Data Stories

Using Effective Data Visualization and PowerPoints to Tell Your Research Story

A Research Story

FOREST CREATURES & ACTIVITY RECREATIONAL OPPORTUNITIES FOR WOODLAND CREATURES IN CITY PARKS

THE PROJECT

Recreation and recreation activities within the city of Winnipeg is just as important to woodland creatures as it is to humans. And, the time of year makes a big difference on they types of activity in which squirrels, raccoons, deer, mice, and skunks can partake. Our study aims to look at each of these populations, the types of activities in which they participate, and the levels of participation based on the time of year. From this study we hope to develop a strategy to reach out these different populations and encourage them to seek recreational activities in the months where, historically not been as active.

STUDY PARTICIPANTS

Included Animals

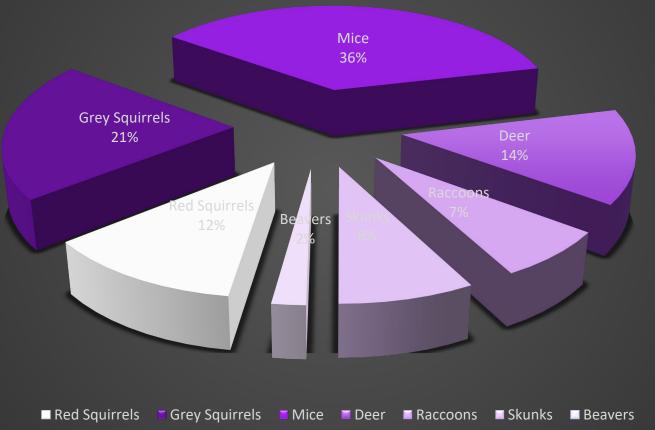
- Red and Grey Squirrels
- Mice, but not rats
- Deer
- Raccoons
- Skunks
- Beavers

Excluded Animals

- Feral cats
- Domesticated dogs and cats

WOODLAND CREATURE POPULATIONS





RECREATIONAL ACTIVITIES

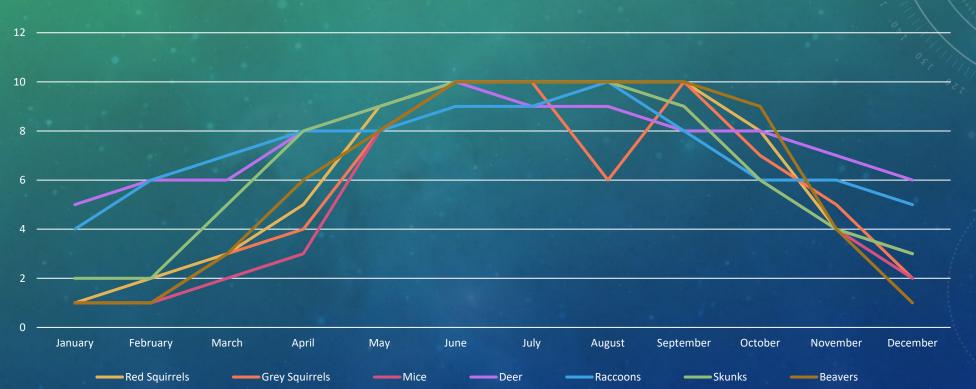
- Chilling this is where woodland creatures just stand around, and like, mind their own business
- Chasing primarily a squirrel activity, can be either territorial behaviour or having fun
- Running or Leaping not to be confused with being chased by another species

MOST POPULAR LOCATIONS

Quadrant	Name	Address	Popularity
South	Assiniboine Forest	950 Shaftesbury Blvd.	27
South	Assiniboine Park	6 Locomotive Dr.	20
East	Buhler Recreation Park	135 Murdock Rd.	3 02,
South	Crescent Drive Park *	781 Crescent Dr.	10
North	John Blumberg Park	4540 Portage Ave. Headingley, MB	6
East	<u>Kilcona Park</u> *	1229 Springfield Rd.	8
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North	Little Mountain Park *	64093 Klimpke Rd. RM of Rosser	10
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PARK USE BY MONTH





SQUIRRELS

Obligate hibernators are animals that spontaneously, and annually, enter hibernation regardless of ambient temperature and access to food. Obligate hibernators include many species of ground squirrels, other rodents, mouse lemurs, European hedgehogs and other insectivores, monotremes, and marsupials. These species undergo what has been traditionally called "hibernation": a physiological state wherein the body temperature drops to near ambient temperature, and heart and respiration rates slow drastically. (Hibernation, n.d.)

Data Visualization

Telling a Better Story with Better Graphics

Data Visualization

(Good, Bad & Ugly)

click for slides: bit.ly/uml_dvgbu



PowerPoint Presentations

Don't Lose Your Audience, Keep Your Audience

How to Avoid Death By PowerPoint

David JP Phillips

No offence...

Have you gotten out of a big deal?

79 Yes

125 No

Are you planning on getting out of a big deal?

92 Yes

107 No

If you have gotten out of a big deal or are planning to, what was/is your reasoning?

104 Budget

10 Principle

1 Mandate

32 Other

If decision on principle, where did you reinvest the funds?

3 APCs

3 Open initiatives

9 On demand resources

20 Subscriptions to other resources

76 We have not gotten out of a deal

If you had the funds to renegotiate your journal packages with a publisher, would you re-enter a big deal?

20 Yes

86 Maybe

30 No

62 Have not gotten out of a deal

The Search Process

This presentation examines the search process which is defined in the following 8 steps:

- 1. Understanding how information is organized
- 2. Understanding your question
- 3. Identifying your foreground question
- 4. Identifying background questions
- 5. Searching resources to answer your background question
- 6. Planning your foreground question search
- 7. Searching resources to answer your foreground question
- 8. Organizing the information you have retrieved

How to Avoid Death By PowerPoint

David JP Phillips

One Message per Slide

Contrast

Avoid Sentences

Dark Backgrounds

If You Can

Six Objects

SELECTING A JOURNAL

Wide Readership in Your Field

Wide readership in your field

- What are the journals you read? Your supervisor and peers?
- Where is the research you are citing published?
- In which databases is your journal of interest indexed?

Exercise

• Find a website of a journal you would like to publish, explore the publishing information

SELECTING A JOURNAL

WIDE READERSHIP IN YOUR FIELD

Journals read

- Journals read
- Research cited

- Journals read
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Selecting a Journal

Wide readership in your field

What are the journals you read?
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Wide readership in your field

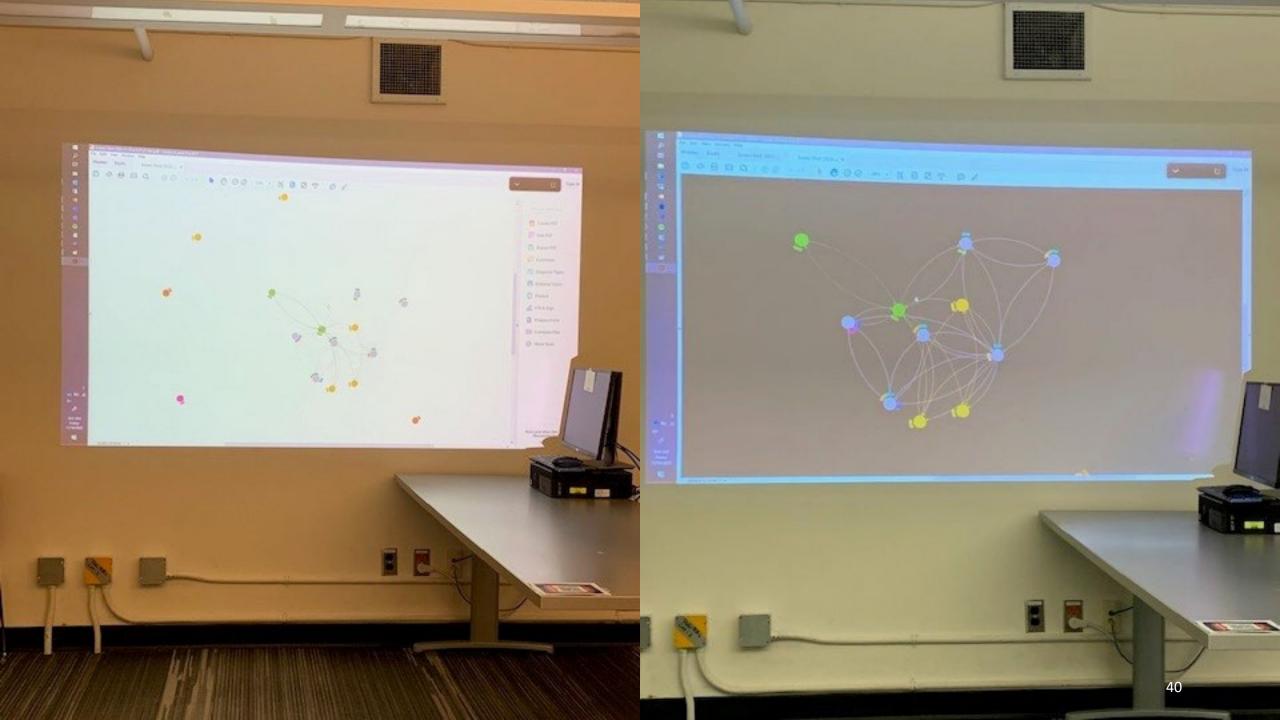
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Wide readership in your field

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A New Research Story

Forest Creatures and Activity

Recreational Opportunities for Woodland Creatures in City Parks



The Project



The project

Woodland creatures like recreation too.



Study Participants



Study Participants

Inclusion Criteria



Red and Grey Squirrels



- Red and Grey Squirrels
- Mice



- Red and Grey Squirrels
- Mice, but not rats
- Deer



- Red and Grey Squirrels
- Mice, but not rats
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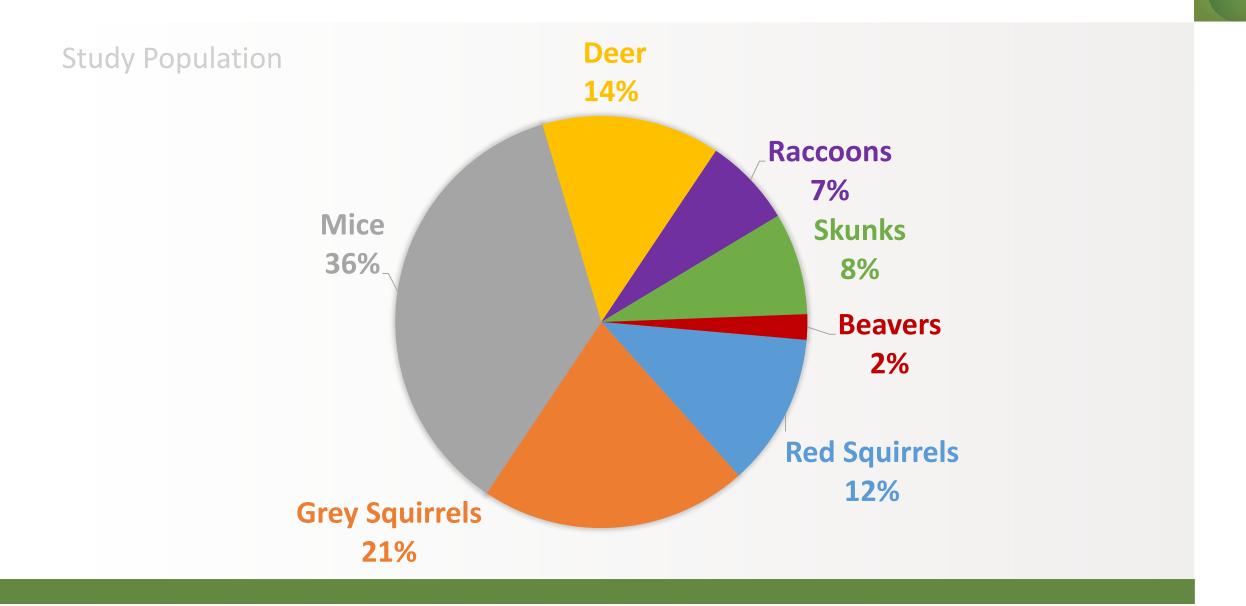


Feral Cats



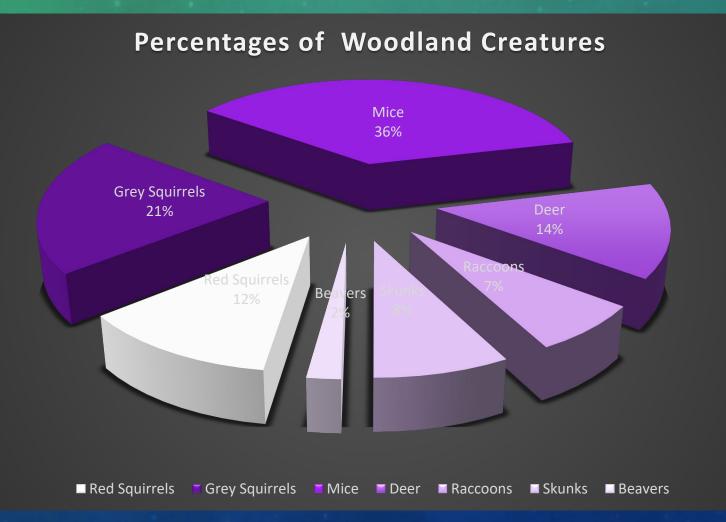
- Feral Cats
- Domesticated Dogs and Cats

Woodland Creature Populations





WOODLAND CREATURE POPULATIONS





Chilling



(1)



Chasing



(2)



Leaping



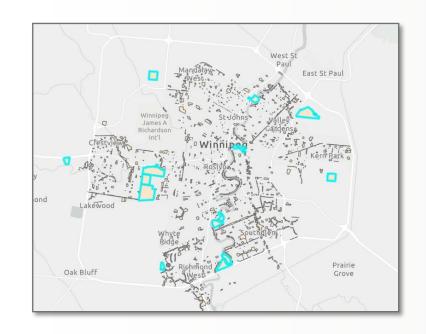
(3)

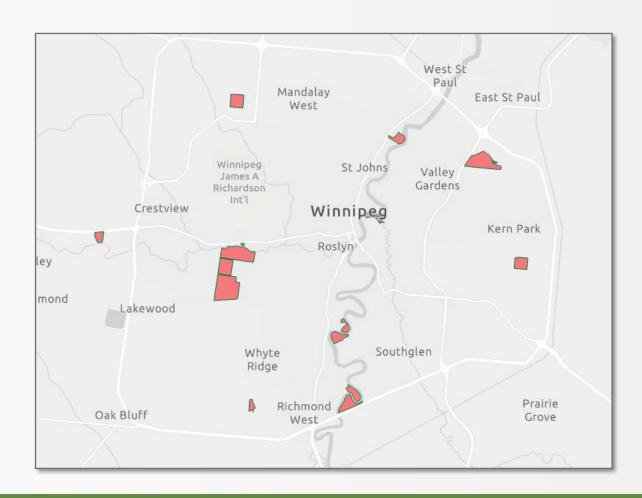


Most Popular Recreational Locations



Most popular recreational locations







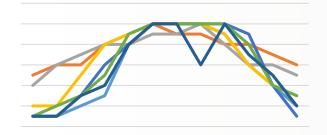
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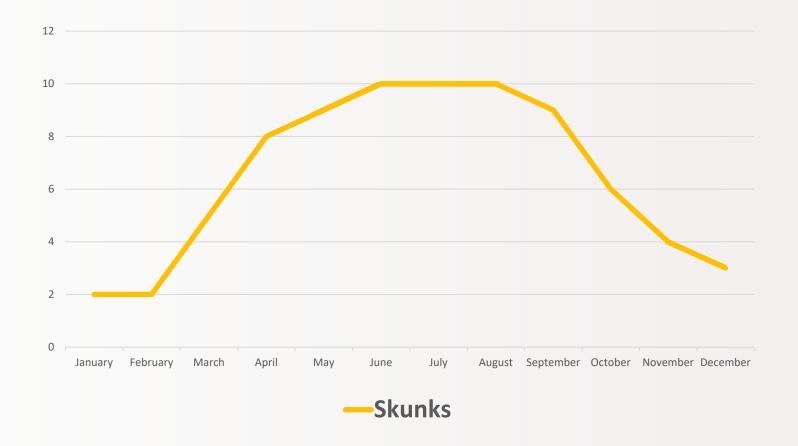
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Activity Levels by Month



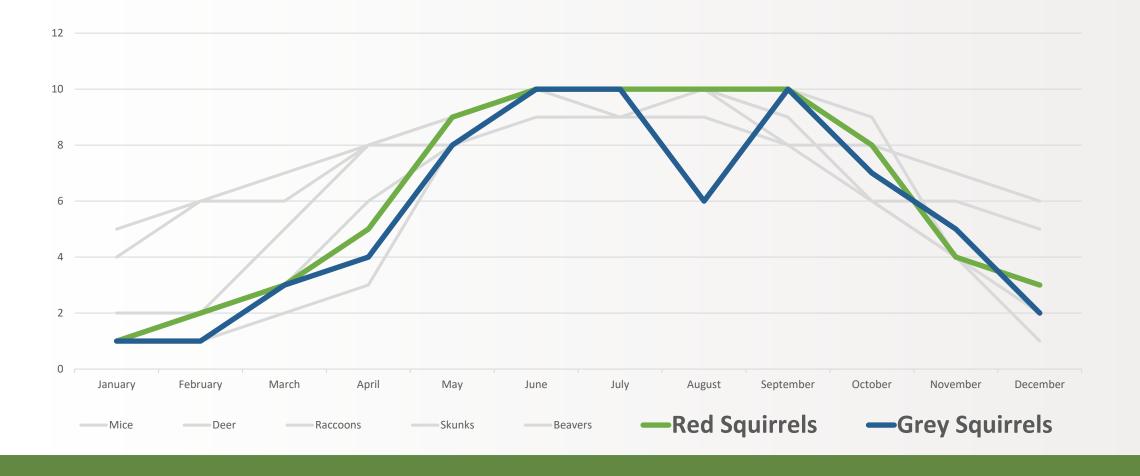
Activity Levels by Month- Skunks







Activity Levels by Month- Squirrels







Spontaneously, and annually, enter hibernation



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- Regardless of temperature and access to food



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- Regardless of temperature and access to food
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References

- 1. By Michael Hunter, CC–BY-SA-4.0, https://commons.wikimedia.org/wiki/File:A Pair of Raccoon%27s Sleeping Red Hill Valley.JPG
- 2. Squirrels Chasing. (n.d.). Squirrels chasing each other. [Photograph]. Retrieved August 14, 2013 from http://media.nj.com/jersey-journal/photo/2012/08/11474342-essay.jpg
- 3. By Dwight Burdette, CC BY 3.0, https://commons.wikimedia.org/w/index.php?curid=55128607
- 4. Hibernation. (n.d.) In Wikipedia. Retrieved March 6, 2020 from https://en.wikipedia.org/wiki/Hibernation



Don't blind people with science!

Don't worry about the number of slides.

Remember, you own your slides, they don't own you!

Questions?