

INFESTATION

Episode 4: Cities Under Siege

[PIX LOCK SCRIPT- SEAMLESS script as of 7/1/2014]

TIMECODE	STOCK/B-ROLL/ SUPERS/GRAPHICS	NARRATION / INTERVIEW/ACTUALITY
"INFESTATION" Series Opening 30 sec		
"Cities Under Siege" Opening		
10:00:32	Stock footage: termites	INT – MICHELLE CHEUNG They work underground. They work where you can't see them. It's already too late.
10:00:36	Stock footage: mosquitoes, cockroaches, coyote, stretcher	INT – KEVIN TAYLOR: They are very good at transmitting diseases, they kill a lot of people worldwide.
10:00:41	Stock footage: coyotes, kid	INT – SUE REID: My biggest fear is that a small child is gonna be attacked.
10:00:45	Stock footage: bed bugs, rats Recreation: victim and bites	INT – SHARON YOUNGER: I have seen such horror stories it was like I had walked into a Stephen King novel.
10:00:51	Stock footage: rats	INT – BOBBY CORRIGAN: We do not want them in our space it's a war it's a constant war.
10:00:56	B-roll: R.A.T.S in alley	ACTUALITY – R.A.T.S Here here here!
"Infestation" / "Cities Under Siege" Title Card [10:00:59]		
10:01:04	Stock footage: Aerial of city lights at night, sunset, cloud time lapse, time lapse pedestrian crossing and escalator, London tube tunnel, low angle dolly skyscrapers, alley, rats, termite, bed bug, cockroaches, coyote, mosquito, drive by suburban houses, crowded street B-roll: electrical socket, garbage	NARRATION: For the first time in human history more than half of us live in cities. And that number is rising. We think of cities as human places, separate from nature. Built by us for us. But there are other residents here. Moving in the shadows of our sprawling urban landscapes, living in the spaces we can't see. These are the opportunistic invaders. The exploding infestations that have come here to prey on our waste on our structures even on us.
BED BUGS		

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10:01:49	Stock: DDT archival stock, pest control bed bug stock, negative image of bed bug B-roll: child in bed	NARRATION: For fifty years¹ humans thought they had won the war but now one of the world's greatest invaders is back with a vengeance. It inhabits every major city on earth. It lurks waiting to feed on us when we are most vulnerable. When we sleep. It is quite literally the monster under the bed. The tiny elusive and out of control bedbug.
10:02:23	B-roll: Michael at work	INT - MICHAEL GOLDMAN: Bedbugs are the worst pests that the pest management industry has seen in a long time.
10:02:31	Stock: CU of bed bug B-roll: Michael at work	NARRATION: After thirty years in the extermination business pest expert Michael Goldman wasn't prepared for the onslaught of bedbug calls he's had to make.
10:02:42	Stock footage: hotels, movie theatre, library, train station SUPER: MICHAEL GOLDMAN Purity Pest Control	INT - MICHAEL GOLDMAN: We're finding bedbugs everywhere in the city. In apartment buildings in houses in five star hotels, in low end hotels, in movie theaters, libraries, bus stations, trains really anywhere that humans congregate you're gonna find bedbugs.
10:02:59	B-roll: Michael at work	INT - MICHAEL GOLDMAN: Just peel this back. All those black spots are fecal spots and the reason that they're here is because the bedbugs will hide under the seams. There they are. These bedbugs have just fed because they're full of blood so the person who sleeps on this bed would definitely show signs.

¹ http://en.wikipedia.org/wiki/Bed_bug

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10:03:21	B-roll: bed bugs on mattress, Roger Gold hero shot and in lab Stock: negative of bed bug	NARRATION: Bedbugs have been preying on us for thousands², perhaps tens of thousands³ of years. Roger Gold of Texas A & M University would like to see them eradicated once and for all.
10:03:35	Stock: negative of bed bug	INT - ROGER GOLD: Bedbugs feed on human blood they have a piercing sucking mouth part where they have the ability to penetrate the skin of humans and other animals. And to remove the blood and to use that as a source of food.
10:03:52	Stock: negative of bed bug, baby in crib B-roll: close up of bed bug	NARRATION: These tiny vampires are uniquely adapted to find us. Like a shark smelling blood in the water, bedbugs are first drawn to the carbon dioxide we exhale and then our body heat.
10:04:08	B-roll: close up of bed bug, bed bug on skin, on mattress	INT - MICHAEL GOLDMAN: Bedbugs prefer to feed at night. Usually around three, four, five o'clock in the morning. A bedbug will actually anesthetize the skin and then poke a hole through you so you don't really feel it then what they do is they inject an anticoagulant that allows the blood to flow more freely up the straw. It takes about 5 to 7 minutes before they're sated and then they'll go back to the area where they're congregating and sleep until they're hungry again and then go out looking again.
10:04:41	Stock: curtains, feet stepping on floor, woman getting out of bed, bed bug zig zag bites, bites on neck,	NARRATION: The victim will wake up the next morning with no knowledge of what happened to them during the night

² http://en.wikipedia.org/wiki/Bed_bug

³ <http://www.history.com/news/theyre-back-a-bed-bug-history>

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	<p>legs</p> <p>B-roll: subway, apartment establishing shot</p>	<p>but very often with itchy welts like these. The perpetrators will be nowhere to be seen and the victim will have no idea what caused their mysterious itchy rash. And that's exactly what happened to the tenants of this apartment building. Sharon Younger had no idea that moving in here would change her life forever.</p>
10:05:17	<p>SUPER: SHARON YOUNGER</p> <p>Recreations: man stumbling down hall</p>	<p>INT - SHARON YOUNGER: When I first came to this building within a week I was awoken by somebody walking down the hall weeping and moaning saying "sleep, sleep I just want sleep". There were dozens and dozens of bugs crawling on his face and through his hair and coming out his ears. And then I noticed his t-shirt. His entire shirt was blood soaked. I didn't realize bedbugs were real. I thought they were just a subject of this nursery rhyme.</p>
10:05:55	<p>Recreations: man stumbling down hall</p> <p>B-roll: Michael making a house call</p>	<p>NARRATION: Bedbugs and their debilitating effects are very real. But even in a heavy infestation the victim may not understand what is happening to them. Because bedbugs are insidious and nearly impossible to detect.</p>
10:06:10	<p>B-roll: Michael making a house call, with his dog</p>	<p>ACTUALITY - MICHAEL GOLDMAN: "Pest control?"</p> <p>INT - MICHAEL GOLDMAN: It's very difficult to find bedbugs. I've been in the pest management industry for 35 years and I'm really only about 35 percent accurate. We use dogs now that are about 95 percent accurate. They're not using their eyes they're using their nose. And the training of the dogs is the same kind of training as bomb detection</p>

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		and drug detection. ACTUALITY – MICHAEL GOLDMAN "Good boy, this way"
10:06:36	B-roll: Michael making a house call, with his dog, bed bugs in tube, bed bugs on wall, light socket	NARRATION: Bedbugs don't just hide in mattresses. Newly hatched ones are the size of a pinhead and the adults are no bigger than an apple seed. They can climb long distances inside walls, entering rooms through a light socket or any crack the width of a credit card, making an infestation in a building like this a terrifying prospect.
10:07:06	B-roll: apartment establishing shot Recreation: woman tossing and turning in bed, bed bug bite on arm	INT - SHARON YOUNGER: This building was seventy percent infested, think about that. Seven out of every ten units had bedbugs in them. You can never sleep. You're just about to fall asleep, just about to fall asleep, and you're woken up by a bedbug bite. This is personality changing, this is mental health territory.
10:07:31	Stock: bed bugs on carpet, bed bugs on sheet B-roll: Michael at work	NARRATION: Pest control experts like Michael Goldman are losing sleep over the bedbug invasion because every single case is a battle with an uncertain outcome.
10:07:42	B-roll: Michael at work, baseboards, CU of bed bug, on mattress	INT - MICHAEL GOLDSMITH: If there's a bedbug underneath a baseboard and we go ahead and spray the baseboard the bedbug will most likely retreat deeper into the baseboard and in between the walls and will go to sleep. We think well what a great job we did because the homeowner's not having any more problems but in fact they're in the walls waiting to come out again. Bedbugs can live well over a year without a blood

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		meal so three, four months later the bedbugs will awaken and get a blood meal and start living their life again.
10:08:12	B-roll: bed bugs on mattress	NARRATION: Bedbugs are notoriously hard to eradicate even if all the bugs are killed by a treatment, eggs left behind will hatch months later and restart an infestation.
10:08:25	Stock: DDT commercial	ARCHIVAL: "It's so easy to apply because of a new efficient dispenser packet yes it gets in where DDT can really do a thorough job."
10:08:35	Stock: DDT commercial	NARRATION: In the 1940s and 50s⁴ the insecticide DDT all but eradicated bedbugs from much of the Western world. But even before the chemical was banned for harming people bedbugs around the world were already becoming resistant.
10:08:55	B-roll: Roger Gold in lab – heat treatment	Roger Gold's research has confirmed that there is only one effective weapon to kill both bedbugs and their eggs. Heat. One hundred and forty degrees⁵ and above can end the nightmare at last. ACTUALITY – ROGER GOLD They're all dead.
10:09:18	B-roll: kid in bed, close up of book Stock: pest control heat treatment, CU of bed bug, woman shopping	It's simple to do in a lab but to rid a house of an infestation the entire structure and all of its contents need to be heated for four hours or more. These treatments cost thousands of dollars and are the only effective option. So keeping

⁴ http://www.cdc.gov/nceh/ehs/publications/bed_bugs_cdc-epa_statement.htm

⁵ <http://www.goldsealpest.com/bed-bug-removal>

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		bedbugs from crossing your doorstep is the key but that's easier said than done. Bedbugs can arrive hidden in the binding of a library book or even in your shopping bag from a high-end boutique.
10:09:53	Stock: hotel bed	INT - MICHAEL GOLDSMITH: People ask me what can I do when I leave the house how do I make sure I don't bring them home and there's no easy answer to this you just have to do the best you can. When you go to a hotel before you unpack your bags check the bed. Look for fecal spots look for exoskeletons look for live bedbugs.
10:10:11	Stock: luggage out of trunk	INT - MICHAEL GOLDSMITH: I would strongly suggest that when people come back from vacation that they don't bring their luggage into the house leave it outside. Take their laundry put it in a plastic bag take the bag and throw all their laundry into the dryer and let it run for about 20 minutes and that will kill all stages of the bedbugs.
10:10:29	B-roll: Michael at work, pan up to kids bed	NARRATION: It will take this sort of vigilance to keep bedbugs from spreading even further worldwide. But the monster under the bed is far from the only threat our cities face.
COYOTES		
10:10:45	Stock: time lapse of city, aerials of city and suburban neighbourhood, coyote running across street B-roll: Stanley with tracker	NARRATION: Another larger, more secretive invader lurks just outside our doorsteps. Its numbers are exploding in almost every major metropolitan area in⁶ North America. Yet many of us don't have a clue that this cunning and stealthy creature is lurking very close by. It

⁶ <http://researchnews.osu.edu/archive/urbcoyot.htm>

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		is the coyote. And the great city of Chicago is infested with them.
10:11:14		INT: STANLEY GEHRT You have thousands of coyotes living among people and the vast majority of people having no idea that they're there.
10:11:25	Stock: city skyline timelapse B-roll: Stanley's hero shot, unloading truck, coyote in cage, close up, releasing coyote	NARRATION: Wildlife biologist Stan Gehrt [GEHR-IT] is trying to decode the mystery of how coyotes not only survive but thrive in America's third largest city⁷. Ghert has been tagging and radio tracking Chicago's coyote population for more than a decade. Today he is tracking a young female to determine her territorial range.
10:11:50	B-roll: Stanley tracking from truck Stock: coyote in the bushes, on a lawn, near houses SUPER: DR. STANLEY GEHRT Ohio State University	ACTUALITY - STANLEY GEHRT This is very strong so she's only a few meters away. She's right there, right there. INT- STANLEY GEHRT We were wrong before we began this research we thought that coyote survival would be lower in the city because of all the threats that we pose towards them but it turns out the opposite is true. We're seeing a thriving urban population with incredible growth rates. Exponential growth. Our best guess in terms of the number of coyotes that live in the Chicago area is eight thousand.
10:12:24	Stock: time lapse of Chicago canal, aerial of highway overpass, dead coyote, coyote in the wild, close up of eyes	NARRATION: Chicago is a maze of busy streets and highways so experts assumed that most coyotes would end up as road kill but they misjudged the coyotes acute eyesight, keen sense of smell and most importantly - their astonishing intelligence.

⁷ <http://en.wikipedia.org/wiki/Chicago>

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10:12:44	<p>Stock: close up of coyote eyes, coyote crossing road, in the wild, in the snow</p> <p>B-roll: traffic, traffic light</p>	<p>INT- STANLEY GEHRT</p> <p>They learn how to judge speeds of vehicles they've learned which direction to turn to look for oncoming traffic. We've also been able to watch them cross very busy streets by using traffic lights so they know that when the traffic stops at an intersection that that's the time that they need to cross. They're very quick to learn and that's what makes them so successful at being able to exploit a wide range of habitats. Pretty much every habitat in the world coyotes are capable of being extremely successful at.</p>
10:13:17	<p>Stock: aerial of city, Canada geese, cat, eating a bird, Mike and dead coyotes, coyote in the bushes</p> <p>B-roll: Mike Flick shooting, unloading gear</p>	<p>NARRATION:</p> <p>And Chicago is no exception. There is a bounty of prey to hunt for this dangerous, wild, predator. Mike Flick was sixteen when he took aim at his first coyote. Now as owner of Anytime Animal Control he's the go-to man when coyotes threaten livestock in rural Illinois. But Mike was surprised when he started getting more and more calls from within Chicago's city limits. A place he can't fire his rifle. He knows full well why the coyote population has boomed.</p>
10:13:58	<p>B-roll: Mike Flick driving, in the woods, POV to street</p> <p>Stock: POV driving through suburban neighbourhood, geese, bird eggs, aerial</p>	<p>ACTUALITY - MIKE FLICK</p> <p>A coyote could hide in your garage and you wouldn't know about it. Look at all this. It's beautiful. You know this place is utopia for coyotes. Here you've got fruit trees, animal dishes, garbage day is a feast. We've got a golf course with a golf course comes ducks and geese. They'll take the eggs that's easy. We offer them everything they need and they take it.</p> <p>This is actually a great spot for coyotes.</p>

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		We've got everything we need. We've got cover here, it's nice and shaded on a hot day. It's hidden from anything that would harm their pups. If you didn't know better from this area you would think we were in the middle of a forest but we're in the middle of a Chicago suburb and this is where they live.
10:14:53	Stock: aerial of suburban neighbourhood, dog chasing ball, cat B-roll: dog running, on porch	NARRATION: Most of the city coyotes live in packs. Each claiming and fiercely defending a territory. And that's bad news for our pets. To a coyote a cat is just a potential meal. But they instinctively see a dog, a rival canine as a threat.
10:15:13	B-roll: REID household at night, dogs being let out, looking outside	INT- STANLEY GEHRT We have observed a lot of our coyotes when we're radio tracking them watching our pets and watching us taking them on walks or especially watching our back doors.
10:15:30	B-roll: pet dogs in backyard	NARRATION: Sue REID never imagined that her back yard was under surveillance.
10:15:37	B-roll: Sue looking outside, dogs in the backyard SUPER: SUE REID	INT - SUE REID: I had seen a coyote about seven years ago but that was the first coyote I had ever seen and then I'd never seen another one. Jake and Floyd would walk in the morning and then later on at night they usually would like to go out. Usually before it was too dark and I let both of them out and I was usually out with them.
10:15:56	B-roll: Sue's back porch, dogs outside	NARRATION: The coyotes knew this pattern well and had been waiting for their chance to strike.
10:16:05	B-roll: Sue opens door	INT - SUE REID: I heard the yelps within seconds after I let them out and I ran out there and I

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		threw my cell phone at them first and just ran after them. I didn't even think about that there was six coyotes in my yard I just wanted to save my dogs.
10:16:17	SUPER: KENDALL REID	INT - KENDALL REID: I saw two coyotes running into the yard and Jake standing there and I knew Floyd was gone, I just knew.
10:16:26		INT - SUE REID: All three of us went back out to the yard to look for Floyd and we couldn't find him.
10:16:32	B-roll: dog on porch	NARRATION: Jake was seriously injured but survived the attack. Floyd was not so lucky.
10:16:41		INT - KENDALL REID: My parents sat me down and told me they found the remains of him. And that was the hardest thing I've ever heard in my life because pets are more than just pets.
10:17:02	Stock: coyote in city alley, in the wild, barking	NARRATION: As coyotes infest more and more of our neighbourhoods they are adapting to us. It is in their nature and it poses a serious danger.
10:17:14	Stock: coyote looking at a house, stalking, growling, attacks camera	INT- STANLEY GEHRT One of the traits of a very intelligent animal like a coyote, is that even though they may start off with a healthy fear of people, they constantly test that envelope just a little bit, they watch our response. If we give the wrong kind of cues to a coyote such as if a coyote steps forward we step back or especially if we turn and we run then a coyote quickly learns that it can get rid of people by approaching them rather than running away. When coyotes become or they think they're dominant toward people that's when conflicts occur. And it's often

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		when you can have an attack.
10:17:52	Stock: kid in yard	INT - SUE REID: We used to feel safe in our home and in our yard and we just don't anymore. My biggest fear is that a small child in one of these yards in our neighbourhood's going to be attacked and when there's six of them I think they're going to be brave enough to go after a kid.
10:18:05	Stock: coyotes roaming	NARRATION: Attacks on humans are rare but they do happen. Can we reclaim our city neighbourhoods from the invading coyote? That is next to impossible.
10:18:20	Stock: close up of coyote eyes	INT- STANLEY GEHRT We've never been successful at eradicating coyotes from any system any kind of habitat anywhere in North America. Coyotes have been the one wildlife species that are successful regardless of what we do.
10:18:38	Stock: pan aerial of city highway and sprawl B-roll: close up of houses	NARRATION: While coyotes are laying claim to the spaces outside of our homes, another silent invader is attacking our houses from within.
TERMITES		
10:18:49	Stock: aerial of suburban neighbourhood, drive by houses B-roll: houses, termites	NARRATION: A relentless infestation is hitting us where we live. Threatening to destroy our homes all together. It comes up unseen through the ground and works like a cancer eating away at our houses' bones. It can progress for years undetected. This insatiable scourge is the termite.
10:19:16	B-roll: termites, house floorboards SUPER: DR. TIMOTHY	INT - TIM MYLES: In a heavily infested house you can have hundreds of thousands to millions of termites tunneling behind the drywall

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	MYLES Termite Control Officer	behind the plaster continuously eating away at the house until you open up those walls and literally you can take individual boards and there's really nothing there. It just crumbles in your hand. The whole thing.
10:19:35	B-roll: termites, CU of houses Stock: warehouse of wood planks	NARRATION: Termites eat dead plant matter. Mostly in the form of wood. Which happens to be the primary material we use to build our homes. Worldwide termite infestations cause more damage than fires and floods combined⁸. But often a homeowner won't know there's a problem until it's too late.
10:20:00	B-roll: termites	INT - DOUG EARL: Before we bought the house we didn't know there was a possibility that there were termites. We didn't know that this was a termite area at all.
10:20:07	Stock: aerial of Toronto B-roll: eaten wood	NARRATION: Doug Earl and his wife Michelle found their dream home in an older Toronto neighbourhood. They never imagined that there was a nightmare waiting inside.
10:20:18	SUPER: DOUG EARL Stock: termite damage	INT - DOUG EARL: We lived here for a few years we had a tenant in the basement and one day she came to us and said I've seen a little black mark on the ceiling and I think it's a termite. We called in an expert and sure enough we had a termite infestation.
10:20:34	Stock: termite damage	NARRATION: The termites had been at work for a long time.
10:20:38	Stock: termite damage and infestation	INT - MICHELLE CHEUNG: They're horrible they're like little tiny

⁸ <http://www.termite.com/termites-usa.html>

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		maggots. They work underground they work in the darkness they work where you can't see them and once that damage is visible it's already too late. You've got an infestation.
10:20:52	Stock: termite damage and spraying	INT - DOUG EARL: We ended up having to gut our basement to get rid of the termites and the experts sprayed the wood inside the basement walls and they also drilled into the ground around the perimeter of our house and shot huge amounts of termite killer in there. And so you know, we thought at that point great they've got rid of the termites that's the end of that and we don't have to worry anymore.
10:21:15	B-roll: close up of house exteriors, termites MAP of termite spread [01:21:23-01:21:35] Stock: Kensington market	NARRATION: But you can't let your guard down in a termite-infested neighbourhood. Especially now that global warming is helping them to spread. Termites thrive in warm and humid climates. As temperatures rise so do the termite populations. Even as far north as Ontario. There are over one thousand infested city blocks in the Toronto⁹ area alone, costing local home owners over one hundred and twenty million¹⁰ dollars every year.
10:21:48	B-roll: termites Stock: termite damage	INT - DOUG EARL: Fast forward a number of years, my wife and I got jobs overseas for eighteen months.
10:21:53	SUPER: MICHELLE CHEUNG	INT – MICHELLE CHEUNG: We're moving back into the house and I actually walked into the office I was moving boxes in there and I realized the floors were soft.
10:22:01		INT - DOUG EARL:

⁹ <http://www.bluewoodcanada.com/hidden.html>

¹⁰ <http://www.torontosun.com/2011/08/06/termites-munching-through-to>

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		That's when the penny started to drop that we probably had a bigger infestation than I originally thought.
10:22:08	B-roll: termites in lab	NARRATION: Termite control expert Tim Myles has been battling these tiny insects for 20 years. He knows how hard they are to defeat.
10:22:18	B-roll: spraying, termites	INT - TIM MYLES: These kinds of chemical treatments things even though they're very costly the termites still manage to evade it. What if there are two or three tiny little tunnels that the chemical barrier didn't get to. They immediately reroute to those two or three tiny little tunnels.
10:22:35	Stock: termite damage and construction	NARRATION: The Earl's second infestation required a full gut job to both floors of the house.
10:22:42	Stock: termite damage and construction	INT - DOUG EARL: The effort that we've put into getting rid of the termites in this infestation has been enormous and we don't want that to happen again.
10:22:51	B-roll: Joe at work	NARRATION: Doug was forced once again to call Joe the Exterminator. Who is not at all surprised to be back in the neighbourhood.
10:23:01	SUPER: JOE BRUNO S.N.AP. Pest Control	INT - JOE BRUNO: Typically when I come to a house like this I'm looking at the neighbourhood and I mean you're going to get an infestation I mean it could be running underneath the street, under the sidewalk in all of the grass, right through in the trees there's a massive colony here it's not just one house there's going to be five, six, ten houses in the entire neighbourhood this little pocket here is totally infested.

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10:23:25	B-roll: Joe and Doug going to the basement, backyard	NARRATION: Any dead wood on Doug's property is food for the colony.
10:23:30	B-roll: Joe inspecting	INT - JOE BRUNO: I see here Doug that um, you have a shelter tube has formed here and very indicative of termites working.
10:23:38	B-roll: Joe inspecting	INT - DOUG EARL: So you think there's termites inside that tree right now.
10:23:39	B-roll: Joe inspecting	INT - JOE BRUNO: Oh absolutely guaranteed.
10:23:42	B-roll: termites	NARRATION: Termites are constantly scouting in every direction for more wood to eat.
10:23:48	B-roll: Joe inspecting	INT - JOE BRUNO: Hey Doug I see you have some railway ties submerged in the soil yeah that looks like termites and it looks like they're going to follow that seam all the way up there you know gradually getting towards your house.
10:24:05	B-roll: Joe injecting termiticide	NARRATION: Joe injects "termiticide" into the ground all around Doug's house in an attempt to create a continuous barrier to keep the termites out. This treatment will have to be repeated every year to be effective if it actually works at all.
10:24:24		INT - DOUG EARL: It's a scary feeling knowing that there's you know insects around your house at all times that could come in and you know eat the single biggest investment we've ever made in our lives.
10:24:37	B-roll: Tim in lab	NARRATION: Tim Myles is looking at the bigger picture - the end game in the war on termites.

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10:24:44	B-roll: Tim in lab	INT - TIM MYLES: If we want to manage termites on an area wide basis in some cases eradicate them from entire neighbourhoods and cities then we need to be attacking the colony somehow actually killing that population.
10:24:56	B-roll: Tim in field	NARRATION: Tim has developed a Trojan horse attack. It starts with hundreds of tasty corrugated cardboard rolls buried in termite-infested earth. The termites are given a month to discover the rolls and get munching.
10:25:14	B-roll: Tim in lab	INT - TIM MYLES: This was a healthy colony just collected yesterday from the field in this box I've got nearly 14000 termites.
10:25:23	B-roll: Tim in lab	NARRATION: The live termites receive a coating of a chemical called zinc borate. It's terminally toxic to termites but it won't kill these ones, yet. First they'll be reintroduced to the colony.
10:25:38	B-roll: Tim in field, termites	INT - TIM MYLES: So there are tunnels going out the bottom of this trap into the ground. So we want these treated termites to interact with those untreated termites so we get an increased kill ratio. We want each one of these to kill maybe ten to a hundred others.
10:25:56	B-roll: termites	NARRATION: The poisonous zinc borate is then spread through the colony because of an important social behaviour of termites.
10:26:03	B-roll: termites	INT - TIM MYLES: They're very clean. And so if they detect that a nest mate has something on its body they will instinctively stop whatever

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		else they're doing and lick him off.
10:26:13	B-roll: termites	NARRATION: Every termite that ends up ingesting zinc borate will die.
10:26:19	B-roll: Tim in field	INT - TIM MYLES: And we'll do this on hundreds of traps throughout several blocks for several years and we've been seeing about 25% suppression per year using this method.
10:26:31	B-roll: termites Stock: aerial of warehouses	NARRATION: It's not the magic bullet that infested homeowners are wishing for but it's a battle won in the endless war against this hungry horde. But this isn't the only hungry horde afflicting our cities.
COCKROACHES		
10:26:50	Stock: city street time lapse at night, driving through streets, crowded alley in Japan, cloud time lapse, lava flowing, clouds over moon, cockroaches B-roll: Michael Kemp running, using puffer, sewer	NARRATION: There is an ancient infestation in every city around the world that affects us all. Common creatures that can cause a national level athlete to gasp for air. They have called earth home for more than three hundred million years¹¹, predating the dinosaurs¹². They are the cockroach. The ultimate survivor.
10:27:19	Stock: cockroach	INT - COBY SCHAL: So you can cut the head off the cockroach and the cockroach can continue to live for many hours and sometimes days.
10:27:26	Stock: close up of cockroach, cockroach species, cockroaches in alley	NARRATION: There are more than four thousand species¹³ and cockroaches inhabit every climate on earth. Part of their amazing success is their reproductive rate.

¹¹ <http://news.discovery.com/animals/cockroach-ancestor-predates-dinosaurs.htm>

¹² <http://en.wikipedia.org/wiki/Dinosaur>

¹³ <http://www.uky.edu/Classes/ENT/574/insects/homes/Cockroach/roach.htm>

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10:27:41	Stock: cockroaches	INT - COBY SCHAL: Females store sperm for their lifetime so all they need to do is mate once and for the rest of their lifetime they can reproduce progeny.
10:27:50	B-roll: Coby Schal hero shot, Coby in lab	NARRATION: Coby Schal at North Carolina State University has a lot of respect for his worthy adversary, the cockroach.
10:28:00	B-roll: Coby in lab Stock: close up of cockroach eating a grape	INT - COBY SCHALL: We have this ongoing arms race with cockroaches we keep alternating between us developing an innovative strategy and a cockroach developing an adaptation and we have to come back with a new insecticide or a new approach to kill the cockroach.
10:28:17	B-roll: cockroach in lab, team in lab, time lapses	NARRATION: Coby Schal and his team have demonstrated just how resilient the cockroach is. For decades humans have fought cockroaches by adding glucose, a simple sugar, to insecticides to attract and kill them but the cockroach has fought back. Evolving to now reject the sugar laced insecticides.
10:28:41	B-roll: cockroach experiment	INT - COBY SCHAL: The glucose tastes bitter to them. When glucose is coupled with an insecticide bait the cockroach then refuses to eat the bait and therefore we cannot kill that cockroach.
10:28:54	B-roll: Michael running Stock: Toronto bridge, subway	NARRATION: Michael Kemp was a national level runner in peak physical condition when he moved into his university residence.
10:29:04	Stock: Toronto apartments, cockroach in toaster	INT - MICHAEL KEMP: It was a nice building. Looked clean when you walked in. It was perfect for

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	B-roll: hallway	college students. We thought that this would be a good place to live. I had never seen a cockroach before but I remember one night coming to the kitchen for a glass of water turning the light on and seeing a couple of cockroaches disappear. At first we thought it was an isolated incident there may have just been a few it wasn't a big deal.
10:29:33	Stock: cockroach SUPER: DR. COBY SCHAL North Carolina State University	INT - COBY SCHAL: Generally if you see one cockroach in your kitchen there are probably lots more that you can't see.
10:29:41	B-roll: cockroaches, infested kitchen SUPER: MICHAEL KEMP	INT - MICHAEL KEMP: Over the next month or two we started seeing them more frequently. We would turn on the light and there would be 15 or 20 cockroaches all scurrying away trying to hide from us but we didn't realize how bad the problem was.
10:29:58	B-roll: cockroaches, infested kitchen	NARRATION: In less than a year a single female cockroach can produce a million eggs¹⁴.
10:30:05	B-roll: cockroaches, infested kitchen	INT - MICHAEL KEMP: After a while we stopped eating anything that wasn't sealed inside the fridge because there was cockroaches everywhere especially in the kitchen.
10:30:14	Stock: cockroaches on plate	INT - COBY SCHAL: As long as there's water, food, the proper temperature and lots of places to hide cockroaches do great.
10:30:22	Stock: cockroach infestation	INT - MICHAEL KEMP: And I opened the cupboard door and it was completely full of cockroaches. There would be hundreds of them. When I flipped my futon over I discovered that

¹⁴ <http://lancaster.unl.edu/pest/roach/roach3eng.pdf>

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		the entire bottom of my futon was covered in cockroach larvae.
10:30:40	Stock: cockroach infestation	NARRATION: What a cockroach infestation leaves behind is what can make them deadly.
10:30:48	B-roll: cockroach infestation, Michael running	INT - MICHAEL KEMP: At the time I never even really thought about the fact that the cockroaches were leaving feces in our apartment that I may be allergic to. I've had asthma since I was a kid but it really started getting bad the time that we were living in the apartment. I had no idea that there was any link between that and the infestation of cockroaches.
10:31:13	B-roll: Michael running	NARRATION: Michael's lungs were soon fighting for air. People with asthma are highly sensitive to cockroach allergens¹⁵ and children under the age of ten are especially vulnerable.
10:31:29		INT - COBY SCHAL: There have been some very serious cases of asthmatic responses to cockroaches in some cases cockroaches result in anaphylactic shock which can result in death.
10:31:40	Stock: ambulance down street, city aerial B-roll: Coby in field lifting sewer	NARRATION: And these aren't just isolated incidences. Look beneath our streets and our modern cities are virtually floating on a sea of cockroaches.
10:31:54	B-roll: Coby in field lifting sewer Stock: cockroach on plate	INT - COBY SCHAL: When it then moves from the sewer system into our kitchen it then defecates and so these bacteria that it ingested are then defecated on our food.
10:32:06	Stock: cockroach, IV	NARRATION:

¹⁵ <http://www.aafa.org/display.cfm?id=9&sub=22&cont=312>

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		And the excrement of cockroaches can carry disease. Hitting us where we are most vulnerable.
10:32:15		INT - COBY SCHALL: In environments where antibiotic resistant microbes are generated and proliferated such as in the hospital a cockroach infestation is very dangerous.
10:32:26	Stock: cockroaches on plate, patient in hospital	NARRATION: They transfer these deadly microbes on the surface of their bodies to catastrophic results.
10:32:37	B-roll: Michael running, using puffer	NARRATION: Having experienced a cockroach infestation first hand Michael is years later, still feeling the lasting effects.
10:32:48	Stock: cockroach infestation	INT - MICHAEL KEMP: When we first saw cockroaches we only saw a couple of them and within a few months there were thousands of them within six months there were tens of thousands of them. If you see a cockroach I'd be worried.
10:33:04	B-roll: cockroaches in lab Stock: city night aerial	NARRATION: Cockroaches make us squeamish. But another incredibly resilient city dweller repulses us. An infestation better described as a plague.
RATS		
10:33:17	B-roll: R.A.T.S in alley with dogs	NARRATION: These volunteers have brought out hunting dogs to this rainy, New York City alley, for a single purpose.
10:33:25	B-roll: R.A.T.S in alley with dogs	ACTUALITY - R.A.T.S "Let's get em" "Good boy!" "Rats a poppin'!"
10:33:30	B-roll: R.A.T.S in alley with dogs	NARRATION: To kill as many rats as they can.
10:33:34		INT – ROBERT CORRIGAN: We do not want them in our space. It's a

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		war it's a constant war with rats in our cities.
10:33:40	B-roll: Robert hero shot, Robert in the NYC streets	NARRATION: Doctor Robert Corrigan has been fighting that war for over twenty years. As one of the world's leading experts in rodent control he knows what we're up against.
10:33:52	SUPER: DR. ROBERT CORRIGAN Urban Rodentologist Stock: Rat in tunnel, toilet bowl	INT - ROBERT CORRIGAN: It is a war because we want to protect our own health. Rats transmit diseases. If they go from a sewer from a ditch where there's a bacterium that can hurt us they can follow the sewer line up into a building and emerge through a toilet bowl. And you have now a rat in the living quarters of a family.
10:34:11	Stock: Rat climbing out of toilet, around kitchen sink, bubonic plague paintings, rats fighting, rats eating dead rat, rat emerging from hole in wall	NARRATION: Rats can invade our homes and make us sick. It's a reputation that the rat earned a long time ago. During the middle ages rats were responsible for spreading the bubonic [bew-bon-ick] plague which killed one out of three people in Europe¹⁶. The horror of those times is still burned into our cultural memory. Today we can control the plague but not the rats who carried it. Nearly seven hundred years later they still run rampant in our cities.
10:34:50	B-roll: Ryan in alleys	NARRATION: To New York City exterminator Ryan Tai the cause of the infestation couldn't be more obvious.
10:34:58	B-roll: Ryan examining garbage, rats in garbage, NYC alleys	INT - RYAN TAI: This garbage is not being placed in proper garbage cans so you see people just throw these bags of garbage down

¹⁶ http://en.wikipedia.org/wiki/Plague_%28disease%29

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		here and the rats they come in here and they start eating this garbage because it's all food garbage. Rats live close proximity to human beings because they feed off our waste. They eat what we eat so the more people we have the more garbage we create the more food there is for the rats to feed on.
10:35:22	B-roll: garbage in alley Stock: time lapse of people on sidewalk	INT - ROBERT CORRIGAN: In cities the average person discards about 5 pounds of trash in 24 hours. So if you have ten million fifteen million people in a city that's a lot of food being put out at night.
10:35:33	B-roll: garbage and rats in alleys	NARRATION: Our waste turns city streets and alleys into a banquet hall for rats, which makes it very difficult to control them with traditional methods.
10:35:45	B-roll: rat bait traps, Ryan in field	INT - RYAN TAI: These are the bait stations that we use that we put the rodenticide in to kill the rats.
10:35:50	B-roll: rat bait	NARRATION: It's a highly effective and lethal solution. If the rats take the bait.
10:35:57	B-roll: setting the rat bait, garbage in alley SUPER: RYAN TAI	INT - RYAN TAI: It takes about 72 hours for the poison to take effect. The problem is a lot of times the rat doesn't eat the poison because they eat the food that people leave behind.
10:36:06	B-roll: close up of rats on street	NARRATION: And if those rats don't take the bait life in the neighbourhood can be truly frightening.
10:36:13	SUPER: JOHN DELUTRO Café Palermo	INT - JOHN DELUTRO When you close up at night the garbage is laid out on the sidewalk they come out a foot long not one or two rats they

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	Stock: flashlight shining on swarm of rats	come out by the dozens. Every night when I go home I gotta walk in the middle of the street with a bat because they're all over the sidewalk.
10:36:30	Stock: Rats eating off ground	INT - JOHN C. CASHLINUOVO After 8 - 9 o'clock when the street quiets down this turns into a field of rats here. I mean herds of rats.
10:36:40	Stock: group of rats eating grain, flashlight shining on swarm of rats B-roll: R.A.T.S in alley	NARRATION: And it's when conditions get this bad that this crack squad of specially trained terriers gets called in, to kill rats.
10:36:50	B-roll: R.A.T.S in alley SUPER: RICHARD REYNOLDS R.A.T.S	INT - RICHARD REYNOLDS: These dogs are doing what their job descriptions in life have been for four hundred or five hundred years.
10:36:57	B-roll: R.A.T.S in alley	ACTUALITY - R.A.T.S: "Here here, here here! Get him get him! Get him get him! Good dog good dog!"
10:37:04	B-roll: Bait trap in alley	NARRATION: Terriers were first bred in the castles and towns of medieval Europe¹⁷ for this very job. And it is no less important today, here, in New York.
10:37:15	B-roll: R.A.T.S in alley, dead rats	INT - RICHARD REYNOLDS: What we do tonight will have an effect on the numbers of rats next year. A single pair of rats over a period of a year starting with one pair of rats on that tray tonight and if they weren't dead there'd be 24 thousand rats at the end of the year.
10:37:29	Stock: Rats eating dead rat, rat nest and babies	NARRATION: It's impossible to know their real numbers but estimates suggest one rat for every human in New York City¹⁸. And it's not just their prolific

¹⁷ http://en.wikipedia.org/wiki/Rat_Terrier

¹⁸ <http://www.abc.net.au/tv/documentaries/stories/s603439.htm>

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		reproduction that makes them hard to eradicate.
10:37:44	Stock: rat feeding, jumping	INT - ROBERT CORRIGAN: It's very cunning it's even been called diabolically clever by scientists it learns quickly from its mistakes and it learns how to maneuver and plan its activities.
10:37:56	B-roll: rat in subway tracks, sewer	NARRATION: And the city provides plenty of ways to get around starting with the subway and sewer.
10:38:03	B-roll: Ryan looking at sewer, sheet metal	INT - RYAN TAI: As you can see these grates have slots so basically if the head can fit through the slot the entire rat can fit through it. One of the ways that some of the tenants or the building owners have been trying to prevent the rats from coming onto the property is putting up the sheet metal that prevents the rats from climbing from the other side, coming over here to look for food.
10:38:24	B-roll: sheet metal, holes in wooden walls Stock: rat eating and gnawing	NARRATION: Sheet metal may seem extreme but wherever they find a barrier rats will try to gnaw their way through. Their front teeth can grow up to five inches¹⁹ in one year. As a result their gnawing is constant and compulsive. They chew through wood, cement, bricks, even lead pipes.
10:38:47	Stock: smoke pouring out of house, sparks and fire from buildings, power plants	INT - ROBERT CORRIGAN: The types of damage rats do is extensive. They gnaw on a wire inside a wall causing a spark and that spark literally and has burned down buildings and cost human lives in fact they affected a nuclear power plant in Japan not too long ago by gnawing on electrical

¹⁹ [http://www1.agric.gov.ab.ca/\\$department/deptdocs.nsf/all/agdex816/\\$file/682-2.pdf?OpenElement](http://www1.agric.gov.ab.ca/$department/deptdocs.nsf/all/agdex816/$file/682-2.pdf?OpenElement)

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		wiring.
10:39:06	B-roll: rat at night, in garbage Stock: rat in tunnel, across lit floor	NARRATION: Whatever physical damage rats can do to our infrastructure the biggest threat they pose still remains the spread of disease. Could another great plague sweep through our cities carried by rats?
10:39:22	Stock: rats on kitchen floor, rats on kitchen sink, beam of flashlight on pack of rats, rat falls into toilet	INT - ROBERT CORRIGAN: The worst case scenario with rats in our city could be another plague if mother nature would throw us a couple of curveballs someday and match up a very virulent pathogen with the rat we're always thinking about that. We need to be vigilant about it.
MOSQUITOS		
10:39:45	B-roll: pesticide foggers Stock: Mosquitoes swarm around tree, lands on skin	NARRATION: It is a hot mid summer's afternoon and here in the city of Hamilton, Canada just steps from surrounding apartments and homes, a desperate battle is being fought. The enemy - a creature that once plagued the dinosaurs²⁰ and has been responsible for more human deaths than any organism on the planet. Each encounter is a roll of the dice with the inescapable mosquito.
10:40:17	Stock: B&W Brazillian mosquito footage, CU of mosquito penetrating skin, swarm in nature SUPER: KEVIN TAYLOR Pestalto Environmental	INT - KEVIN TAYLOR: A lot of people think that they're a nuisance but through history mosquitoes have been one of our deadliest foes. They are very good at transmitting diseases they kill a lot of people worldwide and an outbreak can happen in any given season if conditions are right.
10:40:36	B-roll: Kevin in the field	NARRATION: Kevin Taylor is an expert in urban

²⁰ <http://en.wikipedia.org/wiki/Mosquito>

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	Stock: mosquito larvae, rainfall in the wild, in city, CU of puddle	mosquito control and that's a far more difficult task than you would think. That's because cities make ideal breeding grounds for mosquitoes. Mosquitoes need standing water for their eggs to hatch and grow into larvae. In the wild, rainfall soaks into the earth but in a city, it pools everywhere.
10:41:03	B-roll: close up of roof, pop can, still water, Kevin in field taking samples	INT - KEVIN TAYLOR: It's, it's almost impossible to find every little bit of standing water it can be up in the gutters in your roof it can be breeding in your pop can that's in your back yard it can be breeding in streams it can be in storm water ponds. ACTUALITY – KEVIN TAYLOR So what I want to do is I just want to take a couple samples of the larvae that I've just dipped in here and then I'll take those back to the lab later on to identify.
10:41:31	B-roll: Kevin in lab identifying sample	NARRATION: Identification is crucial. Kevin needs to know if these larvae are going to hatch into harmless nuisance mosquitoes or if they belong to one of the fifteen killer species that spread viral diseases in the Hamilton area²¹.
10:41:48	B-roll: close up of roof, pop can, still water, Kevin in field taking samples, sample under microscope	INT – KEVIN TAYLOR: Mosquito identification is not an easy thing to learn. Sometimes the difference between one mosquito or the next is just a couple of different tufts of hair.
10:42:00	B-roll: Kevin in lab, looking at sample through microscope, Edwin in car Stock: virus, mosquito on	NARRATION: But it can mean the difference between a bite that just annoys and itches or one that delivers a deadly virus straight into our blood

²¹ Kevin Taylor Pestalto Environmental Health Services

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	skin	streams. Mosquitoes spread disease by drinking the blood of an infected host then biting another uninfected person. The unsuspecting victims often don't even know they've been attacked and that's what happened to Edwin Patterson in San Antonio, Texas.
10:42:30	B-roll: Edwin and Elizabeth in car, Edwin at home in bed SUPER: EDWIN PATTERSON Stock: Ambulance, in hospital	INT - EDWIN PATTERSON: I was completely healthy there was no medical issues or anything else. I was in excellent physical condition. My life changed on July the 19 th 2012. I was coming out of work about mid way through the parking lot my left leg collapsed on me. It just went dead. About two hours later I started having convulsions. My son called 911 and that's really all I remember.
10:42:59	Stock: in hospital STOCK: ELIZABETH PATTERSON	INT - ELIZABETH PATTERSON: The doctors didn't know what was wrong with him and when he just kept getting worse and worse and I didn't know what to do.
10:43:07		INT - EDWIN PATTERSON: They came to her several times and asked her if she wanted to take me off the breathing machine or what and she would have been justified to turn everything off.
10:43:18	Stock: mosquito on skin, disease	NARRATION: What Edwin and his doctors didn't know is that he had been bitten and infected by a mosquito that was carrying a killer neuro-invasive attacker. West Nile disease.
10:43:32	SUPER: DR. PETER DASZAK EcoHealth Alliance	INT - PETER DASZAK: A neuro-invasive disease is a disease that gets inside your nervous system and it causes damage to your nerves and you brain so even if you survive you might end up with memory loss personality

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		change or what looks like a stroke. It's pretty, pretty devastating.
10:43:49	B-roll: Edwin getting out of car	INT - EDWIN PATTERSON: After they found out I had West Nile they pretty much just stopped trying to find ways to treat 'cause there is no way to treat West Nile. Once you've got it you've got it.
10:44:02	Stock: mosquito on skin B-roll: Kevin and team in field	INT - KEVIN TAYLOR: I'm really concerned about next is this grassland area here is really marshy out here.
10:44:09	B-roll: Kevin and team in field Stock: larvae	NARRATION: With no cure for West Nile disease Kevin Taylor's fight against the mosquitoes that carry the virus is his city's last line of defense. Once carrier larvae are identified his team rolls out to apply larvicide to all the stagnant water they can find.
10:44:30		INT - KEVIN TAYLOR: Larvicide is a good tool to eliminate the larvae before they hatch and the population starts to explode.
10:44:38	B-roll: Kevin and team in field with pesticide foggers, driving through neighbourhood Stock: couple at a café, mosquito on skin, baseball player	NARRATION: Despite their efforts a huge number of carrier mosquitoes hatch in the area. And that is when they bring out the big guns. Pesticide foggers. Because with female carrier mosquitoes in the air an outbreak can spread through a city with terrifying speed. And mosquitoes hunt us by detecting the carbon dioxide we emit.
10:45:07	Stock: aerial of baseball diamond, mosquito on skin	INT - KEVIN TAYLOR: If you have people out on a sports field playing a game it's all lit up they'll come from a kilometer away from the woodlands outside of town to get that

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		blood meal.
10:45:19	Stock: swarm of mosquitoes, airplane landing	NARRATION: But what worries scientists most is the mosquito's ability to travel and potentially spread new emergent diseases.
10:45:30	Stock: time lapse of airport	INT - PETER DASZAK: The thing about mosquitoes is they're pretty mobile. There's an average of 2.2 mosquitoes in every plane. It doesn't sound a lot but there are hundreds of thousands of planes moving around the world every day.
10:45:42	Stock: third world hospitals, sick kids, mosquito on skin	INT - KEVIN TAYLOR: Besides West Nile virus we have dengue fever we have malaria. With international travel global warming we could easily see some of these diseases being transferred up here. We actually have some of the mosquito species capable of carrying some of these other viruses right now.
10:46:05	Stock: crowded street, mosquito on skin B-roll: Edwin in parking lot	NARRATION: As these emergent diseases sweep through our cities all of us will be bitten sooner or later. Edwin Patterson thinks he was bitten in this San Antonio parking lot. A single bite that changed his life forever.
10:46:24	B-roll: Elizabeth and Edwin at doctor's office	INT - ELIZABETH PATTERSON: I'm hoping that Edwin and I will grow old together and play with our grandkids and hopefully he will be walking.
10:46:34	B-roll: Doctor helping Edwin	ACTUALITY – DR. JOHN MALFER: Ready? Come on. Stand up up you got it. Feel okay? EDWIN: Yea. DR. JOHN MALFER: Any pain? EDWIN: No. DR. JOHN MALFER:

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		Okay.
10:46:45	B-roll: Edwin in parking lot	INT - EDWIN PATTERSON: It's kind of weird being back here knowing this is where I might have gotten bitten by that mosquito. It's a pretty humbling experience.
10:46:57	Stock: aerial of cities, pan, third world city, drive through neighbourhood, traffic time lapse, aerial time lapse of people crossing street, Chicago canal time lapse, time lapse of city at night with comet	NARRATION: As humans we think of cities as our domain but as our urban populations explode across the planet, nature is not stopping at the city limits. Increasingly opportunistic invaders are finding food and the conditions to thrive in our downtowns and suburbs. The potential risks to our health and our homes are not going away anytime soon.
CREDITS [10:47:29 – 10:47:59]		