A Survey of NJ Mosquito Control Agencies Regarding the Management of Ticks and Tick-born Disease

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, *Amblyomma americanum*, and the American dog tick, *Dermacenter variabilis*, and the invasive Asian longhorned tick, *Haemaphysalis logicornis*, was recently identified in the state. The high incidence rates for LD and other tick-borne diseases (TBD), combined with a well-established mosquito control 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/organization?	
Independent agency/organization	
Department/division within a larger agency/organization (e.g	., health or public works dept.)
Other (please specify)	
2. If your agency performs active tick surveillance, how	v many sites within your jurisdiction are routinely
surveyed within a 12 month period?	
fewer than 5	more than 20
5 to 10	collection performed as needed with no routine surveillance
11 to 20	my agency does not perform tick surveillance
3. What is your responsibility within your agency/orgar	nization for vector (mosquito and/or tick) surveillance
and/or control activities (select all that apply):	
I am directly involved in vector surveillance/control activities	
I supervise others who are directly involved in vector surveill	ance/control activities
I am able to comment on the operation of vector surveillance	e/control programs

fewer than 5	
5 to 10	
11 to 20	
more than 20	
5. If you employ seasonal staff, on average how many does your agency employ?	
fewer than 5	
5 to 10	
11 to 20	
more than 20	
6. What proportion of your agency's total annual effort is devoted to ticks/tick-borne disease?	
less than 5%	
5 to 10%	
11 to 20%	
greater than 20%	
7. Is the time devoted to ticks/tick-borne disease activities uniform throughout the year or seasonal? (ple check one) Uniform	ase
Seasonal	
Seasonal	
As needed	
As needed	
As needed 8. If your program is seasonal, in which seasons is it most active? (please check all that apply)	
8. If your program is seasonal, in which seasons is it most active? (please check all that apply) January-March	
8. If your program is seasonal, in which seasons is it most active? (please check all that apply) January-March	
8. If your program is seasonal, in which seasons is it most active? (please check all that apply) January-March April-June	
8. If your program is seasonal, in which seasons is it most active? (please check all that apply) January-March April-June July-September	
8. 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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nublic outrooch (discomination of advectional masterials	tick control on public lands
public outreach (dissemination of educational materials o ticks and/or tick-borne disease to the general public)	tick control on public lands
was side to shaired orbites to be supposed on tiels	tick control on private property
provide technical advice to homeowners on tick management on their property	educate field inspectors on tick bite prevention
active tick surveillance (collecting ticks in the field)	my agency does not have a tick/tick-borne disease pro
tick identification services	
testing services to identify tick-borne pathogens in ticks	
Other (please specify)	
) X	
0. If your agency does not have a tick/tick-borne di	iseases program, why not? (please check all that app
few Lyme disease or other tick-borne disease cases with	in ack of personnel trained in tick management
our jurisdiction	ticks/tick-borne disease is the responsibility of another
no mandate to address ticks/tick-borne diseases	agency
lack of public interest	ticks/tick-borne disease is a seasonal concern that doe
lack of funding	require dedicated staff/funding
Other (please specify)	U'x
1. In response to the problem of ticks/tick-borne di	sease, does your agency use:
staff assigned to solely address the problem	am
staff assigned as needed to address public concerns	
my agency does not have a tick/tick-borne disease progr	am
Other (please specify)	`(),

	only senior staff	clerical staff
	our tick/tick-borne disease expert	my agency does not have a tick/tick-borne diseases
	person on telephone duty for the day	program
	Other (please specify)	
	Other (prease specify)	
	A	
	If your agency's tick/tick-borne disease response	includes public education, how do you distribute
nfor	rmation? (please check all that apply)	
	hand-out or mailing of brochures and pamphlets	consultation with the medical community
	provision of information via website	my agency does not provide public education on ticks.
	public presentations (e.g., school assemblies, town	borne disease
	meetings)	
	Other (please specify)	
		includes public education, what subjects are includ
	ributed materials (please check all that apply) description of signs/symptoms and treatment of tick-borne	includes public education, what subjects are included tick control methods
	ributed materials (please check all that apply)	0-
	ributed materials (please check all that apply) description of signs/symptoms and treatment of tick-borne	tick control methods pesticide recommendations
	ributed 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	tick control methods pesticide recommendations repellent recommendations
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	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	pesticide recommendations repellent recommendations my agency does not provide public education on ticks.

every year	more than 5 years
every two years	as necessary
between 3-5 years	my agency does not provide public education on ticks/tick-borne disease
other (please specify)	
	cks/tick-borne disease website or other web content, or do you link to
nother site?	
we maintain our own web content	
we link to another web content	
both	
neither	
7. From what courses done your agency	moutingly abtain information about ticke/tick borne diagona 2.2 (places
.7. From what sources does your agency heck all that apply)	routinely obtain information about ticks/tick-borne diseases? (please
medical and scientific journals	professional conferences/meetings
NJDOH	Lyme disease support groups/organizations
CDC, NIH, or other federal government sour	ces news or social media
CDC, NIH, or other federal government sour universities/colleges	news or social media my agency does not provide public education on ticks/tick-
universities/colleges	my agency does not provide public education on ticks/tick-
universities/colleges cooperative extension service	my agency does not provide public education on ticks/tick-
universities/colleges cooperative extension service	my agency does not provide public education on ticks/tick-
universities/colleges cooperative extension service other (please specify)	my agency does not provide public education on ticks/tick-borne disease
universities/colleges cooperative extension service other (please specify) 8. How does your agency update staff or	my agency does not provide public education on ticks/tick-borne disease
universities/colleges cooperative extension service other (please specify) 8. How does your agency update staff or	my agency does not provide public education on ticks/tick-borne disease n new information about ticks/tick-borne disease risk? (please check
universities/colleges cooperative extension service other (please specify) 8. How does your agency update staff or all that apply)	my agency does not provide public education on ticks/tick-borne disease n new information about ticks/tick-borne disease risk? (please check se or outside expert
universities/colleges cooperative extension service other (please specify) 8. How does your agency update staff or all that apply) in-house training by our tick/tick-borne disease	my agency does not provide public education on ticks/tick-borne disease n new information about ticks/tick-borne disease risk? (please check se or outside expert
universities/colleges cooperative extension service other (please specify) 8. How does your agency update staff or all that apply) in-house training by our tick/tick-borne diseated attending professional meetings or training services.	my agency does not provide public education on ticks/tick-borne disease n new information about ticks/tick-borne disease risk? (please check se or outside expert essions
universities/colleges cooperative extension service other (please specify) 8. How does your agency update staff or all that apply) in-house training by our tick/tick-borne disease attending professional meetings or training some periodic distribution of technical information	my agency does not provide public education on ticks/tick-borne disease n new information about ticks/tick-borne disease risk? (please check se or outside expert essions

	Yes	
	No	
20. l	f your agency performs active tick surveillar	nce, how often are these sites surveyed?
\bigcirc	once per year	
	twice per year	
\bigcirc	three or more times per year	
	collections performed as needed with no routine sur	veillance
	my agency does not perform active tick surveillance	
21. l	f your agency performs active tick surveillar	nce, what tick stages are targeted? (please check all that
apply	y)	
	Nymph	
	Adult	
	Larva	
	my agency does not perform active tick surveillance	/
	determine geographical distribution of ticks determine changes in tick populations over time as a	nce, what are the goals? (please check all that apply) a measure of disease transmission risk
	identify new tick species	
	identify new tick species determine presence and distribution of tick-borne pa	uthogens
	determine presence and distribution of tick-borne pa	
	determine presence and distribution of tick-borne pa my agency does not perform active tick surveillance	
	determine presence and distribution of tick-borne pa my agency does not perform active tick surveillance	
	determine presence and distribution of tick-borne particle my agency does not perform active tick surveillance other (please specify)	
	determine presence and distribution of tick-borne parmy agency does not perform active tick surveillance other (please specify) f your agency performs active tick surveillar	
	determine presence and distribution of tick-borne parmy agency does not perform active tick surveillance other (please specify) f your agency performs active tick surveillar eyed within a 12 month period?	nce, how many sites within your jurisdiction are routinely

24. 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
collections performed as needed with no routine surveillance
my agency does not perform active tick surveillance
25. 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
26. 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)

	Very familiar	Somewhat familiar	Unfamiliar
Synthetic pesticides	0	0	0
Natural product pesticides	\bigcirc	\circ	\bigcirc
Entomopathogenic fungal pesticides	0	\circ	0
Thermacell or Damminix Tick Tubes	\bigcirc	\bigcirc	\bigcirc
Select TCS rodent bait	0	\circ	0
4-Poster deer treatment device		\circ	\circ
Deer population reduction	X 0	0	0
Installation of deer fencing		0	\circ
Landscape management			
that apply) application of convention	onal synthetic pesticides	deployment of 4-Poste	er deer bait stations
that apply) application of convention application of natural, p application of entomop	onal synthetic pesticides plant-derived (eco-friendly) pesti pathogenic fungi cell or Damminix Tick Tubes	deployment of 4-Poste deer population reduction installation of deer fen landscape manageme	er deer bait stations tion cing
that apply) application of convention application of natural, p application of entomop deployment of Therma deployment of Select T	onal synthetic pesticides plant-derived (eco-friendly) pesticathogenic fungicell or Damminix Tick Tubes TCS rodent bait boxes	deployment of 4-Poster deer population reduction installation of deer fem landscape manageme my agency does not of tick control	er deer bait stations tion cing nt ffer guidance/recommendations o
that apply) application of convention application of natural, processing application of entomore deployment of Thermande deployment of Select Total	onal synthetic pesticides plant-derived (eco-friendly) pesticathogenic fungicell or Damminix Tick Tubes TCS rodent bait boxes	deployment of 4-Poster deer population reduction installation of deer fen landscape manageme my agency does not of tick control	er deer bait stations tion cing nt ffer guidance/recommendations o
that apply) application of convention application of natural, processed application of entomore deployment of Thermandellow deployment of Select Total 29. If your agency does concerns about legal line.	onal synthetic pesticides plant-derived (eco-friendly) pesticathogenic fungicell or Damminix Tick Tubes TCS rodent bait boxes not provide information al	deployment of 4-Poster deer population reduction installation of deer fem landscape manageme my agency does not on tick control	er deer bait stations tion cing nt ffer guidance/recommendations of ease check all that apply)
that apply) application of convention application of natural, processed application of entomore deployment of Therman deployment of Select Total 29. If your agency does concerns about legal in lack of expertise regard	onal synthetic pesticides plant-derived (eco-friendly) pesticathogenic fungicell or Damminix Tick Tubes FCS rodent bait boxes not provide information all ability from providing the information and all and the content of the cont	deployment of 4-Poste deer population reduct installation of deer fen landscape manageme my agency does not of tick control	er deer bait stations tion cing nt ffer guidance/recommendations o
that apply) application of convention application of natural, processed application of entomore deployment of Therman deployment of Select Total Se	onal synthetic pesticides plant-derived (eco-friendly) pesticathogenic fungi cell or Damminix Tick Tubes TCS rodent bait boxes not provide information all ability from providing the information ding tick control methods/effective	deployment of 4-Poste deer population reduction installation of deer fen landscape manageme my agency does not of tick control Dout tick control, why not?(pleation veness agencies	er deer bait stations tion cing nt ffer guidance/recommendations of ease check all that apply)
that apply) application of convention application of natural, processed application of entomore deployment of Therman deployment of Select Total Se	onal synthetic pesticides clant-derived (eco-friendly) pesticathogenic fungi cell or Damminix Tick Tubes TCS rodent bait boxes not provide information all ability from providing the information gives the control methods/effective to the responsibility of other	deployment of 4-Poste deer population reduction installation of deer fen landscape manageme my agency does not of tick control Dout tick control, why not?(pleation veness agencies	er deer bait stations tion cing nt ffer guidance/recommendations of ease check all that apply)
that apply) application of convention application of natural, processed application of entomore deployment of Therman deployment of Select Total Se	onal synthetic pesticides clant-derived (eco-friendly) pesticathogenic fungi cell or Damminix Tick Tubes TCS rodent bait boxes not provide information all ability from providing the information gives the control methods/effective to the responsibility of other	deployment of 4-Poste deer population reduction installation of deer fen landscape manageme my agency does not of tick control Dout tick control, why not?(pleation veness agencies	er deer bait stations tion cing nt ffer guidance/recommendations of ease check all that apply)

lect methods for inclusion in an integrated tick mana	Agement program: (please rank war 1 being ingliest)
≣	
=	
efficacy	
cost	
ease of application or deployment	
environmental considerations	
31. Does your agency provide actual tick control se	ervices within your jurisdiction?
Yes	
No	
	G×.
32. If your agency provides actual tick control servi	ces within your jurisdiction, where does your agency co
32. If your agency provides actual tick control servicticks?	ices within your jurisdiction, where does your agency co
32. If your agency provides actual tick control service ticks? public lands only	ces within your jurisdiction, where does your agency co
32. If your agency provides actual tick control servicticks?	
32. If your agency provides actual tick control service ticks? public lands only	
32. If your agency provides actual tick control services? public lands only private property only	
32. If your agency provides actual tick control services? public lands only private property only both public and private property	ces within your jurisdiction, where does your agency co
32. If your agency provides actual tick control services? public lands only private property only both public and private property my agency does not provide tick control services 33. If your agency does not provide actual tick control	
32. If your agency provides actual tick control services? public lands only private property only both public and private property my agency does not provide tick control services 33. If your agency does not provide actual tick control that apply)	trol services within your jurisdiction, why not? (please ch
32. If your agency provides actual tick control services? public lands only private property only both public and private property my agency does not provide tick control services 33. If your agency does not provide actual tick control	
32. If your agency provides actual tick control services? public lands only private property only both public and private property my agency does not provide tick control services 33. If your agency does not provide actual tick control that apply)	trol services within your jurisdiction, why not? (please choo costly vector control should be the responsibility of another
32. If your agency provides actual tick control servicticks? public lands only private property only both public and private property my agency does not provide tick control services 33. If your agency does not provide actual tick contall that apply) insufficient technical expertise/experience	trol services within your jurisdiction, why not? (please choose too costly vector control should be the responsibility of another agency
32. If your agency provides actual tick control servicticks? public lands only private property only both public and private property my agency does not provide tick control services 33. If your agency does not provide actual tick contall that apply) insufficient technical expertise/experience lack of public support/adverse public perceptions	trol services within your jurisdiction, why not? (please choose too costly vector control should be the responsibility of another
32. If your agency provides actual tick control servicticks? public lands only private property only both public and private property my agency does not provide tick control services 33. If your agency does not provide actual tick control all that apply) insufficient technical expertise/experience lack of public support/adverse public perceptions too many legal issues	trol services within your jurisdiction, why not? (please choice too costly vector control should be the responsibility of another agency

local or county tax-based funding	state funded through a grant(s)
local or county funded through a grant(s)	federal cooperative agreement or grant funding
other local or county funding	my agency has not conducted tick surveillance/control
state funded through appropriations	activities
other (please specify)	
35. Were the tick surveillance/control activities	s conducted with other partners? (please check all that apply
	, and the same and
academic institution	
state agency	
other local or county agency	
outside contractors (e.g. pest control firms)	
my agency has not conducted tick surveillance/con	ntrol activities
other (please specify)	/ *
26. If your agapty was given adequate recour	and how interacted would you be in execting or expending y
current program to address ticks/tick-borne dis	ces, how interested would you be in creating or expanding y seases?
very interested (ticks are a major problem/concern	
moderately interested	
not interested	
37. 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)	
low (no trained staff)	

	Major Barrier	Minor Barrier	Not a Barrier
ittle public support			
absence of sustainable funding	\bigcirc		
ack of trained personnel			
ack of facilities/equipment	\bigcirc		
unreasonable public expectations of controlling ticks versus mosquitoes			
work-related conflicts regarding seasonality of ticks versus mosquitoes			
legal constraints on managing ticks on private properties	GA,	0	
lack of best management practices for tick control	0	• 0	
lack of standardized tick surveillance across agencies	0	Se	
technical issues regarding efficacy of tick control measures	\circ		
absence of state and/or federal oversight	0	0	
my agency is not interested in creating a tick/tick-borne disease program			
her (please specify)			

	1	2	3	4	5
oublic education	0	\bigcirc		\bigcirc	
detect the presence of vector ticks by species					
map presence and abundance of ticks by species	0	0	0	0	0
monitor current and future distribution of ticks		\bigcirc	\bigcirc	\bigcirc	\bigcirc
monitor emergence of new tick species		0	\circ	\circ	0
detect the presence and prevalence of tick-borne pathogens in ticks	0	0	\circ	0	\circ
assess and map the risk of tick-borne disease to numans	0		0	0	0
provide tick identification services to the public	\bigcirc		• 0	\bigcirc	\bigcirc
provide testing services to identify tick-borne pathogens to the public		0	S&	0	\circ
conduct tick surveys/risk assessment on public ands	\bigcirc	\bigcirc			\bigcirc
conduct tick surveys/risk assessment on private properties		\circ	0	(9x	0
conduct tick control activities on public lands	\bigcirc	\bigcirc	\bigcirc		0
conduct tick control activities on private properties	\circ	\circ	\circ	0	1/3
my agency is not nterested in creating a cick/tick-borne disease orogram	\bigcirc	\bigcirc		\circ	0
ther (please specify)					

hat apply) description of signs/symptoms and treatmen	ent of ticks/tick- tick control methods
borne diseases	
identification of tick habitats	pesticide recommendations
tick bite prevention methods (avoidance of t	repellent recommendations tick habitat, tick
checks, repellent use, dressing appropriate	(sly) my agency is not interested in creating a tick/tick-borned disease program
tick biology, behavior, and ecology	, s
other (please specify)	
11. If you were considering a public educ	cation program, what methods would you use to disseminate
nformation? (please check all that apply)	
hand-out or mailing of brochures and pamp	ohlets school presentations
provision of information via website	interaction with the medical community
town meetings	my agency is not interested in creating a tick/tick-borned disease program
other (please specify)	
other (please specify)	
other (please specify)	
Assuming your agency expanded its	
Assuming your agency expanded its erforming tick control or assisting with ti	
Assuming your agency expanded its erforming tick control or assisting with tiges, on public property only	
2. Assuming your agency expanded its erforming tick control or assisting with ti yes, on public property only yes, on public and private property	
Assuming your agency expanded its erforming tick control or assisting with tiggs, on public property only	
2. Assuming your agency expanded its erforming tick control or assisting with ti yes, on public property only yes, on public and private property	ick control?
2. Assuming your agency expanded its performing tick control or assisting with time 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 expanding the second se	expanding a tick/tick-borne disease program
2. Assuming your agency expanded its erforming tick control or assisting with ti 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 example.	expanding a tick/tick-borne disease program
2. Assuming your agency expanded its erforming tick control or assisting with ti 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 explease check all that apply)	expanding a tick/tick-borne disease program exforming actual tick control or assisting with tick control, why not
2. Assuming your agency expanded its erforming tick control or assisting with tiges, 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 explease check all that apply) technically too difficult	expanding a tick/tick-borne disease program erforming actual tick control or assisting with tick control, why not
2. Assuming your agency expanded its erforming tick control or assisting with tigges, 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 explease check all that apply)	expanding a tick/tick-borne disease program exforming actual tick control or assisting with tick control, why not
22. Assuming your agency expanded its performing tick control or assisting with tight 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 explease check all that apply)	expanding a tick/tick-borne disease program erforming actual tick control or assisting with tick control, why not
22. Assuming your agency expanded its performing tick control or assisting with tight 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 explease check all that apply) technically too difficult public relations nightmare	expanding a tick/tick-borne disease program erforming actual tick control or assisting with tick control, why not?

a program?			
Less than \$100,000		\$400,000 - \$500,000	
\$100,000 - \$200,000		more than \$500,000	
\$200,000 - \$300,000			ted in creating or expanding a
\$300,000 - \$400,000		tick/tick-borne disease pr	rogram
45. What is the approxima	ate current annual	budget for addressing the problem of	f ticks/tick-borne disease
Less than \$100,000	7	\$400,000 - \$500,000	
\$100,000 - \$200,000		More than \$500,000	
\$200,000 - \$300,000	X		e a tick/tick-borne disease pro
\$300,000 - \$400,000		J , J , ,	,
, +==3,000 \$ 100,000			
	Local/County	Region (multiple counties)	State
	Local/County	Region (multiple counties)	State
rovide technical advice homeowners on		400	
o homeowners on nanagement of their	\circ	U.S.	0
homeowners on	0		0
o homeowners on nanagement of their roperty ctive tick surveillance ck identification	0		0
o homeowners on nanagement of their roperty ctive tick surveillance ck identification ervices	0		0
c homeowners on nanagement of their roperty ctive tick surveillance ck identification ervices esting services to lentify tick-borne	0		0 0
c homeowners on nanagement of their roperty ctive tick surveillance ck identification ervices esting services to lentify tick-borne athogens			0
c homeowners on nanagement of their roperty ctive tick surveillance ck identification ervices esting services to lentify tick-borne			
o homeowners on nanagement of their roperty ctive tick surveillance ck identification ervices esting services to lentify tick-borne athogens ck control on public ands ck control on private			
c homeowners on nanagement of their roperty ctive tick surveillance ck identification ervices esting services to dentify tick-borne athogens ck control on public ands ck control on private roperty			
o homeowners on nanagement of their roperty ctive tick surveillance ck identification ervices esting services to lentify tick-borne athogens ck control on public ands ck control on private	lease specify)		
c homeowners on nanagement of their roperty ctive tick surveillance ck identification ervices esting services to dentify tick-borne athogens ck control on public ands ck control on private roperty	lease specify)		
c homeowners on nanagement of their roperty ctive tick surveillance ck identification ervices esting services to dentify tick-borne athogens ck control on public ands ck control on private roperty	lease specify)		
c homeowners on nanagement of their roperty ctive tick surveillance ck identification ervices esting services to dentify tick-borne athogens ck control on public ands ck control on private roperty	lease specify)		