Place Sticker Here

## **Devils Tower National Monument Tularemia Survey**

## **Demographics**

1.	Name:
2.	Age:
3.	Sex:
4.	Address of residence while working at Devils Tower:
	Is this Park housing?
5.	Permanent address, if different from above:
6.	To which address would you like us to mail your test results (results will be mailed in September or October)?  Residence while working at Devils Tower  Permanent Address  Other address:
7.	Phone numbers
	Home:
	Cell:
	Work:

ID Number Occupational and Exposure History 8. Current job Job title: DETO Permanent full-time employee Job type: **DETO Term employee** DETO Seasonal employee **DETO Volunteer** Devils Tower Natural History Association Employee Other (please specify): Average hours per week during the past 3 months: Current division(s) (check all that apply): Office of the Superintendent Division of Administration Division of Facility Management Division of Interpretation Division of Visitor and Resource Protection Division of Resource Management **Entrance Station Devils Tower History Association** Other (specify): Dates of employment at Devils Tower during 2015: 9. What types of jobs have you held during the past 5 years, both with the National Park Service (NPS) and outside of the National Park Service? Please list the job types, location (state or National Park) and years performed. With NPS? Location Job Type Yes/No (State or National Park) Year(s)

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10. Please indicate your job duties at Devils Tower (select all that apply), hours per week worked on each job duty, and hours per week working outdoors on each job duty in the past three months.

Job Duty	Hours Per Week	# of Hours Per Week Spent Outdoors			
Office/Admin					
Supervisory/Management					
☐ EMS/Search and Rescue					
Custodial					
Buildings (plumbing, electrical,					
carpentry)/ Utilities (water, waste-water)					
Trail Maintenance					
Roads/Grounds Maintenance					
Wildlife					
□ Vegetation					
Wildland Fire     ■ Wildland Fire					
Campground/Fee					
Cultural Resources/Archaeology					
Resource Education (visitor center,					
outdoor programs, education)					
Law enforcement					
Fees					
Devils Tower Natural History Assoc.					
Other (specify):					
11. <b>Before this summer</b> , had you ever heard of the disease called tularemia?					

11. Delore this sufficient, had you ever heard of the disease called tularernia:
L_ Yes       L_lNo
<del>_</del>
12. In your opinion, what are the ways that people can get tularemia (check all that
apply)?
' ' <del>- 2 /</del>
Inhaling contaminated droplets Tick bite
<u> </u>
Flies landing on food Contact with a sick person
Handling sick or dead animals Drinking contaminated water
Uther (please specify):
Don't know
I IDOn't know

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13. Did you travel outside of Wyoming and stay overnight in ar during the past three months?	nother state or country
Yes No (if no, go to question	າ 14)
If yes, please list the state or country you visited, an	d the month of travel:
Travel Location (state or country)	Month
14. In the past 3 months, have you come into contact with wild  Yes No (if no, go to question 15)  Contact occurred at (check all that apply):  Work Home Other (specify:)  How many times did contact occur? (for example, or	
Types of contacts (check all that apply):  a)  Touched live rabbit, no gloves b)  Touched live rabbit, with gloves c)  Touched dead rabbit, no gloves d)  Touched dead rabbit, with gloves e)  Picked up rabbit carcass with pick-up tool or contact f)  Bitten by rabbit g)  Scratched by rabbit h)  Contact with rabbit body fluids or tissue i)  Contact with rabbit feces	shovel, no hand

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past 3 months, have you come into contact with wild rodents, such as rats, voles, or prairie dogs?					
☐ Yes ☐ No (if no, go to question 16)					
If yes, please list the types of rodents:					
Contact occurred at (check all that apply):					
How many times did contact occur? (for example, once, twice, etc)					
Types of contacts (check all that apply). Please specify rodent type(s) for each type of contact.					
a) Touched live rodent, no gloves Rodent type(s)					
b) Touched live rodent, with gloves Rodent type(s)					
c) Touched dead rodent, no gloves Rodent type(s)					
d) Touched dead rodent, with gloves Rodent type(s)					
e) Picked up rodent carcass with pick-up tool or shovel, no hand contact Rodent type(s)					
f) Bitten by rodent Rodent type(s)					
g) Scratched by rodent Rodent type(s)					
h) Contact with rodent body fluids or tissue Rodent type(s)					
i) Contact with rodent feces Rodent type(s)					

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16. In the past 3 months, have you come into contact with any other wild animals?					
☐ Yes ☐ No (if no, go to question 17)					
If yes, please list the types of animals:					
Contact occurred at (check all that apply):  Work Home Other (specify:)					
How many times did contact occur? (for example, once, twice, etc)					
Types of contacts (check all that apply). Please specify animal type(s) for each type of contact.					
a) Touched live animal, no gloves Animal type(s)					
b) Touched live animal, with gloves Animal type(s)					
c) Touched dead animal, no gloves Animal type(s)					
d) Touched dead animal, with gloves Animal type(s)					
e) Picked up carcass with pick-up tool or shovel, no hand contact Animal type(s)					
f) Bitten by animal Animal type(s)					
g) Scratched by animal Animal type(s)					
h) Contact with animal body fluids or tissue Animal type(s)					
i) Contact with animal feces Animal type(s)					

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17. Do you have any household pets living with you this summ Devils Tower?	er while working at
Yes No (if no, go to question 18)	

	☐ Yes ☐ No (if no, go to question 18)						
	Please indicate the types of pets you have living with you while working a Devils Tower and whether they are outdoor pets, indoor pets, or both:						
	Dog(s)	∐Yes	☐ No	If yes:	Outdoor	☐Indoor	Both
	Cat(s)	Yes	□No	If yes:	Outdoor	☐ Indoor	Both
	Other p	et (specify	y):		Outdoor	☐ Indoor	Both
	Other p	et (specify	y):		Outdoor	☐ Indoor	□Both
	Other p	et (specify	y):		Outdoor	☐ Indoor	Both
Did your pets have contact with dead animal did they catch animals and/or bring carcasse						r example,	
	☐ Yes	s					
	If yes, v	vhat type o	of animal	(s)?			
18. Did you mow any grass in during the last 3 months?  Yes No (if no, go to question 19)							
	If yes, v ☐ Wor	where did y		? □Both			
Please indicate what type of mower you used (select all that Riding Mower Push Mower				ect all that ap	ply):		
	Did you	_	the mowe	er without	a mower bag	to collect clip	pings?

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Select all that apply.  Roadside mowing Visitor Center Housing/Administration/Ma Entrance area Other (please specify):	
-	activities you performed during the last 3 rmed while working at Devils Tower, at
a) Collecting animal carcasses	b) Weed whacking
☐ Yes ☐ No	☐ Yes ☐ No
If yes: ☐Work ☐ Home ☐ Both	If yes: ☐Work ☐ Home ☐ Both
c) Raking grass clippings	d) Using a chainsaw
☐ Yes ☐ No	☐ Yes ☐ No
If yes: ☐Work ☐ Home ☐ Both	If yes: Work Home Both
e) Construction	f) Gardening
☐ Yes ☐ No	☐ Yes ☐ No
If yes: ☐Work ☐ Home ☐ Both	If yes: ☐Work ☐ Home ☐ Both
g) Mulching	h) Tree work (pruning, trimming)
☐ Yes ☐ No	☐ Yes ☐ No
If yes: ☐Work ☐ Home ☐ Both	If yes: ☐Work ☐ Home ☐ Both
i) Brush-cutting	j) Using a powered blower
☐ Yes ☐ No	☐ Yes ☐ No
If yes: ☐Work ☐ Home ☐ Both	If yes: ☐Work ☐ Home ☐ Both

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k) Invasive plant management	I) Work with hands in soil			
☐ Yes ☐ No	☐ Yes ☐ No			
If yes: ☐Work ☐ Home ☐ Both	If yes: ☐Work ☐ Home ☐ Both			
m) Hosing off outdoor structures or surfaces	n) Cleaning off mowers/lawn equipment			
☐ Yes ☐ No	☐ Yes ☐ No			
If yes: ☐Work ☐ Home ☐ Both	If yes: ☐Work ☐ Home ☐ Both			
	If yes, did you ever clean equipment with a hose?			
<ul> <li>q) Using powered digging or earth-moving equipment (for example, auger or tractor)</li> <li>Yes</li> <li>No</li> </ul>				
If yes: Work Home Both				
20. Do you recall mowing or weed-whacking over any dead animal or their remains during the last 3 months?  Yes No (if no, go to question 20)				
If yes, where did this occur?				
21. Do you recall seeing dead animals on your home property during the last 3 months?				
<ul><li>☐ Yes</li><li>☐ No (if no, go to question 21)</li><li>☐ Not applicable – I've been staying in Park housing</li></ul>				
If yes, what type of animals did	I you see?			

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22. Did you hunt during the past 3 months?  Yes No (if no, go to question 22)	
If yes, in what state(s) did you hunt?	
If yes, what species did you hunt?	
Did you skin/process any of the animals that you hu  Yes No	nted?
If yes, did you wear gloves when you skinned/proce.  Yes No	ssed these animals?
23. In the past 3 months, how many ticks have you found craw or body?	rling on your clothing
24. In the past 3 months, how many ticks have you found attac	ched to your skin?
25. What kind of tick(s) were attached? Please see pictures on all that apply. Skip this question if no ticks were attached to	
☐ Wood Tick ☐ Brown Dog Tick ☐ Other	Don't know
26. In the past 3 months, do you recall being bitten by any of the Deerflies Yes No Horseflies Yes No Other biting flies Yes No Fleas Yes No Midges/No-see-ums Yes No Mosquitoes Yes No	nese types of insects?
Protective Measures	
27. In the past 3 months, how often have you worn a mask or covering while performing outdoor work?	other type of face-
Always Sometimes Never Not applicable – I don't perform these activities If never or not applicable, go to question 27.	

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If you did wear a face-covering, what did you wear? Simple dust mask N-95 Bandana Other(specify):		
During which activities did you wear the face-covering (select all that apply)?  Mowing Gardening Brush-cutting Handling dead animals Handling live animals Other (please specify):		
28. In the past 3 months, how often have you worn gloves while handling animals?		
<ul><li>☐ Always</li><li>☐ Sometimes</li><li>☐ Never</li><li>☐ Not applicable – I don't perform these activities</li></ul>		
29. In the past 3 months, how often have you worn gloves while handling soil or soiled equipment?		
<ul><li>☐ Always</li><li>☐ Sometimes</li><li>☐ Never</li><li>☐ Not applicable – I don't perform these activities</li></ul>		
30. In the past 3 months, how often did you use insect/tick repellent while outdoors?  Always Sometimes Never (if never, go to question 29)		
If you have used repellent, where did you use it?  Work Home Both		
31. Do you have clothes treated with insect repellent/insecticide (e.g. permethrin)?  YesNo (if no, go to question 30)		
If yes, how often do you wear the treated clothes while outdoors?  Always Sometimes Never		
If yes, do you wear the treated clothes at:  Work Home Both		
32. In the past 3 months, have you done any of the following to protect yourself from insect bites and ticks? (check all that apply)		
Wore long pants Wore long sleeves Always Sometimes Never		

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33. What do you use most often to clean your hands?	
Soap and water Alcohol-based hand gel Other (please specify):	
34. Please indicate how often you clean your hands in the follow situations don't apply to you, please check N/A (not applicate	_
After completing outdoor work  After touching live animals  After touching dead animals  Before eating or drinking  Before smoking  Always  Always  Sometime  Always  Sometime  Always  Sometime  Always  Sometime	es Never N/A es Never N/A es Never
35. Are there situations at work when you would like to wash you unable to?  ☐ Yes ☐ No	our hands but are
If yes, please describe these situations:	
<del></del>	
36. Did you change the protective measures you took while work that there was tularemia in animals at DETO?  ☐ Yes ☐ No (if no, go to question 35)	rking after learning
If yes, what changes did you make? (check all that apply)  Wearing a mask more often during mowing and othe  Before mowing, checking the area to be mowed for of  Stopped mowing areas with tall grass or previously used with the area to be mowed for of  Wearing gloves more often when working with animal lincreased use of insect/tick repellent  Taking more precautions to prevent insect and tick be long clothing, tucking pants into socks, and per Cleaning hands more frequently  Other (please specify):	dead or sick animals unmowed areas als/animal habitats ites, such as wearing
What influenced you to change the protective measures you National Park Service educational materials Supervisor recommendation Colleagues taking these protective measures All-employee emails News reports Other (please specify):	u use?

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<ul> <li>37. If you did not change your protective measures after learning there was tularemia in animals at DETO, why not? (Skip this question if answer to 34 was yes).    I was already taking protective measures   I didn't know there was tularemia at DETO   I didn't know what protective measures to take   I don't think these protective measures are effective   I didn't have access to the equipment needed, such as gloves and insect repellent   I didn't have access to hand-cleaning supplies   Other (please specify):</li> </ul>
Health History
38. Has a doctor ever told you that you had tularemia? Yes No
If yes, approximately what month and year?
39. Have you been diagnosed with pneumonia in the past 3 years?   Yes   No
If yes, approximately what month and year?
Were you hospitalized for the pneumonia?
Did you take an antibiotic for the pneumonia?
40. Have you had a festering sore on your skin that was not diagnosed in the past 3 years?  Yes No (if no, go to question 39)  If yes, approximately what month and year?
Where was the sore located?  Hands/Arms Feet/Legs Abdomen/Chest Back Other (specify)

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41. Did you have an illness that included a fever during this summer?  Yes No (if no, go to question 40)				
	If yes, what month did the illness start?			
	•	Did you have any of the following symptoms with your fever? Check al that apply:		
		Cough	☐ Muscle Aches	
		Shortness of breath	☐ Night sweats	
		Swollen lymph nodes	Conjunctivitis/Pink eye	
		Chills	☐ Sore throat	
		Other (please specify):		
	Did a doctor give you a diagnosis for this illness? Yes No If yes, what was the diagnosis? Yes Yes No Were you hospitalized for this illness? Yes No			
	Did you take antibiotics for this illness?			
42. Do yo		ke cigarettes? ′es □No		
	If yes, how many packs per day?			

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Thank you for your participation in this study!

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Wood Tick



Brown Dog Tick