### Long-term population monitoring of American Kestrels in Saskatchewan, using nest boxes.





Jared Clarke @jaredclarke5 🔰





## Getting started

#### • 2007

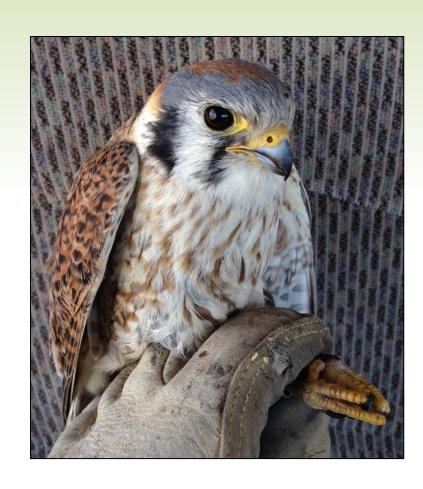
- put up 2 boxes around Regina
- both were occupied!

### • 2008

- put up 14 boxes
- 8 were occupied!
- banded 8 adult females & 30 chicks!

### 2009

- had 11 boxes
- again 8 occupied!
- banded 6 adult females, 4 adult males & 8 chicks.



## 2015 - Let's Get Serious!

 Goal: Set up a long term nest box program to study American Kestrel population in Saskatchewan.



- Set up study to reduce driving and time commitment for each bander.
- 5 banders & each bander had a cluster of 10 boxes to monitor.

2015 – 50 boxes

2016 – 79 boxes

2017 – 60 boxes?

- Standardized the boxes (Audubon Society/Art Gingert)
- Boxes placed at least 1 km apart
- Set up on power poles and trees
- Checked at least twice per year beginning and end of May, more if AMKE present
- Clean the boxes each winter









#### Species: AMERICAN KESTREL

Date set up:								
			w.	Location Name:	Location Name:			
Nestling Banding Data	Date:				NOTES:			
Band #	Age	Sex Weigl	ht Band	er				
		<u> </u>						
Adult Banding Data								
Adult Banding Data    Band #: Date (DD-MON-YYYY): Time (24h)::								
Age: Sex: Body Condition (1-5):								
Wing Chord: Tail: Weight:								
Method of Captured: ☐Bal-chatri ☐ In Nestbox								
Primaries Secondaries Notes:								
Left:								
Right:								
D1#	Dete	(== · · · · · · · · · · · · · · · · · ·		T	/>-			
Band #: Date (DD-MON-YYYY): Time (24h)::								
Age: Sex:								
Wing Chord: Tail: Weight:								
Method of Captured: ☐Bal-chatri ☐ In Nestbox								
Primari	es Se	condaries	Notes	5:				
Left								
Right:								

- Catch females in the nest box by plugging the entrance hole
- Males are opportunistically captured with a bal-chatri



Nest data								
Box location: Nest height (m):								
Date (DD-MON-YYYY)	Time	Adults	Eggs	Chick	Notes (Include prey items)			
	-							
Nest outcome: # of chicks fledged:								
Reason for nest failure:								



### Results

### 2015 (50 boxes)

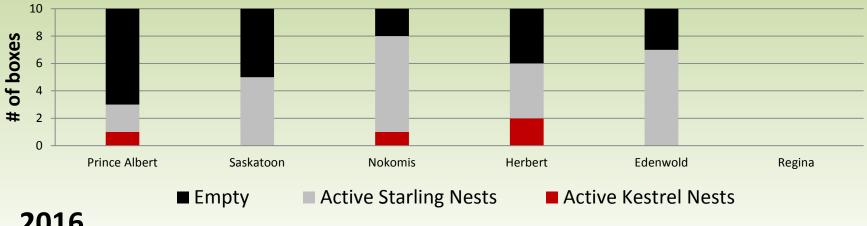
- 8% active nests (n=4), 2 successful
- Banded 3 adult females, 1 male & 10 nestlings
- 50% occupancy by European Starlings (n=25)

### 2016 (79 boxes)

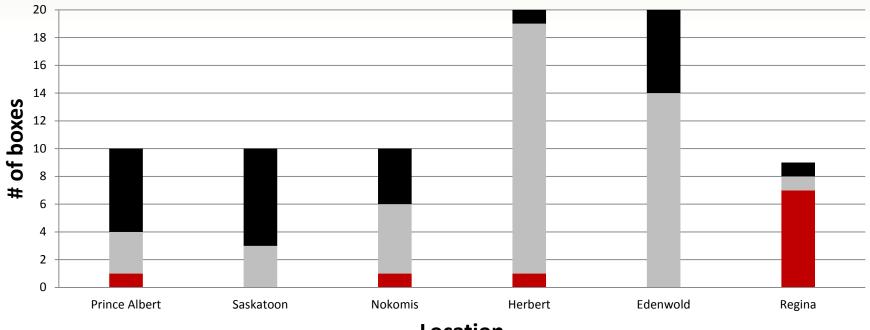
- 12% active nests (n=10), 7 successful
- Banded 7 adult females, 0 males & 35 nestlings
- Recaptured 1 male from 2015
- 59% occupancy by European Starlings (n=47)



#### 



#### 



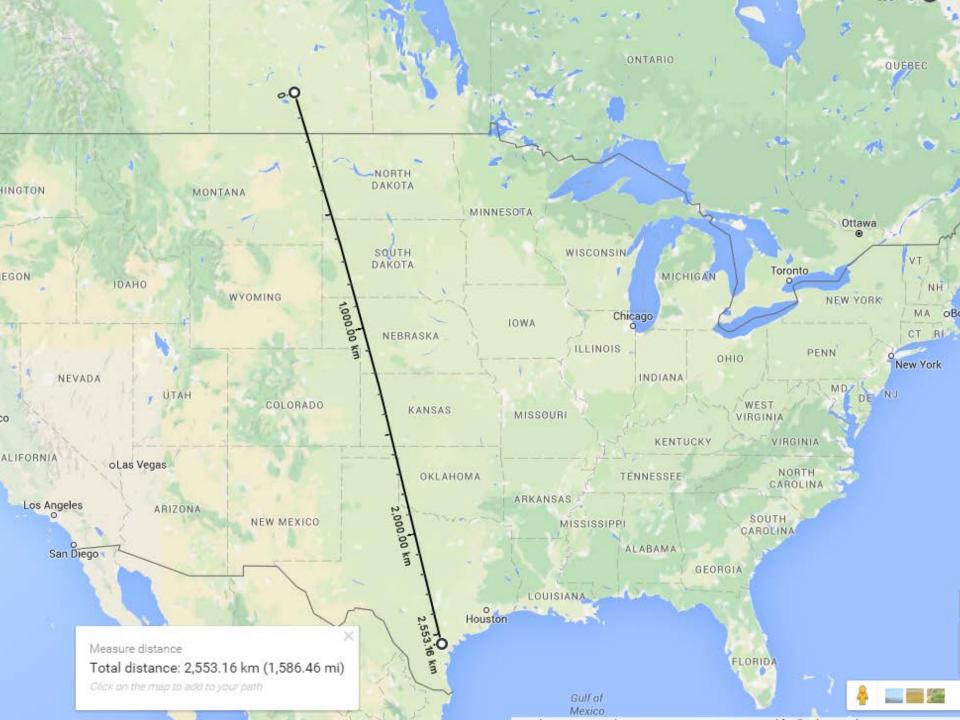
Location

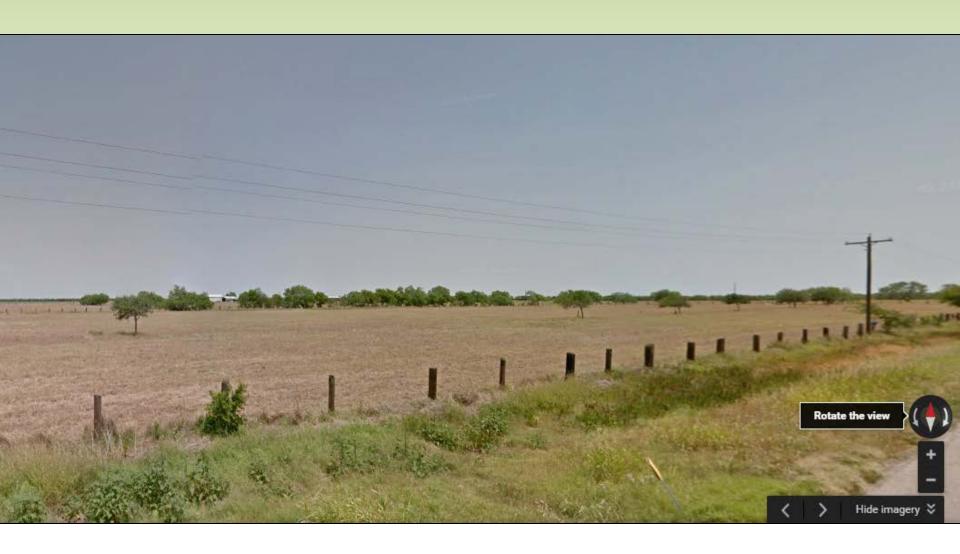
# A couple other interesting things

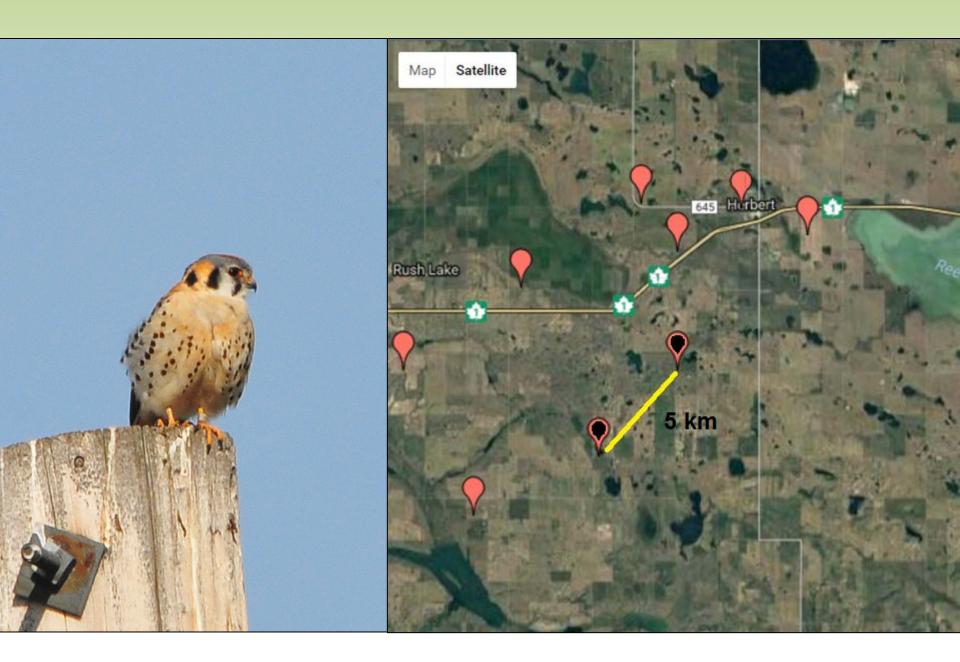














### Thank you to my team:

Randy McCulloch (Herbert)
Joseph Kotlar (Nokomis)
Adam Crosby (Saskatoon)
Matthew Tokaruk (Prince Albert)