

New Uses for BCN* Transect Data from Chicago Urban Parks

*Bird Conservation Network

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Bird Conservation Network

<https://urbanbirdmonitor.org/>

BCN BREEDING BIRD CENSUS: THE NUMBERS

- **18** years of breeding bird monitoring data
- **165 ,000** individual observations
- **386, 000** birds – **193** breeding sp.
- over **2300** points within almost **300** sites.
- **250 +** monitors – **13,400** field hrs
- Factoring in travel time **65 to 75,000** hrs.

When Will We Update the Breeding Birds Trends Analysis?

- 95+% of the data is from point counts.
- We're learning how to incorporate both transect and timed observation data into the species population trends analysis process.
- BCN's goal: A complete update and publication of a new 'Trends' by late 2017, containing 18 years of data

WE NEED YOUR HELP TO DO THAT!

How Good is the Coverage?

- North American Annual Breeding Bird Survey (BBS)
3200 routes in the lower 48.
- BBS – **160,000** points yearly (each 24.5 mi. route has 50 points/stops).
- Scaling up the 'density' of BCN's coverage, the BBS would need almost **30,000** routes to match the BCN coverage, based on land area.

WOODLAND BREEDERS

- **73% of our breeding species are stable, more than ½ of that group even increasing in population.**
- **The rest are in decline, ground nesters especially.**

GRASSLAND BREEDERS

- **70% of our breeding grassland species are stable, some increasing in population.**
- **A handful are declining, notably**
 - Eastern Meadowlark**
 - Sedge Wren**
 - Grasshopper Sparrow**

SHRUBLAND BREEDERS

- **60% of our breeding shrubland species are stable in population; a third of that group show modest gains.**
- **A handful are declining, notably**
Warbling Vireo
American Goldfinch!

WHAT WE DON'T KNOW (YET)!

There's insufficient data on less common species (especially marshland birds) to establish reliable trends.

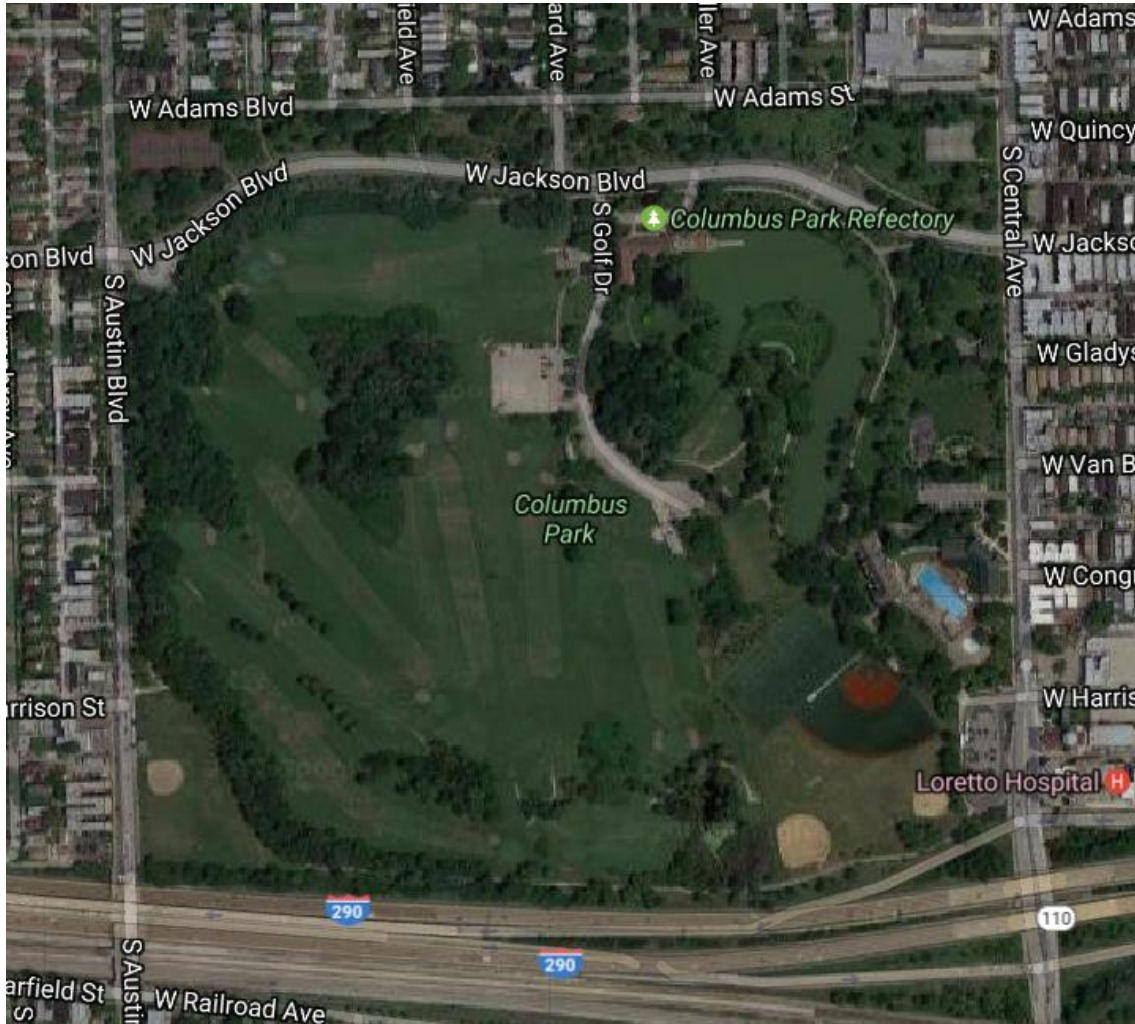
More years of data will steadily close that gap.

New ways to think about urban transect data:

- What data to collect
- How to analyze the data
- Who should see the data

<https://urbanbirdmonitor.org/>

Columbus Park

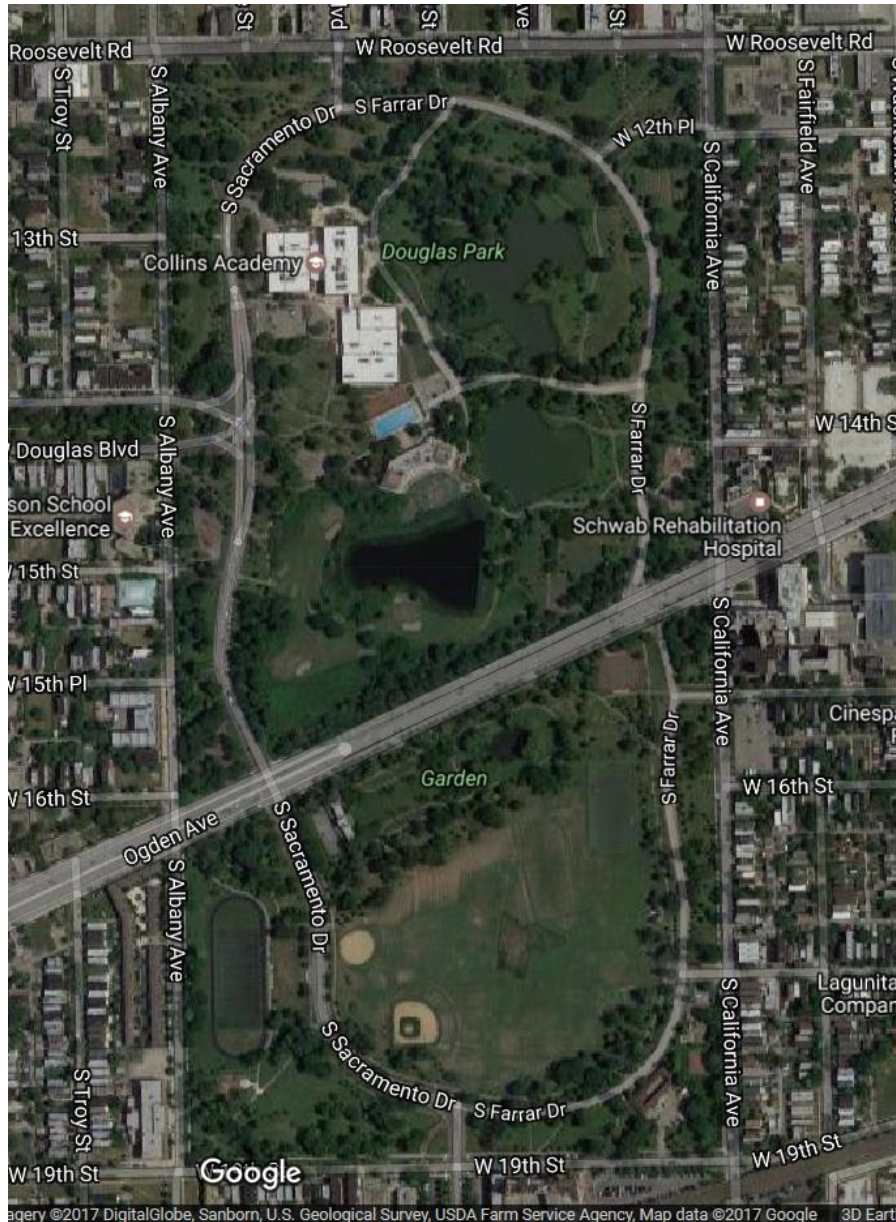


- 135 acres
- 3.2 mile transect
- weekly for 10 years +
- 751 checklists



Douglas Park

- 218 acres
- 2.5 mile transect
- sporadic, then weekly for 5 years
- 321 checklists



Our initial monitoring goals:

- Build long bird lists for these underbirded parks.
- Let the birding world know...
- ...and be impressed!

182 species at Columbus thru 2012,
lots of IBET posts, and then...
the *Elaenia*!



A Birder's Map of America

Northwest: Marbled Murrelet, Dr. Briefer's Urban Goshawks, Put a bird on it. (with a question mark), Spotted Owls, Hermit Warbler, Little Bunting, Hela birdy, Farallones, Pelagics!

West Coast: Varied Thrush, Desert, Snow. Cock., California Gulls Saved them. Area 51 - Alien Birds? Yeah. For real., Sage Thrasher, Scrub Jay, That Sparrow they split., The Salton Sea, Nutmeg Mannakin, Chiricahua, Wood -Rail, Hummingbirds, Chihuahuan Raven, Colima Warbler, Roadrunners, Golden Cheeks, Black Caps, Green Jays, Tropical Birds, Why don't we just go birding here?

Central: Baird's Sparrow, Sharp-tailed Grouse, I think? Wood Chipper, The Most NWRs, Clay-colored Sparrow, Nightingale -Thrush, I don't really know..., Migrating Cranes, I guess just more DICKS, GRASS (and prairies and stuff), That place with the Longspurs, Scissor-tailed Flycatchers, H O T, Fallout, Great Gray, Whitefish, Kirtland's Warbler, Red-shank, Biggest Week, Red-eyed Vireos, Tennessee's namesake bird doesn't even breed there., Migrants, I think..., Birders don't go here., Mississippi Kite, Brown-headed Nuthatches, Thrasher, Ivory Bill?, SWAMPS., Oil spill, Scrub Jay, BOOBIES Tortugas, Exotics Countable???, Where White-cheeked Pintails come from.

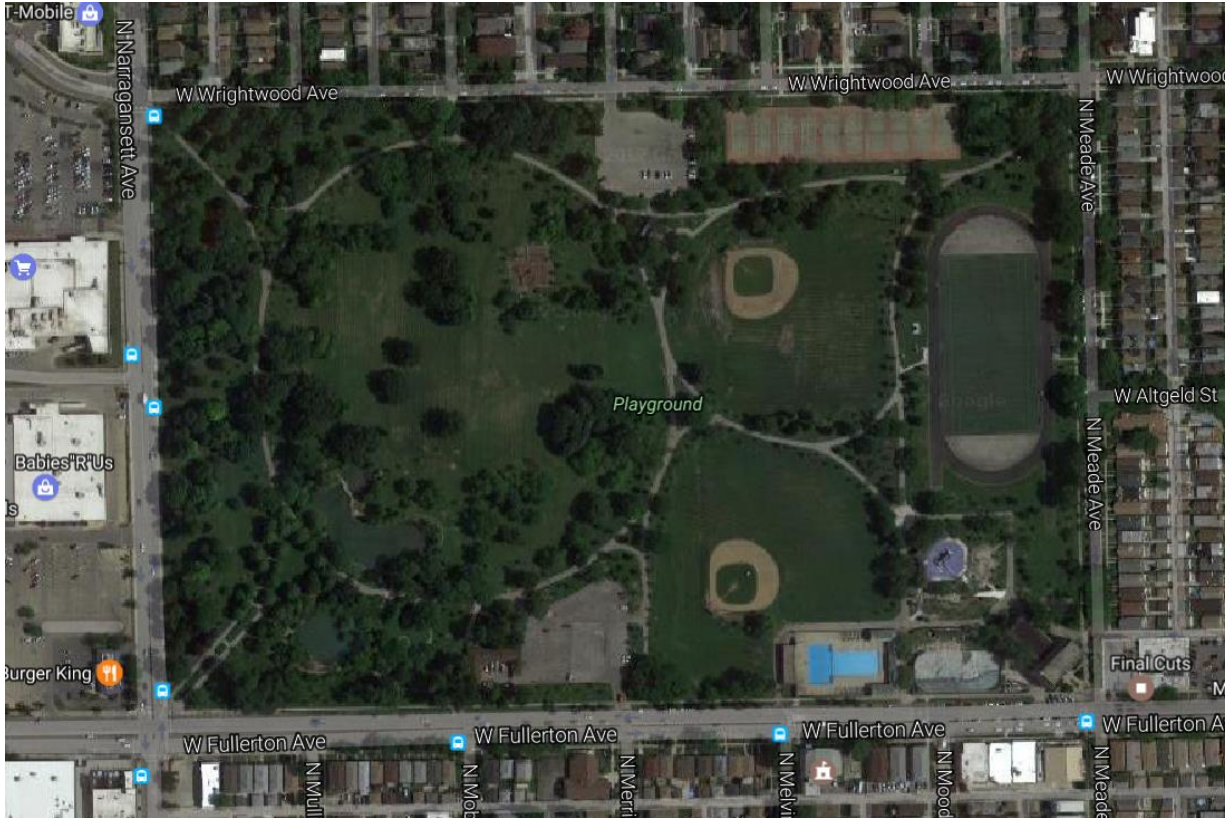
East: Red poll, Finches, Puffins, Black-capped Chickadees, They get so many rarities, Cornell, Fracking killed the birds here., World Series, Knot, Wren Titmice Chickadee, The Birder's Conundrum Home Base, Red-cockaded Woodpecker, Bad Barbecue, Bermuda Fea's Trindade.

Other: Marbled Murrelet, Put a bird on it., Spotted Owls, Hermit Warbler, Little Bunting, Hela birdy, Farallones, Pelagics!, The Salton Sea, Nutmeg Mannakin, Chiricahua, Wood -Rail, Hummingbirds, Chihuahuan Raven, Colima Warbler, Roadrunners, Golden Cheeks, Black Caps, Green Jays, Tropical Birds, Why don't we just go birding here?, Great Gray, Whitefish, Kirtland's Warbler, Red-shank, Biggest Week, Red-eyed Vireos, Tennessee's namesake bird doesn't even breed there., Migrants, I think..., Birders don't go here., Mississippi Kite, Brown-headed Nuthatches, Thrasher, Ivory Bill?, SWAMPS., Oil spill, Scrub Jay, BOOBIES Tortugas, Exotics Countable???, Where White-cheeked Pintails come from.

In what ways do these urban parks contribute to the lives of birds?

- Which bird species use which parks?
- How many individual birds use the parks?
- What resources do the birds use?
- When do they use the resources?
- How do they use the resources?

Riis Park

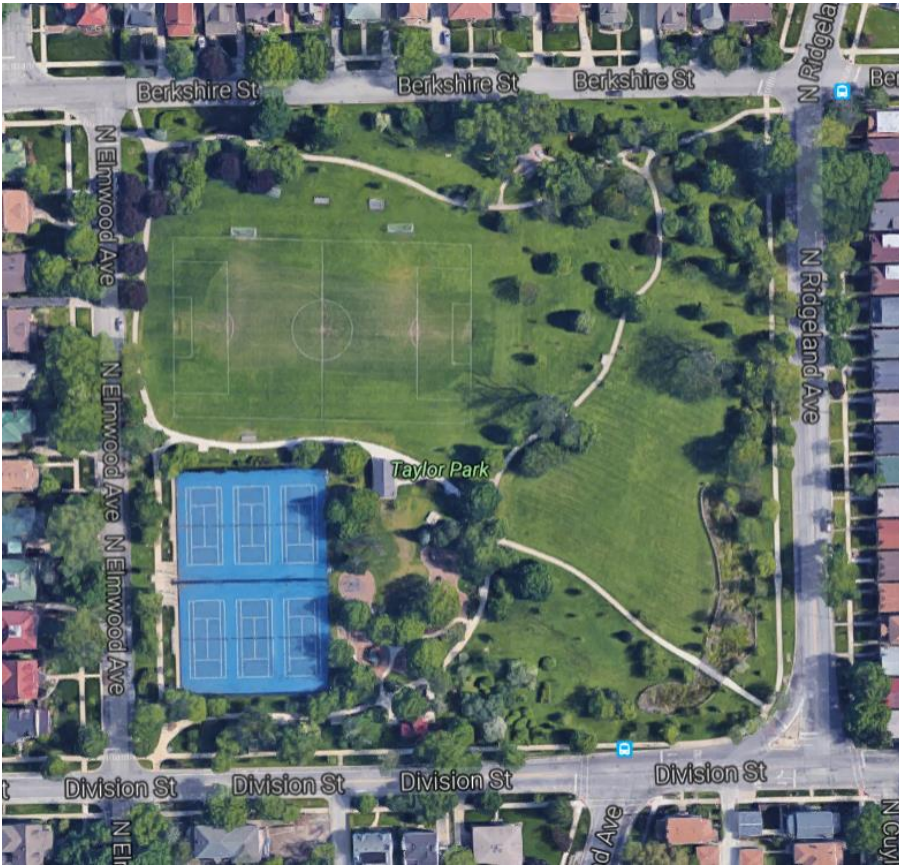


- 56 acres
- 1.25 mile transect
- weekly for 3 years
- 150 checklists



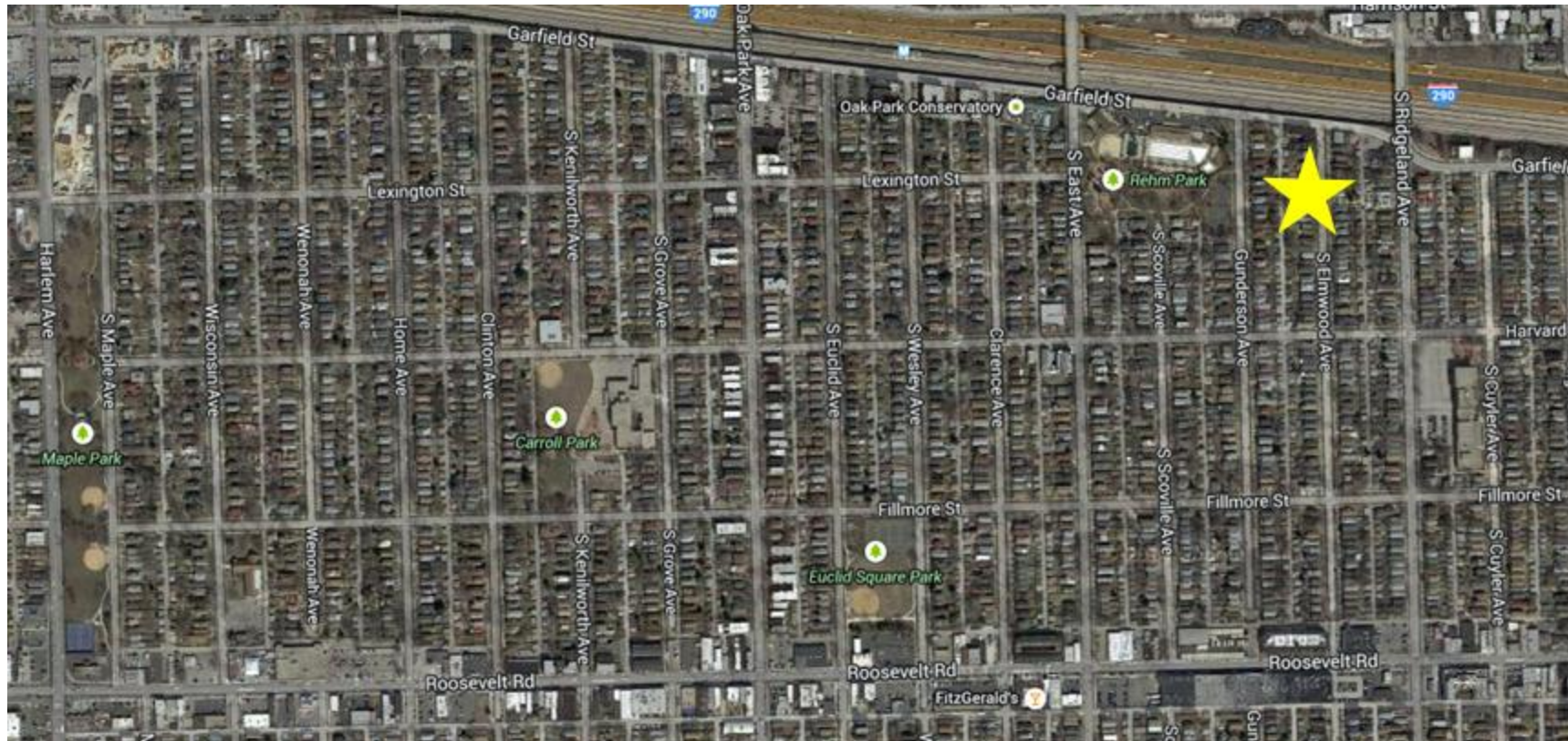
Taylor Park

- 10 acres
- 0.8 mile transect
- weekly for 3 years
- 148 checklists



south Oak Park – wrong side of two sets of tracks

- 3.2 mile transect
- weekly for 8 years +
- 797 checklists
- point counts from yard
- 9 years daily +
- 3,078 checklists



What Data Should
We Collect?

www.ebird.org

eBird



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View and Explore Data



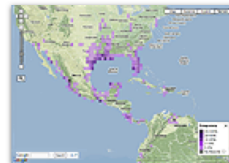
[Explore a Region](#)

Recent sightings, checklists, birding activity, best hotspots, and top birders for a county, state, province, or country.



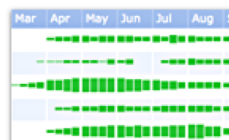
[Explore Hotspots](#)

Discover the best places for birding nearby or around the world.



[Species Maps](#)

Explore interactive range maps by species or subspecies — zoom in for details



[Bar Charts](#)

Find out what birds to expect throughout the year in a region or location

Your Totals

Track your totals and compare with other eBirders.

[Yard Totals](#)

How many species and checklists have you submitted for your yard?

[Patch Totals](#)

How many have you submitted for your favorite birding patches?

[Top 100](#)

Compare with the top eBirders in your region.

Species You Need

Tools to find species you haven't seen yet.

[Target Species](#) **NEW**

Prioritized list of county, state, or life birds that you can expect to find in a

Checklist S23344225

Location

Douglas Park, Chicago, Cook County, Illinois, US [\(Map\)](#) [\(Hotspot\)](#)

Date and Effort

Sat May 09, 2015 10:40 AM

Protocol: Traveling

Party Size: 2

Duration: 1 hour(s), 40 minute(s)

Distance: 1.5 mile(s)

Observers: Aaron Gyllenhaal [List](#) , [Eric D Gyllenhaal](#)

Comments: Submitted from BirdLog NA for iOS, version 1.8

Species

65 species (+1 other taxa) total

37 Canada Goose

2 Wood Duck

6 Mallard

1 Pied-billed Grebe

4 Green Heron

3 American Coot (Red-shielded)

Checklist S23344225

Location	Douglas Park, Chicago, Cook County, Illinois, US Map Hotspot	Edit Location
Date and Effort	Sat May 09, 2015 10:40 AM Protocol: Traveling Party Size: 2 Duration: 1 hour(s), 40 minute(s) Distance: 1.5 mile(s) Observers: Aaron Gyllenhaal List , Eric D Gyllenhaal Comments: Submitted from BirdLog NA for iOS, version 1.8	Edit Date and Effort
Species	65 species (+1 other taxa) total	Edit Species List
	37 Canada Goose	Remove Species
	2 Wood Duck	Remove Species
	6 Mallard	Remove Species
	1 Pied-billed Grebe	Remove Species
	4 Green Heron	Remove Species
	3 American Coot (Red-shielded)	Remove Species
	6 Spotted Sandpiper	Remove Species
	6 Solitary Sandpiper	Remove Species
	100 Ring-billed Gull	Remove Species
	3 Rock Pigeon (Feral Pigeon)	Remove Species
	10 Chimney Swift	Remove Species
	1 Downy Woodpecker	Remove Species
	1 Northern Flicker	Remove Species
	1 Eastern Wood-Peevee	Remove Species
	1 Alder Willow Flycatcher (Traill's Flycatcher)	Remove Species
	1 Least Flycatcher	Remove Species
	1 Eastern Phoebe	Remove Species
	1 Warbling Vireo	Remove Species
	3 American Crow	Remove Species
	1 Northern Rough-winged Swallow	Remove Species
	5 Barn Swallow	Remove Species
	2 Black-capped Chickadee	Remove Species
	3 House Wren	Remove Species
	1 Blue-gray Gnatcatcher	Remove Species
	1 Ruby-crowned Kinglet	Remove Species
	1 Veery	Remove Species
	1 Gray-cheked Thrush	Remove Species
	2 Savannah's Thrush	Remove Species
	30 American Robin	Remove Species
	15 Gray Catbird	Remove Species
	3 Brown Thrasher	Remove Species
	10 European Starling	Remove Species
	1 Oriolebird	Remove Species
	6 Northern Waxwren	Remove Species
	1 Tennessee Warbler	Remove Species
	3 Orange-crowned Warbler	Remove Species
	3 Nashville Warbler	Remove Species

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Submit another for...
[Some location and date](#)
Douglas Park, Chicago, Cook County, Illinois, US on Sat May 09, 2015
[Some location](#)
Douglas Park, Chicago, Cook County, Illinois, US
[Some date and date](#)
Sat May 09, 2015
[Some date](#)
Sat May 09, 2015
[Different location and date](#)

☐ Hide from All Bird Outpost

[Change Portal](#)

Canada Goose

Hide Details

Details:

Add text, photos, audio, or video describing the bird, its habitat, and behavior...

X

Media:

Upload up to 10 files (JPG, PNG, GIF, MP3, WAV, or M4A). Max size: 10mb for images, 250mb for audio.

X

Drop Files Here...

or

Select

Age & Sex:

	Juvenile	Immature	Adult	Age Unknown
Male				
Female				
Sex Unknown				

X

Breeding:

Choose the highest possible code... ▾

Help...

X

Add data...

Age & Sex

Breeding Code

Oiled Birds

Media

Details

Canada Goose

[Hide Details](#)

Details:

Add text, photos, audio, or video describing the bird, its habitat, and behavior...

X

Media:

Upload up to 10 files (JPG, PNG, GIF, MP3, WAV, or M4A). Max size: 10mb for images, 250mb for audio.

X

Choose the highest possible code...

NY Confirmed--Nest with Young
NE Confirmed--Nest with Eggs
FS Confirmed--Carrying Fecal Sac
FY Confirmed--Feeding Young
CF Confirmed--Carrying Food
FL Confirmed--Recently Fledged Young
ON Confirmed--Occupied Nest
UN Confirmed--Used Nest (enter 0 if no birds seen)
DD Confirmed--Distraction Display
NB Confirmed--Nest Building
CN Confirmed--Carrying Nesting Material
PE Confirmed--Physiological Evidence
B Probable--Woodpecker/Wren Nest Building
A Probable--Agitated Behavior
N Probable--Visiting Probable Nest site
C Probable--Courtship, Display or Copulation
T Probable--Territorial Defense
P Probable--Pair in Suitable Habitat
M Probable--Multiple (7+) Singing Males

Age & Sex:

B Probable--Woodpecker/Wren Nest Building
A Probable--Agitated Behavior
N Probable--Visiting Probable Nest site
C Probable--Courtship, Display or Copulation
T Probable--Territorial Defense
P Probable--Pair in Suitable Habitat
M Probable--Multiple (7+) Singing Males

Age Unknown

X

Breeding:

Choose the highest possible code...

Help...

X

Add data...

Age & Sex

Breeding Code

Oiled Birds

Media

Details

Additional data:

- Breeding codes
- Number of singers, breeding details
- Specific locations of species, behaviors
- Sex and age data (but not always).

Goose marker data:

- Neck or tarsus, codes
- Specific location, associations
- Photos



* Observation Date:

Jan 29 2017 

* = Required

* Observation Type:

- ☒ **Transect** You traveled a specific distance — walking a trail, driving a refuge loop, field birding. [▶ More Info...](#)
- ☐ **Point Count** You stayed at a fixed location — watching from a window, hawkwatching, seawatching. [▶ More Info...](#)
- ☐ **Historical** Birding was your **primary purpose**, but you cannot estimate start time, duration, and distance; use Traveling or Stationary if you can estimate these. [▶ More Info...](#)
- ☐ **Incidental** Birding was not your **primary purpose** — noting a bird while driving or gardening. [▶ More Info...](#)
- ☐ **Other**

* Start Time (AM/PM):

: -- Use 24-hour Clock

* Duration:

hrs. min.

* Distance:

* Party Size:

Enter the total number of people in your birding party

Comments:

Even more data:

- Weather and ground/water conditions
- Route through park/site
- Flocks: Single species, mixed species
- “Missing” species
- Available resources (fruit, seeds, water)

LocationDouglas Park, Chicago, Cook County, Illinois, USMapHotspotEdit Location

Date and EffortSat Jun 18, 2016 6:38 AMEdit Date and Effort

Protocol:Transect

Party Size:1

Duration:3 hour(s), 40 minute(s)

Distance:2.6 mile(s)


Observers:Eric D Gyllenhaal

Comments:Mostly sunny with high clouds towards the end, lower 60s to upper 80s. I walked around north and east lagoons first, then through the sanctuary, and finished south of Ogden (with a last look at the island at the end). The lawns and fields were all dry, with some of the grass on the soccer fields looking pretty brown. The sanctuary had 30 bird species, south of Ogden 15 species, and the rest of the park 33 species.

Species42 species (+1 other taxa) totalHide MediaEdit Species List

93 Canada GooseRemove Species

Flock of 89 on and beside east lagoon (which has the least emergent vegetation). Neck collars 00H and 56B in this group. Pair with 2 young by the Lily Pond.




7 Pied-billed GrebeRemove Species

Parent and 6 young on sanctuary lagoon.

Age & Sex	Juvenile	Immature	Adult	Age Unknown
Male				
Female				
Sex Unknown	6		1	

Breeding CodeFL Confirmed--Recently Fledged Young




ML30331391Macaulay Library

© Eric D Gyllenhaal

16 Barn SwallowRemove Species

One landed on nest and stayed as I took a photo.

Breeding CodeCF Confirmed--Carrying Food



ML30331431Macaulay Library

© Eric D Gyllenhaal
Those look like bugs in the parents beak.

2 Black-capped ChickadeeRemove Species

One sang.

Breeding CodeS Possible--Singing male

1 Blue-gray GnatcatcherRemove Species

One for sure along Ogden, a couple more possibles (but could not confirm).

20 American RobinRemove Species

Included 10 singers and a couple of independent juveniles.

Breeding CodeM Probable--Multiple (7+) Singing Males

11 Gray CatbirdRemove Species

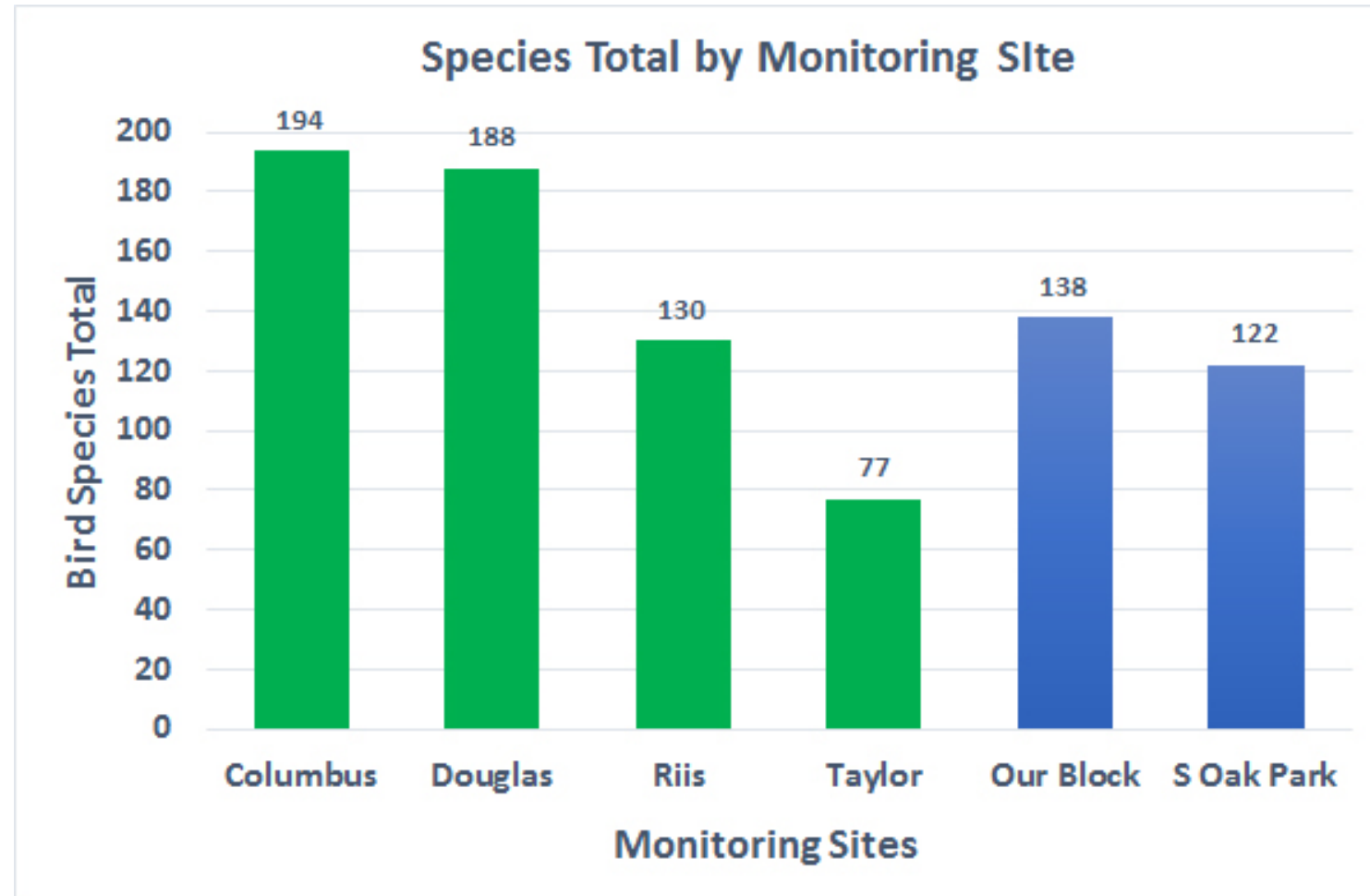
Six were singing, the others calling. One group of 3 may have been a family.

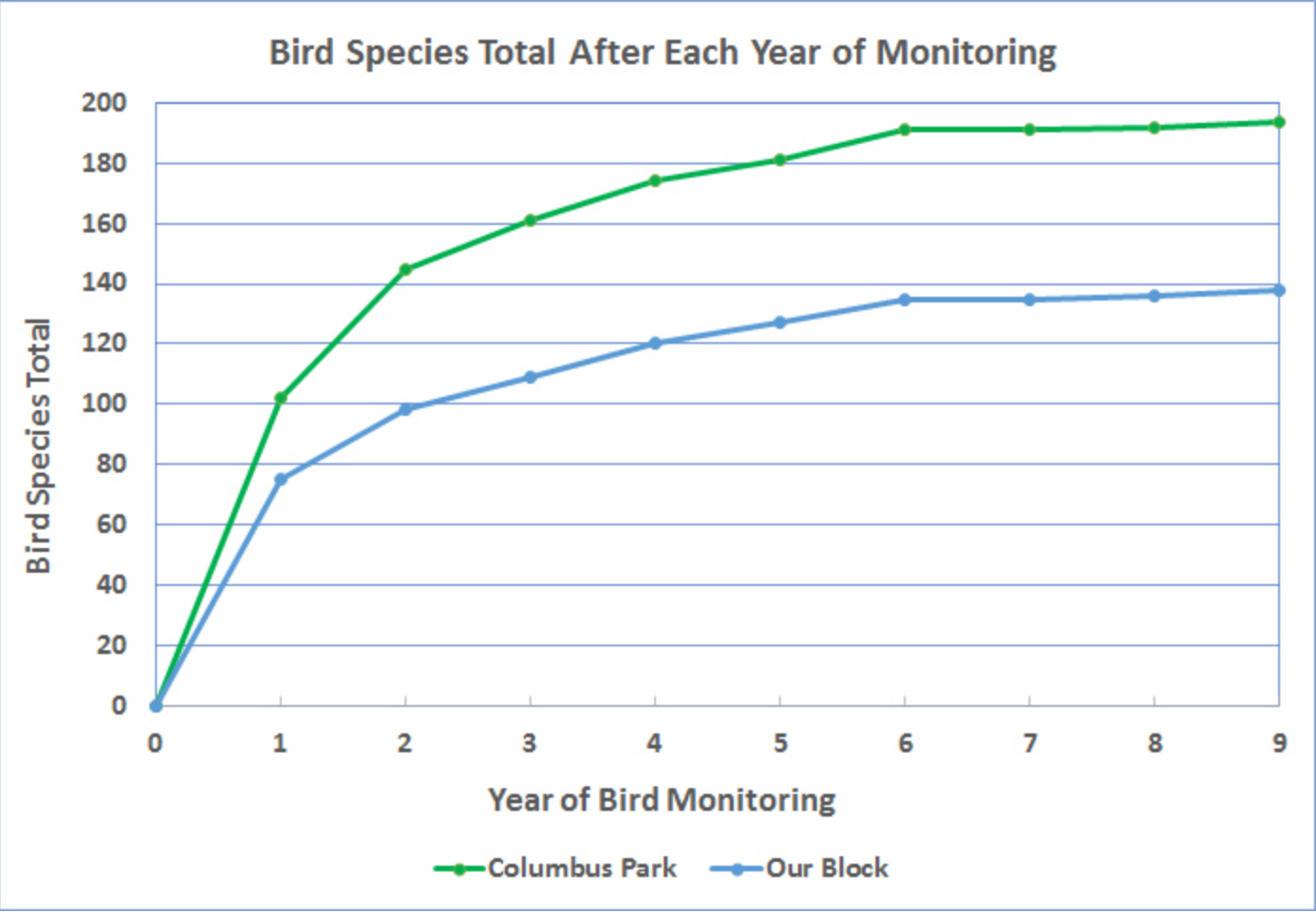
Breeding CodeS7 Probable--Singing male Present 7+ days

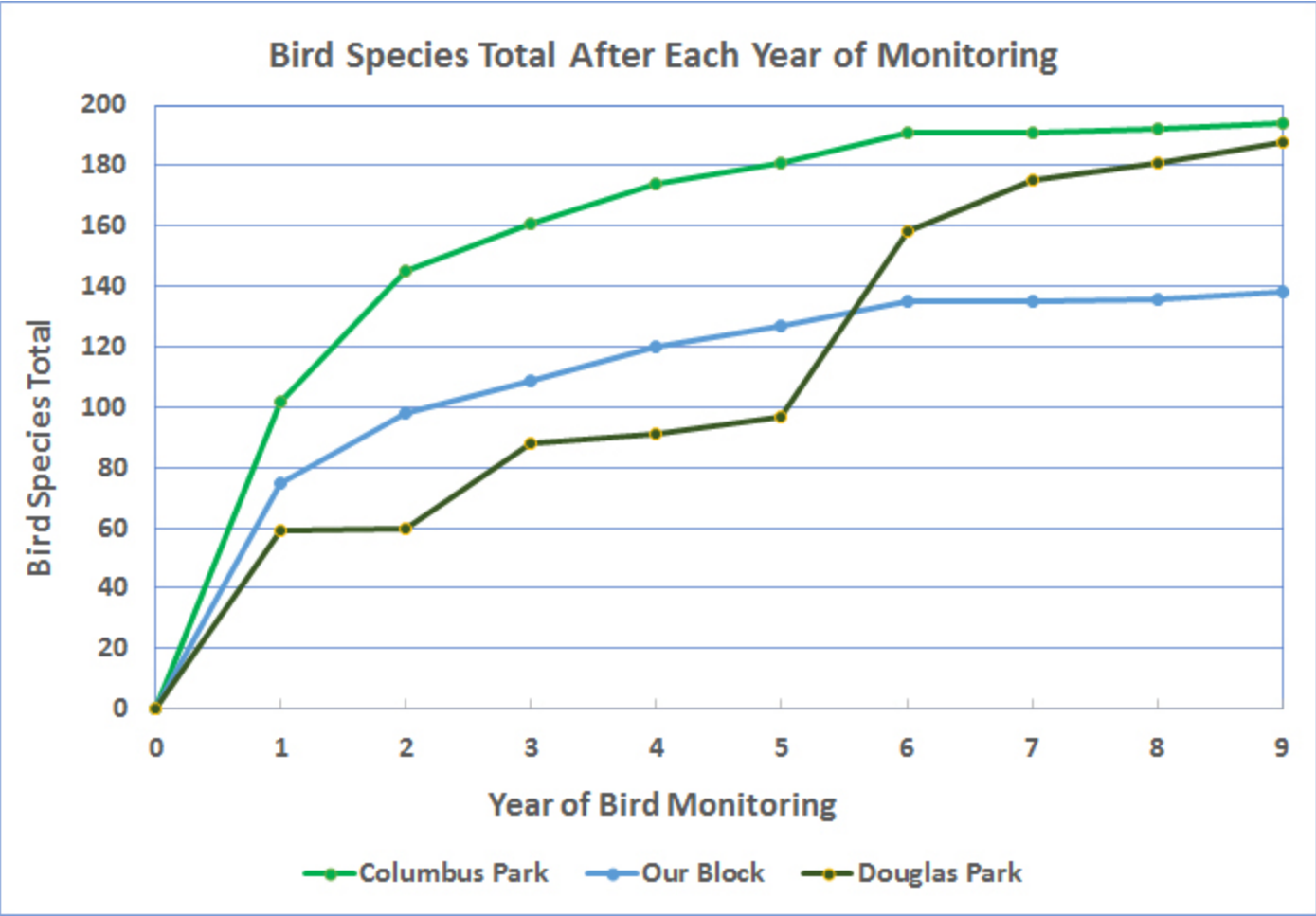
Tell the story of the visit, but in taxonomic order

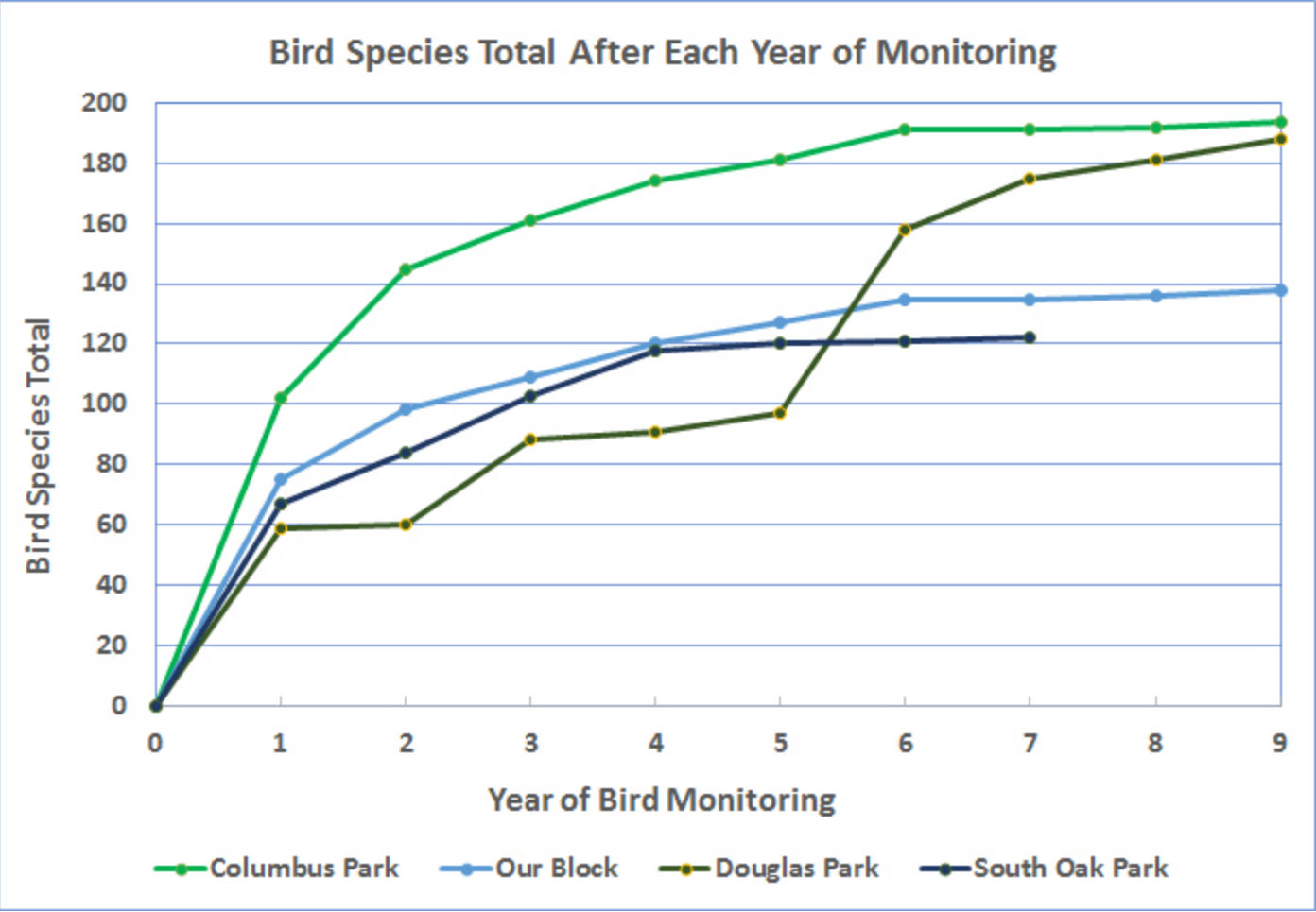
How Can We Analyze
the Data?

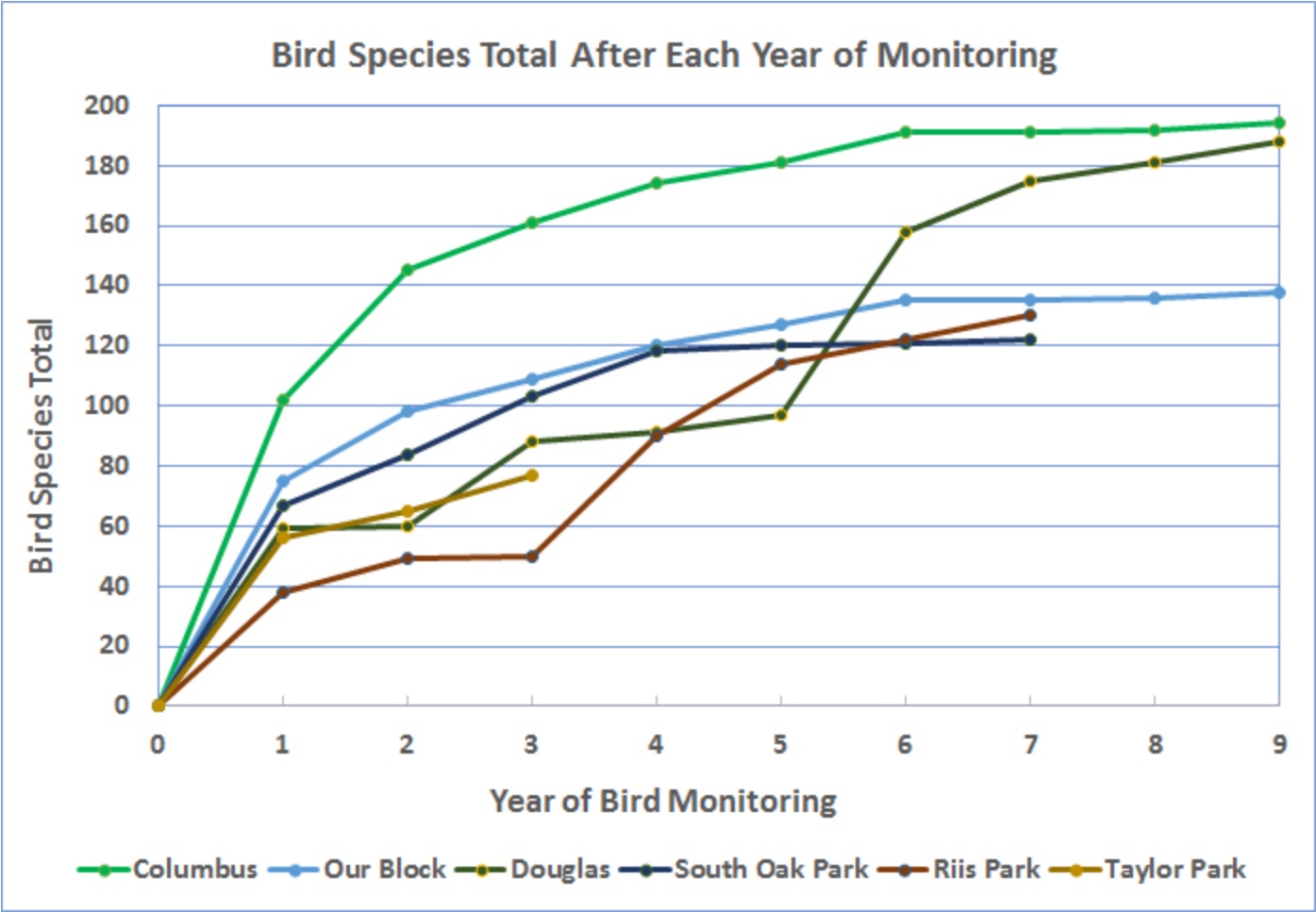
**Total Bird Species Seen
at Each Monitoring Locality**







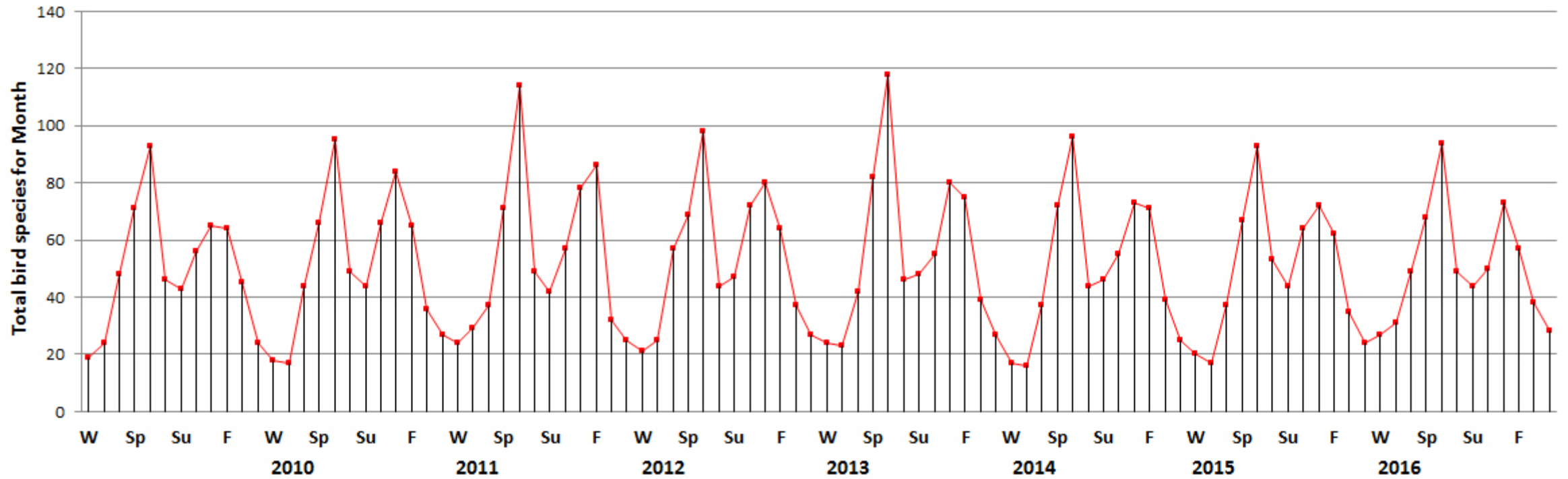




Total Bird Species Each Month

Bird Species at Columbus Park

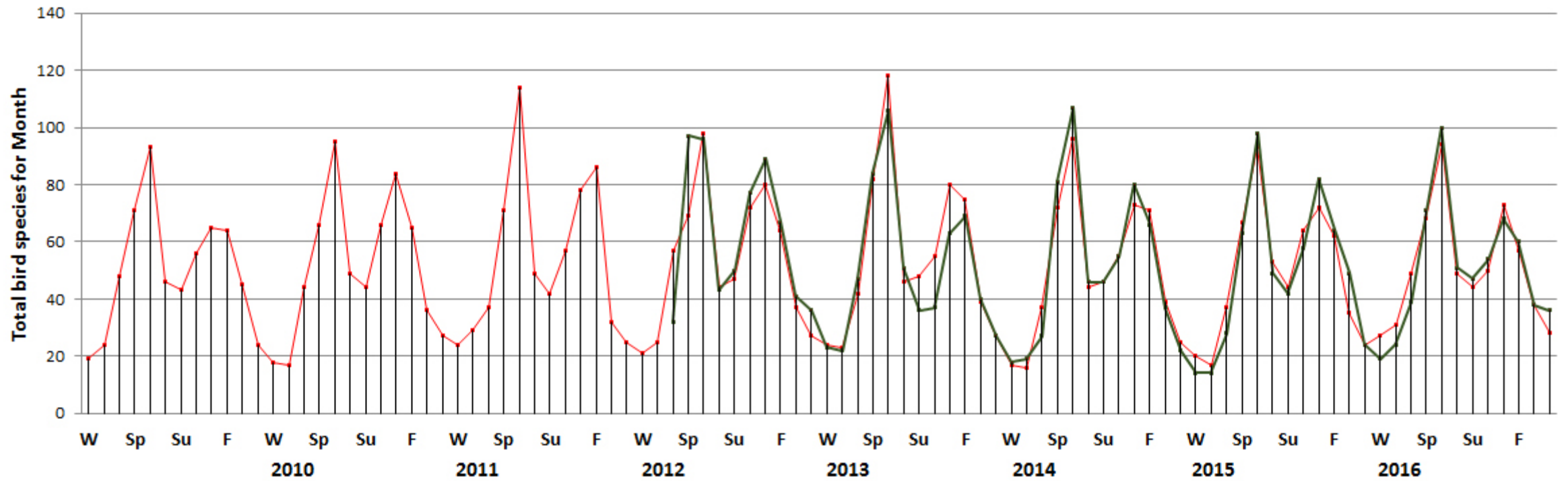
(Total bird species for each month, 2009-2016)



KEY: W - Jan Sp - Apr Su - Jul F - Oct

Bird Species at Columbus Park and Douglas Park

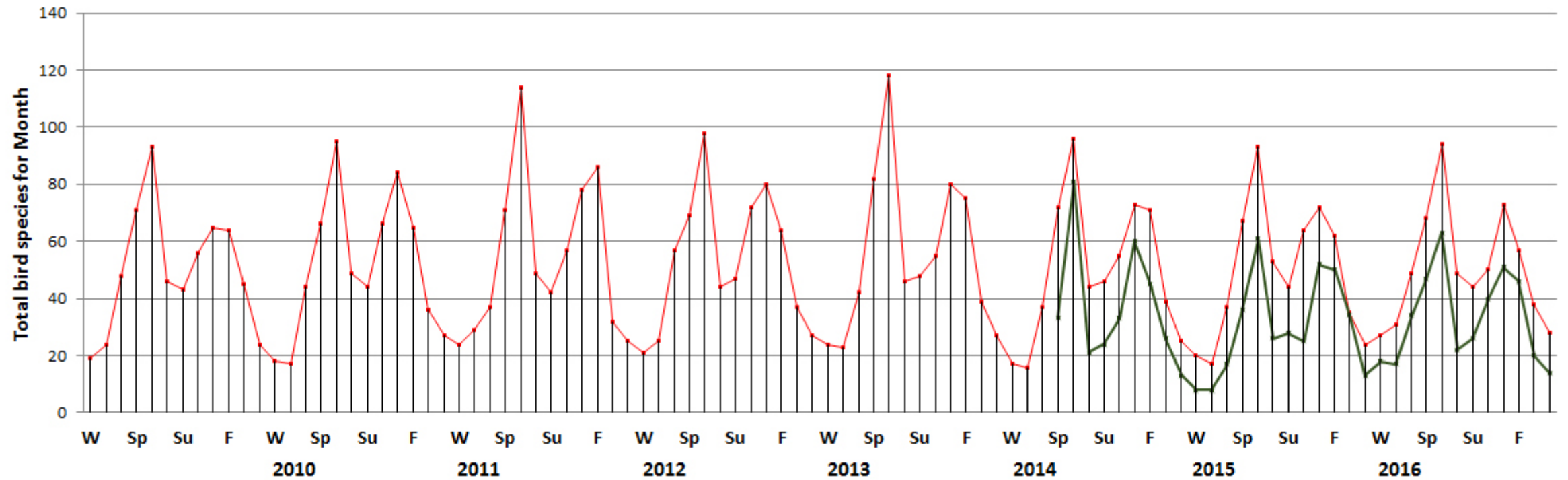
(Total bird species for each month, 2009-2016)



KEY: W - Jan Sp - Apr Su - Jul F - Oct

Bird Species at Columbus Park and Riis Park

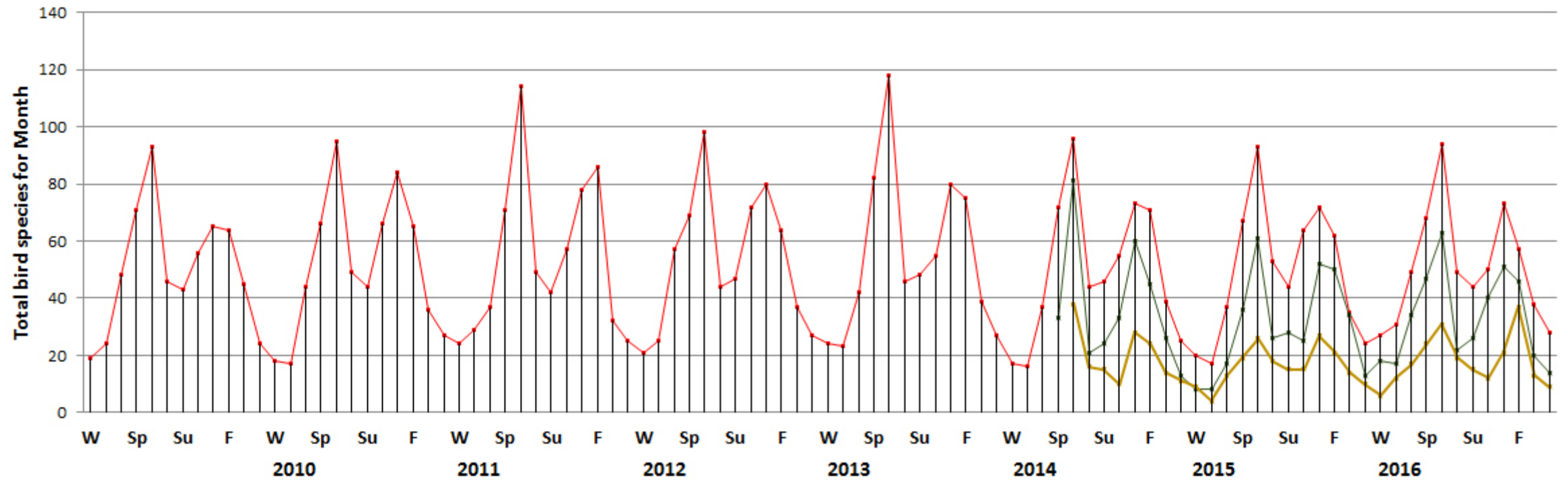
(Total bird species for each month, 2009-2016)



KEY: W - Jan Sp - Apr Su - Jul F - Oct

Bird Species at Columbus Park, Riis Park, and Taylor Park

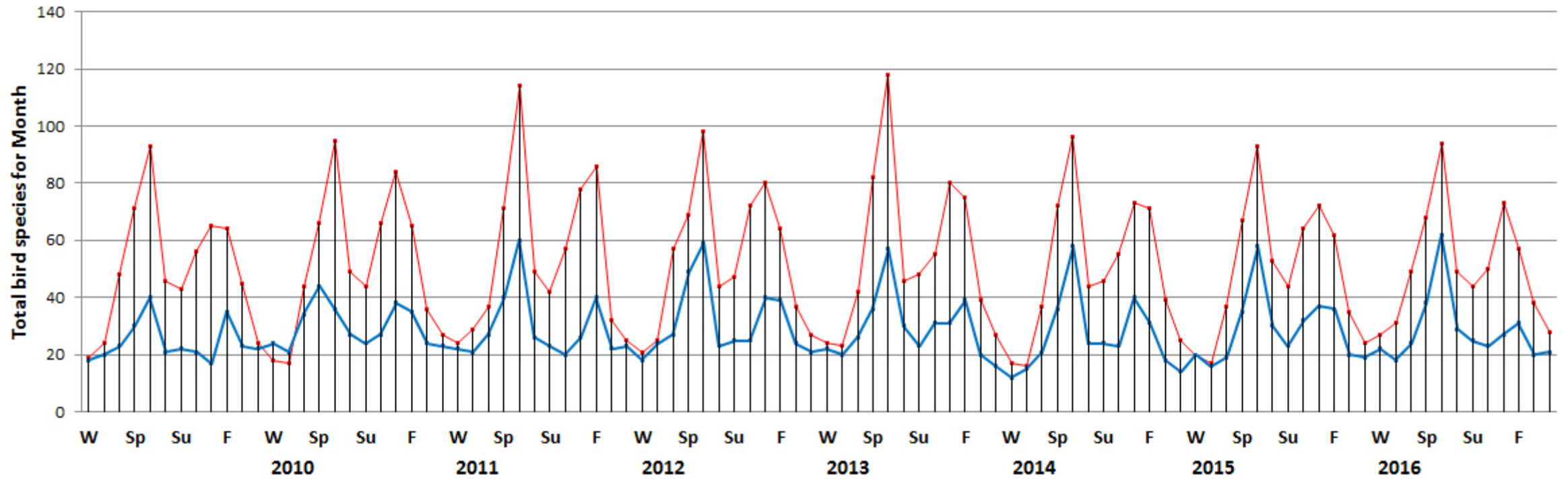
(Total bird species for each month, 2009-2016)



KEY: W - Jan Sp - Apr Su - Jul F - Oct

Bird Species at Columbus Park and South Oak Park

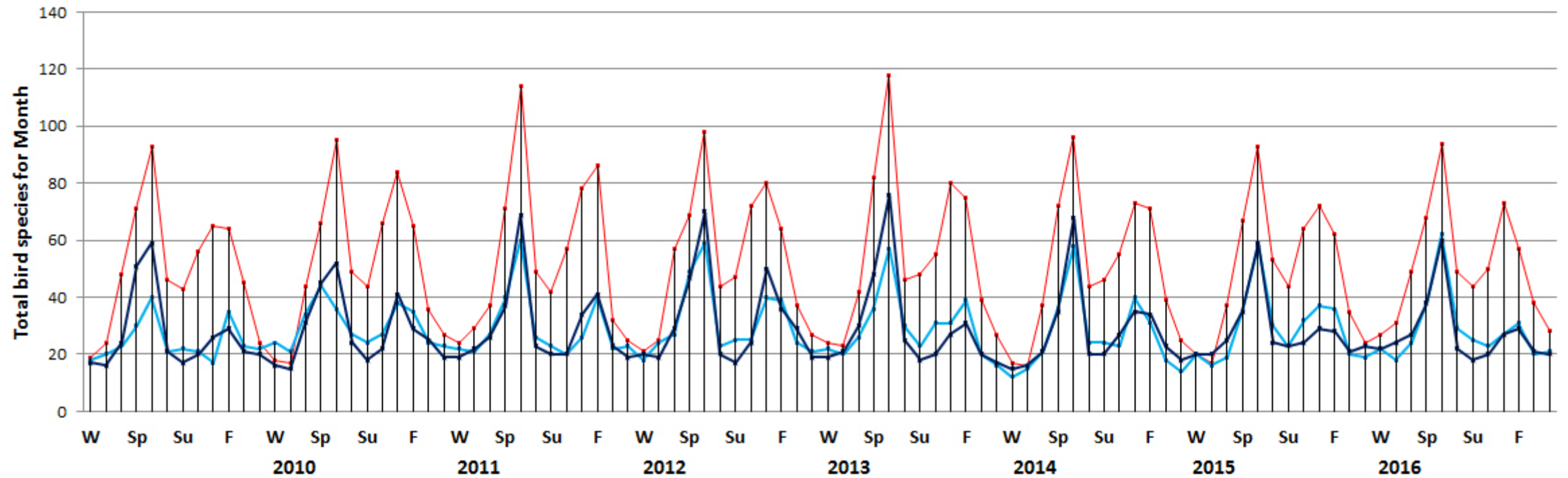
(Total bird species for each month, 2009-2016)



KEY: W - Jan Sp - Apr Su - Jul F - Oct

Bird Species at **Columbus Park**, **South Oak Park**, and **Our Block**

(Total bird species for each month, 2009-2016)

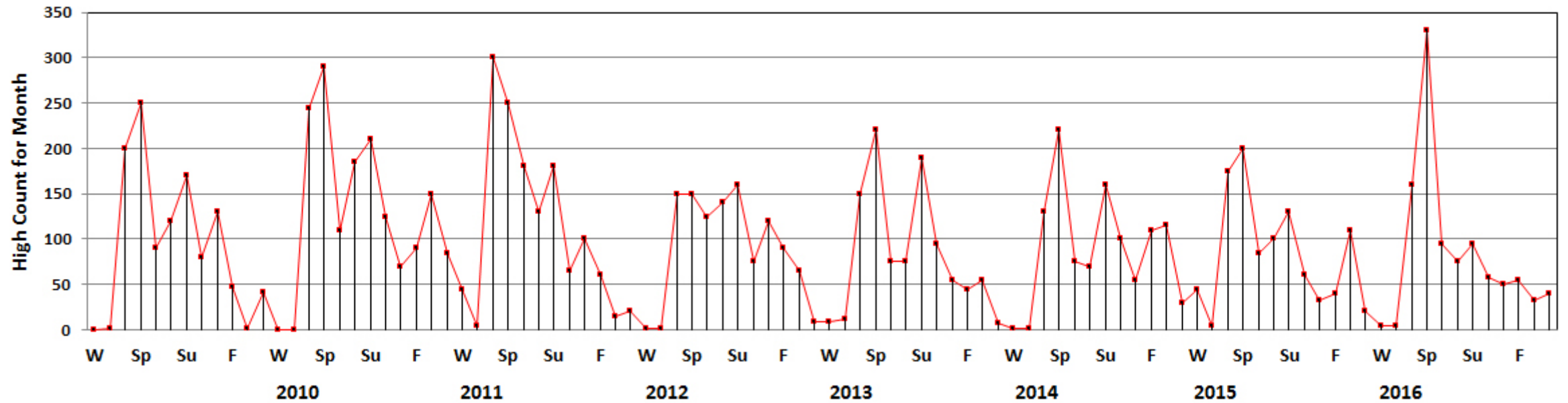


KEY: W - Jan Sp - Apr Su - Jul F - Oct

High Counts by Month for Individual Species

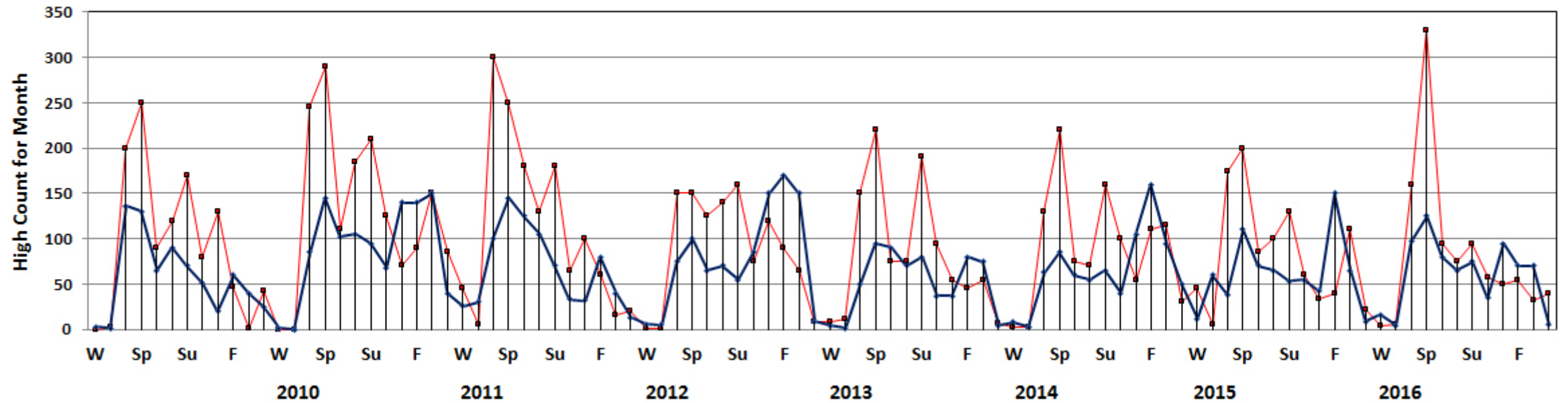
American Robin at Columbus Park

(High Counts for each month, 2009-2016)



KEY: W - Jan Sp - Apr Su - Jul F - Oct

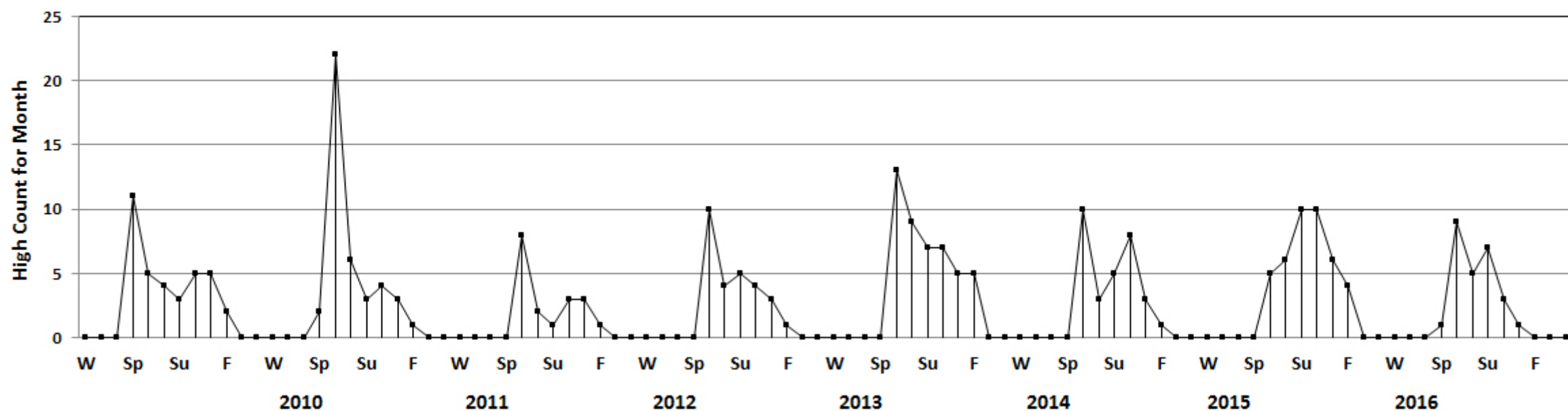
American Robin at Columbus Park and South Oak Park
 (High Counts for each month, 2009-2016)



KEY: W - Jan Sp - Apr Su - Jul F - Oct

Gray Catbird at Columbus Park

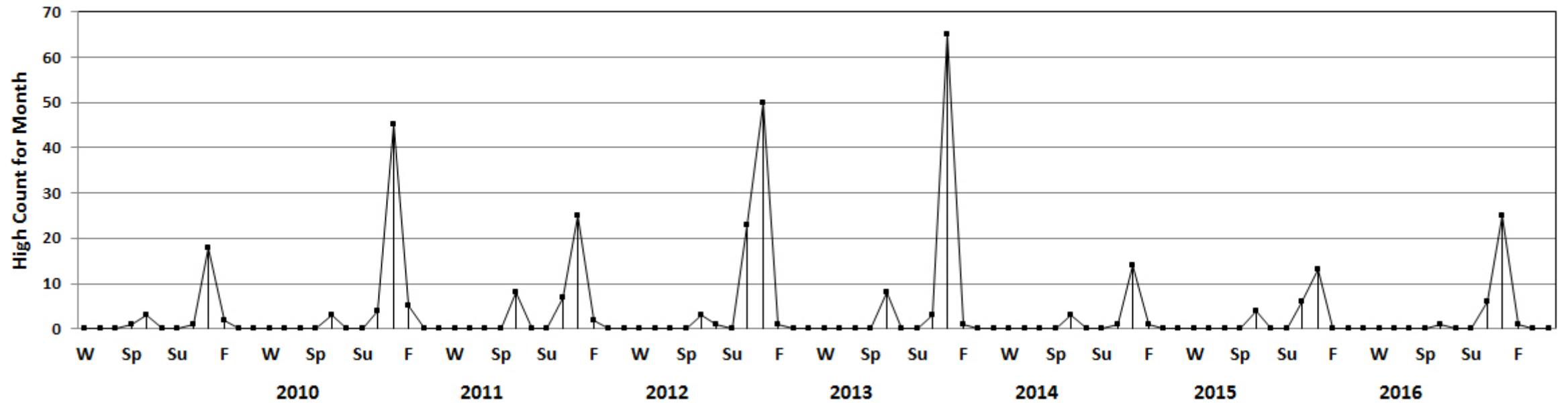
(High Counts for each month, 2009-2016)



KEY: W - Jan Sp - Apr Su - Jul F - Oct

Swainson's Thrush at Columbus Park

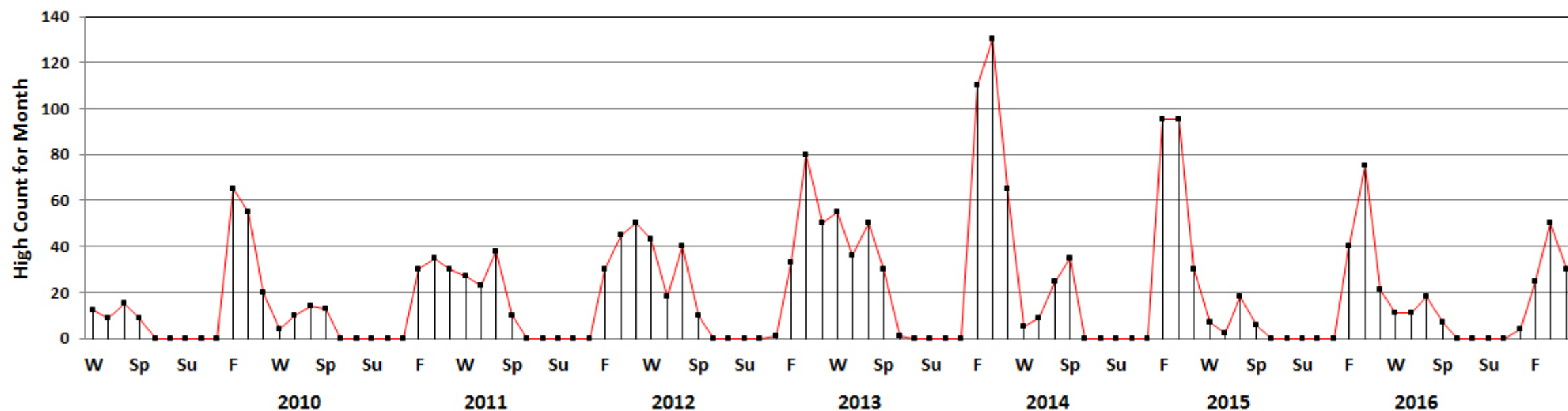
(High Counts for each month, 2009-2016)



KEY: W - Jan Sp - Apr Su - Jul F - Oct

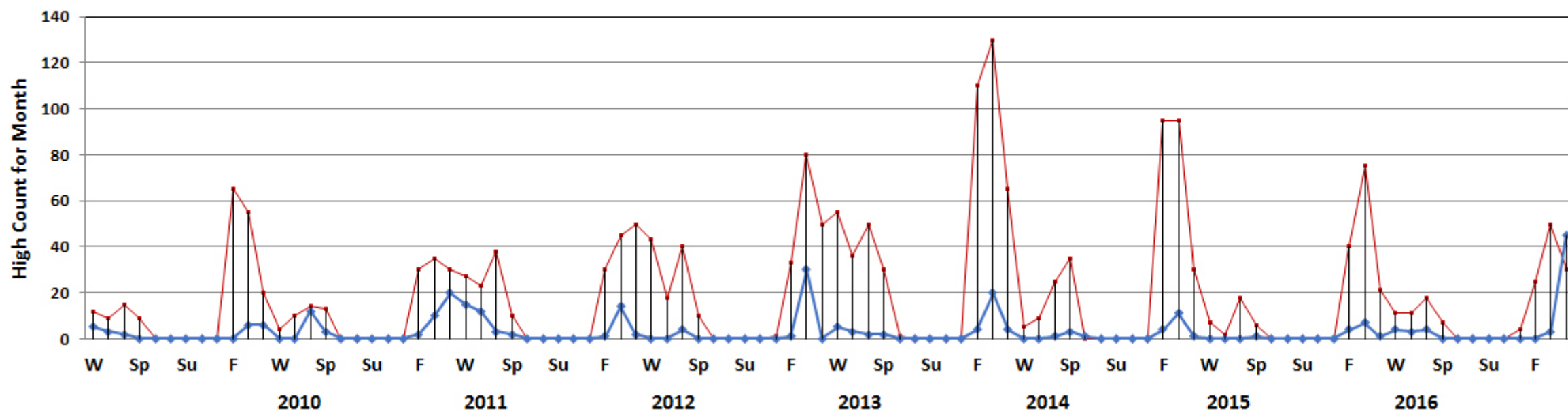
Dark-eyed Junco at Columbus Park

(High Counts for each month, 2009-2016)



KEY: W - Jan Sp - Apr Su - Jul F - Oct

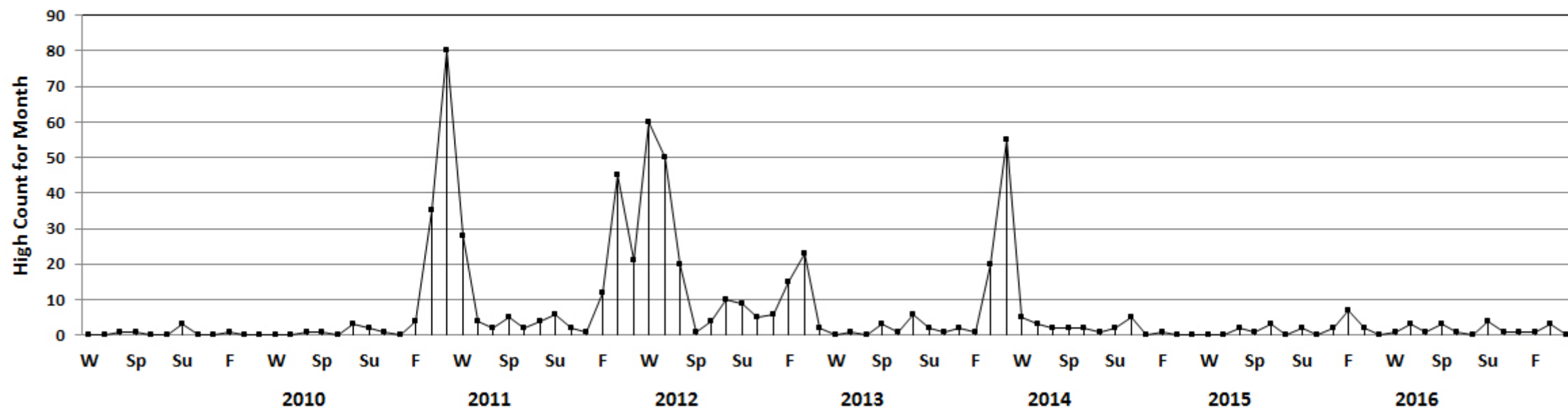
Dark-eyed Junco and American Tree Sparrow at Columbus Park (High Counts for each month, 2009-2016)



KEY: W - Jan Sp - Apr Su - Jul F - Oct

House Finch at Columbus Park

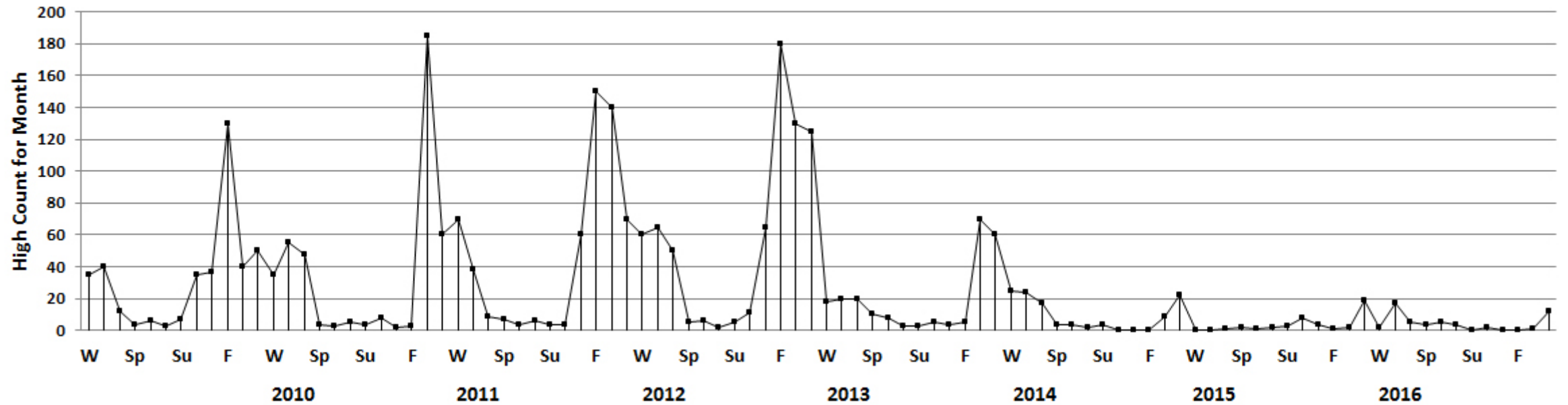
(High Counts for each month, 2009-2016)



KEY: W - Jan Sp - Apr Su - Jul F - Oct

Mourning Dove at Columbus Park

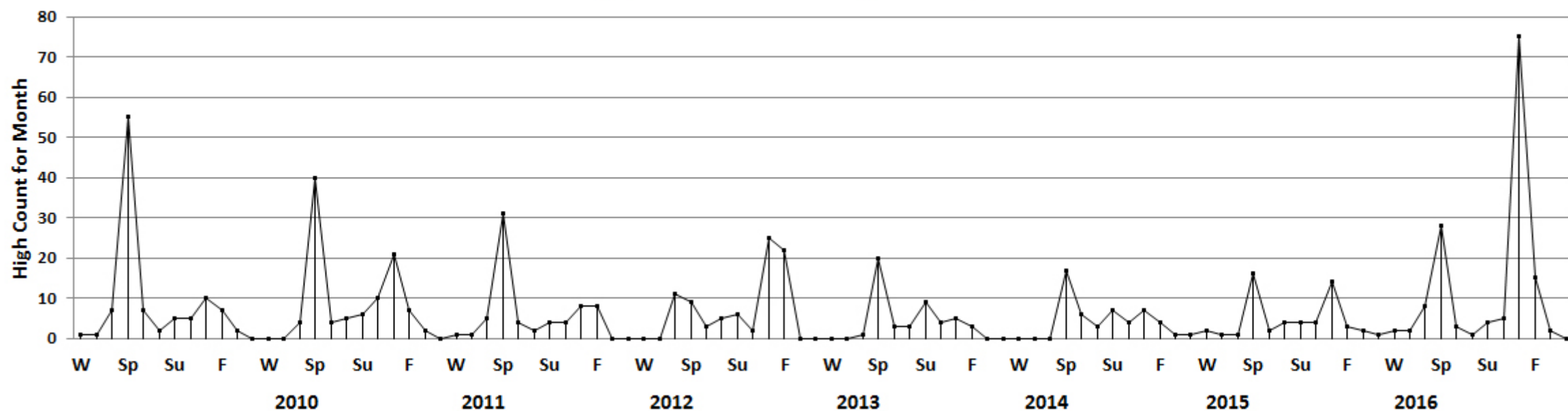
(High Counts for each month, 2009-2016)



KEY: W - Jan Sp - Apr Su - Jul F - Oct

Northern Flicker at Columbus Park

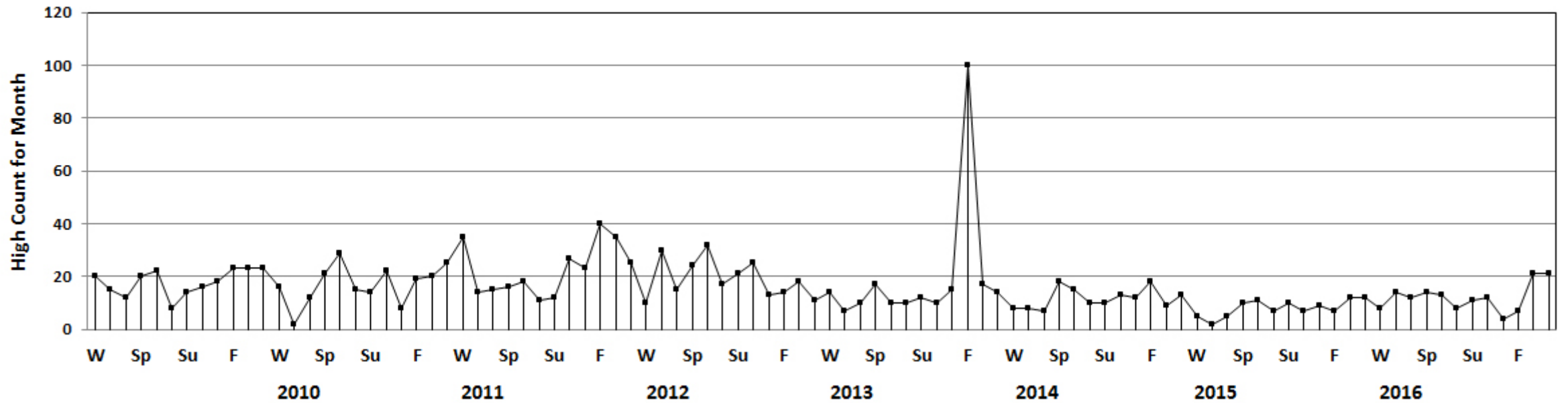
(High Counts for each month, 2009-2016)



KEY: W - Jan Sp - Apr Su - Jul F - Oct

American Goldfinch at Columbus Park

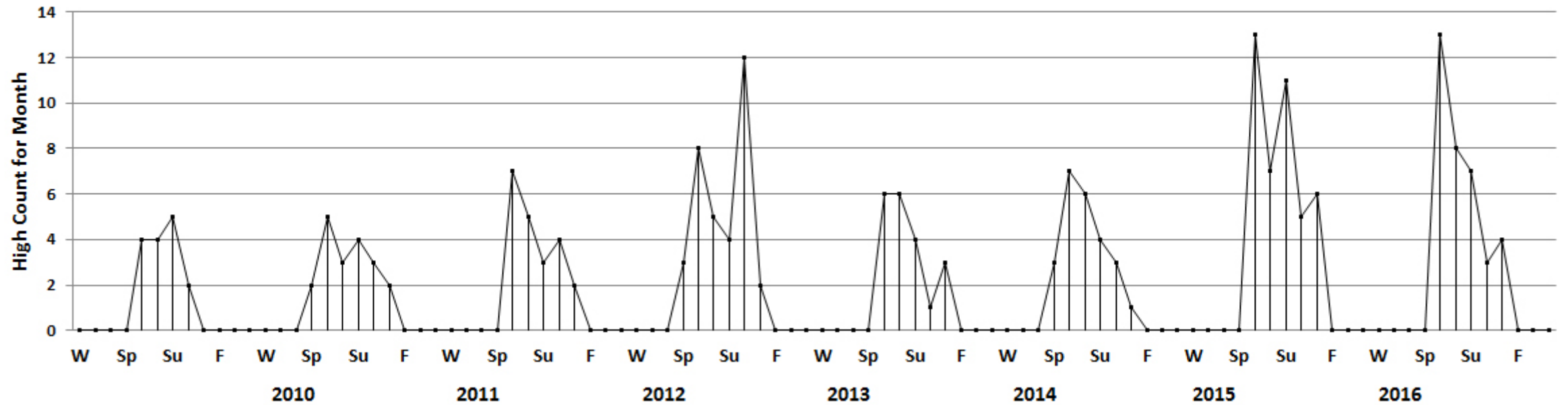
(High Counts for each month, 2009-2016)



KEY: W - Jan Sp - Apr Su - Jul F - Oct

Warbling Vireo at Columbus Park

(High Counts for each month, 2009-2016)



KEY: W - Jan Sp - Apr Su - Jul F - Oct

200+ bird species

6 sites

That's a lot of graphs

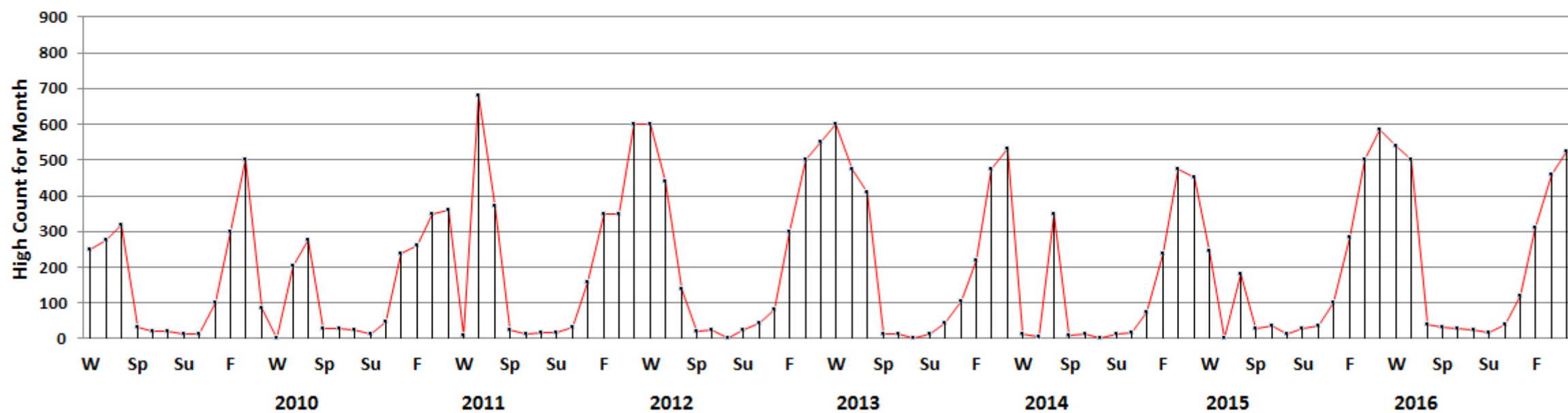
<https://urbanbirdmonitor.org/data-analysis/abundance/>

Goose Marker Data

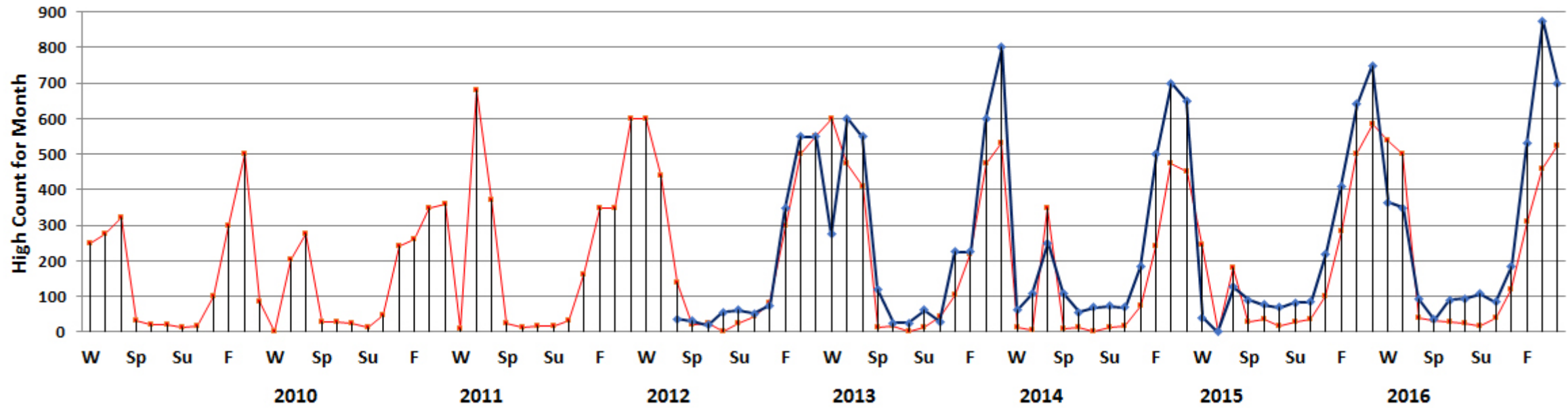


Canada Goose at Columbus Park

(High Counts for each month, 2009-2016)



Canada Goose at **Columbus Park** and **Douglas Park**
(High Counts for each month, 2009-2016)



	Marked goose sightings in Douglas Park, west side of Chicago, Illinois																											
Month:	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan		
Year:	14	15	15	15	15	15	15	15	15	15	15	15	15	16	16	16	16	16	16	16	16	16	16	16	16	17		
# Visits:	4	3	2	3	5	4	4	3	4	6	3	5	5	5	5	5	7	5	4	6	4	6	4	5	7	4		
High Count for Geese:	650	40	0	127	90	77	70	83	85	220	410	640	750	365	450	94	34	90	93	108	85	185	530	875	700	550		
Leg Markers:	Number of times marker was seen at Douglas Park that month:																											
A451													1													2		
A500												2																
A531												3			2								1	1	1			
A657	2			1																								
A688											1				1										1			
A749	1										1	1		1	1								1	1		3		
A854											1																	
A861	2										3				1													
A871																								1				
A873	1										1												1			2		
A888												2	1										1	2	1	1		
C102												1																
C105	2																											
C120	2									1													1	1	1	3		
C121																									1	2		
C126												2			1										1	2		
C131																									1	1		
C138												1																
C151										1	1	1											1	1				
C154	1			1																								
C165				1							2				2													
C226											2	1			1													
C249																									1			
C284																												
C285												2	1															
C291															2	1												
C301																										1		
C346																								1	1	4		
C351																						1	1	1		3		
C377																							1					
C392																										1		

[illegible]

Breeding Birds

Choose the highest possible code...

NY Confirmed--Nest with Young

NE Confirmed--Nest with Eggs

ON Confirmed--Occupied Nest

FL Confirmed--Recently Fledged Young

FY Confirmed--Feeding Young

FS Confirmed--Carrying Fecal Sac

CF Confirmed--Carrying Food

DD Confirmed--Distraction Display

PE Confirmed--Brood Patch and Physiological Evidence

NB Confirmed--Nest Building

CN Confirmed--Carrying Nesting Material

T Probable--Territory Held for 7+ Days

C Probable--Courtship, Display or Copulation

N Probable--Visiting Probable Nest site

A Probable--Agitated Behavior

P Probable--Pair in Suitable Habitat

M Probable--Multiple (7+) Singing Males

S Possible--Singing male

H Possible--In appropriate habitat

F Flyover

Breeding Birds at		Dark blue = CONFIRMED breeder for that year			
Columbus Park		Medium blue = PROBABLE breeder for that year			
		Light blue = POSSIBLE breeder for that year			
	2011	2012	2013	2014	2015
# Confirmed Breeders	17	20	19	19	20
# Probable Breeders	8	6	7	8	6
# Possible Breeders	3	5	8	7	7
Highest breeding code for year:	2011	2012	2013	2014	2015
Canada Goose					Goslings
Wood Duck		Ducklings	Ducklings	Ducklings	Ducklings
Mallard	Ducklings	Ducklings	Ducklings	Ducklings	Ducklings
Green Heron		Recently Fledged		Agitated Behavior	
Mourning Dove	Occupied Nest	Recently Fledged	Pair in Habitat	Recently Fledged	Singing Male
Red-bellied Woodpecker					<i>In Appropriate Habitat</i>
Downy Woodpecker	In Appropriate Habitat	Recently Fledged	Recently Fledged	Recently Fledged	Recently Fledged
Hairy Woodpecker	In Appropriate Habitat	<i>In Appropriate Habitat</i>	<i>In Appropriate Habitat</i>	<i>In Appropriate Habitat</i>	<i>In Appropriate Habitat</i>
Northern Flicker	In Appropriate Habitat	Recently Fledged	In Appropriate Habitat	Courtship	Probable Nest Site
Eastern Wood-Pewee	<i>Singing Male</i>	<i>Singing Male</i>	<i>Singing Male</i>	<i>Singing Male</i>	<i>Singing Male 7+ Days</i>
Eastern Phoebe		<i>Singing Male</i>			<i>Singing Male</i>
Great Crested Flycatcher	<i>Singing Male</i>	<i>Singing Male</i>		<i>Singing Male</i>	Feeding Young
Eastern Kingbird	Recently Fledged	Recently Fledged	Recently Fledged	Aggitated Behavior	Recently Fledged
Warbling Vireo	Singing Male 7+ Days	Recently Fledged	Singing Male 7+ Days	Singing Male 7+ Days	Recently Fledged
Red-eyed Vireo	Recently Fledged	Singing Male 7+ Days	Singing Male 7+ Days	Singing Male 7+ Days	<i>Singing Male 7+ Days</i>

Highest breeding code for year:	2011	2012	2013	2014	2015
Blue Jay		<i>In Appropriate Habitat</i>	Recently Fledged	Carrying Food	Nest with Young
American Crow	<i>In Appropriate Habitat</i>		Nest Building	Carrying Food	
Northern Rough-winged Swallow	<i>In Appropriate Habitat</i>	<i>In Appropriate Habitat</i>	Probable Nest Site	Recently Fledged	Feeding Young
Black-capped Chickadee	Recently Fledged	Recently Fledged	Singing Male	Singing Male 7+ Days	Singing Male
House Wren	Recently Fledged	Recently Fledged	Recently Fledged	Recently Fledged	<i>Singing Male 7+ Days</i>
Blue-gray Gnatcatcher	Agitated Behavior	Appropriate Habitat	Carry Nest Material	Appropriate Habitat	Appropriate Habitat
American Robin	Recently Fledged	Occupied Nest	Occupied Nest	Occupied Nest	Feeding Young
Gray Catbird	Singing Male 7+ Days	Courtship	Recently Fledged	Recently Fledged	Recently Fledged
European Starling	Recently Fledged	Recently Fledged	Recently Fledged	Recently Fledged	Recently Fledged
Cedar Waxwing	Appropriate Habitat	Appropriate Habitat	Recently Fledged	Appropriate Habitat	Feeding Young
Common Yellowthroat	Singing Male 7+ Days	<i>Singing Male 7+ Days</i>	<i>Singing Male</i>	<i>Singing Male</i>	<i>Singing Male</i>
Yellow Warbler	<i>Singing Male (June)</i>		<i>Singing Male (June)</i>		Singing Male 7+ Days
Chipping Sparrow	<i>Singing Male 7+ Days</i>				<i>Singing Male 7+ Days</i>
Song Sparrow	Recently Fledged	Singing Male 7+ Days	Recently Fledged	Recently Fledged	Recently Fledged
Northern Cardinal	Recently Fledged	Recently Fledged	Recently Fledged	Recently Fledged	Recently Fledged
Indigo Bunting	Singing Male 7+ Days	Singing Male 7+ Days	<i>Singing Male 7+ Days</i>		<i>Singing Male</i>
Red-winged Blackbird	Recently Fledged	Recently Fledged	Recently Fledged	Recently Fledged	Recently Fledged
Common Grackle	Recently Fledged	Recently Fledged	Recently Fledged	Occupied Nest	Recently Fledged
Brown-headed Cowbird	Recently Fledged	Recently Fledged	Courtship	Confirmed	<i>Singing Male 7+ Days</i>
Orchard Oriole		Singing Male 7+ Days	<i>Singing Male 7+ Days</i>	<i>Singing Male 7+ Days</i>	
Baltimore Oriole	Nest with Young	Nest with Young	Singing Male 7+ Days	Recently Fledged	Feeding Young
House Finch	<i>Singing Male 7+ Days</i>	Recently Fledged	Recently Fledged	<i>Singing Male</i>	
American Goldfinch	Recently Fledged	Recently Fledged	Recently Fledged	Recently Fledged	Recently Fledged
House Sparrow	Occupied Nest	Carry Nest Material	Recently Fledged	Recently Fledged	Recently Fledged

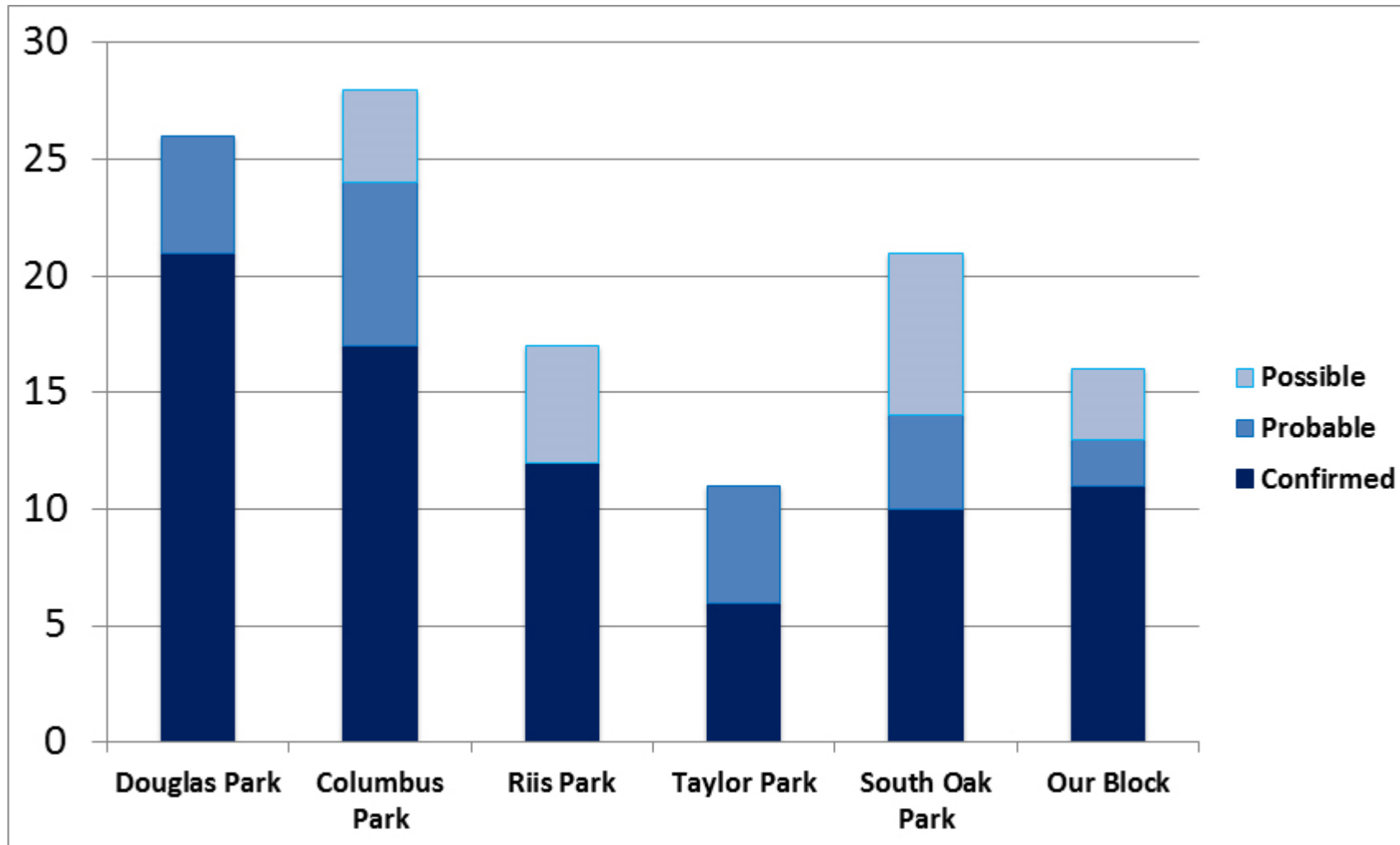
**Breeding birds that nest elsewhere,
but still use the park's resources
(Off-site Breeders):**

- **Great Blue Herons**
- **Red-tailed Hawks**
- **Caspian Terns**
- **Chimney Swifts**

Location:	Douglas Park	Columbus Park	Riis Park	South Oak Park	Our Block
# Confirmed Breeders	21	17	12	10	11
# Probable Breeders	5	7	0	4	2
# Possible Breeders	0	4	5	7	3
# Off-Site	3	3	1	0	1
Species (highest breeding code for 2014):					
Canada Goose	Confirmed		Confirmed		
Wood Duck		Confirmed			
Mallard	Confirmed	Confirmed	Confirmed		
Green Heron	Confirmed				
Cooper's Hawk				Confirmed	
Rock Pigeon (Feral Pigeon)	Confirmed			Probable	Probable
Mourning Dove		Confirmed	Confirmed	Possible	Confirmed
Chimney Swift	(drink)	(drink)	(drink)	Probable	Probable
Ruby-throated Hummingbird				Probable	
Downy Woodpecker	Confirmed	Confirmed	Confirmed	Confirmed	Confirmed
Northern Flicker		Probable			
Kestrel			Confirmed		
Eastern Phoebe	Confirmed				
Eastern Wood-Pewee			Possible		
Eastern Kingbird	Confirmed	Probable			
Warbling Vireo	Confirmed	Probable			
Red-eyed Vireo	Probable	Probable		Possible	Possible

Location:	Douglas Park	Columbus Park	Riis Park	South Oak Park	Our Block
Blue Jay		Possible		Possible	Confirmed
American Crow	Confirmed			Possible	Possible
Northern Rough-winged Swallow		Confirmed			
Tree Swallow	Possible				
Barn Swallow	Confirmed				
Black-capped Chickadee	Probable	Probable	Possible	Confirmed	Confirmed
House Wren		Confirmed		Confirmed	
Blue-gray Gnatcatcher		Possible			
American Robin	Confirmed	Confirmed	Confirmed	Confirmed	Confirmed
Gray Catbird	Confirmed	Confirmed		Probable	
European Starling	Confirmed	Confirmed	Confirmed	Confirmed	Confirmed
Cedar Waxwing	Probable	Possible	Confirmed		Confirmed
Common Yellowthroat	Probable		Possible		
Yellow Warbler	Confirmed				
Chipping Sparrow				Possible	
Song Sparrow	Probable	Confirmed			
Northern Cardinal	Confirmed	Confirmed	Confirmed	Confirmed	Confirmed
Indigo Bunting	Confirmed				
Red-winged Blackbird	Confirmed	Confirmed	Confirmed		
Common Grackle	Confirmed	Confirmed	Confirmed	Possible	Possible
Brown-headed Cowbird	Confirmed	Confirmed	Possible	Possible	
Orchard Oriole		Probable			
Baltimore Oriole	Confirmed	Confirmed			
House Finch		Possible	Possible	Confirmed	Confirmed
American Goldfinch	Confirmed	Confirmed		Confirmed	Confirmed
House Sparrow		Confirmed	Confirmed	Confirmed	Confirmed

Breeding Birds 2014



What Have We Learned?

(more questions than answers...)

**These urban parks and neighborhoods
are used by birds in all seasons:**

- **Migration / stopover**
- **Breeding**
- **Wintering**

Migrants stop over everywhere...
...so every scrap of green matters.



**Patch size matters for
breeding birds...**



**...but more so for some
than for others.**



How can we make areas of mowed lawn even more valuable for migrating and wintering birds?



Who Should See
the Data?

Take Our Data, Please!



- Researchers
- Land Managers
- Regulators
- Conservation Groups
- Bird Monitors
- Stewards

Wow, look what we found in your park!



- Walkers/Dog Walkers
- Fishersfolk
- Golfers
- Artists
- Activists
- Reporters
- Educators
- Parents
- Aldermen
- Police Officers
- Hospital Folk
- ...and many more

talk

talk

talk

COS bird walks



stewardship days

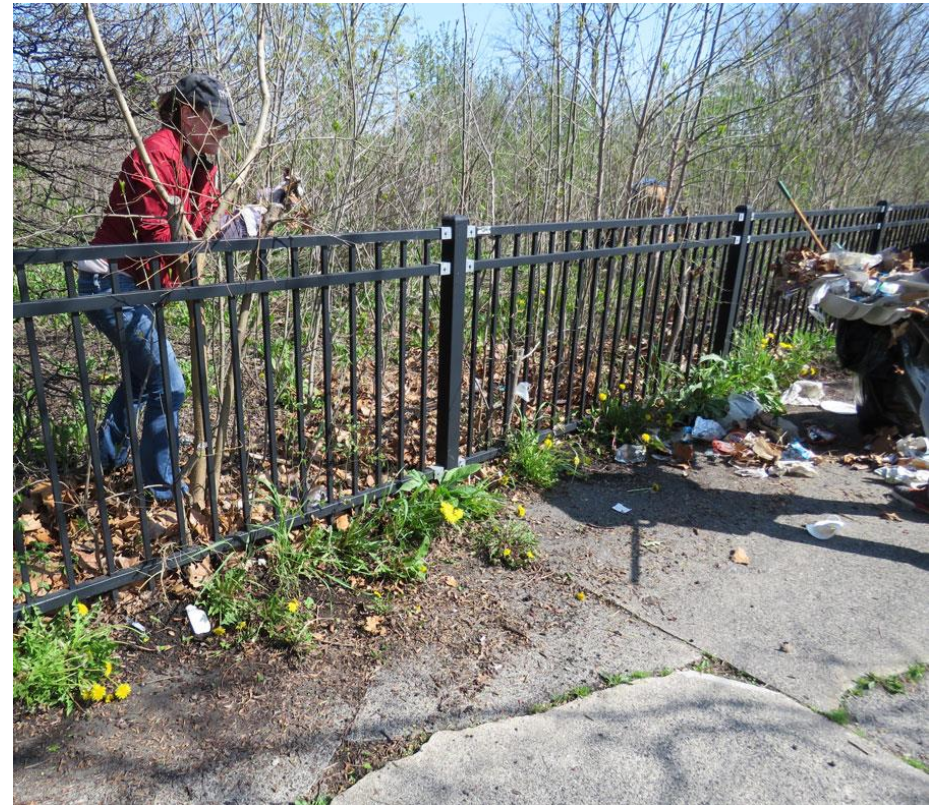


meetings

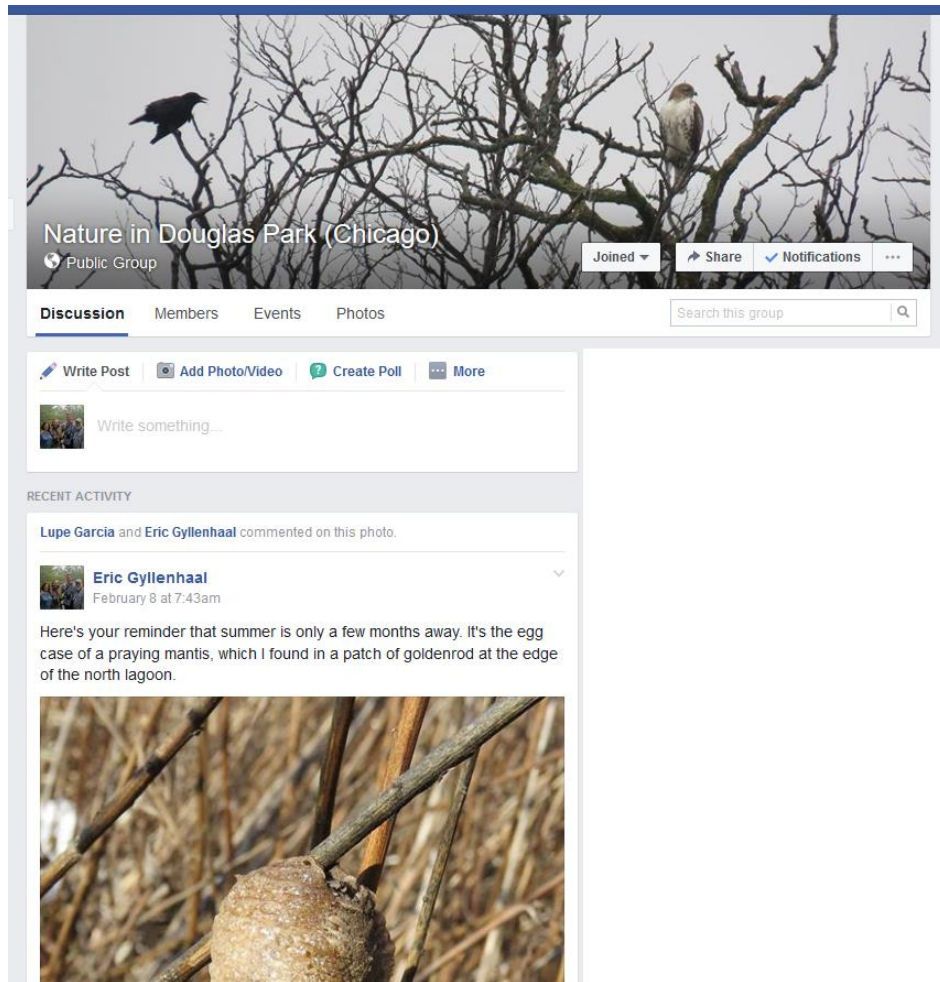


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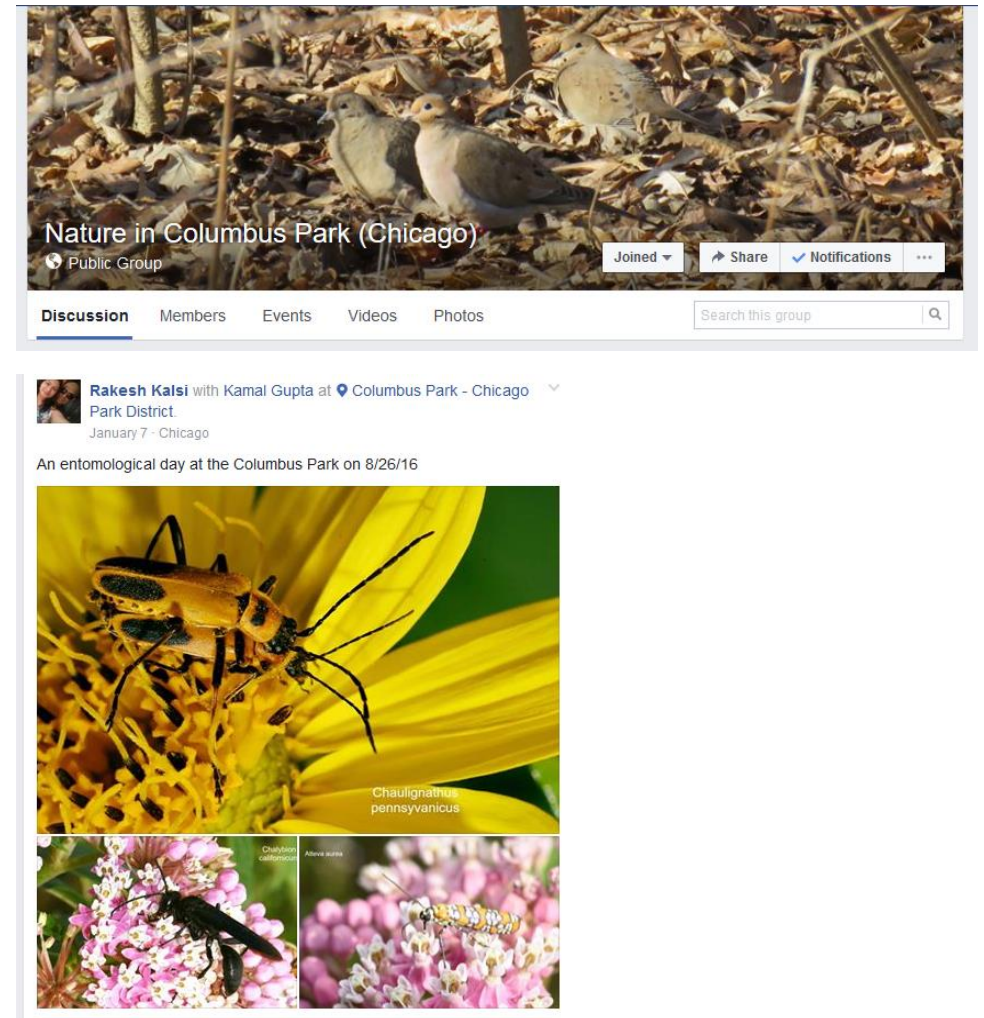
events



Facebook

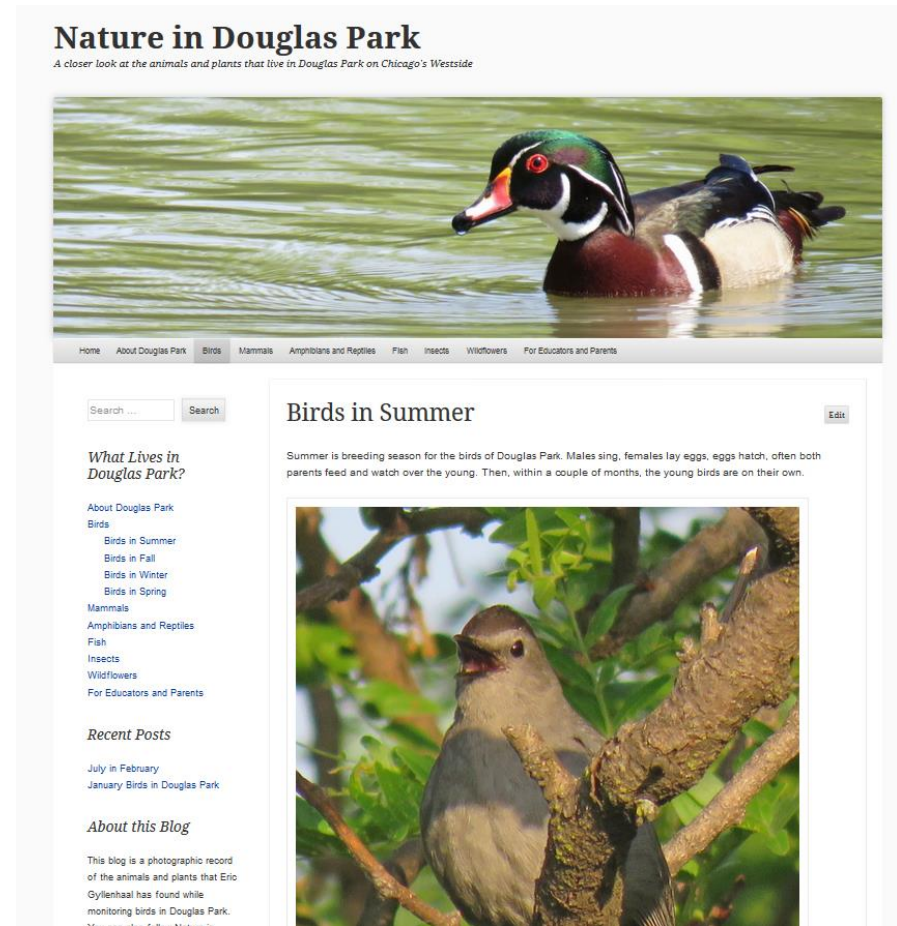
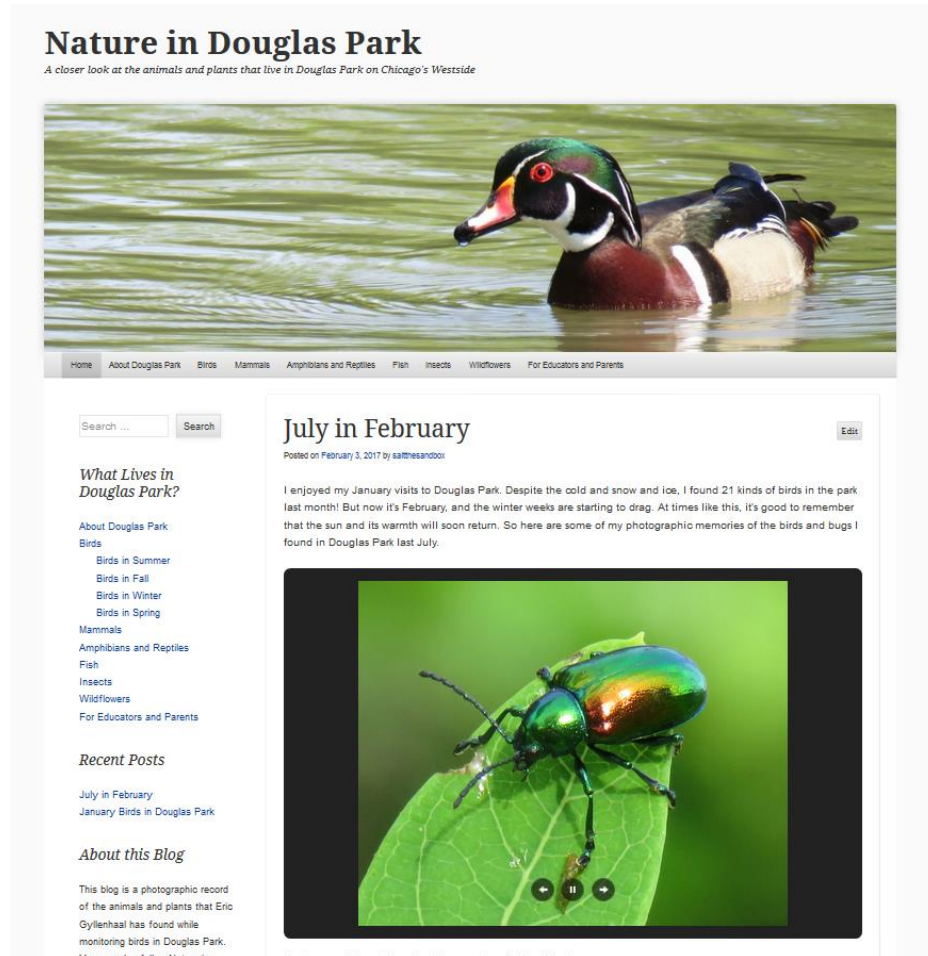


<https://www.facebook.com/groups/DouglasParkNature/>



<https://www.facebook.com/groups/233989470332311/>

website / blog



<https://douglasparknature.org/>

paper things

Douglas Park
Birds of the Week: Mid March, 2016
SPARROWS



Song Sparrow



Fox Sparrow

Learn more with the **Nature in Douglas Park** Facebook group:
<https://www.facebook.com/groups/DouglasParkNature/>



publication

The Birds of Humboldt Park by Sam Burckhardt (2010)

The Habitat Project website:

http://www.habitatproject.org/CMBA/webdocs/Birds_of_Humboldt_Park-Burckhardt.pdf

BIRDS OF HUMBOLDT PARK



A REPORT BY SAM BURCKHARDT

Birds of Humboldt Park

A report by Sam Burckhardt
Compiled January 1 – December 31, 2009



Immature Red-tailed Hawk, Humboldt Park, Chicago, 11-20-09

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all photographs taken in Humboldt Park by Samuel B. Burckhardt

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Title page: Canada Geese in front of Humboldt Park Boat House, 9-1-09
Back page: Canada Goose, 2-15-10

time capsule



<https://urbanbirdmonitor.org/>