Survey of NJ Local and County Public Health Agencies Regarding
Tick and Tick-borne Disease Management
Form Approved OMB Centrol No.: 0920-1150 Expiration date: 09/30/2022
New Jersey is routinely among the top three states with respect to annual Lyme disease (LD) case reporting. In addition to LD, the blacklegged tick, Ixodes scapularis, is the known vector of six other human pathogens. Other human-biting tick vectors in New Jersey include the lone star tick, Imblyoman americanum, and the American dog tick, Permacenter variabilis, and the invasive Asian longhorned tick, Imparayalis logicornis, was recently identified in the state. The high incidence rates for LD and other tick-borne diseases (TBD), combined with a well-established public health community, make New Jersey an ideal place to conduct this survey.
Your responses will serve to identify the current level of engagement in ticks/tick-borne disease-related activities within the state, the level of interest in and capability of assuming the responsibility for a tick/tick-borne disease management program, what that tick/tick-borne disease program would look like, what it would cost, and identifying any constraints or roadblocks to establishing such a tick/tick-borne disease management program.
The survey should take about 20 minutes to complete. Your participation in this survey is voluntary. You may refuse to answer any question and can stop the survey at your discretion. Your responses will remain anonymous and your participation will remain confidential.
1. How would you describe your agency?
O local health department
ounty health department
regional health department
other (please specify)

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2. How many full-time staff does your agency employ? 📿	
○ fewer than 5	
○ 5 to 10	
○ 11 to 20	
omore than 20	
3. Please describe the geographical area covered by your agency 🔽	
o single municipality	
O multiple municipalities	
○ county-wide	
Other (please specify)	
4. Considering the primary public health challenges/priorities for which your agency is responsible in a given year, where would you place ticks/tick-borne disease?	
○ within the top 5	
within the top 10	
within the top 20	
ostrictly a seasonal priority	
Other (please specify)	

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5. What proportion of your agency's total effort is devoted to tick-borne disease?	
O less than 5%	
O 5-10%	
O 11-20%	
O greater than 20%	
6. Is the time devoted to ticks/tick-borne disease activities uniform throughout the year or seasonal? (please check one)	
uniform	
seasonal	
as needed	
7. If your program is seasonal, in which seasons is it most active? (please check all that apply)	
January-March	
April-June	
☐ July-September	
☐ October-December	

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8. In what way does your agency respond to tick/tick-b	orne disease? (please check all that apply). 🔽
public education (dissemination of educational materials on ticks LD/TBDs)	tick control on public lands
active tick surveillance (collecting ticks in the	tick control on private property
field)	my agency does not have a tick/tick-borne disease program
tick identification services	p g
testing services to identify tick-borne pathogens	
9. If your agency does not have a tick/tick-borne diseas	ses program, why not? (please check all that apply)
☐ few Lyme disease or other tick-borne disease cases within our jurisdiction	lack of personnel trained in tick management
no mandate to address ticks/tick-borne diseases	ticks/tick-borne disease is the responsibility of another agency
☐ lack of public interest	ticks/tick-borne disease is a seasonal concern
lack of funding	that doesn't require dedicated staff/funding
Other (please specify)	
10. In response to the problem of ticks/tick-borne disea	ase, does your agency use: 🖸
staff assigned to solely address the problem	
staff assigned as needed to address public concern	IS .
my agency does not have a tick/tick-borne disease	program
other (please specify)	

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11. Within your agency, who responds to questions abou check all that apply)	ut ticks/tick-borne diseases from the public? (please	
only the Heath Officer or senior staff	clerical staff	
our tick/tick-borne disease expert	my agency does not have a tick/tick-borne	
person on telephone duty for the day	diseases program	
other (please specify)		
12. If your agency's tick/tick-borne disease response inc	cludes public education, how do you distribute	
information? (please check all that apply)		
	consultation with the medical community	
information? (please check all that apply)	consultation with the medical community my agency does not provide public education on	
information? (please check all that apply)	consultation with the medical community	
information? (please check all that apply)	consultation with the medical community my agency does not provide public education on	
information? (please check all that apply)	consultation with the medical community my agency does not provide public education on	

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13. If your agency's tick/tick-borne disease response includes public education, what subjects are included in distributed materials (please check all that apply)			
description of signs/symptoms and treatment of tick-borne diseases identification of tick habitats tick encounter prevention methods (avoidance of tick habitat, tick checks, repellent use, dressing appropriately) tick biology, behavior, and ecology other (please specify) 14. If your agency's tick/tick-borne disease program has you update the information?	tick control methods pesticide recommendations repellent recommendations my agency does not provide public education on ticks/tick-borne disease		
oevery year	O more than 5 years		
every two years	o as necessary		
Obetween 3-5 years	my agency does not provide public education on ticks/tick-borne disease		
other (please specify)			

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15. Does your agency maintain its own ticks/tick-borne disease website or other web content, or do you link to another site?		
owe maintain our own web content		
we link to another web content		
Oboth		
neither		
16. From what sources does your agency routinely obtain information about ticks/tick-borne diseases? (please check all that apply)		
medical and scientific journals	professional conferences/meetings	
П ијрон	Lyme disease support groups/organizations	
CDC, NIH, or other federal government sources	news or social media	
universities/colleges	my agency does not provide public education on ticks/tick-borne disease	
cooperative extension service	ticks/tick-borne disease	
other (please specify)		

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	17. How does your agency update staff on new information about ticks/tick-borne disease risk? (please check all that apply)		
	in-house training by our tick/tick-borne disease or outside expert		
	attending professional meetings or training sessions		
	periodic distribution of technical information		
	my agency does not have a tick/tick-borne disease p	orogram	
	other (please specify)		
,	IB. Does your agency perform active tick surveillance (co	ollection of ticks from the environment)? 🔽	
	19. If your agency performs active tick surveillance, how surveyed within a 12 month period?	many sites within your jurisdiction are routinely	
	○ fewer than 5	omore than 20	
	○ 5 to 10	ollection performed as needed with no routine	
	○ 11 to 20	surveillance my agency does not perform active tick surveillance	

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20	D. If your agency performs active tick surveillance, how often are these sites surveyed? 💟
	once per year
	twice per year
	three or more times per year
	ocllections performed as needed with no routine surveillance
	my agency does not perform active tick surveillance
21	. If your agency performs active tick surveillance, what tick stages are targeted? (please check all that apply)
	nymph
	adult
	□ larva
	my agency does not perform active tick surveillance
22	2. If your agency performs active tick surveillance, what are the goals? (please check all that apply)
	determine geographical distribution of ticks
	determine changes in tick populations over time as a measure of disease transmission risk
	identify new tick species
	determine presence and distribution of tick-borne pathogens
	my agency does not perform active tick surveillance
	other (please specify)

23. How familiar are you w	ith each of the following tick	control methods?	
	Very familiar	Somewhat familiar	Unfamiliar
Synthetic pesticides	0	0	0
Natural product pesticides	0	0	0
Entomopathogenic fungal pesticides	0	0	0
Thermacell or Damminix Tick Tubes	0	0	0
Select TCS rodent bait boxes	0	0	0
4-Poster deer treatment device	0	0	0
Deer population reduction	0	0	0
Installation of deer fencing	0	0	0
Landscape management	0	0	0
that apply)	s public information on tick o	control, what methods are co	
application of natural		deer population reduct	
friendly) pesticides		installation of deer fen	cing
application of entomo		landscape managemen	nt
deployment of Therm Tubes		my agency does not off guidance/recommenda	
deployment of Select	TCS rodent bait boxes		

25. If your agency does not provide information about tick contro	l, why not?(please check all that apply)
concerns about legal liability from providing the information	
lack of expertise regarding tick control methods/effectiveness	ş
recommending tick control is the responsibility of other agen	cies
my agency does not have a ticks/tick-borne disease program	
26. Assuming information was readily available on the various tic select methods for inclusion in an integrated tick management pro-	
■ • efficacy	
■ cost	
ease of application or deployment	
environmental considerations	
27. Does your agency provide actual tick control services within y	our jurisdiction?
Yes	
□No	
28. If your agency provides actual tick control services within you ticks?	r jurisdiction, where does your agency control
public lands only	
private property only	
both public and private property	
my agency does not provide tick control services	

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29. If your agency does not provide actual tick control services within your jurisdiction, why not? (please check all that apply)		
insufficient technical expertise/experience	logistically difficult	
lack of public support/adverse public perceptions	too costly	
too many legal issues	vector control should be the responsibility of another agency	
other (please specify)		
30. Are you aware of any agency in New Jersey that peripopulations, pathogen infection prevalence or weather transmission risk? Yes No	patterns as a measure of tick/tick-borne disease	
31. If you answered 'yes' to the previous question, what apply):	agency provides the information? (please check all that	
NJDOH	university/College	
NJDEP	Cooperative Extension Service	
NJDOA	not aware of any agency	
other (please specify)		

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32. If you were provided with reliable informatic possible increase or decrease in the risk of enco you to operationally change your public health	ountering ticks or acquiring a tic		
	Change Messaging	No Change	
Tick populations within your jurisdictions increasing/decreasing	0	0	
Pathogen infection rates of tick populations within your jurisdictions increasing/decreasing	0	0	
Forecasted weather conditions within your jurisdiction increasing/decreasing tick populations/activity	0	0	
Information that certain geographic areas within your jurisdiction might pose higher/lower risk of encountering ticks or acquiring a tick-borne disease	0	0	
3. If you checked 'Change Messaging' for any phanging your message regarding ticks/tick-bor frequently update ticks/tick borne-disease send filers home with students as risk chan	ne diseases?(please check all th		
O develop risk update strategy through local	media (newspapers, radio)		
Other (please specify)			

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34. If you checked 'No Change' for any parameter in the previous question , what constraints might prevent rapidly updating your messaging regarding ticks/tick-borne disease risks? (please check all that apply)
no reliable mechanism available to routinely contact the majority of constituents
no resources available to routinely contact the majority of constituents
ticks/tick-borne diseases are not a significant problem in my jurisdiction
messaging changes are not necessary, tick/tick-borne disease risk messaging should remain consistent
concern over liability for incorrect information
other (please specify)
35. If your agency was given adequate resources, how interested would you be in creating or expanding your current program to address ticks/tick-borne diseases?
very interested (ticks are a major problem/concern in our jurisdiction)
o moderately interested
O not interested
36. How would you rate your agency's current capacity to create or expand a program to address ticks/tick-borne diseases? 🛜
high (we have the tools, we have the talent)
moderate (staff will require some training)
O low (no trained staff)

		agency from creating and su se within your jurisdiction? (
	Major Barrier	Minor Barrier	Not a Barrier
little public support	0	0	0
absence of sustainable funding	0	0	0
lack of trained personnel	0	0	0
lack of facilities/equipment	0	0	0
competing program priorities	0	0	0
legal constraints on managing ticks on private properties	0	0	0
lack of best management practices for tick control	0	0	0
lack of standardized tick surveillance across agencies	0	0	0
technical issues regarding efficacy of tick control measures	0	0	0
absence of state and/or federal oversight	0	0	0
my agency is not interested in creating a tick/tick- borne disease program	0	0	0
other (please specify)			

38. If you were cre- components would likely to include)	d you include?	nd tick-borne diseas ? (please check and	se management pr rate all that apply	ogram within your v: 1 = least likely to	agency, what include, 5 = most
	1	2	3	4	5
public education	0	0	0	0	0
detect the presence of vector ticks by species	0	0	0	0	0
map presence and abundance of ticks by species	0	0	0	0	0
monitor current and future distribution of ticks	0	0	0	0	0
monitor emergence of new tick species	0	0	0	0	0
detect the presence and prevalence of tick-borne pathogens in ticks	0	0	0	0	0
assess and map the risk of tick-borne disease to humans	0	0	0	0	0
provide tick identification services to the public	0	0	0	0	0
provide testing services to identify tick- borne pathogens to the public	0	0	0	0	0
conduct tick surveys/risk assessment on public lands	0	0	0	0	0
conduct tick surveys/risk assessment on private properties	0	0	0	0	0
conduct tick control activities on public lands	0	0	0	0	0
conduct tick control activities on private properties	0	0	0	0	0
my agency is not interested in creating a tick/tick- borne disease program	0	O lude (alease specific	0	0	0

other components you would include (please specify)

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,	39. If you were considering a public education progra	m, what information would it include? (please check	
	description of signs/symptoms and treatment of ticks/tick-borne diseases identification of tick habitats tick bite prevention methods (avoidance of tick habitat, tick checks, repellent use, dressing appropriately) tick biology, behavior, and ecology other (please specify)	control methods control method	
	provision of information via website town meetings other (please specify)	my agency is not interested in creating a tick/tick-borne disease program	
	41. Assuming your agency expanded its response to to include performing tick control or assisting with tick yes, on public property only yes, on public and private property no, tick control would not be included my agency is not interested in creating or expand	control? 🖸	

42. If your agency would not consider performing actinot? (please check all that apply)	ual tick control or assisting with tick control, why
technically too difficult	logistically too difficult
public relations nightmare	☐ too costly
too many legal issues	tick control should be the responsible of other agencies
other (please specify)	
43. Using the responses you provided in previous que borne disease management program, what is the app maintaining such a program?	stions regarding creating or expanding a tick/tick-roximate annual budget for establishing and
O Less than \$100,000	○ \$400,000 - \$500,000
O \$100,000 - \$200,000	O more than \$500,000
O \$200,000 - \$300,000	My agency is not interested in creating or
\$300,000 - \$400,000	expanding a tick/tick-borne disease program

44. What is the approdisease?	ximate current annua	al budget for addressing the problem	of ticks/tick-borne
C Less than \$100,0	00	\$400,000 - \$500,000	
O \$100,000 - \$200	000	O More than \$500,000	
\$200,000 - \$300	,000	 My agency does not hat disease program 	ve a tick/tick-borne
\$300,000 - \$400	,000	disease program	
45. What in your opin tick and tick-borne d		e level of government to assume responses?	onsibility for the following
	Local/County	Region (multiple counties)	State
provide technical advice to homeowners on management of their property	0	0	0
active tick surveillance	0	0	0
tick identification services	0	0	0
testing services to identify tick- borne pathogens	0	0	0
tick control on public lands	0	0	0
tick control on private property	0	0	0
other activities you w	ould include (please s	pecify)	

46. May we contact y	you for clarification or with any additional questions? 🔽		
Name			
Name of agency			
Telephone number			
Email address			
Public reporting burden of this collection of information is estimated to average 20 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information and a gency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OME Control Number. Send comments regarding burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to CDC/ATSDR Reports Clearance Officer, 1600 Clifton Road NE, MS D-74, Atlanta Georgia 30333, ATTN: PRA 0920-1150.			
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