Supplemental material for manuscript "I don't feel safe sitting in my own yard': Chicago

resident experiences with urban rats during a COVID-19 stay-at-home order"

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THE CHICAGO RAT PROJECT

Chicago Rat Project- Stay-at-Home Survey

Informed consent

The Urban Wildlife Institute at Lincoln Park Zoo is continuing to learn as much as we can about Chicago's urban wildlife landscape as our communities navigate COVID-19 together. If you have time and are able, we would appreciate any insights you are able to provide via this survey. And, we understand if you aren't able to participate. Hopefully, we'll learn a little bit about our city and its non-human residents in this challenging environment.

Please only take this survey once, even if you have received it from multiple sources.

The Chicago Rat Project is studying how rats affect people in neighborhoods all across Chicago. We are asking for your help by participating in a brief survey that will help us learn from your experiences with rats. Your answers will help us understand rat issues in Chicago and how rats affect public perception of urban wildlife.

This survey is anonymous and it will take about 20 minutes. We will use your answers to write a scientific report. This project has been reviewed and approved by the Lincoln Park Zoo Institutional Review Board.

Benefits You will not benefit directly from this study. We hope our results will help reduce rats in Chicago to improve public health.

Risks Some of the survey questions may be uncomfortable to answer. For example, we will have images of rats and rat droppings. We will ask about rat droppings in your home and we will also ask if you are afraid when you see a rat. You can choose not to answer any question, for any reason.

Participation *Participating in this survey is completely voluntary.* You are free not to participate, to end the survey at any time for any reason, or to refuse to answer any question.

Confidentiality We will record your age and gender, but no other information about you. If you choose to provide your contact at the end of the survey, it will not be stored with your responses and will not be shared with any other party.

Persons to Contact If you have questions about this study, please contact Dr. Maureen Murray at maureenmurray@lpzoo.org. If you would like to talk with someone other than the researchers to discuss problems or concerns or to discuss your rights as a research participant, you may contact the Lincoln Park Zoo Institutional Review Board at Ihopper@lpzoo.org.

Consent If you are willing to participate in this study, please check the boxes below. By filling out this
survey, you are providing consent for us to use this data in our study. Please only fill out this survey if
you are over 18 years of age and have lived in your residence for more than six months. Please note
that checked boxes indicate that:
1. You consent to participate in this study

2. You understand that participation in this study is entirely voluntary and that you may refuse to
participate or withdraw from the study at any time without penalty
3. You have received a copy of this consent form for your own records.

* 1. I confirm that I am over 18 years old
Yes
○ No
* 2. I have lived in this property for more than 6 months
Yes
No

Thank you for your help. Please keep this information in case you have questions later and want to contact us.



THE CHICAGO RAT PROJECT

Chicago Rat Project- Stay-at-Home Survey

How to identify rats and their signs

Norway or brown rats are bigger and longer in shape than mice.

House mouse



0.5 – 1 oz 3 – 4" long (body) 5.5 – 7.5" long (with tail)

Dollar bill



6.14" long

Brown/Norway rat



7 – 18 oz 6 – 11" long (body) 13 – 18" long (with tail) Rat droppings are larger than grains of rice, which are larger than mouse droppings.



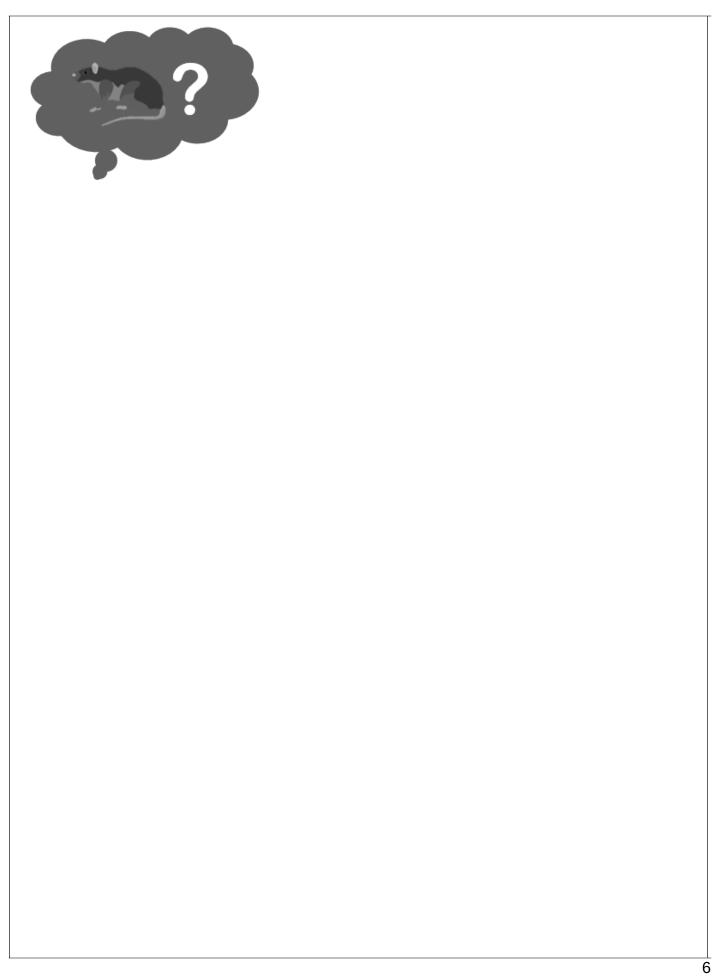
Rats dig holes or burrows in the ground, like this one next to a dumpster.





THE CHICAGO RAT PROJECT

Chicago Rat Projec	t- Stay-at-Hon	ne Survey				
Experiences with rats						
These questions tell us	where, when, a	and how often Chicago r	esidents see rats.			
3. Thinking over the past	month, how oft	en have you seen a rat in	each of these place	s?		
	Never	Rarely (Less than weekly)	Frequently (Weekly)	Daily or almost daily		
In your neighborhood			\bigcirc			
On your block						
In or around your home/building		\bigcirc		0		
4. Compared to a month	ago , how often	are you seeing rats now?				
	Fewer rats	About the same	More rats	I do not see any rats here		
In your neighborhood			\circ			
On your block						
In or around your home		\circ		\bigcirc		
 5. Compared to previous years, how often are you seeing rats this year? Fewer rats About the same More rats 6. When you think about rats, what words come to mind?						





THE CHICAGO RAT PROJECT

Chicago	Rat P	roiect-	Stav-	at-Home	Survey
					<u> </u>

Attitudes about rats

This question tells us what Chicago residents think about rats.

7. For each of the following statements, please tell us how much you agree or disagree:

	Charach diagona	D:	Neither agree nor	A	Otros montos a sussas
	Strongly disagree	Disagree	disagree	Agree	Strongly agree
Seeing rats bothers me	O	0	0	0	O
Rats are smart					
Rats cause property damage	\circ		\bigcirc		
Rats are cute					
Rats spread disease					
Rats are dangerous					
Rats are scary					
Rats are unclean					
I think about rats even when I don't see them	\circ	\bigcirc	\circ	\bigcirc	
I am concerned about rat infestations	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
I am more concerned about rats than I was a month ago	0	0	0	0	0

8. Please tell us how concerned you are about these potential consequences of rats:

	Not at all	A little	Somewhat	Very
Property Damage				
Disease	\bigcirc			\bigcirc
Safety				
Environmental Damage				\bigcirc

9. Have you ever owned a pet rat?	
Yes No	



THE CHICAGO RAT PROJECT

Chicago Rat Project-	Stay-at-Hon	ne Survey		
Rat Control				
These questions tell us al	oout how Chi	cago residents control r	ats and what they t	hink about rat
management.				
10. Over the past month	n , where have	you found information ab	out rats? Please che	ck all that apply.
Television		Other	community members	
Friends or family		Pest	professionals	
City of Chicago posters		Socia	l media	
City of Chicago website		Radio		
Other websites		I have	not looked for informatio	n about rats
Neighbors				
Other (please specify)				
11. Thinking over the past r	nonth, how o	ften have you done any o	f these activities?	
	Never	Rarely (Less than weekly)	Frequently (Weekly)	Daily or almost daily
Called 311 to report a rat	\bigcirc		\bigcirc	
Set snap traps to kill rats			\bigcirc	
Used rat poison		\bigcirc		
Replaced garbage cans because of rat holes	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Covered rat holes				
Called a pest professional about rats		\bigcirc	\bigcirc	\bigcirc
Cleaned up building or yard to prevent rats	\circ	\bigcirc		\bigcirc

Did not use rodent control Less often About the same More often 13. Compared to previous years, how often are you using rodent control this year? I used less compared to last year About the same as last year I used more than last year	Did not use rodent control Less often About the same More often 13. Compared to previous years, how often are you using rodent control this year? I used less compared to last year About the same as last year I used more than last year 14. Thinking over the past month, for each of the following statements, please tell us how much you agree of disagree: Strongly disagree Disagree Neither agree nor disagree Agree Strongly agree	Did not use rodent control Less often About the same More often 13. Compared to previous years, how often are you using rodent control this year? I used less compared to last year About the same as last year I used more than last year 14. Thinking over the past month, for each of the following statements, please tell us how much you agreed disagree: Neither agree nor disagree Agree Strongly agree Agree Strongly agree	12. Compared to a	month ago , how c	often have you n	eeded to use roden	t control?	
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14. Thinking over the past month, for each of the following statements, please tell us how much you agree of disagree: Neither agree nor Agree Strongly agree	L4. Thinking over the past month, for each of the following statements, please tell us how much you agree of disagree: Neither agree nor Strongly disagree Disagree Disagree Disagree Agree Strongly agree	14. Thinking over the past month, for each of the following statements, please tell us how much you agree disagree: Neither agree nor Strongly disagree Disagree Disagree Agree Strongly agree	About the same a	s last year				
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job getting rid of rats I do everything I can to	job getting rid of rats I do everything I can to	job getting rid of rats I do everything I can to	information and resources to control rats	0	0	0	0	0
				\circ	\bigcirc	\bigcirc	\bigcirc	0
				0	\bigcirc	0	\circ	0

15. Please rank the following people in order of who should be responsible for rat control, with 1 being the most responsible and 3 the least responsible
Landlords/Building owners
■ Renters
The government
16. In your opinion, what do you think is the best way to manage rats in your neighborhood? Please rank the actions below in order with 1 being the most effective, to 5 being the least effective.
Cleaning up the garbage
■ Putting out rat poison bait
≡
Putting out rat traps
Filling in burrows
Repair homes 17. Are there other ways you think would help manage rats? If yes, please explain.



THE CHICAGO RAT PROJECT

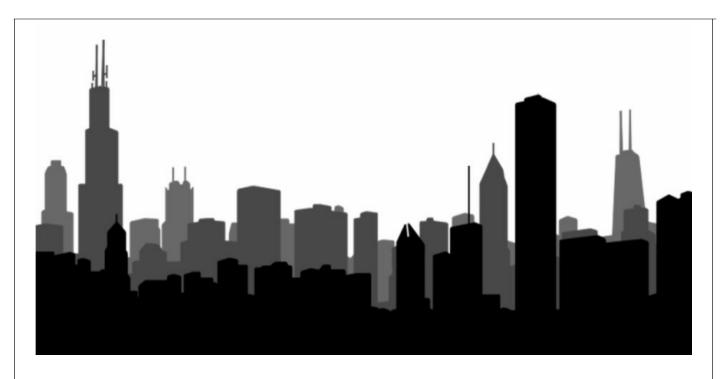
Chicago Rat Project- Stay-at-Home Survey

Your neighborhood	
These questions help us understand which neig with rats.	hborhoods or housing types need more help dealing
18. Do you rent or own your residence?	
Rent Own	
19. What type of housing do you live in?	
Single-family home	Apartment building with 10 – 19 units

Single-family home	Apartment building with 10 – 19 units
Townhouse	Apartment building with 20 – 49 units
Apartment building with 2 – 4 units	Apartment building with over 50 units
Apartment building with 5 – 9 units	

20. What neighborhood do you live in?

21. Optional: What is the closest major street intersection to your block? (example: N Clark St and W Armitage Ave)



22. Thinking over the **past month**, for each of the following, please tell us if this is "not a problem", "somewhat of a problem" or "a big problem" on your block:

	Not a problem	Somewhat of a problem	A big problem
Rats			
Vacant housing			
Vandalism		0	\bigcirc
Trash in the streets			
Groups of teenagers hanging out in the street	0		0
People selling drugs			
People getting robbed or beat up	0		\circ



THE CHICAGO RAT PROJECT

Chicago Rat Project- Stay-at-Home Survey

Rats and your health

These questions help us understand how rats might be related to health for Chicago residents.



your thoughts and feelings	•	vords.	The trial make your	icer: i icase describe
24. Over the past month ,	how frequently	y have you seen these sigr	ns of rats in your <u>hom</u>	ne/building?
	Never	Rarely (Less than weekly)	Frequently (Weekly)	Daily or almost daily
Rat-chewed walls, wires, or pipes		\bigcirc	\bigcirc	
Rat-chewed food containers	\bigcirc	\bigcirc		\bigcirc
Noticed a strong smell of rats or rat urine		0		0
Rat droppings/feces	\bigcirc	\bigcirc		

	Never	Rarely (Less than weekly)	Frequently (Weekly)	Daily or almost daily
ouched a rat (alive or ead)	0	0	\circ	\circ
ouched rat droppings				
itten by a rat		\bigcirc		
. Compared to a mont	h ago , how ofte	n do you have the followin	g rat issues?	
•	Less often	About the same	More Often	Never
aw chewed objects				
aw rat droppings			\bigcirc	
ouched rat droppings				_
	0	0	0	0
ouched a rat litten by a rat 28. If you experienced		nts in the previous question	n, did you have any h	ealth issues from co
iouched a rat 28. If you experienced into contact with a rat Yes No			n, did you have any h	nealth issues from co
ouched a rat Bitten by a rat 28. If you experienced into contact with a rat			n, did you have any h	nealth issues from co
iouched a rat 28. If you experienced into contact with a rat Yes No If yes, please explain:	or rat droppings	5?		
iouched a rat 28. If you experienced into contact with a rat Yes No If yes, please explain:	or rat droppings			
into contact with a rat Yes No If yes, please explain: 29. Did you see a doc Yes	or rat droppings	5?		
iouched a rat 28. If you experienced into contact with a rat Yes No If yes, please explain:	or rat droppings	5?		
28. If you experienced into contact with a rat Yes No If yes, please explain: 29. Did you see a doc	or rat droppings	5?		
iouched a rat 28. If you experienced into contact with a rat Yes No If yes, please explain: 29. Did you see a doc Yes No	or rat droppings	5?		



THE CHICAGO RAT PROJECT

Chicago Rat Project- Stay-at-Home Survey					
Urban wildlife					
These questions help wildlife (wild animals			esidents think an	d experience abo	out other urban
30. What words come	to mind when you	think about wildl	ife in cities?		
31. For each of the fol population), please tel	l us how much you	agree or disagr	ee: Neither agree nor		
	Strongly disagree	Disagree	disagree	Agree	Strongly agree
Humans should manage wild animal populations so that humans benefit	0	0	0	0	0
If a type of animal is common, we should manage those animals to improve human lives		\circ	\bigcirc	\circ	\bigcirc
It is acceptable to kill animals for management, if that type of animal is common	0	0	0	0	0

2. For each of the fall	outing statements (about wildlife rie	ahta plagga tall ug h	ou much vou	aroo or dioograp
2. For each of the foll	owing statements a	about whalife rig		ow much you a	agree or disagree
	Strongly Diograms	Dicagras	Neither Agree or	Aaros	Ctronal A
	Strongly Disagree	Disagree	Disagree	Agree	Strongly Agree
Killing wildlife is wrong because animals have a right to exist	0	\circ	0	0	0
Animals should have rights similar to the rights of humans	\bigcirc	\bigcirc	\circ	\bigcirc	\bigcirc
The rights of wildlife are more important than the management of wildlife	0	\circ	0	0	0
management of Wilding					



THE CHICAGO RAT PROJECT

Chicago Rat Project- Stay-at-Home Survey

Urban wildlife

These questions tell us how often residents in different neighborhoods see urban wildlife.

33. These are some common mammals in Chicago. **In the past month**, which of the following mammals have you seen in your neighborhood? Please click all images that apply



Coyote



Raccoon



Opossum



Skunk



Bat (any kind)



Rabbit

34. These are some common birds in Chicago. **In the past month**, which of the following birds have you seen in your neighborhood? Please click all images that apply.



Canada goose



House sparrow



Pigeon







Cardinal



Chicago Rat Project- Stay-at-Home Survey

how much you agree or disagree:

Urban Wildlife Institute

THE CHICAGO RAT PROJECT

Attitudes about urban wildlife						
These questions tell us what Chicago residents think about urban wildlife (wild animals in the city).						
35. For each of the fol	lowing statements a	about <u>urban par</u>	· <u>ks,</u> please tell us h	now much you ag	ree or disagree:	
			Neither agree nor			
	Strongly disagree	Disagree	disagree	Agree	Strongly agree	
I enjoy watching wildlife when I visit urban parks		0			0	
One of the reasons I go to urban parks is to see wildlife	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	
I am interested in learning about the wildlife that live in Chicago's parks		0	0			

	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
I enjoy seeing wildlife around my home	\circ	\bigcirc	\circ	0	0
I'm interested in making the area around my home attractive to wildlife		\circ	\bigcirc	\bigcirc	
I enjoy seeing wildlife in my neighborhood	\circ	\bigcirc	\circ	0	

36. For each of the following statements about urban wildlife around your home or community, please tell us

			ow much you agree Neither Agree or		
	Strongly Disagree	Disagree	Disagree	Agree	Strongly Agree
In the past month, I have noticed more wildlife around my home	0	\circ	0	0	0
In the past month, I have noticed more wildlife in my neighborhood	\bigcirc	\bigcirc	\bigcirc		\bigcirc
In the past month, I have thought about wildlife in cities more often than usual		0	0	0	0



THE CHICAGO RAT PROJECT

Chicago Rat Project- Stay-at-Home Survey

Please tell us about yourself

This information will remain confidential and anonymous.
38. What is your age group?
18-24
25-34
35-44
45-54
55-64
65+
39. What is your gender?
Female
Male
Non-binary Non-binary
Prefer not to say
40. Do you have any children under 18 living at home?
Yes
○ No
11. How many people live in your household? Please leave blank if you prefer not to say.

42. Thinking over the past month , how much time do you spend outdoors in your neighborhood in a typical week?	
Under 2 hours	
Between 2-6 hours	
Between 7 - 14 hours	
More than 14 hours	
43. How did you hear about this survey? (Please select all that apply)	
Alderman Newsletter	
E-mail from community organization	
Shared by a friend	
Social Media	
I am a Lincoln Park Zoo volunteer	
I am a Field Museum volunteer	
Other (please specify)	

Thank you for filling out our survey!

This is the first phase of a multi-year study about rats in Chicago.

If you are interested in project updates,
taking a follow-up survey, or to
get involved in community-based research on rat management,
please leave your contact information below.

Your contact information will remain confidential and will be kept separate from your survey answers.

We would appreciate your feedback, which you can leave on the next page. Thank you!

44. Contact informa	ation	
	ttion	
Name		
Email Address		
Phone Number		



THE CHICAGO RAT PROJECT

Chicago Rat Project- Stay-at-Home Survey

Cinicago Ivai i Tojeci- Stay-at-Home Survey
Pilot Survey Feedback
Please let us know what you thought of this survey. We appreciate your feedback!
45. Were there any questions that you found confusing?
46. Were there any questions you were not comfortable answering?
47. What did you think of the survey length?
Too short
About the right length
☐ Too long
48. Were there any questions you wished we had asked?