

Program #40008 - Vector-Borne Disease Prevention and Code Enforcement

6/30/2016

Department:Health DepartmentProgram Contact:Jae Douglas

Program Offer Type: Existing Operating Program Program Offer Stage: As Adopted

Related Programs: 40007, 40037

Program Characteristics:

Executive Summary

This program protects the public from emerging and imminent vector-borne (animal to human) diseases and reduces the social/economic impact of uncontained outbreaks. Some major diseases are vector borne, such as Hantavirus, West Nile Virus, and emerging Zika virus. Climate changes in the NW (warming winter temperatures, increase in rainfall, and urban landscape mgmt) will increase the risk of vector-borne diseases. Interventions include surveillance, analysis, proactive control/abatement of rodents and mosquitos, and public education. Program includes enforcement of nuisance codes.

Program Summary

Multnomah County's 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 the county in the 1930s, when malaria was endemic. In 2015, ten counties in Oregon reported 74 mosquito-cases of West Nile Virus. There were no cases detected in Multnomah County. It is necessary to maintain current levels of surveillance and control to ensure early prevention and suppression of this disease using 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. A survey in the county rat population showed Toxoplasmosis (Cat Box Fever) in6% of the rat population. Vector Control protects the community by serving all populations, while focusing on the vulnerable (i.e. elderly, children, homeless). The program solicits input from a Commissioner-appointed Citizen Advisory Committee.

Objectives: Collection and identification of mosquitoes, birds and rats. Monitor for and respond to emerging vector-borne disease such as Zika virus and now-endemic West Nile Virus. Perform laboratory analysis on rats and mosquitoes to determine what species carry disease, their preferred habitats, and population size. Abate and or suppress mosquitoes that carry West Nile Virus with larvicides with the least impact, reduce the population by water control and vegetation management to reduce breeding habitat. Educate the average resident and vulnerable people about preventing vectors and their habitat through community meetings, pamphlets and the media.

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 specified animals (e.g., bees, livestock, and birds).

Performance Measures								
Measure Type	Primary Measure	FY15 Actual	FY16 Purchased	FY16 Estimate	FY17 Offer			
Output	Number of acres treated for mosquitoes	1,066	2,600	2,200	2,200			
Outcome	Mosquitoes prevented (In billions)*	0.53	1.30	1.10	1.10			
Efficiency	Number of acres treated for mosquitoes per FTE	213	520	440	440			
Output	Number of rodent inspections conducted	1,030	850	850	900			

Performance Measures Descriptions

1) Total acreage where mosquito suppression activities occurred is subject to variance in weather patterns, seasonal flooding, characteristics, and presence/absence of disease. 2) Based on industry standard estimate methodology: 500,000 mosquitoes per surface acre of water multiplied by number of acres treated estimates mosquitoes prevented (to nearest whole number). 3) Total acreage treated per FTE. Five FTE were used to treat for mosquitoes in all reported years' calculations. 4) On-site inspections stemming from rodent complaints received.

Legal / Contractual Obligation

Legal mandates are ORS 167, 452, 498, 506, and 634; OAR 635 and 603; 1968 Agreement City of Portland and Multnomah County – Title 13 and Title 8; MC 2011-129; NPDES General Aquatic Permit for Mosquito Control 2300A, Indoor Air Quality Act MC 21.500; 6 contractual mandates include grants, contracts, Federal, regional and local mandates.

Revenue/Expense Detail

	Proposed General Fund	Proposed Other Funds	Proposed General Fund	Proposed Other Funds
Program Expenses	2016	2016	2017	2017
Personnel	\$961,155	\$0	\$952,733	\$0
Contractual Services	\$51,000	\$0	\$64,500	\$0
Materials & Supplies	\$110,608	\$0	\$106,461	\$0
Internal Services	\$199,129	\$0	\$213,644	\$0
Total GF/non-GF	\$1,321,892	\$0	\$1,337,338	\$0
Program Total: \$1,321,892		\$1,337,338		
Program FTE	10.00	0.00	9.60	0.00

Program Revenues							
Fees, Permits & Charges	\$100	\$0	\$100	\$0			
Intergovernmental	\$3,000	\$0	\$3,000	\$0			
Other / Miscellaneous	\$1,000	\$0	\$1,000	\$0			
Service Charges	\$290,935	\$0	\$290,935	\$0			
Total Revenue	\$295,035	\$0	\$295,035	\$0			

Explanation of Revenues

Local municipalities' revenue contracts equal \$295,035.00. Remainder is County General Fund.

Significant Program Changes

Last Year this program was: FY 2016: 40008-16 Vector-Borne Disease Prevention and Code Enforcement