

2009 West Nile Virus (WNV) Action Plan

Seattle-Tacoma International Airport

This plan may be updated as new information is provided by King County Public Health.

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Alert Level	Definition	Surveillance Response	Education Response	Control Response
0	<p>Winter (Off season) No mosquito activity, approx Nov.-Mar. in King Co.</p>	<ul style="list-style-type: none"> Evaluate surveillance findings and mosquito habitat to determine areas of focus for the upcoming season. Update action plan using previous year's results. Update data sheet for recording results from each sampling period. Update newly built detention pond locations in the mosquito dipping surveys. Map catch basins for treatment. 	<ul style="list-style-type: none"> Prepare to update educational response to match current events and level of understanding. Reemphasize the need for communication using: pest@portseattle.org. Review tenant contracts and to determine responsibilities of tenants vs. Port. Determine need for and if necessary post/maintain signs to notify public of WNV threat near Tub Lake, Tyee Golf Course and borrow areas. Work with adjacent cities to ensure plans are shared. Coordinate WNV response plans with City of Seatac. 	<ul style="list-style-type: none"> Update control plans including capacity and criteria for responding in the event of a major WNV outbreak with respect to reducing mosquito populations of: <ul style="list-style-type: none"> Larva (Larviciding) Adults (ULV Fogging) Coordinate with pesticide applicator and/or the authorities to ensure NPDES permits remain current and recent BMPs can be effectively implemented in the coming season. Determine availability of larvicide stocks and other materials on hand to cover catch basins if we move to a higher alert level Work with AV/Maintenance to determine: <ul style="list-style-type: none"> Level of participation for mosquito control activities. Who at the POS needs of a Public Pesticide Applicators License and CE credits. Seasonal schedule for larviciding/adulticiding and regulating water levels in stormwater vaults.

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<p style="text-align: center;">1</p>	<p>Spring, summer & fall No positive surveillance findings in King Co. in the current calendar year (e.g., no WNV positive birds, mosquito pools, horses or humans)</p>	<ul style="list-style-type: none"> • Monitor identified surveillance locations through dip sampling of: <ul style="list-style-type: none"> ○ Stormwater ponds ○ Lakes on POS property ○ Des Moines Creek RDF ○ Representative catch basins • Maintain contact with Public Health to determine when mosquito larvae and dead birds should be submitted for testing. • Determine next year's surveillance needs and include in POS budget request. 	<ul style="list-style-type: none"> • Communicate to employees/tenants/contactors that WNV is an ongoing issue via: <ul style="list-style-type: none"> ○ Website updates ○ This action plan ○ Presentations ○ Emails/Letters • Encourage dead bird reporting by employees, tenants, contractors and the public. • Determine next year's education needs and include in POS budget request. 	<ul style="list-style-type: none"> • Apply larvicide (Bs and possibly Bti) to storm water detention ponds when larval counts exceed 0.3 larvae per dip (at least 1 larva in 3 dips) in predetermined risk areas. • Source reduction-eliminate standing water whenever possible (POS employees, tenants and contractors, especially AV Maintenance). • During routine maintenance activities, clean obstructions from outflows at all water detention facilities. • In July, apply larvicide (Bs and possibly Bti) to street drains/catch basins. • Determine next year's mosquito control needs and include in POS budget request.

Alert Level	Definition	Surveillance Response	Education Response	Control Response
<p style="text-align: center;">2/3</p> <p>(Will follow the expert opinion of WDOH and King County Dept of Health)</p>	<p>Spring, summer or fall King County or surrounding counties have confirmed WNV activity in wild birds, mosquito pools, horses or humans</p>	<p>Everything in Alert level 1, plus:</p> <ul style="list-style-type: none"> • Conduct intensified surveillance in areas of positive findings and work closely with Public Health to identify changes in response. • Work with Public Health to determine need and benefit to the county in mosquito trapping at SEA. 	<p>Everything in Alert level 1, plus:</p> <ul style="list-style-type: none"> • Intensify efforts to encourage and coordinate appropriate control responses with tenants through employee meetings, web site updates, and tenant letters. • Provide additional information on personal protection and mosquito repellants. • Work with Public Affairs so that information can be disseminated if adult mosquito spraying is undertaken. • Install signs ready for deployment in POS public areas (Av/Maintenance and adjacent cities) 	<p>Everything in Alert level 1, plus:</p> <ul style="list-style-type: none"> • Intensify mosquito habitat/ source reduction and larval control at detention facilities, water features, and drainage systems. • Review plans with Public Health, to determine where/when adulticiding is needed. • Review criteria and be prepared to respond if Public Health determines specified areas of high human risk and the need for limited, targeted adult mosquito spraying (i.e., spraying prior to a festival or other outdoor event).
<p style="text-align: center;">4</p>	<p>Spring, summer or fall Surveillance indicates high risk of multiple human infections, an escalating epizootic in horses and/or birds, abundant adult vectors and/or conditions favoring continued transmission to humans. A Public Health Emergency may be declared.</p>	<p>Everything in Alert level 3, plus:</p> <ul style="list-style-type: none"> • Continue with surveillance activities described in lower alert levels, with emphasis on determining areas with significant populations of adult mosquitoes of vector species. 	<p>Everything in Alert level 3, plus:</p> <ul style="list-style-type: none"> • Intensify efforts described in lower alert levels • Encourage Leaders to speak about WNV. • Enhance risk communications to public, employees, and tenants about mosquito spraying. 	<p>Everything in Alert level 3, plus:</p> <ul style="list-style-type: none"> • Conduct wide-spread adult mosquito spraying with direction and technical support from Public Health • In conjunction with state agencies or Public Health, monitor effectiveness of spraying on target mosquito populations when adult spraying is done.