%	0.926
<b>Ring-necked Pheasant</b>	0.15%	0.14%	0.09%	0.084%	0.022%	0.925
<b>Northern Shrike</b>	0.11%	0.27%	0.12%	0.064%	0.015%	0.920
<b>Common Gallinule</b>	0.34%	0.37%	0.33%	0.139%	0.104%	0.912
<b>Common Eider</b>	0.27%	0.41%	0.23%	0.167%	0.115%	0.905
<b>Bicknell's Thrush</b>	0.04%	0.02%	0.01%	0.009%	0.002%	0.905
<b>Great Crested Flycatcher</b>	5.98%	6.90%	7.25%	8.749%	8.753%	0.868
<b>Common Grackle</b>	28.66%	24.74%	21.16%	20.275%	19.420%	0.865
<b>Chestnut-sided Warbler</b>	1.73%	1.86%	1.84%	2.367%	2.518%	0.862
<b>Purple Sandpiper</b>	0.60%	0.48%	0.48%	0.337%	0.314%	0.851
<b>Barn Owl</b>	0.14%	0.15%	0.08%	0.071%	0.049%	0.851
<b>Chipping Sparrow</b>	13.83%	15.13%	15.20%	17.745%	18.028%	0.848