

Priority: Basic Needs

Lead Agency: Health Department

Program Offer Type: Existing Operating

Program Contact: WIRTH Chris M

Related Programs:

Program Characteristics:

Executive Summary

This program protects the public from emerging and imminent vector-borne diseases (i.e. West Nile virus) and reduces the social/economic impact of uncontained outbreaks. Vector-borne diseases are transmitted from animals to humans. Current analysis of evidence shows that environmental indicators such as dead birds predict the prevalence of human cases of West Nile virus in a community. The major emerging diseases are vector borne (WNV, avian influenza, SARS). Climate changes in the NW, such as warming winter temperatures and an increase in rainfall, as well as urban landscape management will increase the risk of vector borne diseases. Intervention strategies include surveillance, analysis, proactive control/abatement of rodent and mosquito populations and public education. Program includes enforcement of nuisance codes. The program solicits input from a Commissioner-appointed Citizen Advisory Committee.

Program Description

Objectives: Surveillance –collection/identification of mosquitoes, birds and rats. Laboratory analysis to determine species, diseases carried, preferred habitats, and population size. Abatement -suppression via species-specific, least impact pesticides, reduction in habitat, water control, vegetation management. Education/outreach –public information on preventing vectors and their habitation by community meetings, pamphlets, media to provide equitable access to information for the average citizen and vulnerable populations. **COMPONENTS:** Mosquito Control – majority of funds/staffing. Rodent Control - primary service provider for rodent control countywide. Nuisance Code Enforcement – addresses public health code violations, esp. restaurant enforcement, dumping and harboring unspecified animals (e.g., bees, livestock, and birds).

Program Justification

Between 2005 and 2007 six new mosquito species were identified locally, including an Asian species capable of carrying Yellow or Dengue Fever. Multnomah County (MC) climate supports ideal mosquito and rat habitats. International airport and shipping along with migratory bird flyways provide avenues for new diseases to enter the community. Mosquito control began in MC in the 1930's when malaria was endemic. WNV arrived in MC in 2006 with the death of four birds. Between 2006 and 2007, a total of 19 confirmed cases (birds and humans) have tested positive for WNV in the Portland Metro Area. Additional cases of WNV are expected in 2008. This program reduces vector disease risks using prevention plans based on the World Health Organization and Center for Disease Control best practices. Rodent control is critical to public health. Rodents can spread Hantavirus, plague and other diseases and can affect livability. In 2007, a human case of Hantavirus was identified in East Multnomah County. Vector control protects the community by serving all populations, while focusing on the vulnerable (i.e. elderly, children, homeless). The citizenry understands and expects these program functions.

Performance Measures

Measure Type	Primary Measure	Previous Year Actual (FY06-07)	Current Year Purchased (FY07-08)	Current Year Estimate (FY07-08)	Next Year Offer (FY08-09)
Output	Number of mosquitoes individually analyzed	47,282	60,000	76,521	76,500
Outcome	Mosquitoes prevented	11,583,047	2,884,615	18,609,192	18,609,192
Efficiency	Number of acres treated for mosquitoes per 5 FTE	2,041	1,733	2,056	2,056
Output	Number of rodent inspections conducted	871	1,050	880	880

Performance Measure - Description

MOSQUITOES ANALYZED: Analyzed for species, breeding habitat, population size estimates, disease carrying capacity, etc. **MOSQUITOES PREVENTED:** Based on industry standard estimate methodology: # of mosquitoes individually analyzed/number of acres treated for mosquitoes per 5 FTE X 500,000 (500,000 = 0.5 million mosquitoes per surface acre of water).

ACRES TREATED: This estimate subject to variance in weather patterns, seasonal flooding, characteristics, presence/absence of disease.

RODENT INSPECTIONS CONDUCTED: On-site inspections stemming from rodent complaints (i.e. rat in toilet) received.

Legal/Contractual Obligation

Legal mandates are ORS 452, 167, and 634; OAR 635-7 and 603-57; 1968 Agreement City of Portland and Multnomah County – Title 13 and Title 8; Contracted mandates include 14 federal, regional and local government commitments (+300K).

Revenue/Expense Detail

	Proposed General Fund	Proposed Other Funds	Proposed General Fund	Proposed Other Funds
Program Expenses	2008	2008	2009	2009
Personnel	\$807,831	\$7,712	\$889,524	\$16,845
Contracts	\$74,450	\$3,200	\$83,250	\$3,000
Materials & Supplies	\$161,483	\$2,897	\$161,500	\$3,224
Internal Services	\$186,964	\$1,191	\$200,830	\$1,931
Capital Outlay	\$0	\$0	\$0	\$0
Subtotal: Direct Exps:	\$1,230,728	\$15,000	\$1,335,104	\$25,000
Administration	\$22,832	\$0	\$19,519	\$0
Program Support	\$85,475	\$45,668	\$112,568	\$50,125
Subtotal: Other Exps:	\$108,307	\$45,668	\$132,087	\$50,125
Total GF/non-GF:	\$1,339,035	\$60,668	\$1,467,191	\$75,125
Program Total:	\$1,399,703		\$1,542,316	
Program FTE	10.00	0.30	10.86	0.10
Program Revenues				
Indirect for dep't Admin	\$875	\$0	\$1,453	\$0
Fees, Permits & Charges	\$500	\$0	\$500	\$0
Intergovernmental	\$237,800	\$15,000	\$237,500	\$25,000
Other / Miscellaneous	\$1,000	\$0	\$1,000	\$0
Program Revenue for Admin	\$0	\$45,668	\$0	\$50,125
Total Revenue:	\$240,175	\$60,668	\$240,453	\$75,125

Explanation of Revenues

Significant Program Changes

Last year this program was:

#40008A Vector-borne Disease Prevention & Code Enforcement

The nuisance officer role has been reinstated into the program offer to maintain the Code Enforcement function that was not transferred to City of Portland. General health education funding is being sought due to the loss of grant funding that supported the Health Educator role.