

461 - Department of Ecology

A002 Administration

The administration activity supports agency functions by providing leadership, cross-program support, and staff presence throughout the state. Administration manages the agency's long-term financial health and provides information to support sound decision-making and resource management by managers. Communication, education, and outreach tools play a major role in protecting and improving the environment. Administration staff serve as liaisons to Congress, the state Legislature, local governments, businesses, Indian tribes, and environmental and citizen groups. Administration helps managers and employees create a safe, supportive, and diverse work environment by providing comprehensive human resource services. It also oversees information management (desktop and network services, application development, and data administration) and facility and vehicle management; maintains the agency's centralized records and library resources; responds to public records requests; and provides mail services.

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	171.2	163.7	167.5
219 Air Operating Permit Account			
219-1 State	\$170,000	\$159,000	\$329,000
216 Air Pollution Control Account			
216-1 State	\$151,000	\$113,000	\$264,000
10A Aquatic Algae Control Account			
10A-1 State	\$4,000	\$6,000	\$10,000
199 Biosolids Permit Account			
199-1 State	\$102,000	\$98,000	\$200,000
315 Dedicated Marijuana Account			
315-1 State	\$34,000	\$44,000	\$78,000
11J Electronic Products Recycling Account			
11J-6 Non-Appropriated	\$21,000	\$38,000	\$59,000
02P Flood Control Assistance Account			
02P-1 State	\$213,000	\$69,000	\$282,000
222 Freshwater Aquatic Weeds Account			
222-1 State	\$24,000	\$23,000	\$47,000
001 General Fund			
001-1 State	\$2,052,000	\$2,090,000	\$4,142,000
001-2 Federal	\$2,371,000	\$2,565,000	\$4,936,000
001-7 Private/Local	\$470,000	\$506,000	\$976,000
001 Account Total	\$4,893,000	\$5,161,000	\$10,054,000
207 Hazardous Waste Assistance Account			
207-1 State	\$293,000	\$284,000	\$577,000
23P Model Toxics Control Operating Account			
23P-1 State	\$8,719,000	\$9,001,000	\$17,720,000
217 Oil Spill Prevention Account			
217-1 State	\$419,000	\$410,000	\$829,000
23W Paint Product Stewardship Account			
23W-1 State	\$5,000	\$10,000	\$15,000
489 Pension Funding Stabilization Account			
489-1 State	\$132,000	\$132,000	\$264,000
22G Photovoltaic Module Recycling Account			
22G-6 Non-Appropriated	\$2,000	\$0	\$2,000

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Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
16T Product Stewardship Programs Account			
16T-6 Non-Appropriated	\$9,000	\$10,000	\$19,000
20R Radioactive Mixed Waste Account			
20R-1 State	\$892,000	\$910,000	\$1,802,000
027 Reclamation Account			
027-1 State	\$130,000	\$133,000	\$263,000
182 Underground Storage Tank Account			
182-1 State	\$191,000	\$191,000	\$382,000
044 Waste Reduction/Recycling/Litter Control			
044-1 State	\$474,000	\$532,000	\$1,006,000
564 Water Pollution Control Revol Admin			
564-1 State	\$207,000	\$163,000	\$370,000
176 Water Quality Permit Account			
176-1 State	\$2,155,000	\$2,030,000	\$4,185,000
160 Wood Stove Education and Enforcement Account			
160-1 State	\$11,000	\$19,000	\$30,000
163 Worker and Community Right-to-Know Account			
163-1 State	\$67,000	\$64,000	\$131,000
22K Watershed Restoration and Enhancement Account			
22K-6 Non-Appropriated	\$0	\$89,000	\$89,000

Statewide Result Area: Sustainable Energy and a Clean Environment

Statewide Strategy: Preserve, maintain and restore natural systems and landscapes

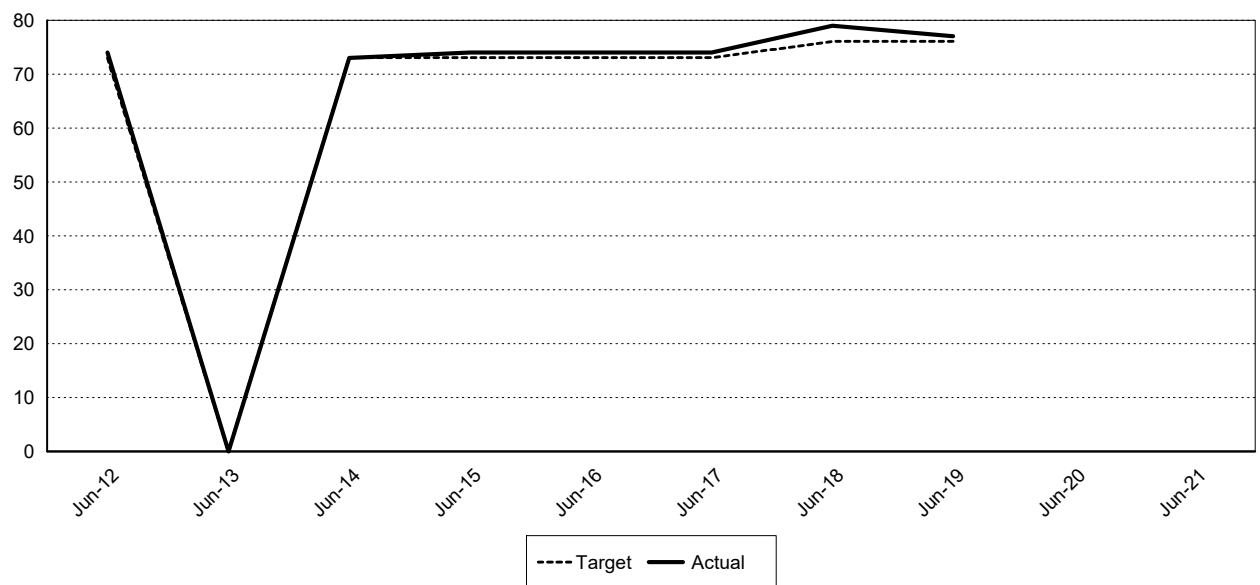
Expected Results

Agency managers, the Governor, the State Auditor, the Office of Financial Management (OFM), and the Legislature have confidence in Ecology's financial information and can use it to make decisions affecting the environment. The public is educated about Ecology's work and role in environmental protection and understands the policies the agency is developing and the opportunities available to influence its decisions. Washington's environmental laws and rules are improved through Ecology's relationships with legislators, local governments, businesses, Indian tribes, and environmental and citizen groups. Ecology managers and supervisors possess the highest-quality communication, performance management, hiring, and leadership skills. The Ecology work environment reflects the diversity of the community it serves. Agency staff receives reliable, secure, and high-quality desktop support and network services. Customers have easy access to information. Facilities and vehicles are well-maintained, safe and efficient.

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002728			
Biennium	Period	Actual	Target
2019-21	A3		
	A2		
2017-19	A3	77%	76%
	A2	79%	76%
2015-17	A3	74%	73%
	A2	74%	73%

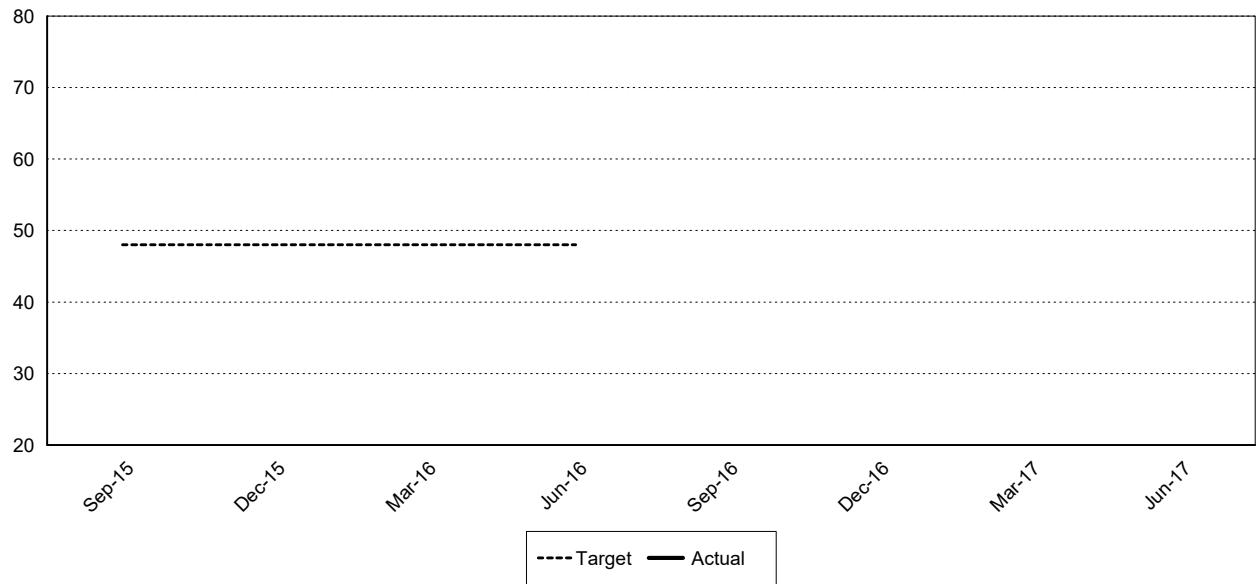
Percent **002728 - By survey, percent of employees indicating they are usually or always satisfied with their jobs.**



002770 kBtu per square foot per quarter			
Biennium	Period	Actual	Target
2015-17	Q8		
	Q7		
	Q6		
	Q5		
	Q4		48%
	Q3		48%
	Q2		48%
	Q1		48%

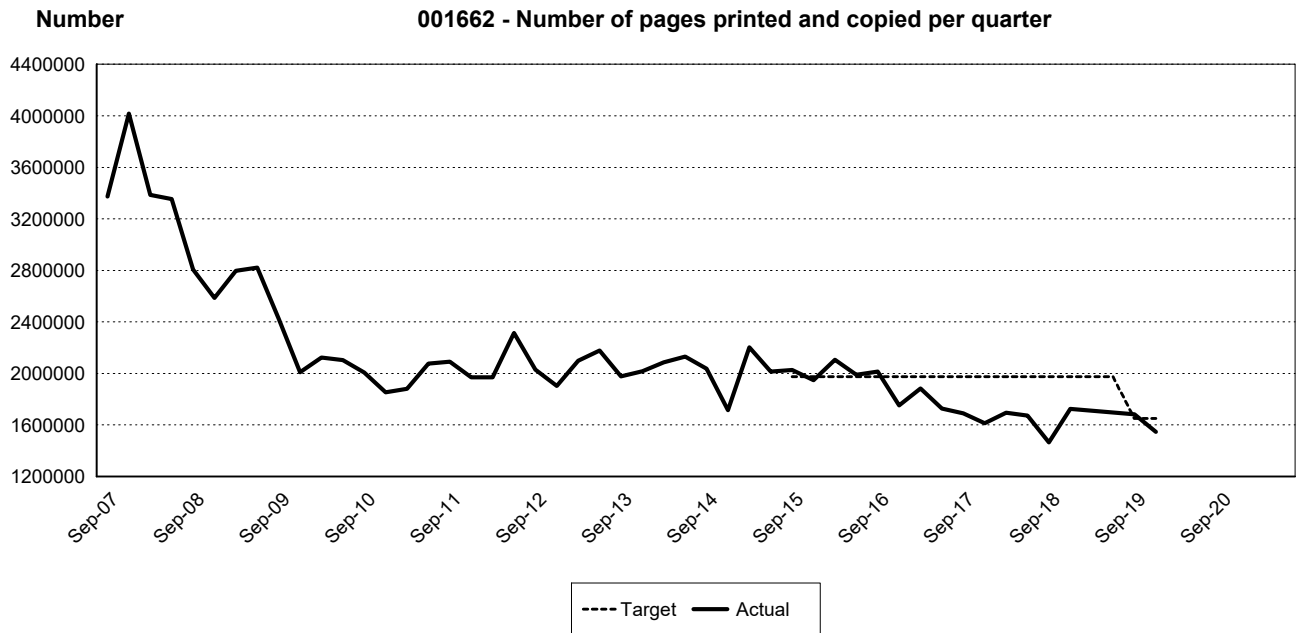
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Percent **002770 - Energy use index for Ecology facilities over 10,000 sq. ft.(measured as energy used per sq. ft./qtr)**



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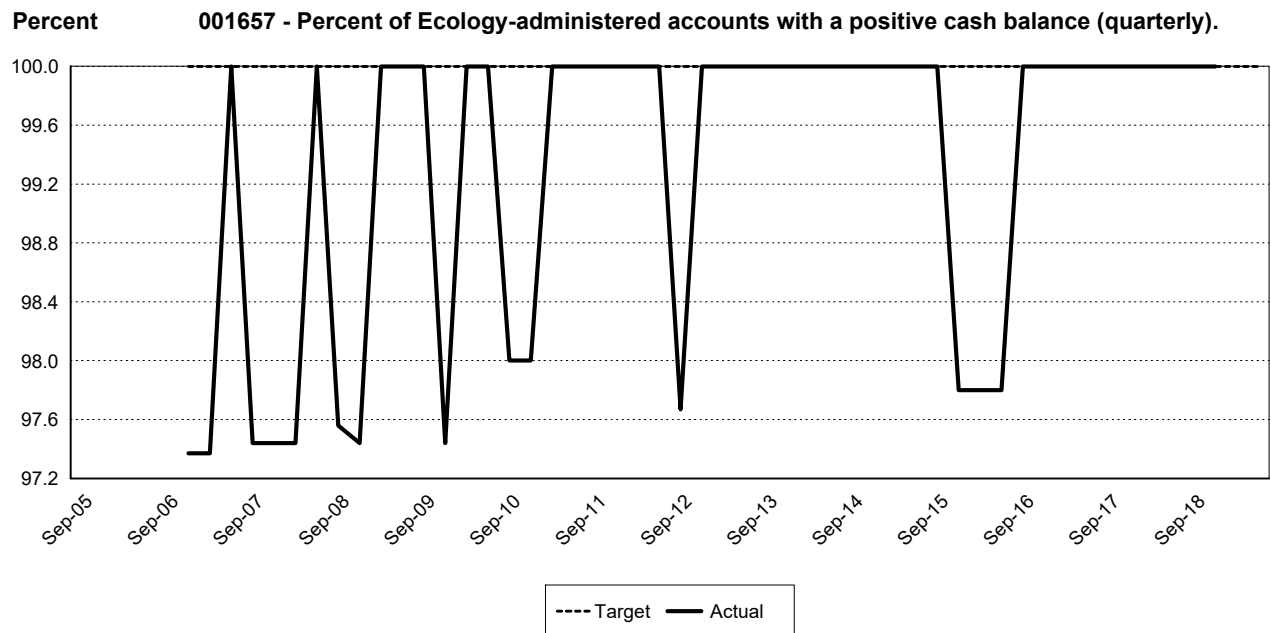
001662 The number of pages printed and copied per quarter.			
Biennium	Period	Actual	Target
2019-21	Q8		
	Q7		
	Q6		
	Q5		
	Q4		
	Q3		
	Q2	1,546,904	1,648,859
	Q1	1,682,770	1,648,859
2017-19	Q8		1,974,373
	Q7		1,974,373
	Q6	1,723,883	1,974,373
	Q5	1,465,182	1,974,373
	Q4	1,672,117	1,974,373
	Q3	1,695,175	1,974,373
	Q2	1,613,492	1,974,373
	Q1	1,689,818	1,974,373
2015-17	Q8	1,726,027	1,974,373
	Q7	1,882,021	1,974,373
	Q6	1,750,175	1,974,373
	Q5	2,014,994	1,974,373
	Q4	1,988,306	1,974,373
	Q3	2,104,878	1,974,373
	Q2	1,948,017	1,974,373
	Q1	2,026,143	1,974,373



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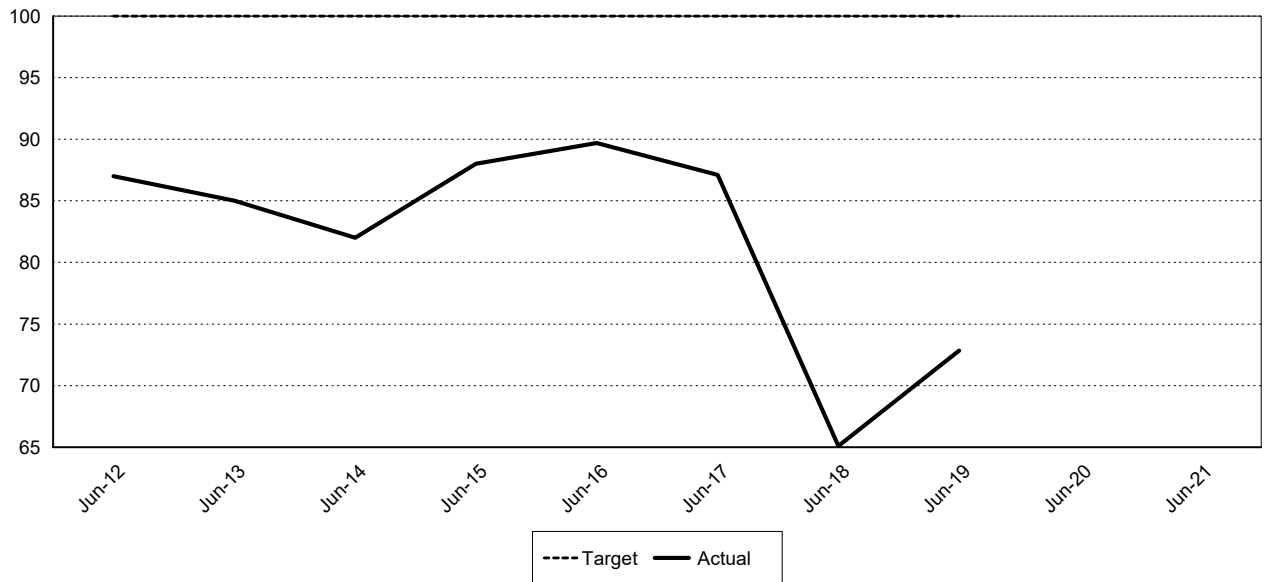
001657 Percent of Ecology-administered dedicated accounts with a positive cash balance at the end of each quarter.			
Biennium	Period	Actual	Target
2017-19	Q8		100%
	Q7		100%
	Q6	100%	100%
	Q5	100%	100%
	Q4	100%	100%
	Q3	100%	100%
	Q2	100%	100%
	Q1	100%	100%
2015-17	Q8	100%	100%
	Q7	100%	100%
	Q6	100%	100%
	Q5	100%	100%
	Q4	97.8%	100%
	Q3	97.8%	100%
	Q2	97.8%	100%
	Q1	100%	100%

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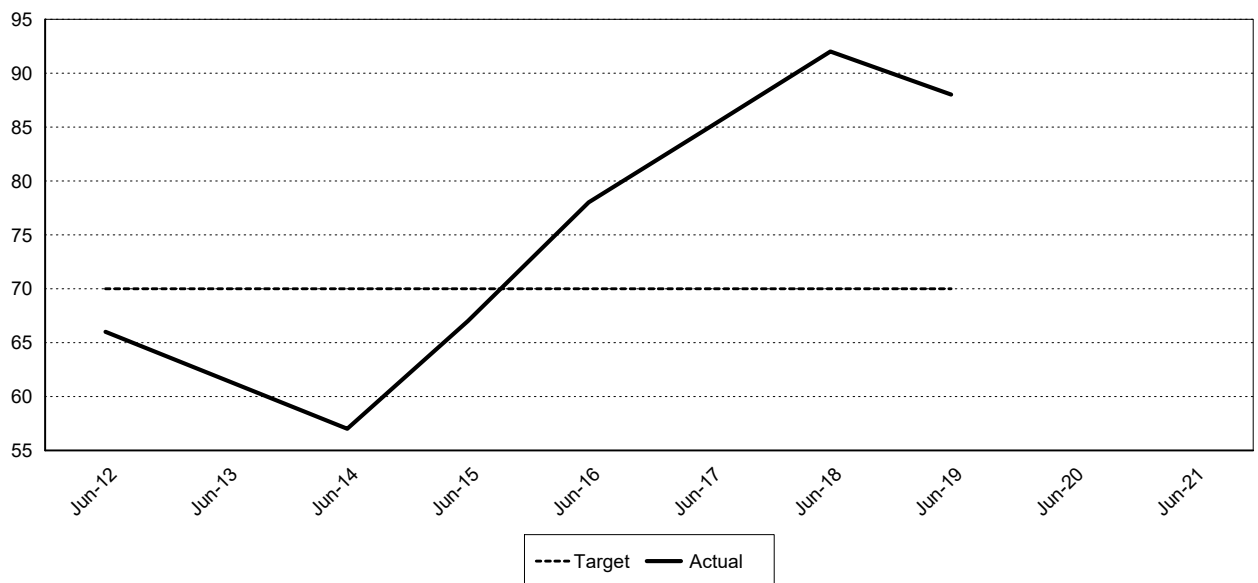
002727 Percentage of current employees who have completed performance development plans			
Biennium	Period	Actual	Target
2019-21	A3		
	A2		
2017-19	A3	72.83%	100%
	A2	65.1%	100%
2015-17	A3	87.11%	100%
	A2	89.68%	100%

Percent 002727 - Percentage of current employees who have completed performance development plans



002729 Percentage of Ecology employees taking the annual employee survey.			
Biennium	Period	Actual	Target
2019-21	A3		
	A2		
2017-19	A3	88%	70%
	A2	92%	70%
2015-17	A3	85%	70%
	A2	78%	70%

Percent 002729 - Percentage of Ecology employees taking the annual employee survey

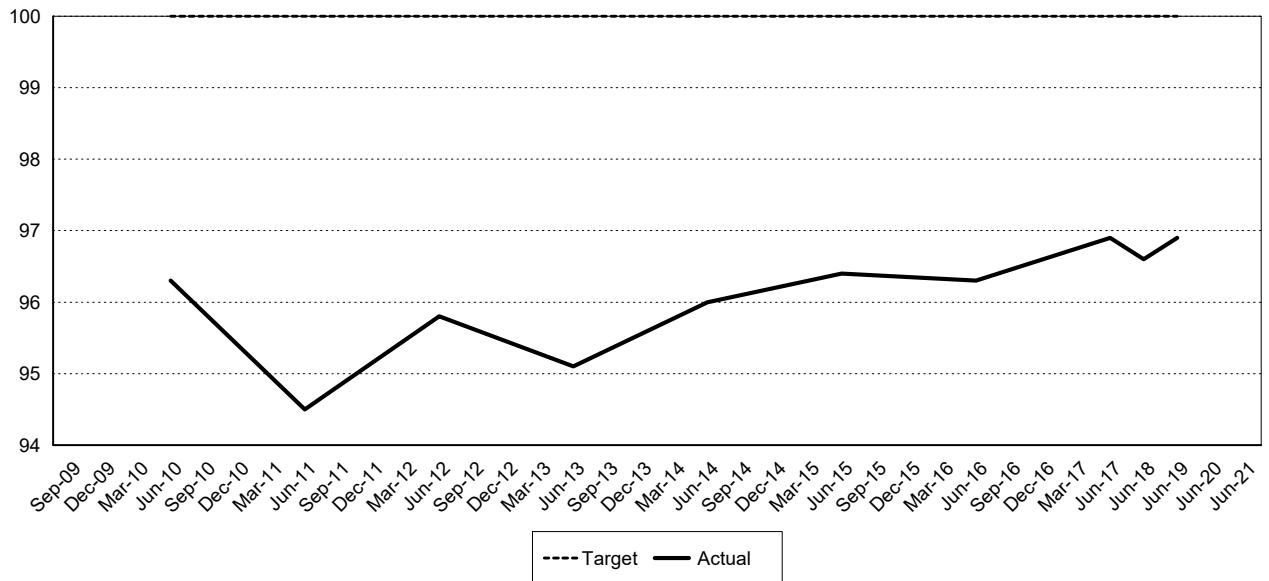


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001767 Percentage of employees who are accident-free.			
Biennium	Period	Actual	Target
2019-21	A3		
	A2		
2017-19	A3	96.9%	100%
	A2	96.6%	100%
2015-17	A3		
	A3	96.9%	100%
	A2		
	A2	96.3%	100%
	A2		
	A2		
	A1		
	A1		

Percent

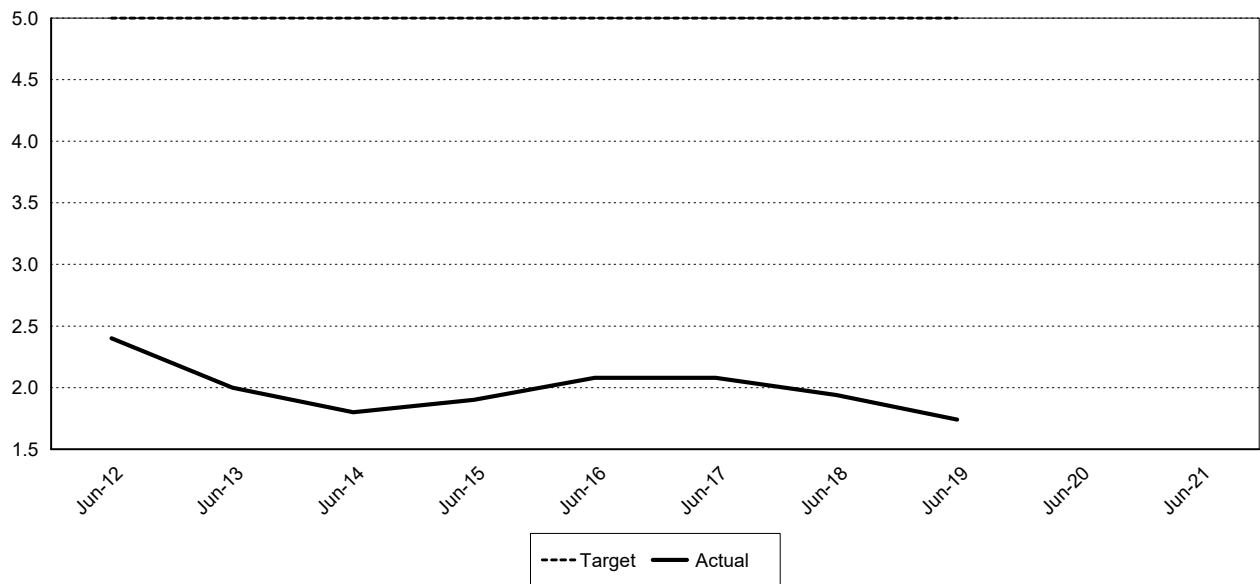
001767 - Percentage of Ecology employees who are accident-free



002719 Percentage of Ecology's workforce who self-identify as a person living with a disability.			
Biennium	Period	Actual	Target
2019-21	A3		
	A2		
2017-19	A3	1.74%	5%
	A2	1.94%	5%
2015-17	A3	2.08%	5%
	A2	2.08%	5%

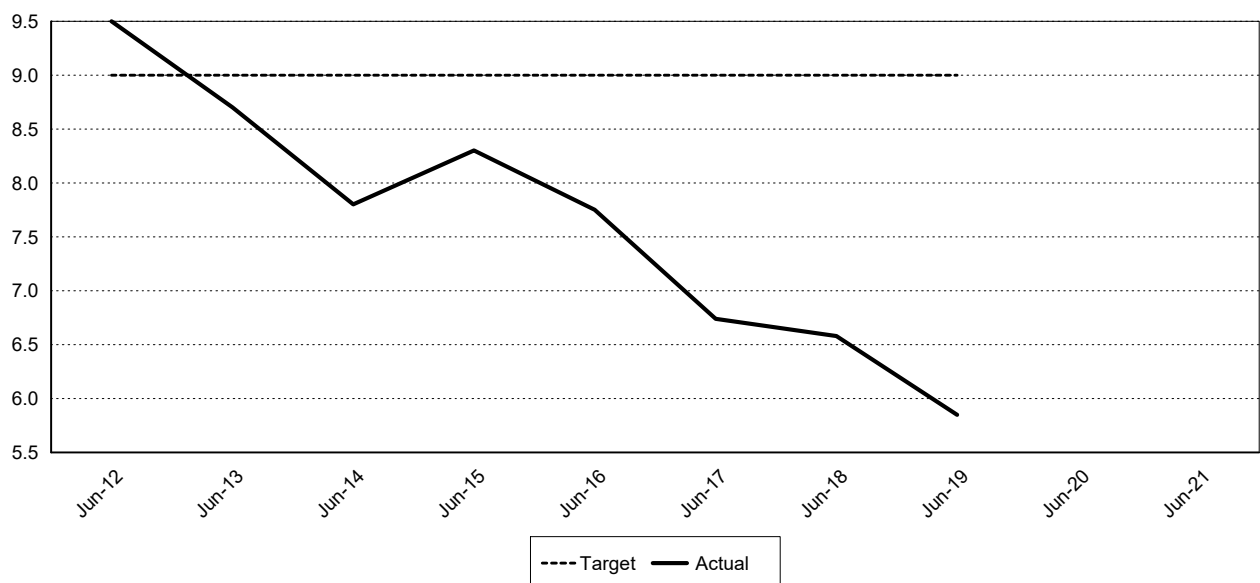
Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

Percent

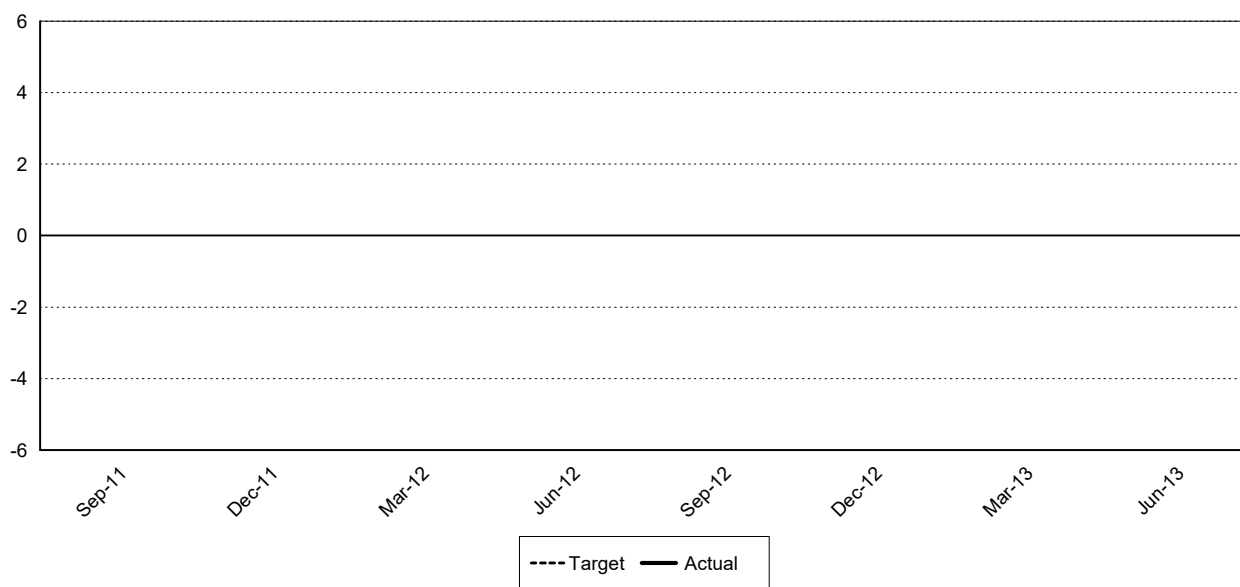
002719 - Percentage of Ecology's workforce who self-identify as a person living with a disability

002726 Percentage of Ecology's workforce who self-identify as a veteran.			
Biennium	Period	Actual	Target
2019-21	A3		
	A2		
2017-19	A3	5.85%	9%
	A2	6.58%	9%
2015-17	A3	6.74%	9%
	A2	7.75%	9%

Percent

002726 - Percentage of Ecology's workforce who self-identify as a veteran

Number 001655 - Refer to Above Narrative Justification and Impact Statement



A003 Implementing Integrated Solutions to Protect Instream Resources

Ecology staff seeks to meet increasing water demands from population growth, while protecting limited instream resources and adapting to climate change. Actions include:

- Instream flow rules - Work with local stakeholders to implement and update, as needed, instream flow rules for fish and wildlife, recreation, and other instream resources. Evaluate regions of the state that are experiencing conflict over water, as potential areas for adjudication.
- Streamflow Restoration - Work with watershed groups to establish or revise a streamflow restoration plan to mitigate the impacts of new domestic water use.
- Section 401 federal licensing of dams - Collaborate with local governments, tribes, and other stakeholders to develop permit conditions for hydropower facilities that ensure minimum instream flows are met and that stream flows are adjusted to adapt to water supply conditions during the 50 year license period.
- Water acquisition - Acquire senior water rights to restore and protect stream flows. Review municipal and industrial reclaimed water projects and water system plans to ensure new uses of water do not impair senior rights. Monitor water supply conditions that may impact water rights and the environment, and respond when water supplies are impacted by drought.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	44.7	50.2	47.5
032 State Emergency Water Projects Revolving Account			
032-1 State	\$15,000	\$25,000	\$40,000
02P Flood Control Assistance Account			
02P-1 State	\$1,508,000	\$0	\$1,508,000
001 General Fund			
001-1 State	\$8,875,000	\$8,108,000	\$16,983,000
001-2 Federal	\$100,000	\$98,000	\$198,000
001-7 Private/Local	\$67,000	\$68,000	\$135,000
001 Account Total	\$9,042,000	\$8,274,000	\$17,316,000
072 State and Local Improvements Revolving Account (Water Supply Facilities)			
072-1 State	\$87,000	\$84,000	\$171,000
489 Pension Funding Stabilization Account			
489-1 State	\$177,000	\$177,000	\$354,000
05W State Drought Preparedness Account			
05W-1 State	\$125,000	\$79,000	\$204,000
22K Watershed Restoration and Enhancement Account			
22K-6 Non-Appropriated	\$0	\$911,000	\$911,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Achieve sustainable use of public natural resources

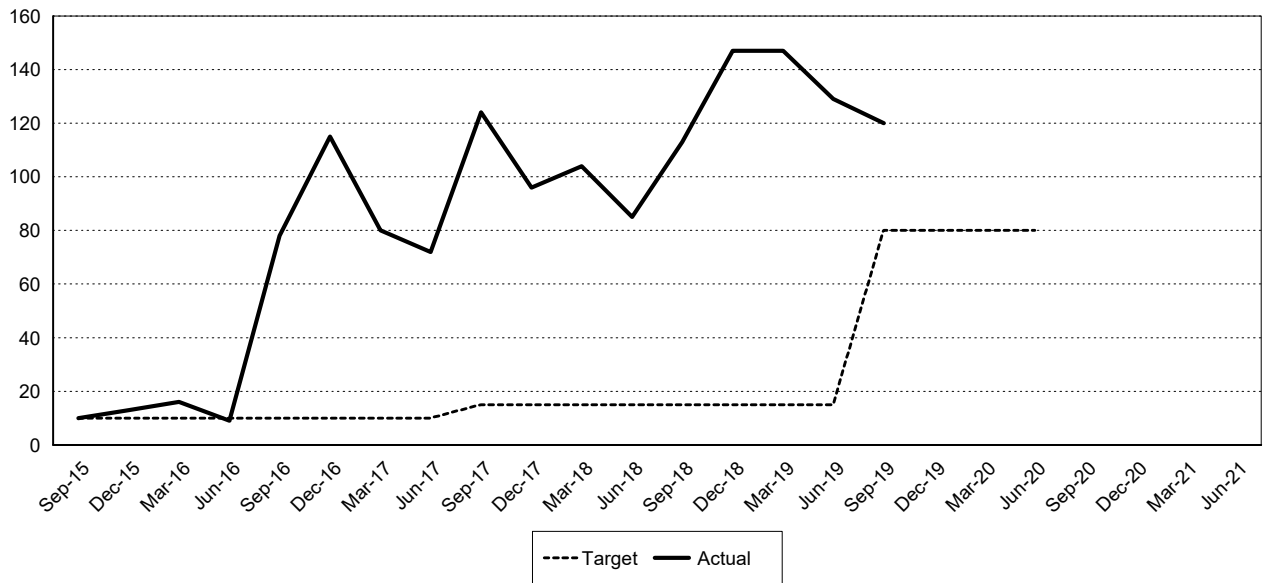
Expected Results

- Water will be available to meet the needs, today and into the future, for communities, agriculture, industry, and fish.
- Permanent instream flow protections are in place, agricultural irrigation is efficient, and Washington communities manage their water resources sustainably.
- Impacts from new water uses are offset by streamflow restoration projects.

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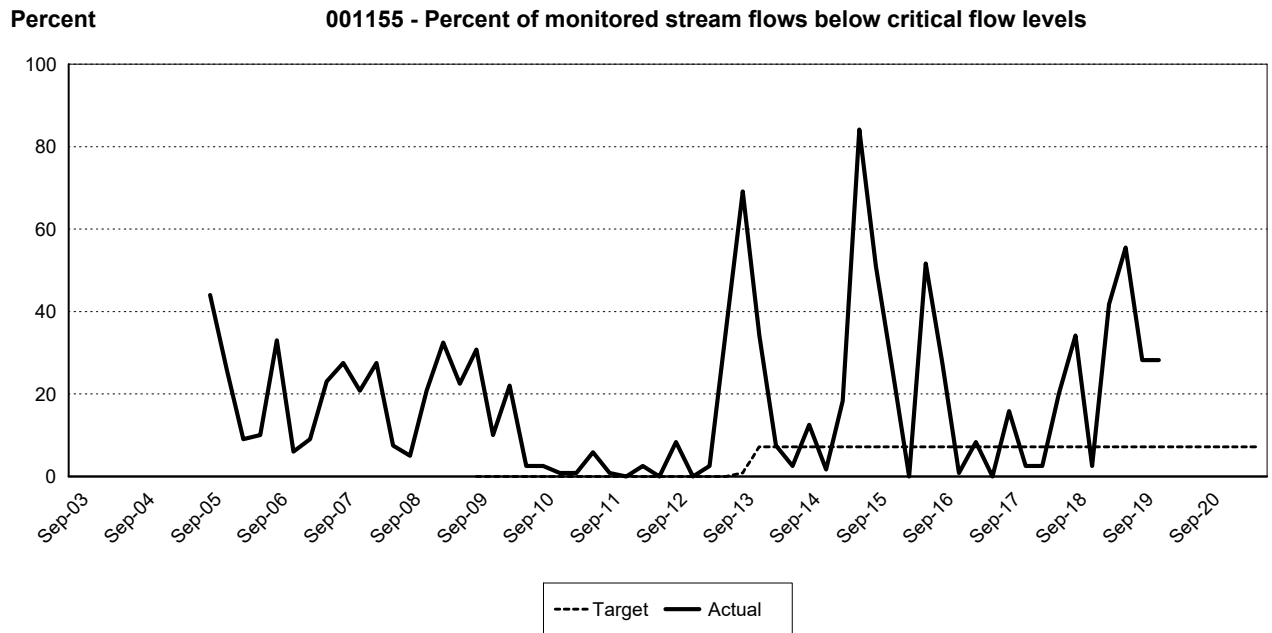
002772 Number of technical assistance visits, calls, or emails to local organizations			
Biennium	Period	Actual	Target
2019-21	Q8		
	Q7		
	Q6		
	Q5		
	Q4		80
	Q3		80
	Q2		80
	Q1	120	80
2017-19	Q8	129	15
	Q7	147	15
	Q6	147	15
	Q5	113	15
	Q4	85	15
	Q3	104	15
	Q2	96	15
	Q1	124	15
2015-17	Q8	72	10
	Q7	80	10
	Q6	115	10
	Q5	78	10
	Q4	9	10
	Q3	16	10
	Q2	13	10
	Q1	10	10

Number **002772 - Number of technical assistance visits, calls, or emails to local organizations**



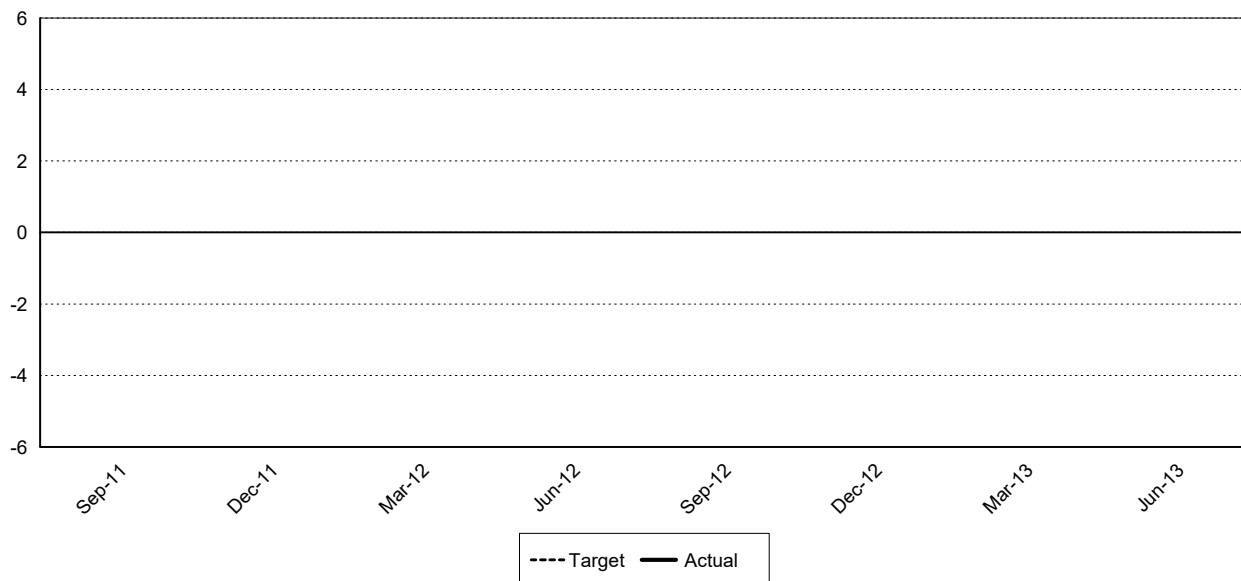
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001155 Percentage of monitored stream flows below critical flow levels.			
Biennium	Period	Actual	Target
2019-21	Q8		7.13%
	Q7		7.13%
	Q6		7.13%
	Q5		7.13%
	Q4		7.13%
	Q3		7.13%
	Q2	28.2%	7.13%
	Q1	28.2%	7.13%
2017-19	Q8	55.5%	7.13%
	Q7	41.8%	7.13%
	Q6	2.5%	7.13%
	Q5	34.2%	7.13%
	Q4	20.1%	7.13%
	Q3	2.5%	7.13%
	Q2	2.5%	7.13%
	Q1	15.8%	7.13%
2015-17	Q8	0%	7.13%
	Q7	8.3%	7.13%
	Q6	0.8%	7.13%
	Q5	27.5%	7.13%
	Q4	51.7%	7.13%
	Q3	0%	7.13%
	Q2	25.8%	7.13%
	Q1	51%	7.13%



Number

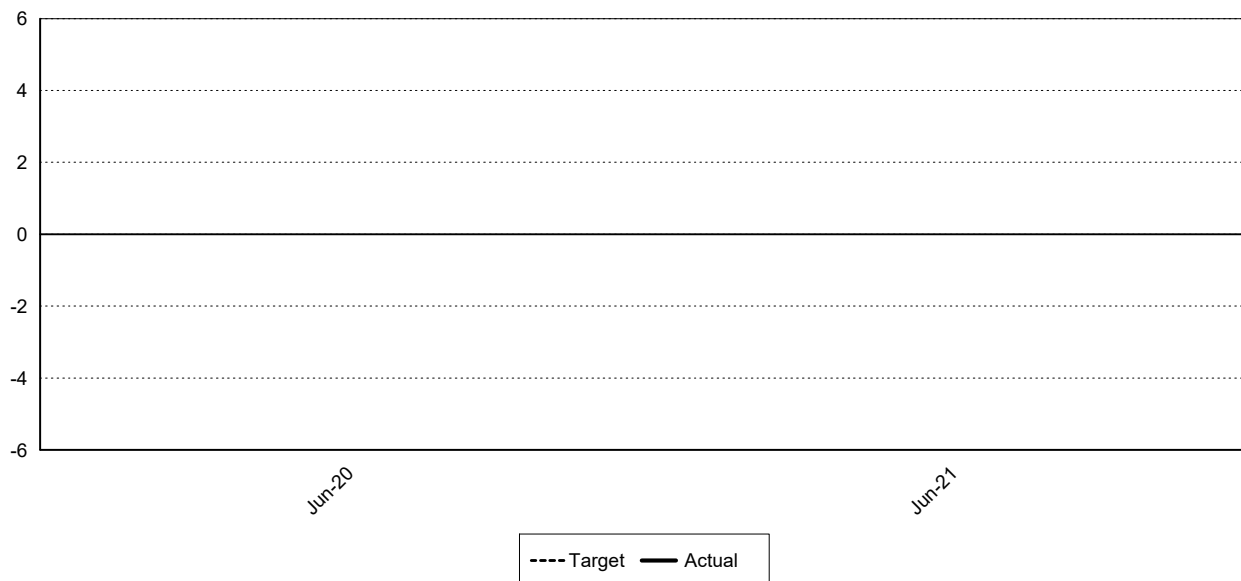
001655 - Refer to Above Narrative Justification and Impact Statement



002954			
Biennium	Period	Actual	Target
2019-21	A3		
	A2		

Number

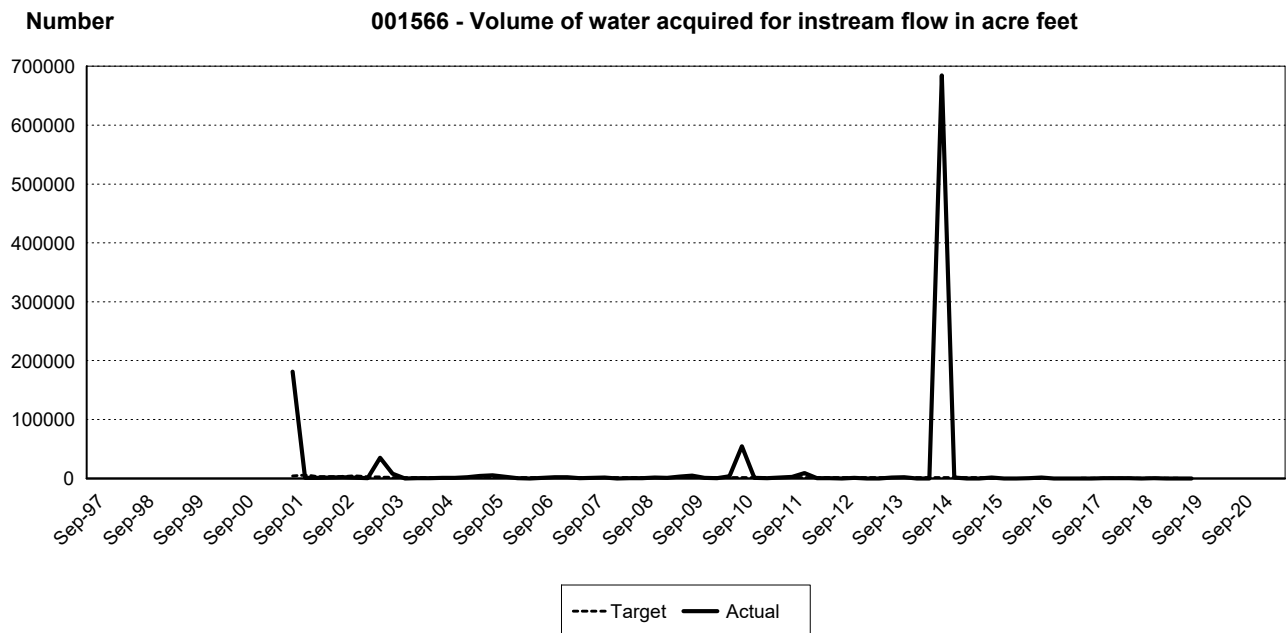
002954 - The number of watershed plans adopted by 2021.



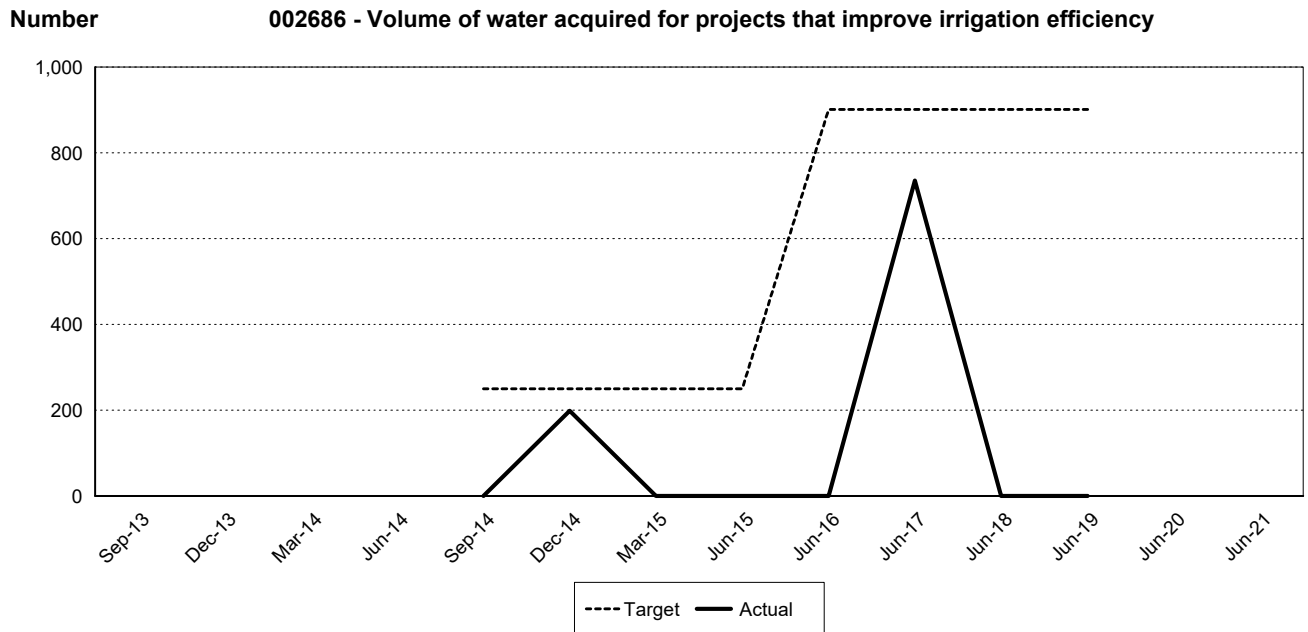
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001566 Volume of water acquired for instream flow in acre feet.			
Biennium	Period	Actual	Target
2019-21	Q8		
	Q7		
	Q6		
	Q5		
	Q4		
	Q3		
	Q2		
	Q1	0	
2017-19	Q8	0	500
	Q7	0	500
	Q6	138.93	500
	Q5	52.13	500
	Q4	259.47	500
	Q3	336.54	500
	Q2	550.22	500
	Q1	0	500
2015-17	Q8	0	50
	Q7	0	50
	Q6	0	50
	Q5	1,210	50
	Q4	250	50
	Q3	0	50
	Q2	0	50
	Q1	1,167	50

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002686 Volume of water acquired for projects that improve irrigation efficiency.			
Biennium	Period	Actual	Target
2019-21	A3		
	A2		
2017-19	A3	0.25	900
	A2	0	900
2015-17	A3	735	900
	A2	0	900



A005 Clean up the Most Contaminated Sites First (Upland and Aquatic)

Ecology protects public health and natural resources by cleaning up and managing contaminated upland sites and contaminated sediments in the aquatic environment. Resources are first focused on cleaning up contaminated sites that pose the greatest risk to public health and the environment. These include sites where contamination threatens drinking water, exists in a large quantity, is very toxic, may affect a waterbody or the environmental health of sediments, or may affect people that are living, working, or recreating near the site. Contamination may be in the soil, sediments, underground water, air, drinking water, or surface water. Ecology also manages multi agency upland and sediment cleanup projects. Cleaning up these sites protects public health, safeguards the environment, and promotes local economic development by making land available for new industries and other beneficial uses.

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Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	157.8	157.8	157.8
001 General Fund			
001-2 Federal	\$3,358,000	\$3,778,000	\$7,136,000
001-7 Private/Local	\$1,431,000	\$1,573,000	\$3,004,000
001 Account Total	\$4,789,000	\$5,351,000	\$10,140,000
23P Model Toxics Control Operating Account			
23P-1 State	\$19,031,000	\$20,883,000	\$39,914,000
23P-7 Private/Local	\$249,000	\$250,000	\$499,000
23P Account Total	\$19,280,000	\$21,133,000	\$40,413,000
176 Water Quality Permit Account			
176-1 State	\$787,000	\$790,000	\$1,577,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Preserve, maintain and restore natural systems and landscapes

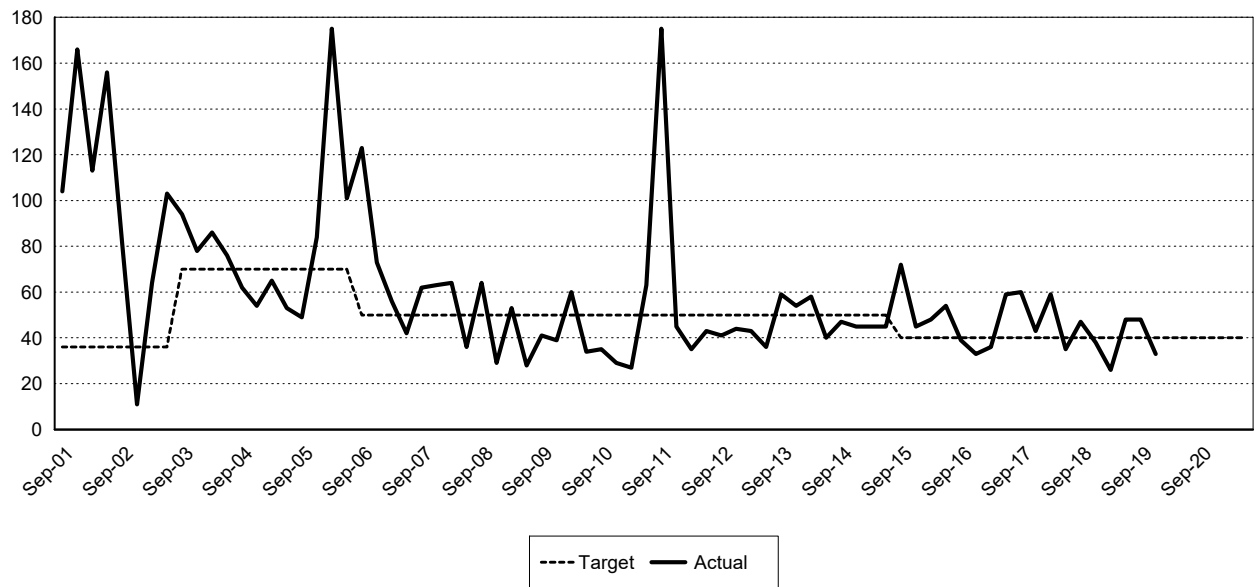
Expected Results

The number of highly contaminated sites cleaned up increases by three percent each year. Public and environmental health is protected. Toxic contamination in food fish is reduced and the aquatic environment is protected. Cleaned sites are ready for redevelopment and job creation. The number of sites with cleanup actions in progress will increase.

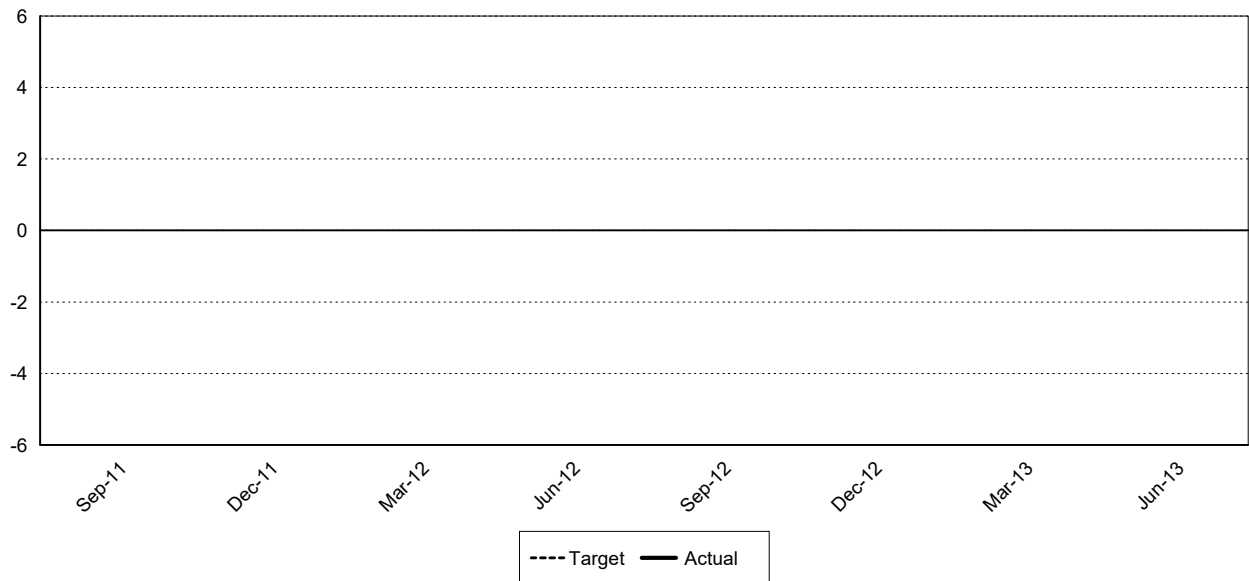
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001501 Number of known toxics-contaminated sites with cleanup actions completed.			
Biennium	Period	Actual	Target
2019-21	Q8		40
	Q7		40
	Q6		40
	Q5		40
	Q4		40
	Q3		40
	Q2	33	40
	Q1	48	40
2017-19	Q8	48	40
	Q7	26	40
	Q6	38	40
	Q5	47	40
	Q4	35	40
	Q3	59	40
	Q2	43	40
	Q1	60	40
2015-17	Q8	59	40
	Q7	36	40
	Q6	33	40
	Q5	39	40
	Q4	54	40
	Q3	48	40
	Q2	45	40
	Q1	72	40

Number **001501 - Number of known toxics contaminated sites with cleanup actions completed statewide**



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Number 001655 - Refer to Above Narrative Justification and Impact Statement**A006 Clean Up Polluted Waters**

The federal Clean Water Act requires the agency to develop water quality standards and to identify water bodies that fail to meet those standards. The agency does this by reviewing thousands of water quality data samples and publishing an integrated water quality assessment report. This report lists the water bodies that do not meet standards. Ecology then works with local interests to prepare water quality improvement reports to reduce pollution, establish conditions in discharge permits and nonpoint source management plans, and monitor the effectiveness of the improvement report.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	35.8	35.1	35.5
001 General Fund			
001-1 State	\$281,000	\$288,000	\$569,000
001-2 Federal	\$1,970,000	\$1,718,000	\$3,688,000
001 Account Total	\$2,251,000	\$2,006,000	\$4,257,000
23P Model Toxics Control Operating Account			
23P-1 State	\$2,284,000	\$2,483,000	\$4,767,000
176 Water Quality Permit Account			
176-1 State	\$290,000	\$254,000	\$544,000

Statewide Result Area: Sustainable Energy and a Clean Environment

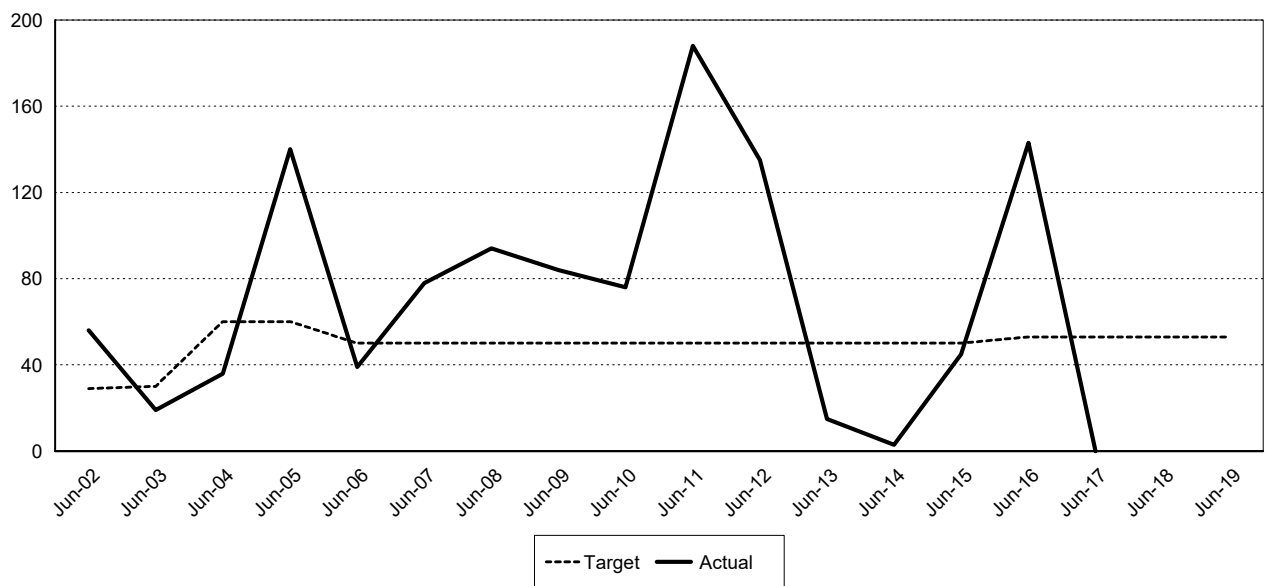
Statewide Strategy: Preserve, maintain and restore natural systems and landscapes

Expected Results

Water quality improvement reports are in place to protect public health and the environment. 1,500 contaminated water body segments are managed on 650 water bodies (Washington's legal commitments specified in a Memorandum of Agreement prompted by a lawsuit). Fifty water improvement reports and associated technical reports are submitted each year to the Environmental Protection Agency. Local communities get help implementing water quality improvement reports. An updated list of marine water bodies failing to meet water quality standards is developed.

001553 Number of water quality cleanup plans submitted to the US Environmental Protection Agency			
Biennium	Period	Actual	Target
2017-19	A3		53
	A2		53
2015-17	A3	0	53
	A2	143	53

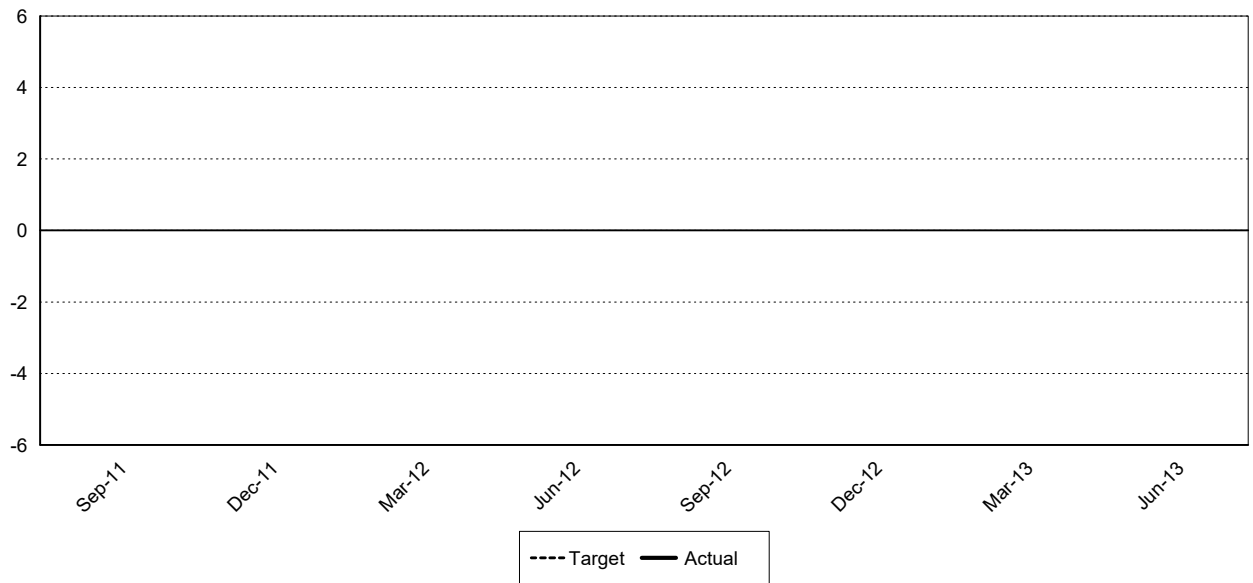
Number 001553 - Number of water quality cleanup plans submitted to the US Environmental Protection Agency



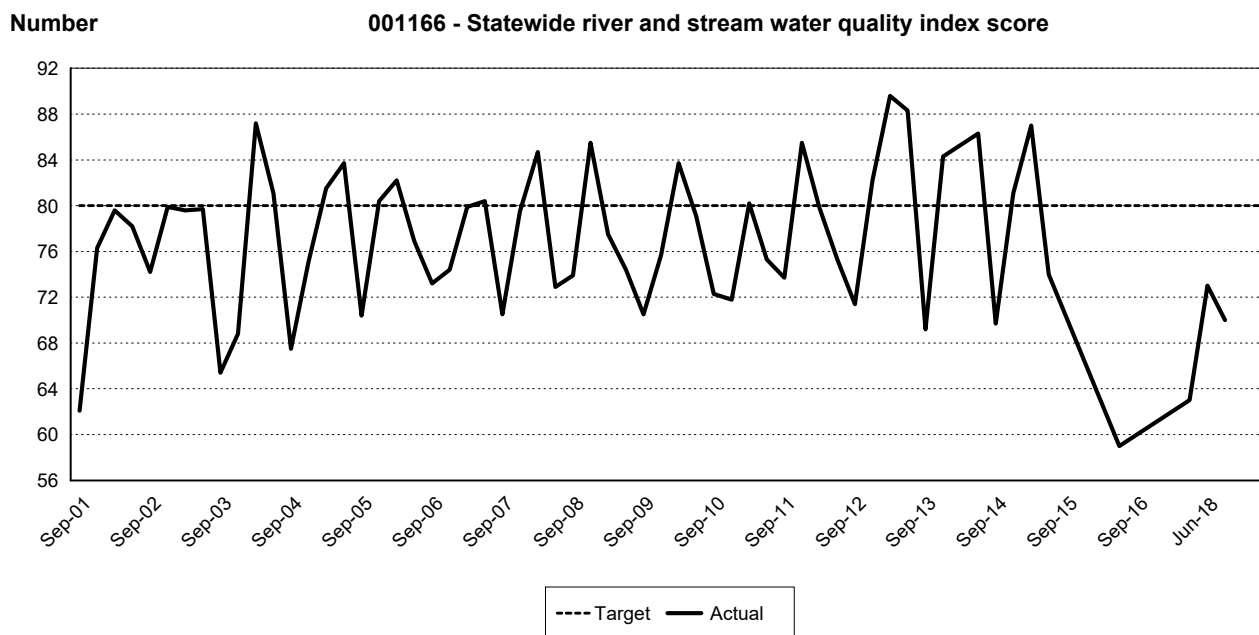
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Number

001655 - Refer to Above Narrative Justification and Impact Statement



001166 Statewide river and stream water quality index score.			
Biennium	Period	Actual	Target
2019-21	A3		80
	A2		80
2017-19	A3	70	80
	A2	73	80
2015-17	A3		
	A3	63	80
	A2		
	A2	59	80
	A2		
	A1		
	A1		



A007 Conduct Environmental Studies for Pollution Source Identification and Control

Ecology conducts pollution identification studies to address known or suspected problems at specific sites and across regional areas. These studies support our efforts under the federal Clean Water Act, as well as the state Water Pollution Control and Model Toxics Control Acts. Studies range from simple water quality sampling for bacteria or dissolved oxygen, to very complex projects assessing the amount of nutrients in large watersheds. Many projects support development of water quality improvement plans or Total Maximum Daily Load (TMDLs) to assess how much of a pollutant a waterbody can absorb without exceeding water quality standards.

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	65.5	64.7	65.1
001 General Fund			
001-2 Federal	\$2,070,000	\$2,498,000	\$4,568,000
207 Hazardous Waste Assistance Account			
207-1 State	\$11,000	\$0	\$11,000
23P Model Toxics Control Operating Account			
23P-1 State	\$4,146,000	\$4,427,000	\$8,573,000
176 Water Quality Permit Account			
176-1 State	\$2,820,000	\$2,755,000	\$5,575,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

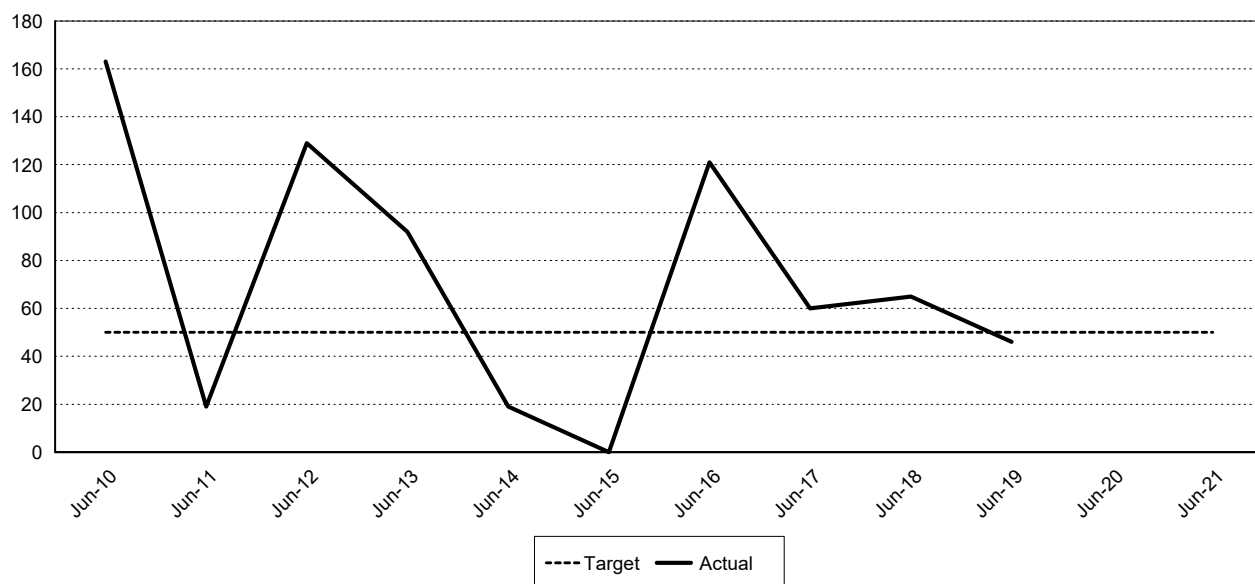
Expected Results

Polluted waters are studied to identify pollution sources or cleanup success so resource managers have credible scientific information to make decisions to protect the environment and public health. All study reports are peer reviewed, completed on schedule, and published to the internet so the information is shared with the public and can be used to make regulatory and policy decisions.

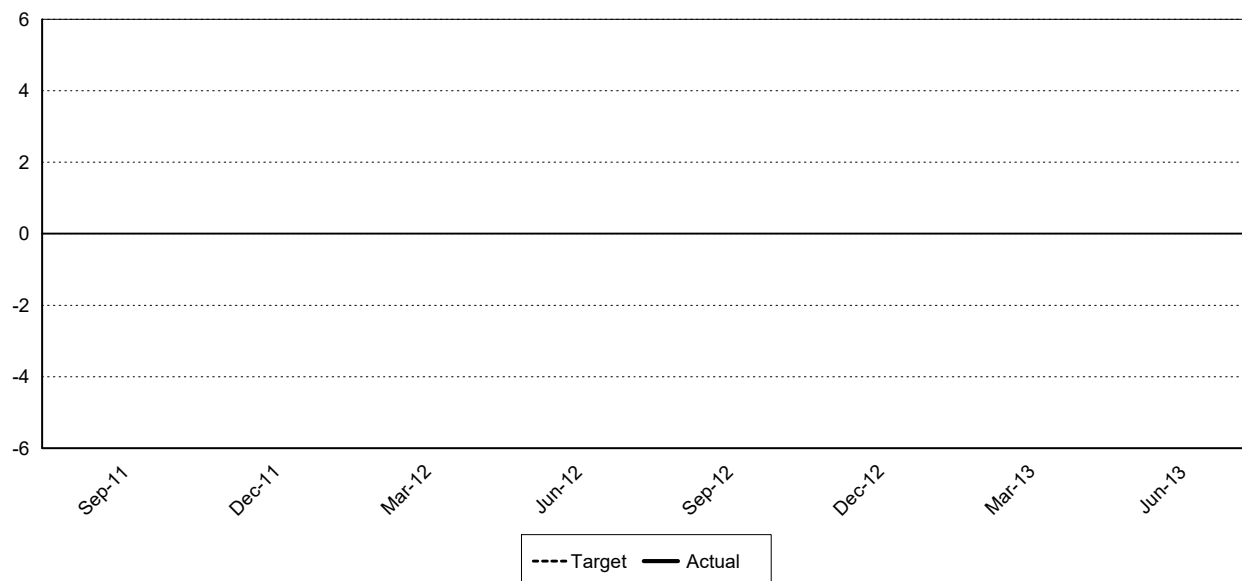
001165 Number of polluted waters assessed to identify pollution sources or cleanup success.			
Biennium	Period	Actual	Target
2019-21	A3		50
	A2		50
2017-19	A3	46	50
	A2	65	50
2015-17	A3	60	50
	A2	121	50

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

Number 001165 - Number of polluted waters assessed to identify pollution sources or cleanup success



Number 001655 - Refer to Above Narrative Justification and Impact Statement



A008 Control Stormwater Pollution

Ecology prepares tools, provides assistance, and offers compliance strategies to control the quantity and quality of stormwater runoff from development and industrial activities. The agency currently provides training and assistance to communities and industries on stormwater manuals and the Western Washington hydrology model. Ecology works with local governments and other stakeholders to implement a municipal stormwater program and permitting system.

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	56.8	57.4	57.1
001 General Fund			
001-2 Federal	\$74,000	\$67,000	\$141,000
001-7 Private/Local	\$2,488,000	\$2,748,000	\$5,236,000
001 Account Total	\$2,562,000	\$2,815,000	\$5,377,000
23P Model Toxics Control Operating Account			
23P-1 State	\$2,981,000	\$2,576,000	\$5,557,000
176 Water Quality Permit Account			
176-1 State	\$5,655,000	\$5,312,000	\$10,967,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

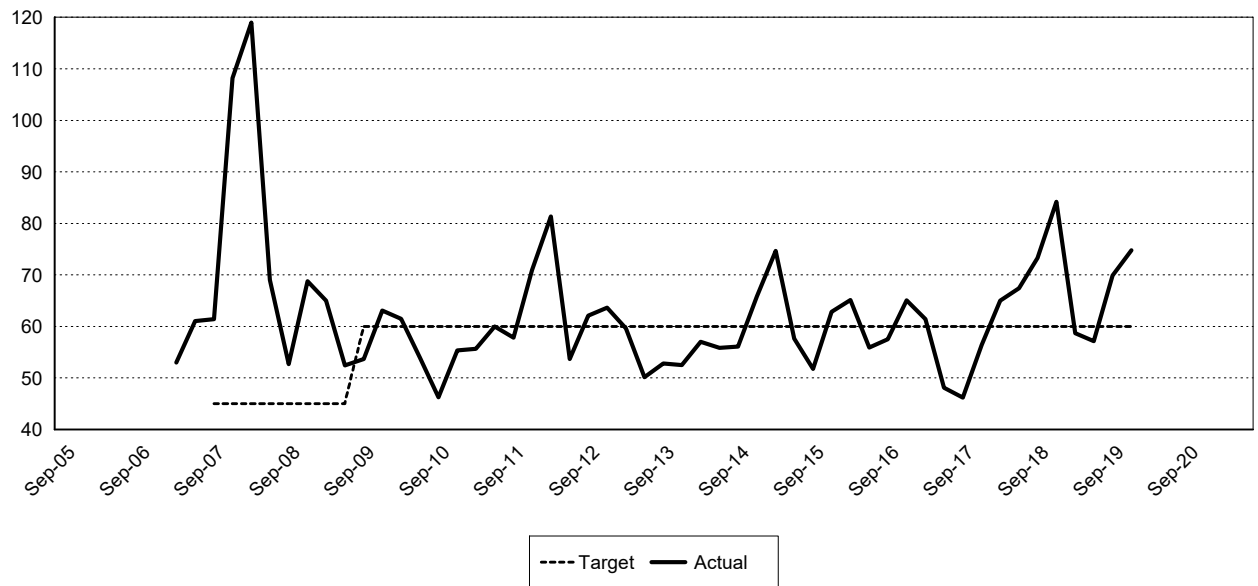
Expected Results

Reduced contamination of streams, rivers, estuaries, lakes, and groundwater due to stormwater runoff from roads and other impervious surfaces. Approximately 3,000 construction and industrial stormwater dischargers that require permits are managed. New permit applicants get a response within 60 days of application receipt. Approximately 120 municipal stormwater permits are managed. Permittees get web based information and support for low impact development, emerging treatment technologies, and permit technical assistance.

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

001554 Average number of days it takes to make final decisions on construction stormwater permits.			
Biennium	Period	Actual	Target
2019-21	Q8		
	Q7		
	Q6		
	Q5		
	Q4		
	Q3		
	Q2	74.75	60
	Q1	69.86	60
2017-19	Q8	57.1	60
	Q7	58.68	60
	Q6	84.17	60
	Q5	73.3	60
	Q4	67.42	60
	Q3	65	60
	Q2	56.39	60
	Q1	46.19	60
2015-17	Q8	48.09	60
	Q7	61.37	60
	Q6	65.02	60
	Q5	57.51	60
	Q4	55.9	60
	Q3	65.09	60
	Q2	62.83	60
	Q1	51.74	60

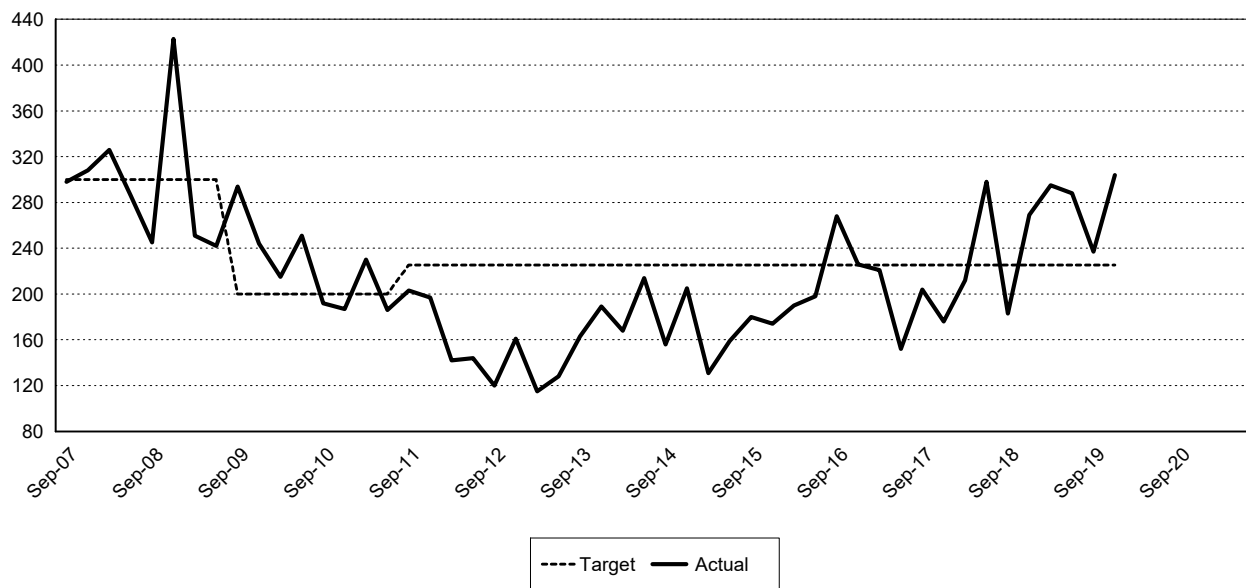
Number **001554 - Average number of days to make final decisions on construction stormwater permits**



Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

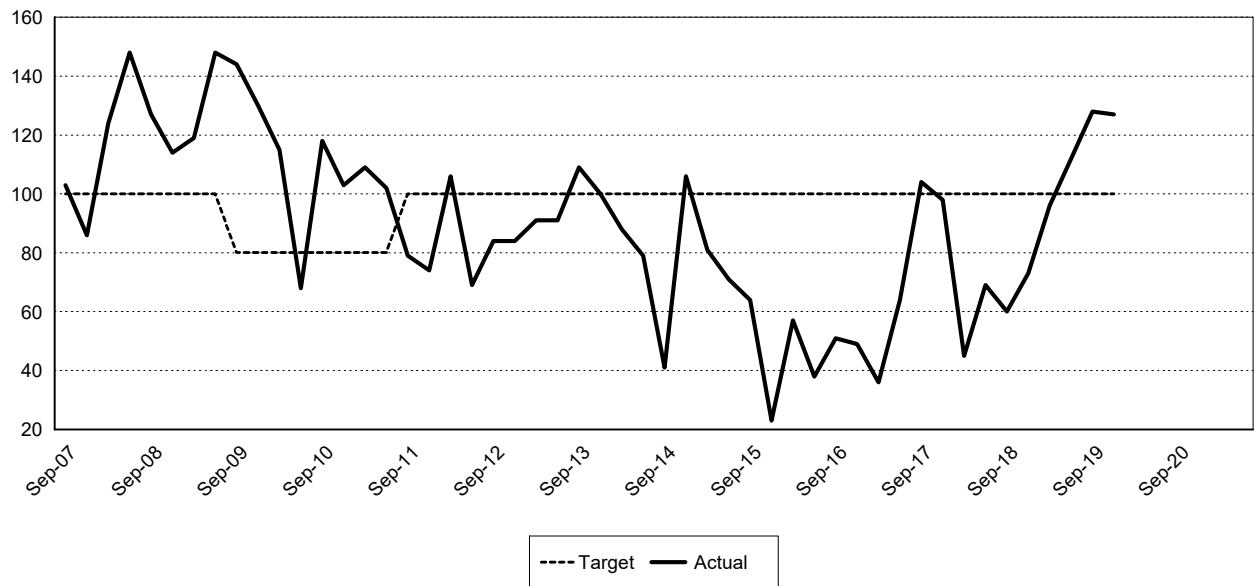
001557 Number of construction stormwater inspections			
Biennium	Period	Actual	Target
2019-21	Q8		
	Q7		
	Q6		
	Q5		
	Q4		
	Q3		
	Q2	304	225
	Q1	237	225
2017-19	Q8	288	225
	Q7	295	225
	Q6	269	225
	Q5	183	225
	Q4	298	225
	Q3	212	225
	Q2	176	225
	Q1	204	225
2015-17	Q8	152	225
	Q7	221	225
	Q6	226	225
	Q5	268	225
	Q4	198	225
	Q3	190	225
	Q2	174	225
	Q1	180	225

Number **001557 - Number of construction stormwater inspections conducted**



Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

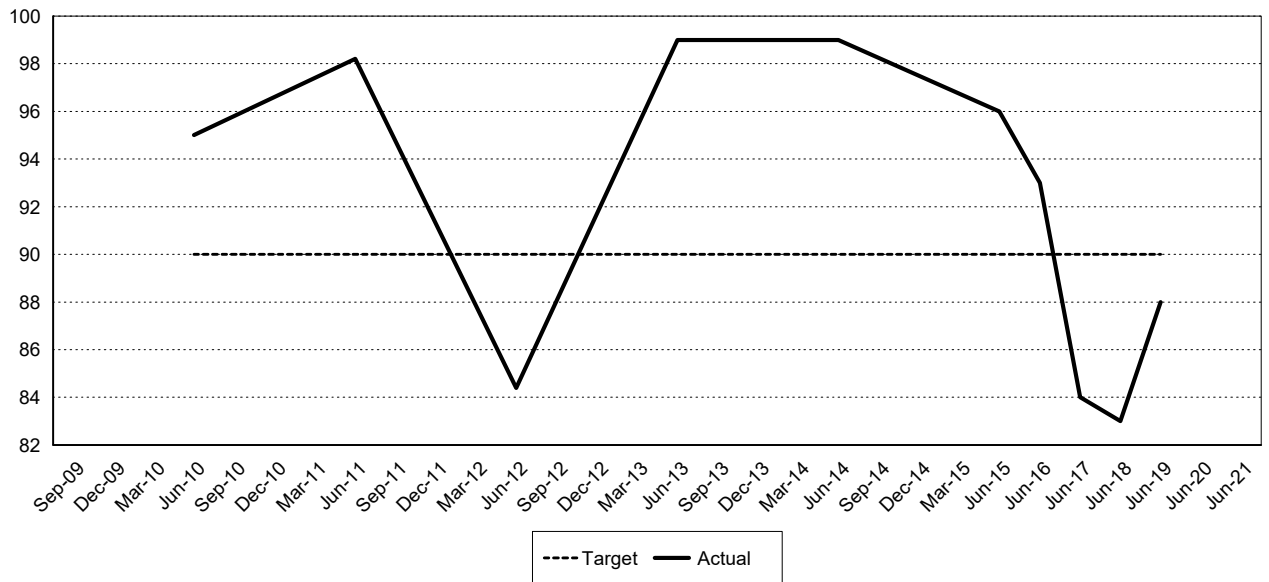
001556 Number of industrial stormwater inspections			
Biennium	Period	Actual	Target
2019-21	Q8		
	Q7		
	Q6		
	Q5		
	Q4		
	Q3		
	Q2	127	100
	Q1	128	100
2017-19	Q8	112	100
	Q7	96	100
	Q6	73	100
	Q5	60	100
	Q4	69	100
	Q3	45	100
	Q2	98	100
	Q1	104	100
2015-17	Q8	64	100
	Q7	36	100
	Q6	49	100
	Q5	51	100
	Q4	38	100
	Q3	57	100
	Q2	23	100
	Q1	64	100

Number **001556 - Number of industrial stormwater inspections conducted**

001555 Percentage of city and county Phase II Municipal Stormwater permittees in substantial compliance with permit.			
Biennium	Period	Actual	Target
2019-21	A3		
	A2		
2017-19	A3	88%	90%
	A2	83%	90%
2015-17	A3	84%	90%
	A2	93%	90%

Percent

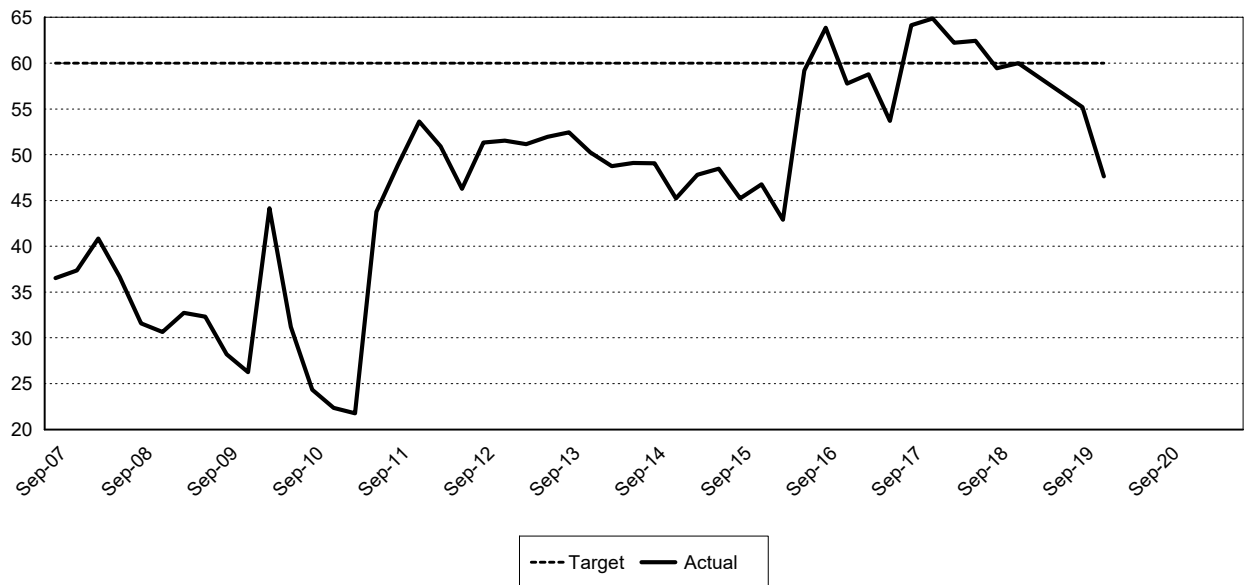
001555 - Percentage of city and county Phase II Muni. Stormwater permittees in compliance with their permit



Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

001559 Percentage of construction stormwater facilities submitting discharge monitoring reports as required by their permit.			
Biennium	Period	Actual	Target
2019-21	Q8		
	Q7		
	Q6		
	Q5		
	Q4		
	Q3		
	Q2	47.63%	60%
	Q1	55.19%	60%
2017-19	Q8		60%
	Q7		60%
	Q6	60%	60%
	Q5	59.46%	60%
	Q4	62.43%	60%
	Q3	62.22%	60%
	Q2	64.87%	60%
	Q1	64.14%	60%
2015-17	Q8	53.71%	60%
	Q7	58.78%	60%
	Q6	57.77%	60%
	Q5	63.87%	60%
	Q4	59.19%	60%
	Q3	42.89%	60%
	Q2	46.76%	60%
	Q1	45.24%	60%

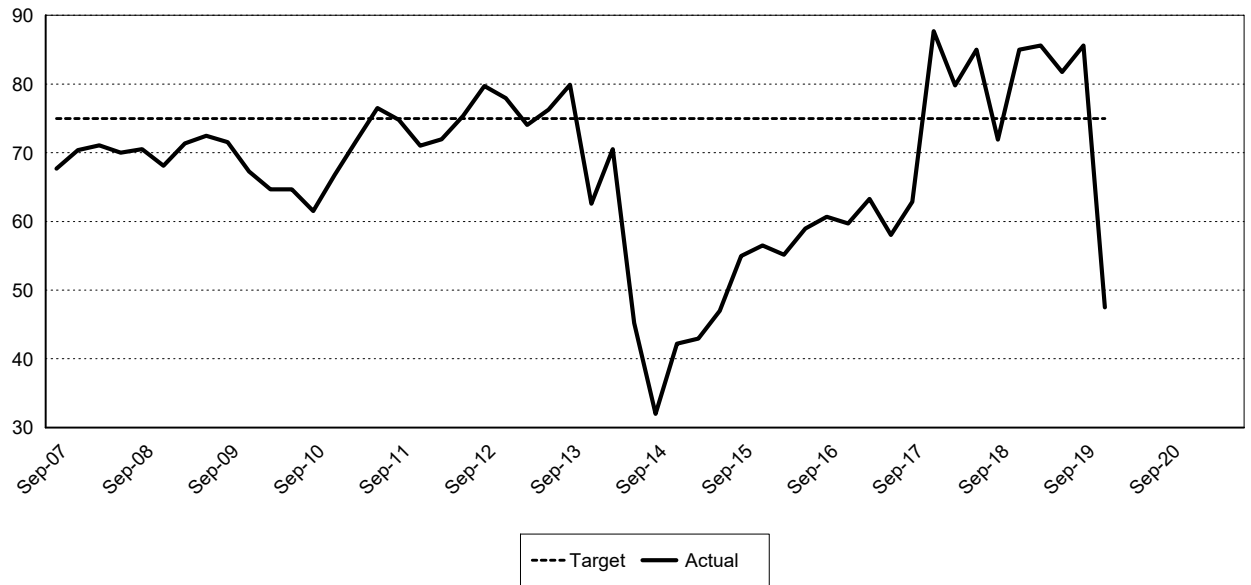
Percent **001559 - Percentage of construction stormwater facilities submitting discharge monitoring reports**

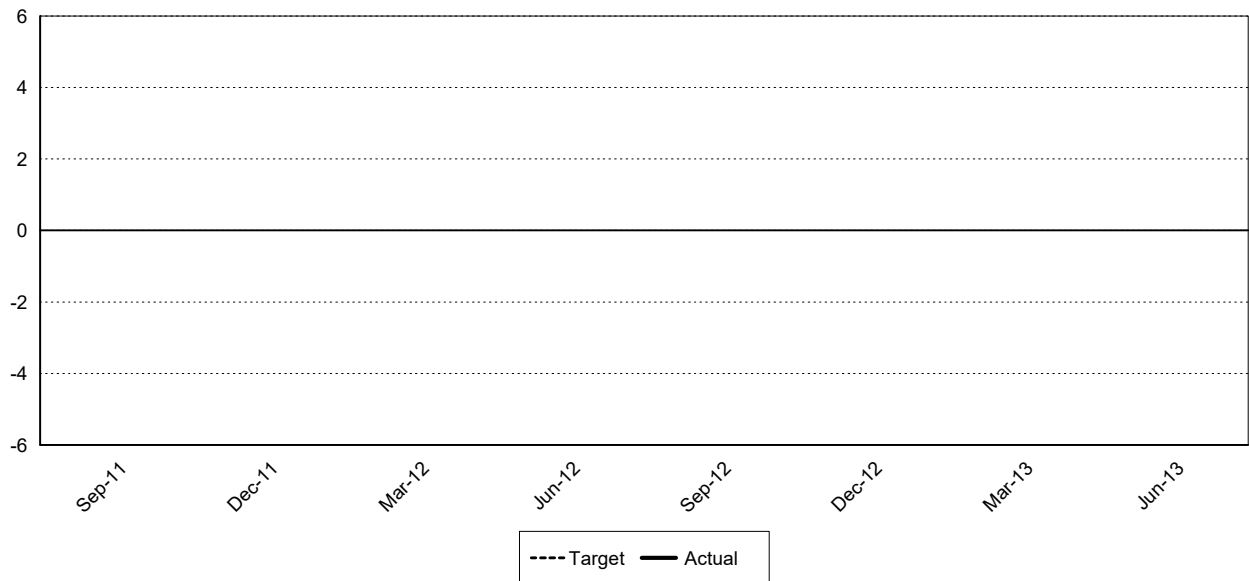


Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

001558 Percent of industrial stormwater facilities submitting discharge monitoring reports as required by permit.			
Biennium	Period	Actual	Target
2019-21	Q8		
	Q7		
	Q6		
	Q5		
	Q4		
	Q3		
	Q2	47.5%	75%
	Q1	85.61%	75%
2017-19	Q8	81.78%	75%
	Q7	85.59%	75%
	Q6	85%	75%
	Q5	71.9%	75%
	Q4	85%	75%
	Q3	79.8%	75%
	Q2	87.7%	75%
	Q1	62.85%	75%
2015-17	Q8	58.04%	75%
	Q7	63.29%	75%
	Q6	59.71%	75%
	Q5	60.69%	75%
	Q4	58.98%	75%
	Q3	55.16%	75%
	Q2	56.52%	75%
	Q1	54.96%	75%

Percent **001558 - Percentage of industrial stormwater facilities submitting discharge monitoring reports**



Number 001655 - Refer to Above Narrative Justification and Impact Statement**A009 Eliminate Waste and Promote Material Reuse**

The Department of Ecology:

- Provides technical assistance to local governments for waste reduction, and recycling, including focus on reducing contamination, addressing plastic packaging, and developing marketing programs for recycled commodities.
- Reduces wasted food through a state food waste reduction and diversion plan.
- Provides technical assistance to promote reuse of organic materials.
- Ensures an environmentally compliant biosolids program in the state.
- Advises state and local governments on how to promote environmentally preferred purchasing.
- Oversees producer managed recycling programs.

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	45.2	45.7	45.5
199 Biosolids Permit Account			
199-1 State	\$1,257,000	\$1,246,000	\$2,503,000
11J Electronic Products Recycling Account			
11J-6 Non-Appropriated	\$383,000	\$387,000	\$770,000
001 General Fund			
001-1 State	\$25,000	\$26,000	\$51,000
23P Model Toxics Control Operating Account			
23P-1 State	\$567,000	\$634,000	\$1,201,000
23W Paint Product Stewardship Account			
23W-1 State	\$50,000	\$117,000	\$167,000
489 Pension Funding Stabilization Account			
489-1 State	\$2,000	\$2,000	\$4,000
22G Photovoltaic Module Recycling Account			
22G-6 Non-Appropriated	\$45,000	\$29,000	\$74,000
16T Product Stewardship Programs Account			
16T-6 Non-Appropriated	\$116,000	\$113,000	\$229,000
044 Waste Reduction/Recycling/Litter Control			
044-1 State	\$6,294,000	\$5,994,000	\$12,288,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

Expected Results

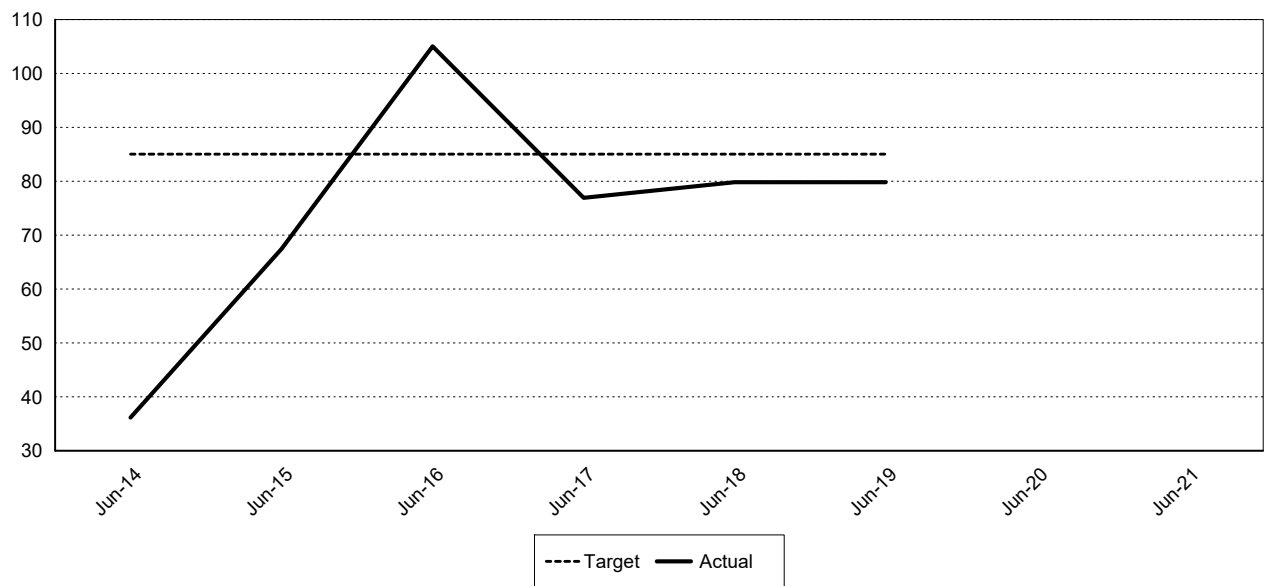
- The amount of solid waste generated and disposed of by businesses and residents decreases so air, water, and greenhouse gas pollution is reduced and resources are conserved.
- The amount of materials recovered for recycling, composting, and other uses increases so fewer valuable materials enter the waste stream, there is less waste for disposal, and greenhouse gas emissions are reduced. Materials include recyclables, organic matter, compost, biosolids, electronics, and mercury containing lights.

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

002868 Percentage of biosolids beneficially used annually			
Biennium	Period	Actual	Target
2019-21	A3		
	A2		
2017-19	A3	79.84%	85%
	A2	79.84%	85%
2015-17	A3	76.92%	85%
	A2	105.04%	85%

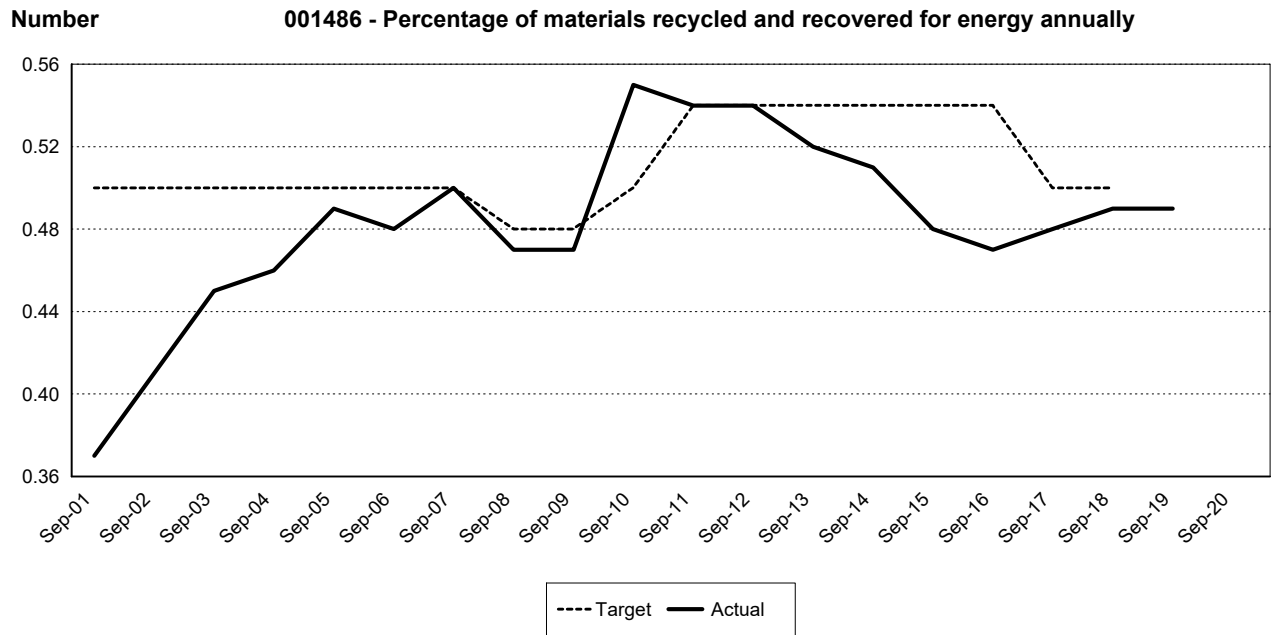
Percent

002868 - Percentage of biosolids beneficially used annually



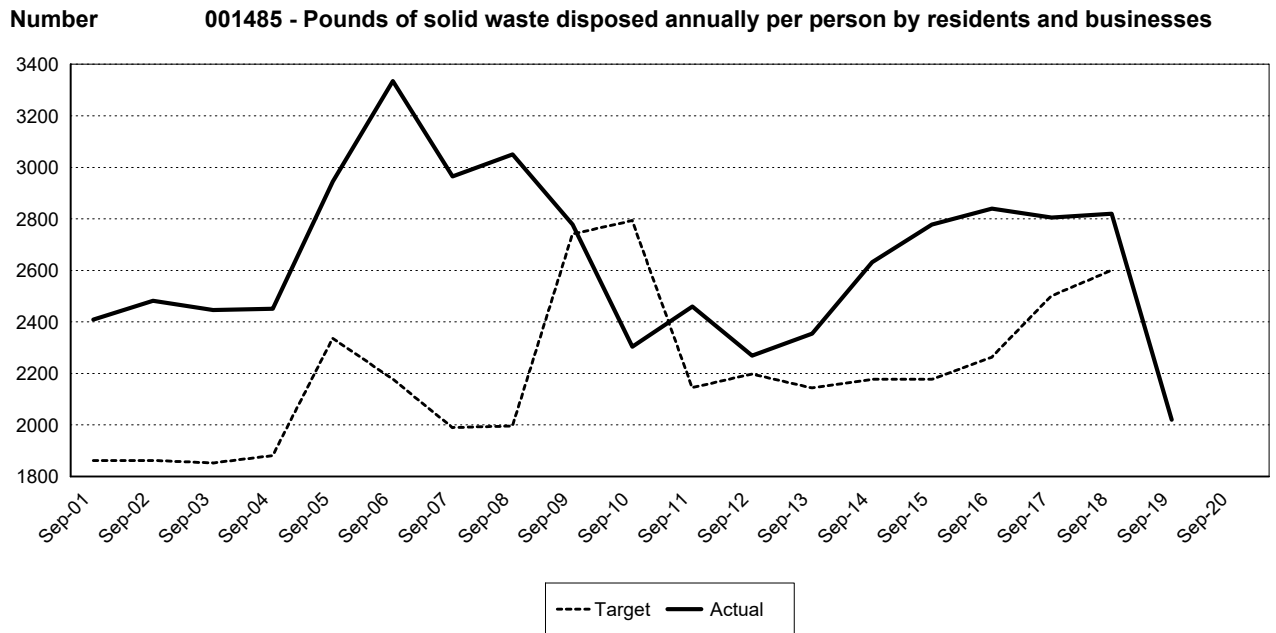
Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

001486 Percentage of materials recycled and recovered for energy annually.			
Biennium	Period	Actual	Target
2019-21	A3		
	A3		
	A2		
	A2		
	A2		
	A2		
	A1		
	A1	0.49	
2017-19	A3		
	A3		
	A2		
	A2		
	A2		
	A2	0.49	0.5
	A1		
	A1	0.48	0.5
2015-17	A3		
	A3		
	A2		
	A2		
	A2		
	A2	0.47	0.54
	A1		
	A1	0.48	0.54



Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

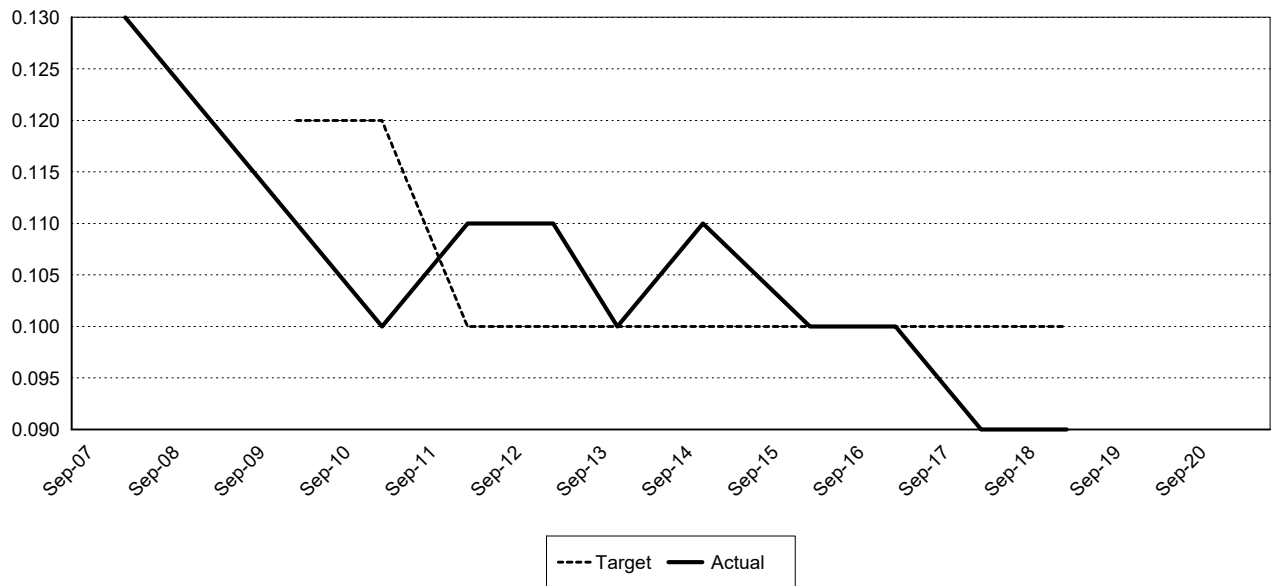
001485 Pounds of solid waste disposed annually per person by Washington residents and businesses. Reported annually in Quarters 2 and 6.			
Biennium	Period	Actual	Target
2019-21	A3		
	A3		
	A2		
	A2		
	A2		
	A2		
	A1		
	A1	2,020	
2017-19	A3		
	A3		
	A2		
	A2		
	A2		
	A2	2,820	2,600
	A1		
2015-17	A1	2,805	2,500
	A3		
	A3		
	A2		
	A2		
	A2		
	A2	2,840	2,263
	A1		
	A1	2,778	2,176



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001496 Pounds of solid waste generated per dollar (State GDP). Reported annually in Quarters 3 and 7.			
Biennium	Period	Actual	Target
2019-21	A3		
	A3		
	A2		
	A2		
	A2		
	A2		
	A1		
	A1		
2017-19	A3	0.09	0.1
	A3		
	A2	0.09	0.1
	A2		
	A2		
	A2		
	A1		
	A1		
2015-17	A3	0.1	0.1
	A3		
	A2	0.1	0.1
	A2		
	A2		
	A2		
	A1		
	A1		

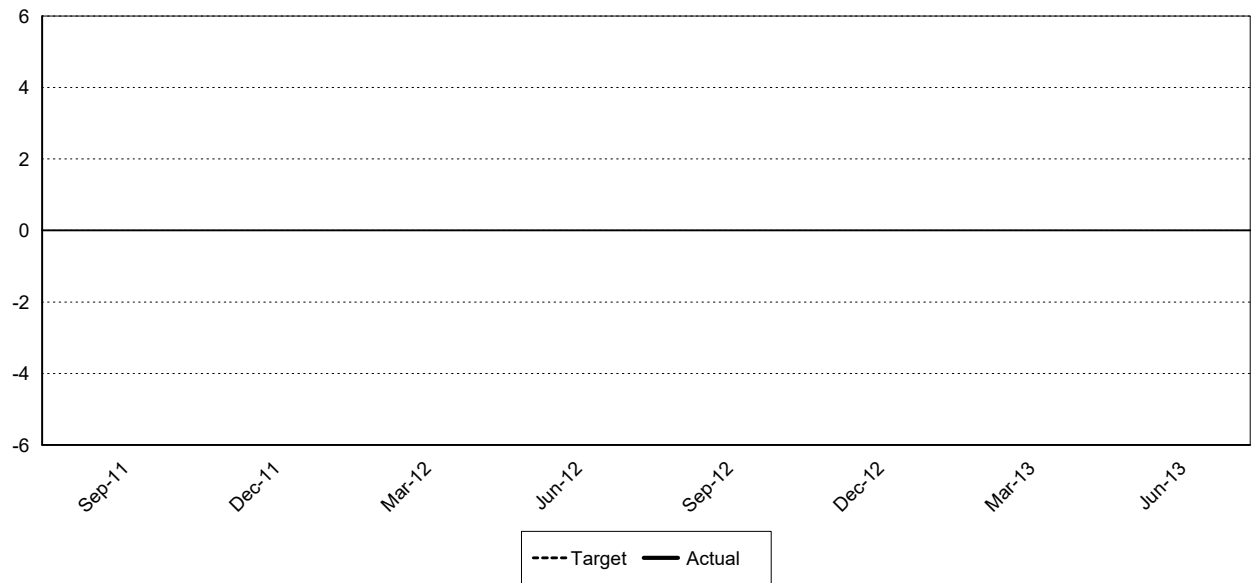
Number **001496 - Pounds of solid waste generated per dollar (State GDP, gross domestic product)**



Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

Number

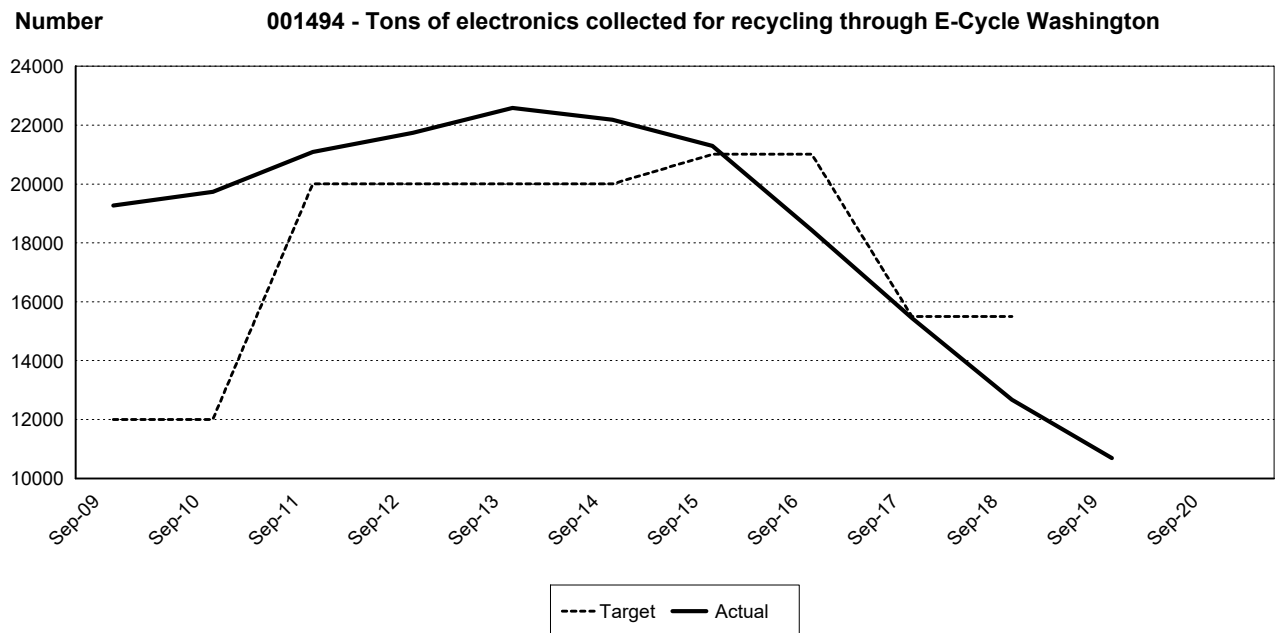
001655 - Refer to Above Narrative Justification and Impact Statement



Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

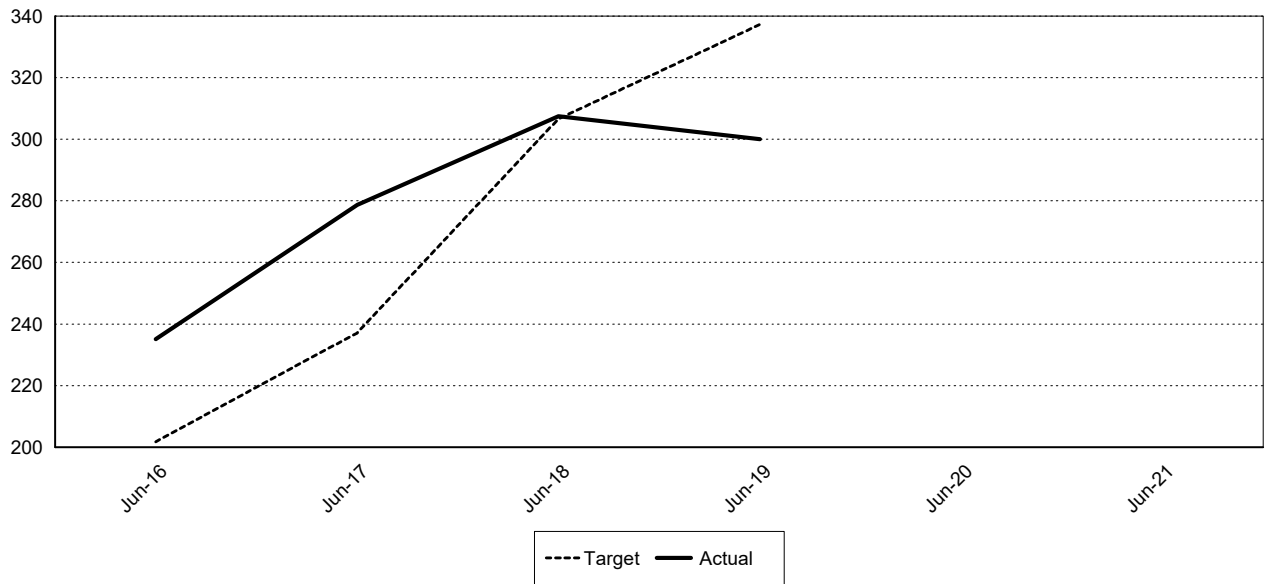
001494 Tons of electronics collected for recycling annually through the E-Cycle Washington program.			
Biennium	Period	Actual	Target
2019-21	A3		
	A3		
	A2		
	A2		
	A2		
	A2		
	A1		
	A1	10,687	
2017-19	A3		
	A3		
	A2		
	A2		
	A2		
	A2	12,667	15,500
	A1		
	A1	15,451	15,500
2015-17	A3		
	A3		
	A2		
	A2		
	A2		
	A2	18,429	21,000
	A1		
	A1	21,293	21,000

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity



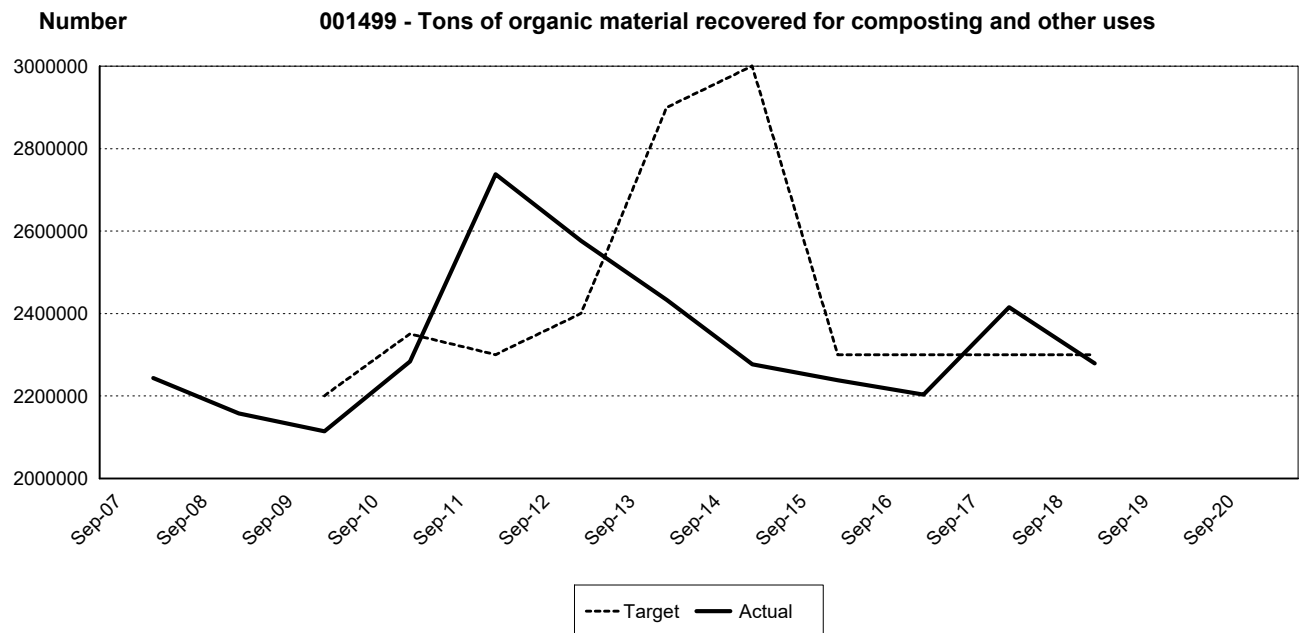
002826 Tons of mercury-containing lights collected for recycling through LightRecycle Washington			
Biennium	Period	Actual	Target
2019-21	A3		
	A2		
2017-19	A3	300	337.2
	A2	307.5	306.5
2015-17	A3	278.7	237.1
	A2	235.1	201.8

Number 002826 - Tons of mercury-containing lights collected for recycling through LightRecycle Washington



Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

001499 Tons of organic material recovered for composting and other uses.			
Biennium	Period	Actual	Target
2019-21	A3		
	A3		
	A2		
	A2		
	A2		
	A2		
	A1		
	A1		
2017-19	A3	2,279,350	2,300,000
	A3		
	A2	2,415,417	2,300,000
	A2		
	A2		
	A2		
	A1		
	A1		
2015-17	A3	2,203,195	2,300,000
	A3		
	A2	2,237,766	2,300,000
	A2		
	A2		
	A2		
	A1		
	A1		



A010 Prevent and Pick Up Litter

The Department of Ecology collaborates with residents, businesses, local governments and state agency partners, to maximize efforts to prevent and pick up litter to keep Washington clean for residents and visitors. Ecology also sponsors youth employment programs for litter pick up.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	24.7	24.6	24.7
044 Waste Reduction/Recycling/Litter Control			
044-1 State	\$5,535,000	\$5,582,000	\$11,117,000

Statewide Result Area: Sustainable Energy and a Clean Environment

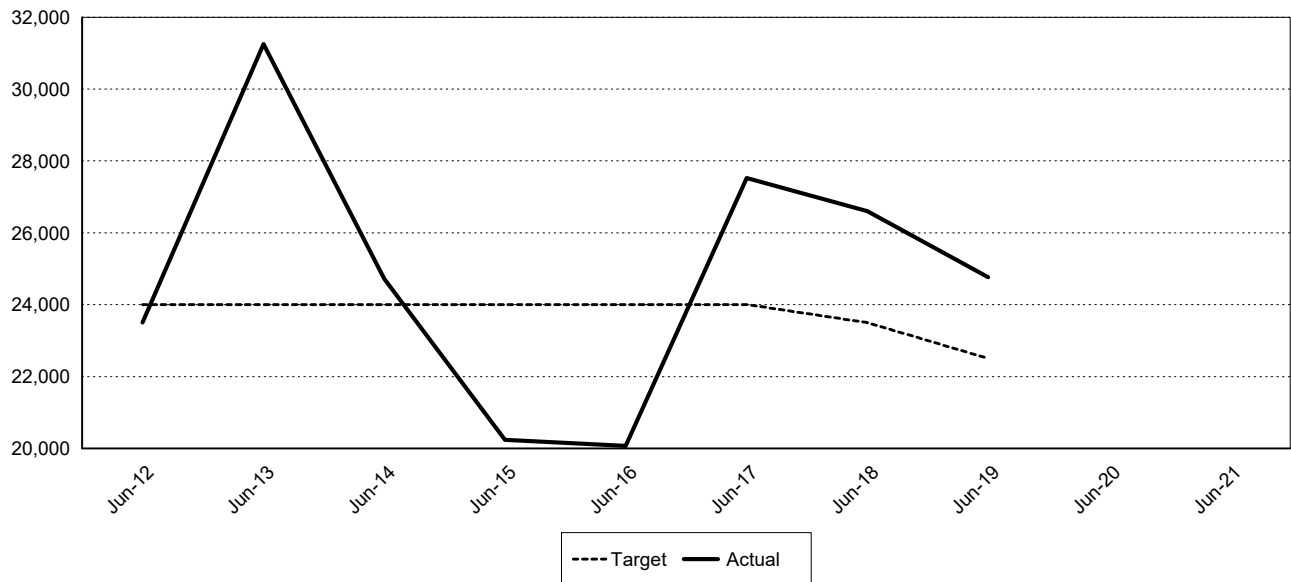
Statewide Strategy: Preserve, maintain and restore natural systems and landscapes

Expected Results

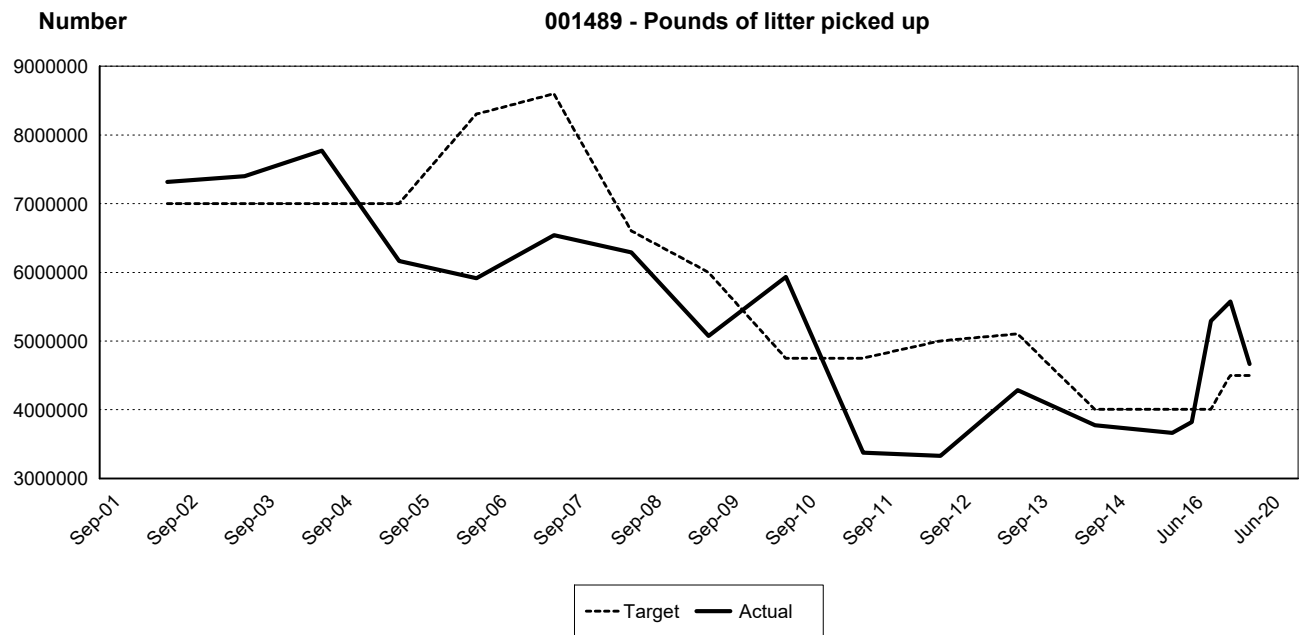
- Littered roadways and illegal dumps are cleaned up in coordination with local government and state agency partners and the Ecology Youth Corps.
- Litter prevention efforts contribute to less litter created. Washington is clean for residents and visitors. Use of available resources is maximized by all partners.

002869 Miles of roadway cleared of litter using Ecology-funded crews			
Biennium	Period	Actual	Target
2019-21	A3		
	A2		
2017-19	A3	24,763	22,500
	A2	26,604	23,500
2015-17	A3	27,523	24,000
	A2	20,068	24,000

Number **002869 - Miles of roadway cleared of litter using Ecology-funded crews**



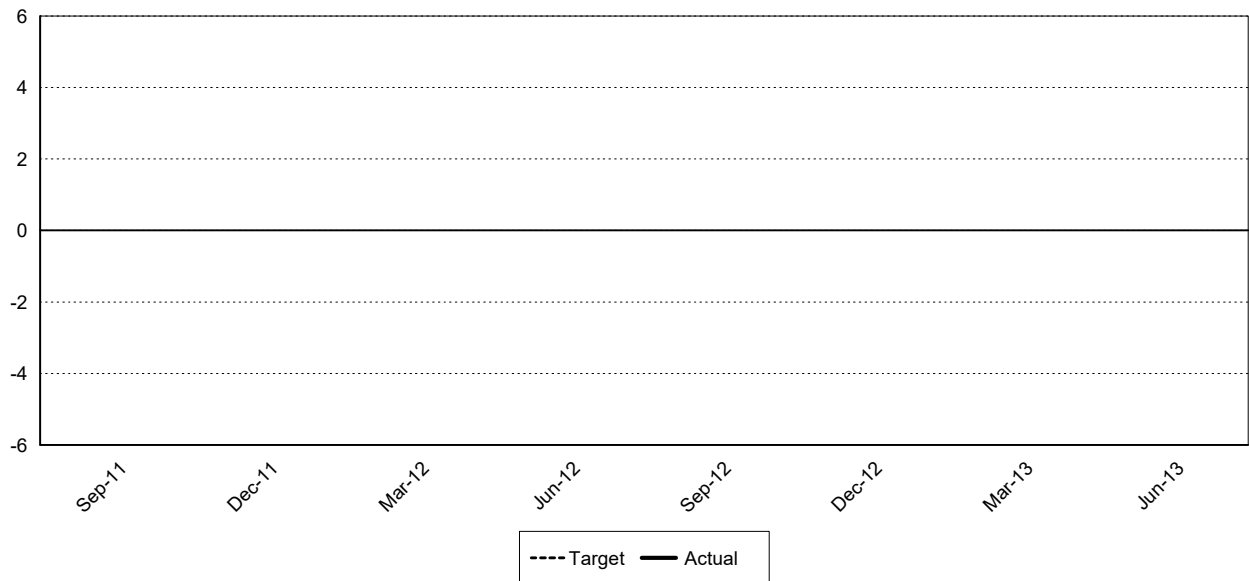
001489 Pounds of litter picked up annually. Reported annually in Quarters 4 and 8			
Biennium	Period	Actual	Target
2019-21	A3		
	A2		
2017-19	A3	4,663,834	4,500,000
	A2	5,575,577	4,500,000
2015-17	A3	5,290,679	4,000,000
	A2	3,818,879	4,000,000



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Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

Number 001655 - Refer to Above Narrative Justification and Impact Statement



A011 Ensure Dam Safety

This activity protects life, property, and the environment by overseeing the safety of Washington's dams. This includes inspecting the structural integrity and flood and earthquake safety of existing state dams not managed by the federal government; approving and inspecting new dam construction and repairs; and taking compliance and emergency actions.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	13.5	13.5	13.5
001 General Fund			
001-1 State	\$1,758,000	\$1,852,000	\$3,610,000
001-2 Federal	\$126,000	\$155,000	\$281,000
001 Account Total	\$1,884,000	\$2,007,000	\$3,891,000
489 Pension Funding Stabilization Account			
489-1 State	\$143,000	\$143,000	\$286,000

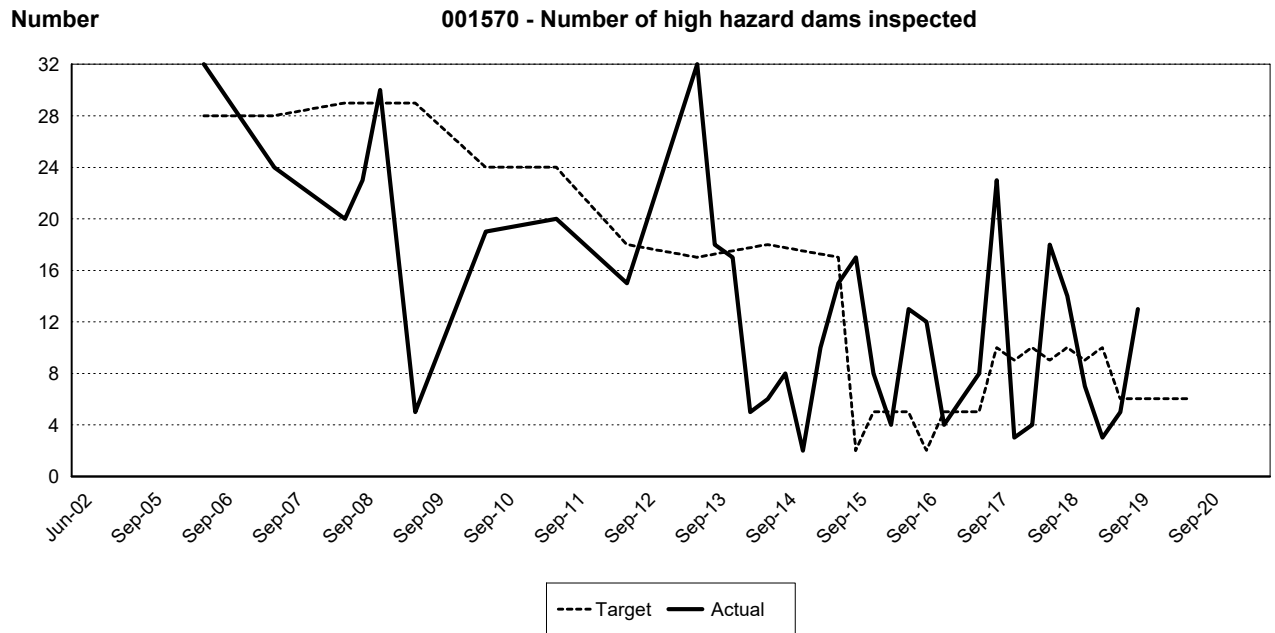
Statewide Result Area: Healthy and Safe Communities
Statewide Strategy: Identify and mitigate risk to public safety

Expected Results

Public and environmental health and safety is protected. Reduced risk of potentially catastrophic dam failures for the safety of people and property located below dams.

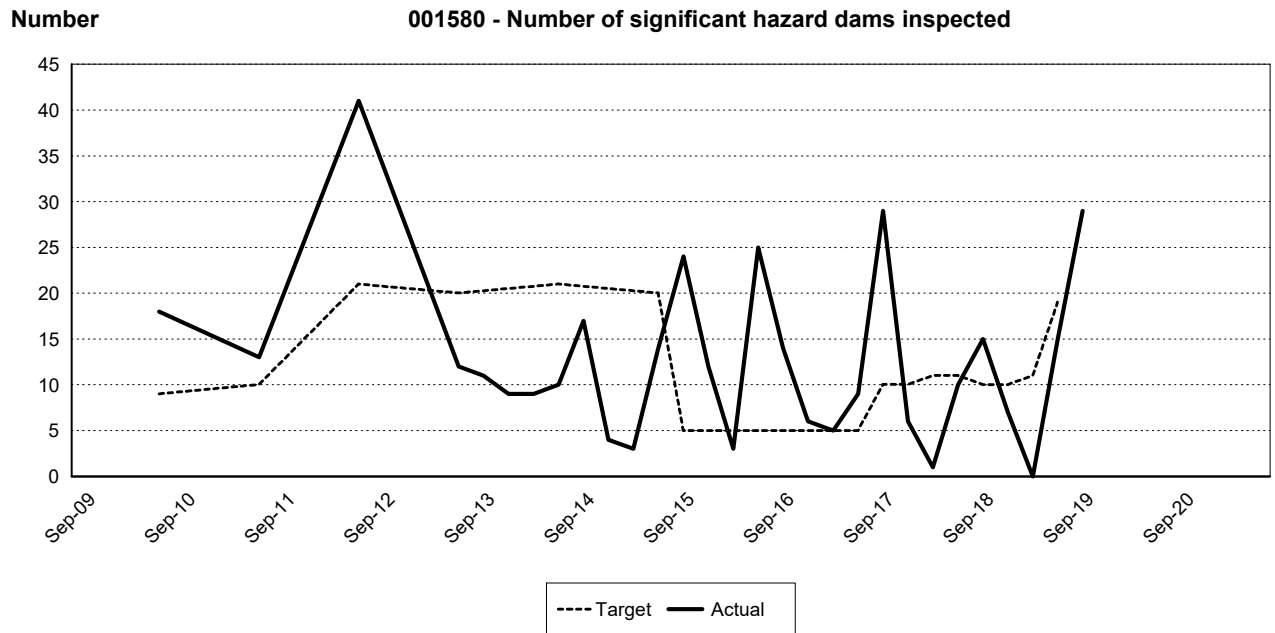
Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

001570 Number of high hazard dams inspected.			
Biennium	Period	Actual	Target
2019-21	Q8		
	Q7		
	Q6		
	Q5		
	Q4		6
	Q3		6
	Q2		6
	Q1	13	6
2017-19	Q8	5	6
	Q7	3	10
	Q6	7	9
	Q5	14	10
	Q4	18	9
	Q3	4	10
	Q2	3	9
	Q1	23	10
2015-17	Q8	8	5
	Q7	6	5
	Q6	4	5
	Q5	12	2
	Q4	13	5
	Q3	4	5
	Q2	8	5
	Q1	17	2

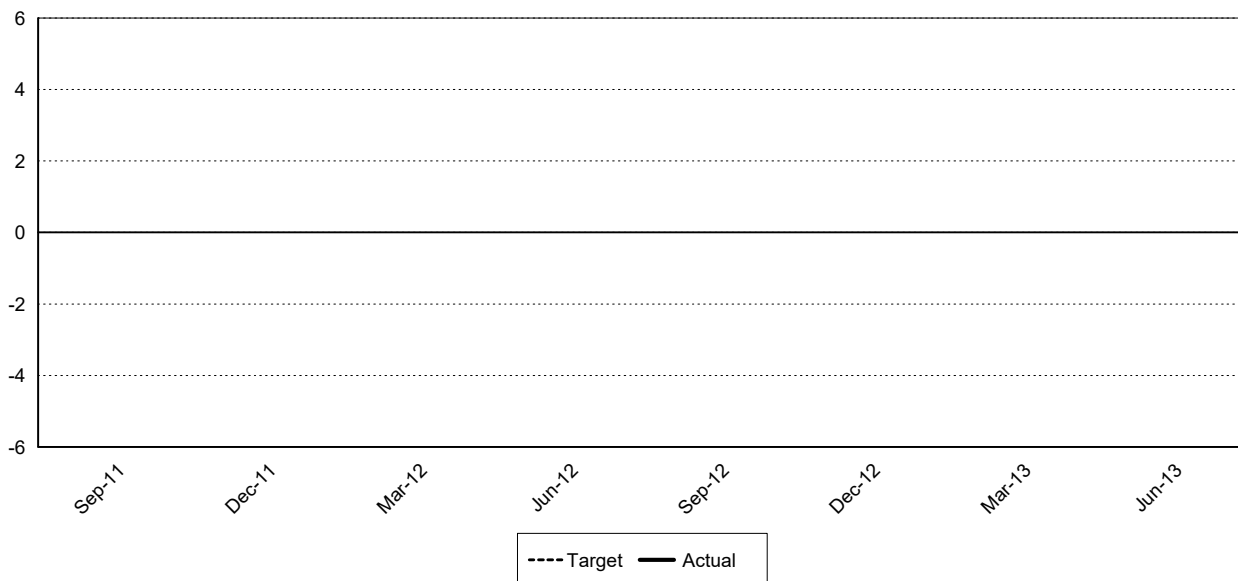


Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

001580 Number of significant hazard dams inspected.			
Biennium	Period	Actual	Target
2019-21	Q8		
	Q7		
	Q6		
	Q5		
	Q4		
	Q3		
	Q2		
	Q1	29	
2017-19	Q8	15	19
	Q7	0	11
	Q6	7	10
	Q5	15	10
	Q4	10	11
	Q3	1	11
	Q2	6	10
	Q1	29	10
2015-17	Q8	9	5
	Q7	5	5
	Q6	6	5
	Q5	14	5
	Q4	25	5
	Q3	3	5
	Q2	12	5
	Q1	24	5



Number 001655 - Refer to Above Narrative Justification and Impact Statement



A012 Ensure Environmental Laboratories Provide Quality Data

Ecology accredits environmental laboratories that submit data to the agency and to the Department of Health. The accreditation program covers analyses in all typical environmental matrices (air, water, soil, sediment, tissue), and drinking water. Accreditation ensures environmental laboratories have the demonstrated capability to provide accurate and defensible data. Ecology's laboratory accreditation program is the primary method of performance monitoring for over 400 laboratories in the accreditation program. Ecology will start accrediting cannabis laboratories in 2024. To prepare for this role, Ecology is leading the Cannabis Science Task Force to recommend lab quality standards for cannabis laboratories.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	8.9	8.9	8.9
315 Dedicated Marijuana Account			
315-1 State	\$431,000	\$420,000	\$851,000
23P Model Toxics Control Operating Account			
23P-1 State	\$818,000	\$881,000	\$1,699,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

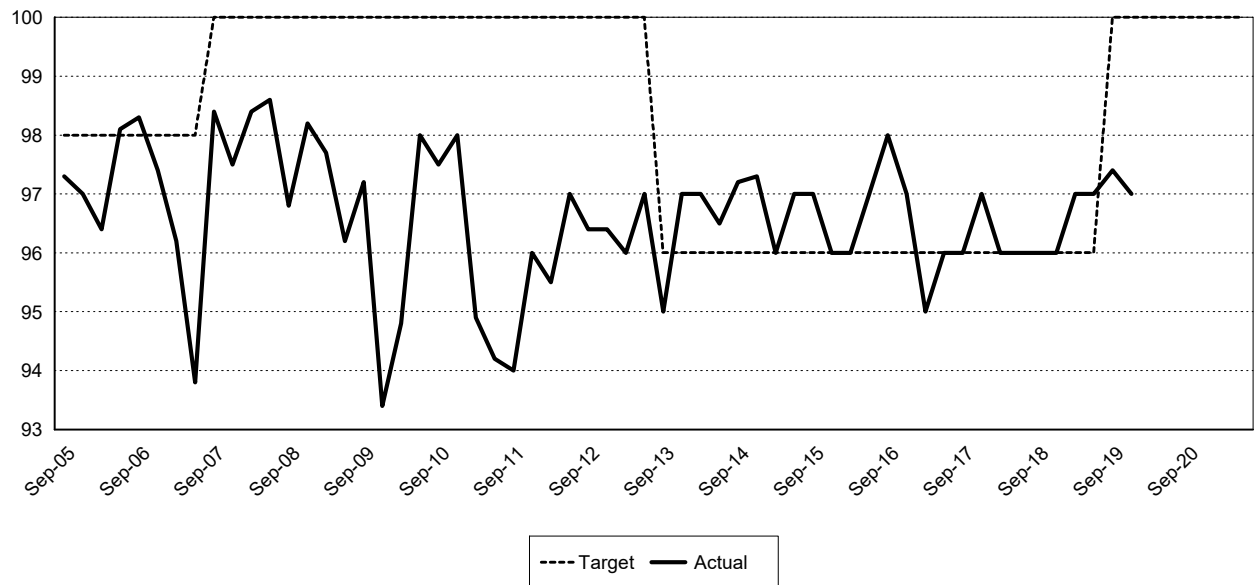
Expected Results

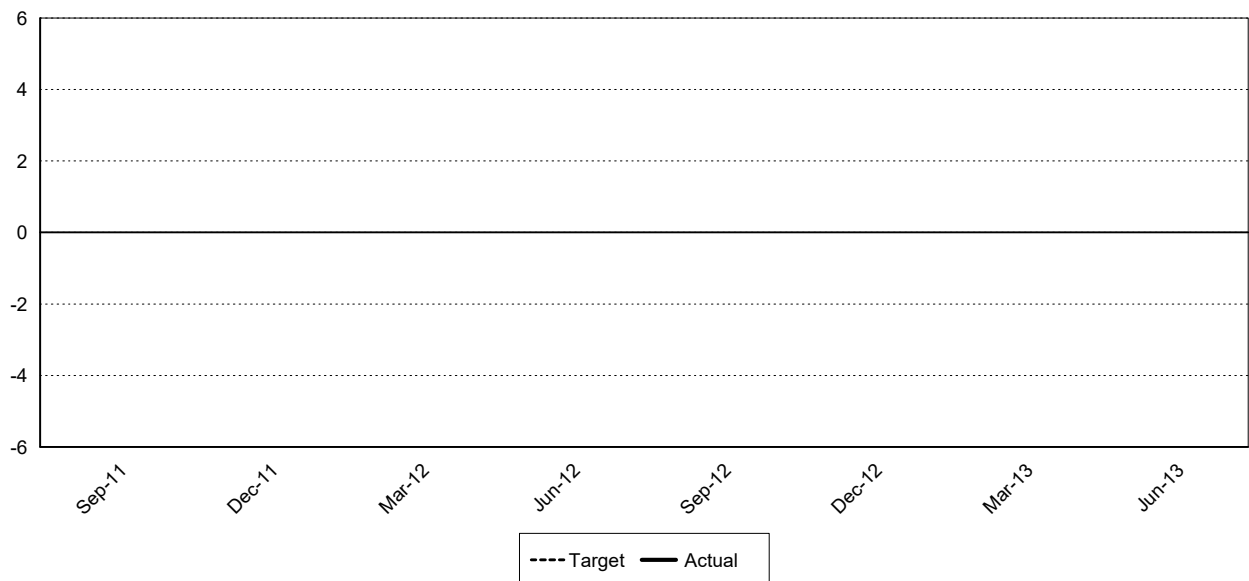
Laboratories accredited by Ecology maintain successful, quality programs so accurate and defensible analytical data are available for environmental and public health decisions.

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

001161 Percentage of acceptable proficiency testing analyses completed by accredited laboratories.			
Biennium	Period	Actual	Target
2019-21	Q8		100%
	Q7		100%
	Q6		100%
	Q5		100%
	Q4		100%
	Q3		100%
	Q2	97%	100%
	Q1	97.4%	100%
2017-19	Q8	97%	96%
	Q7	97%	96%
	Q6	96%	96%
	Q5	96%	96%
	Q4	96%	96%
	Q3	96%	96%
	Q2	97%	96%
	Q1	96%	96%
2015-17	Q8	96%	96%
	Q7	95%	96%
	Q6	97%	96%
	Q5	98%	96%
	Q4	97%	96%
	Q3	96%	96%
	Q2	96%	96%
	Q1	97%	96%

Percent **001161 - Percent of acceptable proficiency testing analyses completed by accredited laboratories**



Number 001655 - Refer to Above Narrative Justification and Impact Statement**A013 Provide Planning and Financial Assistance to Manage and Reduce Waste**

The Department of Ecology provides planning assistance to local governments and financial assistance through three grant programs:

- Local Solid Waste Financial Assistance grants to local governments for solid waste planning, waste reduction (including food waste), recycling (including contamination reduction), household hazardous waste, and enforcement.
- Public Participation Grants (PPG) to interest groups for informing residents about cleanups in their local area and educating the public about waste reduction efforts.
- Waste Reduction and Recycling Education grants to local governments and non profit organizations to educate the public about litter control, waste reduction (including food waste), recycling (including contamination reduction), and composting.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	10.9	10.9	10.9
23P Model Toxics Control Operating Account			
23P-1 State	\$7,546,000	\$7,878,000	\$15,424,000

Statewide Result Area: Sustainable Energy and a Clean Environment

Statewide Strategy: Preserve, maintain and restore natural systems and landscapes

Expected Results

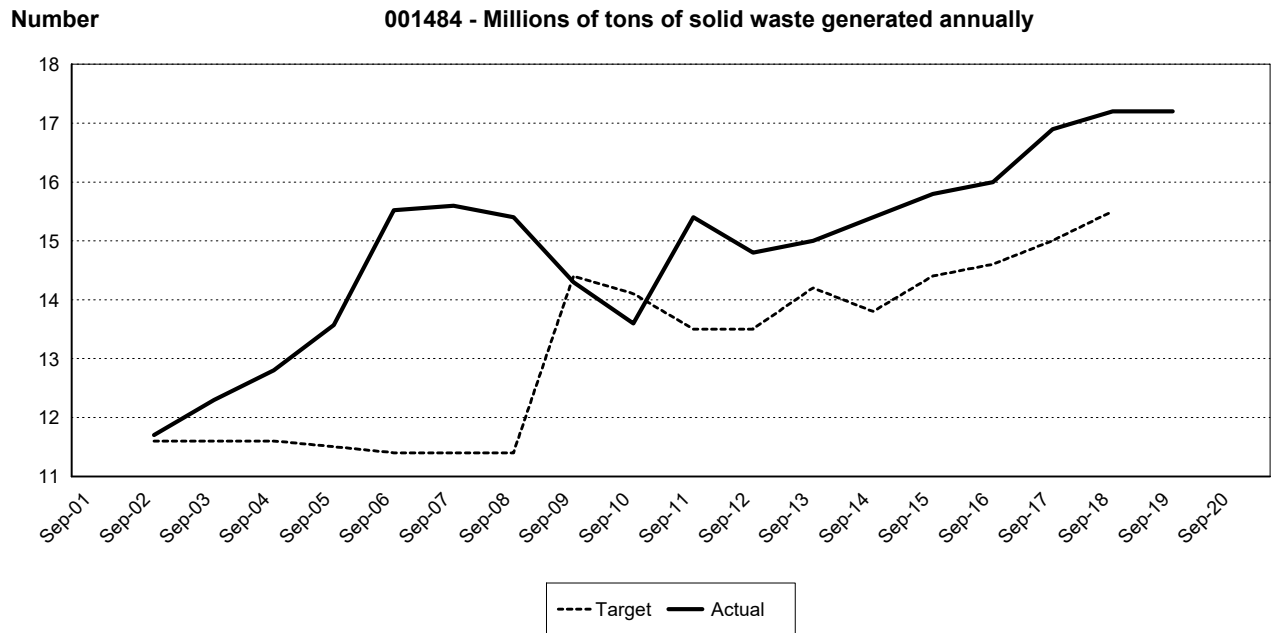
Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

Ecology's solid waste grants and planning assistance help ensure that:

- Use of recycling and composting increases.
- Use of toxic products and generation of waste declines.
- Moderate-risk waste is collected and handled safely.
- Solid waste facilities in Washington State comply with regulatory standards.
- Illegal dumps are reduced.
- Groundwater is protected from improperly disposed waste.
- Cleanup investigations have support and input from affected residents.
- The public is provided information on environmental issues and proposed solutions to help reduce litter and waste, and increase quality recycling, and composting.

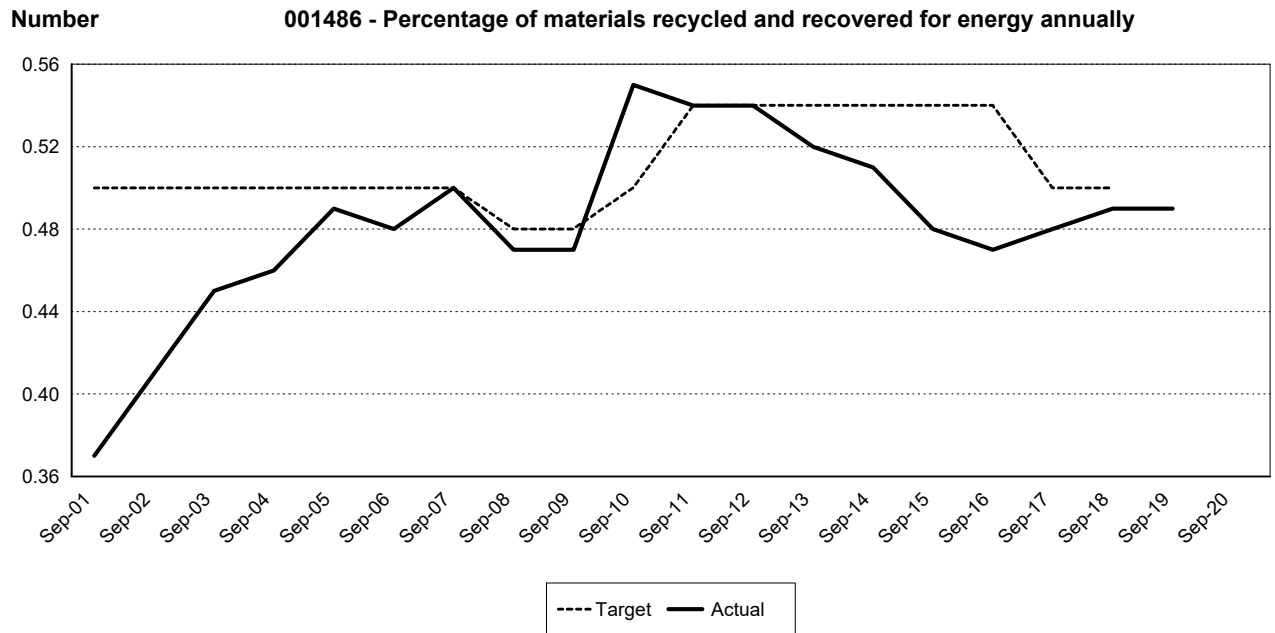
This helps support a decrease in the amount of solid waste generated and an increase in the percentage of materials recovered for recycling and composting; and an increase in the amount of moderate risk wastes that are recycled or properly disposed.

001484 Million of tons of solid waste generated annually in Washington.			
Biennium	Period	Actual	Target
2019-21	A3		
	A3		
	A2		
	A2		
	A2		
	A2		
	A1		
	A1	17.2	
2017-19	A3		
	A3		
	A2		
	A2		
	A2		
	A2	17.2	15.5
	A1		
	A1	16.9	15
2015-17	A3		
	A3		
	A2		
	A2		
	A2		
	A2	16	14.6
	A1		
	A1	15.8	14.4



Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

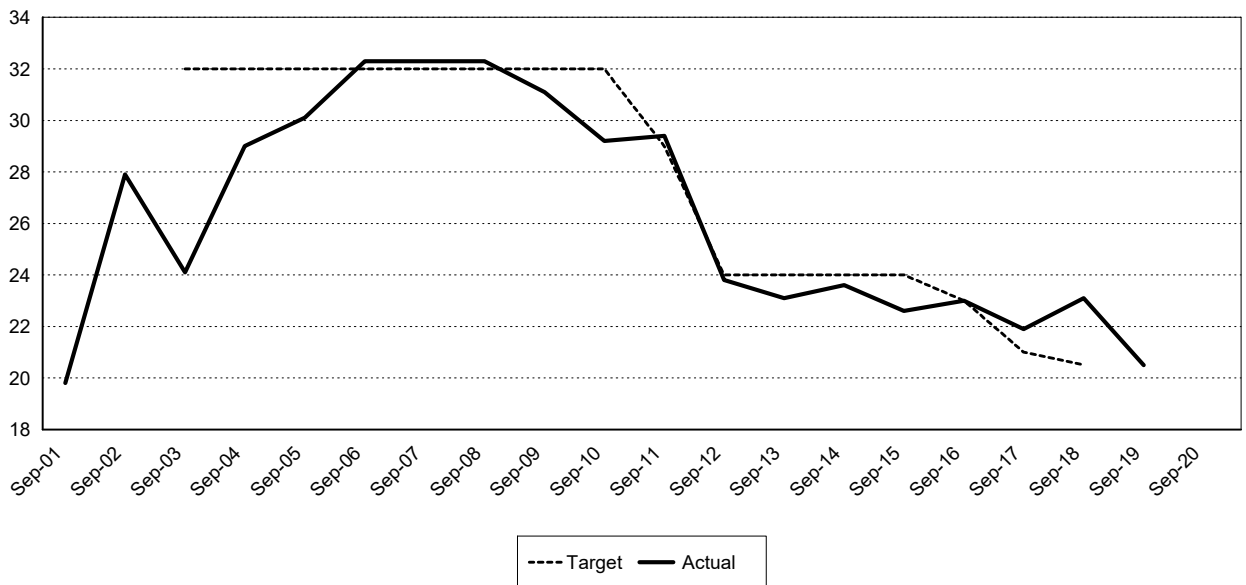
001486 Percentage of materials recycled and recovered for energy annually.			
Biennium	Period	Actual	Target
2019-21	A3		
	A3		
	A2		
	A2		
	A2		
	A2		
	A1		
	A1	0.49	
2017-19	A3		
	A3		
	A2		
	A2		
	A2		
	A2	0.49	0.5
	A1		
	A1	0.48	0.5
2015-17	A3		
	A3		
	A2		
	A2		
	A2		
	A2	0.47	0.54
	A1		
	A1	0.48	0.54



Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

001495 Pounds of household and small quantity generator hazardous wastes that are recycled or properly disposed.			
Biennium	Period	Actual	Target
2019-21	A3		
	A3		
	A2		
	A2		
	A2		
	A2		
	A1		
	A1	20.5	
2017-19	A3		
	A3		
	A2		
	A2		
	A2		
	A2	23.1	20.5
	A1		
2015-17	A1	21.9	21
	A3		
	A3		
	A2		
	A2		
	A2		
	A2	23	23
	A1		
	A1	22.6	24

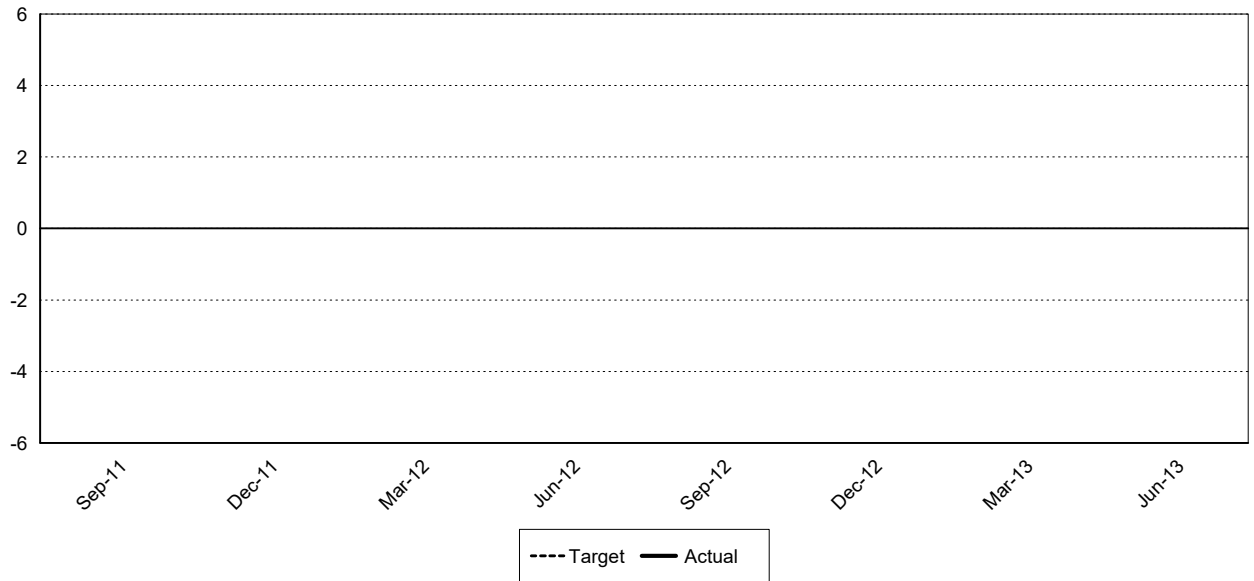
Number **001495 - Pounds of household and small quantity generator hazardous wastes recycled or properly disposed**



Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

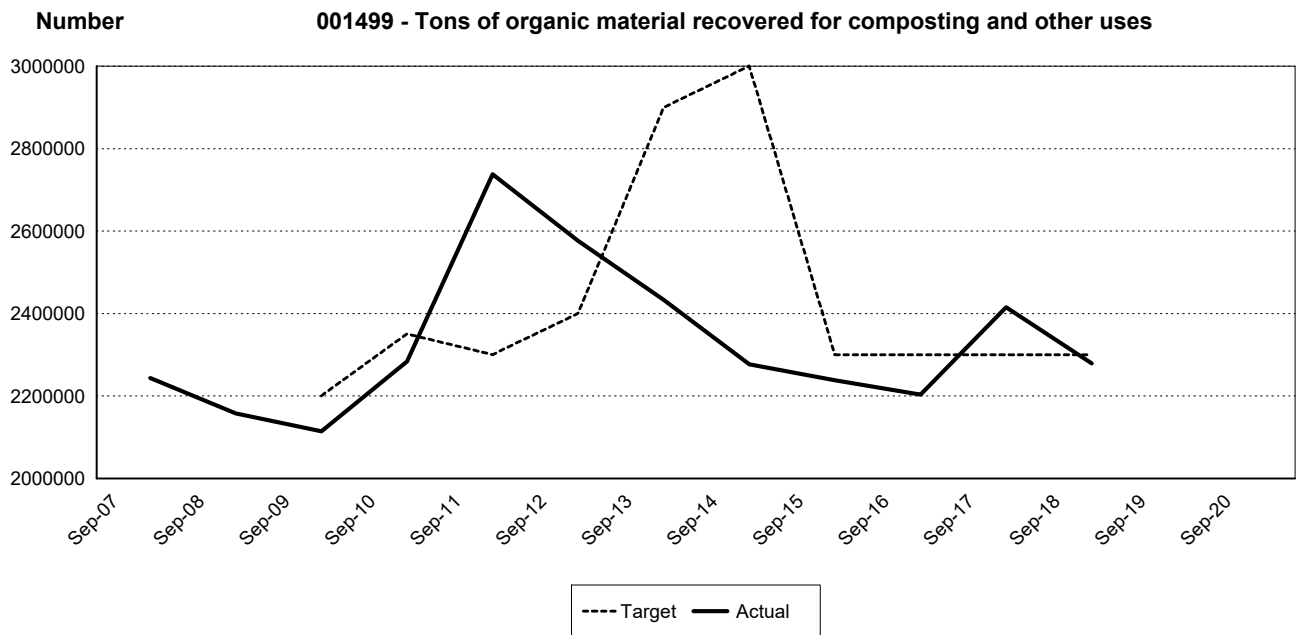
Number

001655 - Refer to Above Narrative Justification and Impact Statement



Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

001499 Tons of organic material recovered for composting and other uses.			
Biennium	Period	Actual	Target
2019-21	A3		
	A3		
	A2		
	A2		
	A2		
	A2		
	A1		
	A1		
2017-19	A3	2,279,350	2,300,000
	A3		
	A2	2,415,417	2,300,000
	A2		
	A2		
	A2		
	A1		
	A1		
2015-17	A3	2,203,195	2,300,000
	A3		
	A2	2,237,766	2,300,000
	A2		
	A2		
	A2		
	A1		
	A1		



A014 **Restore the Air, Soil, and Water Contaminated from Past Activities at Hanford**

The agency protects public health and natural resources by working to restore the public use of air, soil, and water at the Hanford Nuclear Reservation by cleaning up contaminated sites from past activities. Radioactive and hazardous contaminants are removed, residual contaminants are contained and monitored, and mitigation of natural resource damage on Hanford occurs.

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	16.6	16.5	16.6
219 Air Operating Permit Account			
219-1 State	\$68,000	\$69,000	\$137,000
216 Air Pollution Control Account			
216-1 State	\$17,000	\$17,000	\$34,000
001 General Fund			
001-1 State	\$7,000	\$8,000	\$15,000
001-2 Federal	\$2,634,000	\$3,022,000	\$5,656,000
001 Account Total	\$2,641,000	\$3,030,000	\$5,671,000
20R Radioactive Mixed Waste Account			
20R-1 State	\$581,000	\$608,000	\$1,189,000

Statewide Result Area: Sustainable Energy and a Clean Environment

Statewide Strategy: Preserve, maintain and restore natural systems and landscapes

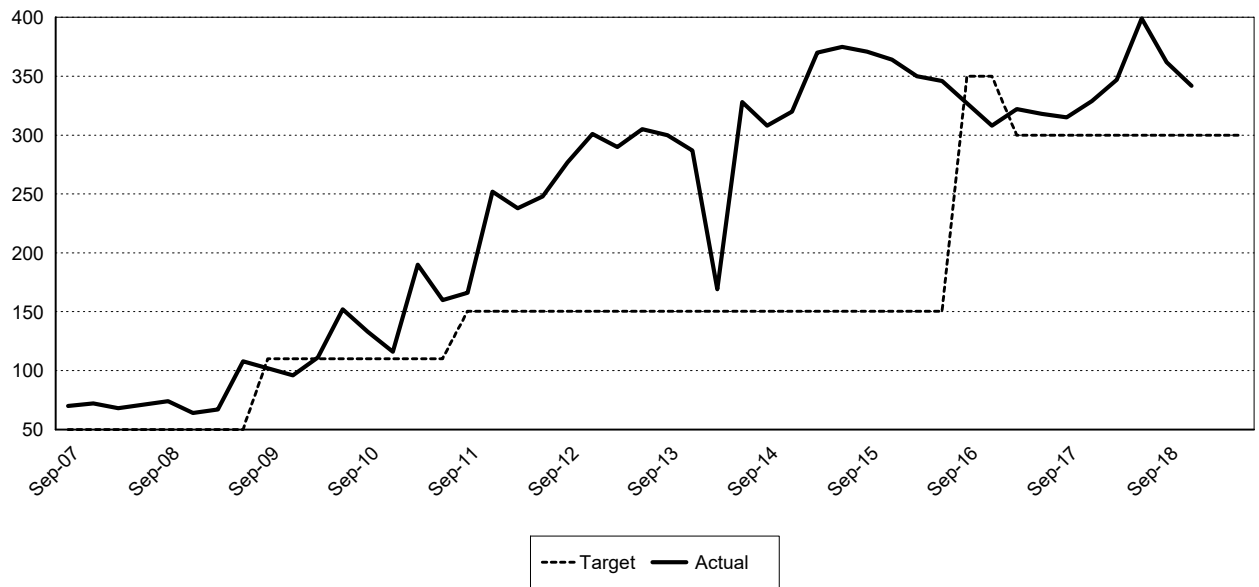
Expected Results

- Public use of the air, soil, and water at Hanford will be restored.
- Human and environmental risks associated with past Hanford activities are removed or reduced.
- Continue cleanup of contaminated waste sites adjacent to the Columbia River.
- Begin cleanup on the Hanford Central Plateau.

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

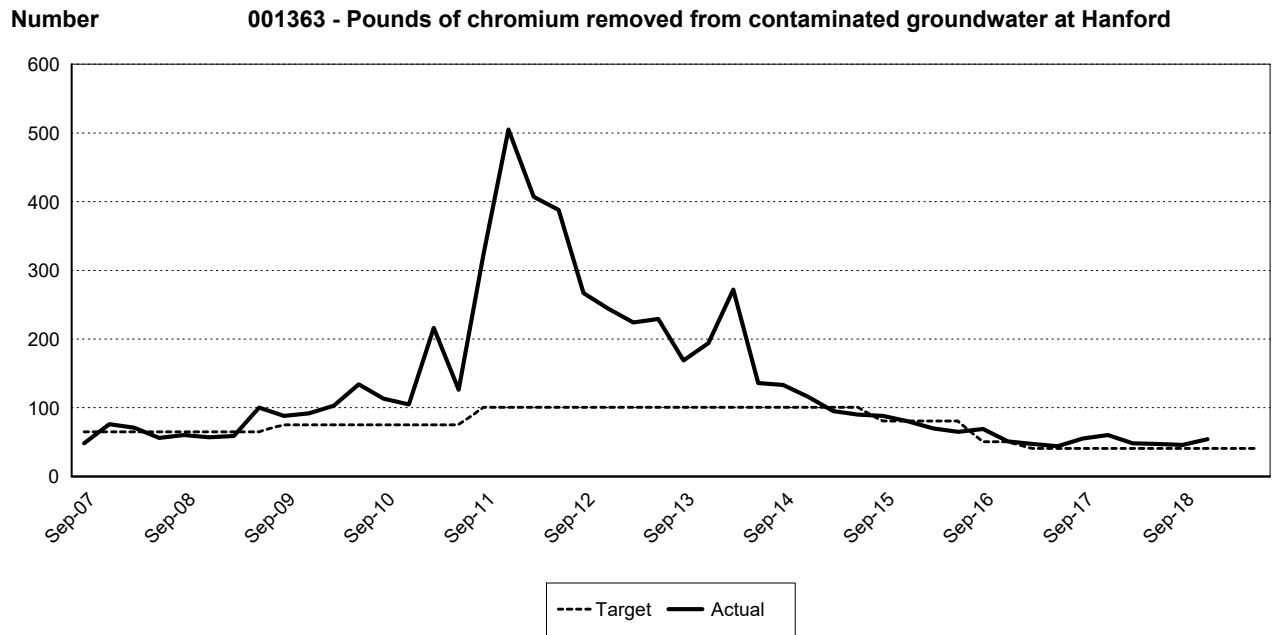
001362 Gallons of groundwater contaminated by hexavalent chromium that is remediated at Hanford (in millions of gallons)			
Biennium	Period	Actual	Target
2017-19	Q8		300
	Q7		300
	Q6	342	300
	Q5	362	300
	Q4	399	300
	Q3	347	300
	Q2	329	300
	Q1	315	300
2015-17	Q8	318	300
	Q7	322	300
	Q6	308	350
	Q5	327	350
	Q4	346	150
	Q3	350	150
	Q2	364	150
	Q1	371	150

Number **001362 - Gallons of groundwater contaminated by hexavalent chromium that is remediated at Hanford (millions)**



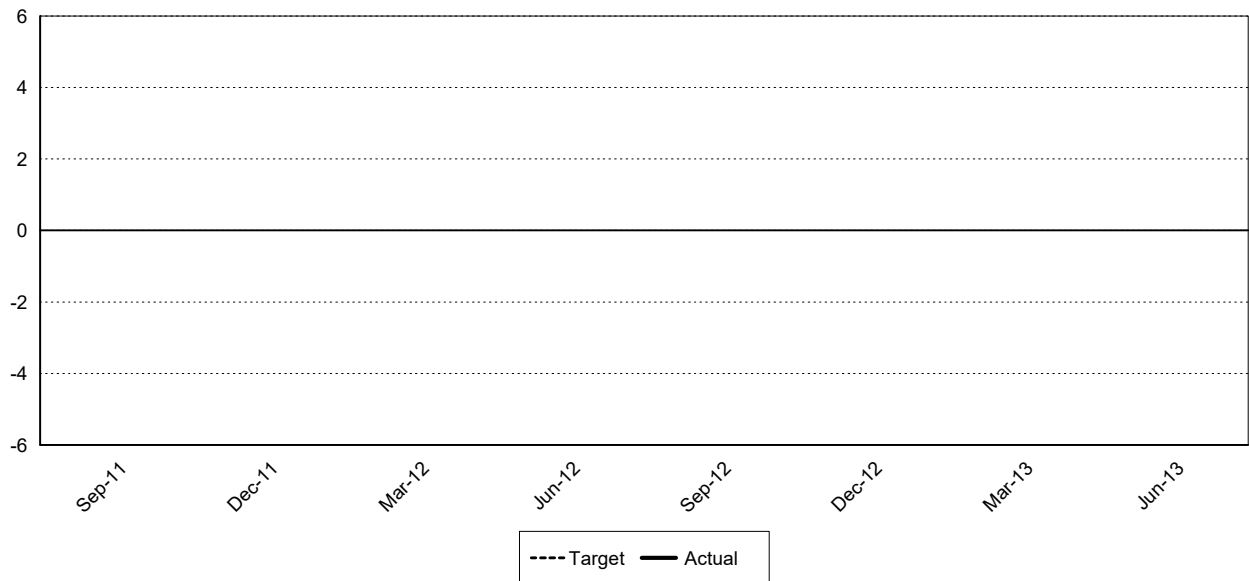
Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

001363 Pounds of chromium removed from contaminated groundwater at Hanford.			
Biennium	Period	Actual	Target
2017-19	Q8		40
	Q7		40
	Q6	54	40
	Q5	46	40
	Q4	47	40
	Q3	48	40
	Q2	60	40
	Q1	55	40
2015-17	Q8	44	40
	Q7	47	40
	Q6	51	50
	Q5	69	50
	Q4	65	80
	Q3	70	80
	Q2	80	80
	Q1	88	80



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Number 001655 - Refer to Above Narrative Justification and Impact Statement



A015 Clean Up and Remove Large, Complex, Contaminated Facilities throughout Hanford

The agency oversees the decommissioning of the large, complex, and high-risk facilities throughout the Hanford Nuclear Reservation, including nuclear reactors and chemical processing facilities used for nuclear weapons material production. Transition of these facilities to safe and stable conditions requires coordination of multiple regulatory and technical requirements. The agency is also responsible for regulatory oversight of waste management activities at four facilities not under the management of the U.S. Department of Energy (Energy Northwest, AREVA, Perma-Fix Northwest, and the U.S. Navy's Puget Sound Naval Shipyard).

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	12.5	12.4	12.5
219 Air Operating Permit Account			
219-1 State	\$71,000	\$71,000	\$142,000
216 Air Pollution Control Account			
216-1 State	\$18,000	\$18,000	\$36,000
001 General Fund			
001-1 State	\$7,000	\$8,000	\$15,000
001-2 Federal	\$302,000	\$313,000	\$615,000
001 Account Total	\$309,000	\$321,000	\$630,000
20R Radioactive Mixed Waste Account			
20R-1 State	\$1,003,000	\$1,021,000	\$2,024,000
176 Water Quality Permit Account			
176-1 State	\$72,000	\$76,000	\$148,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

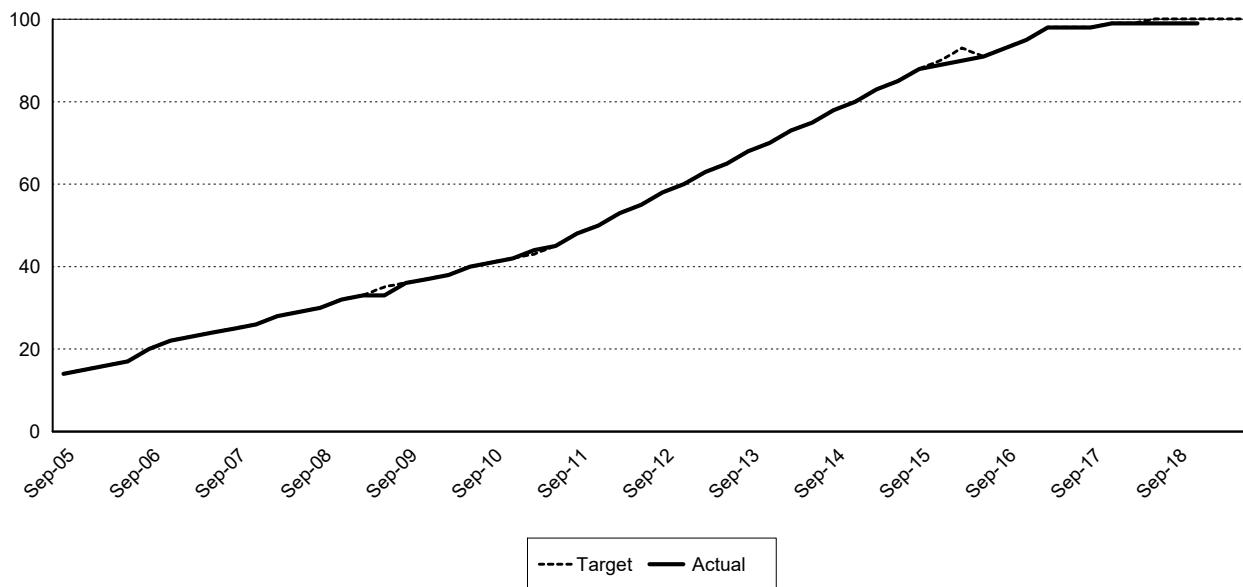
Expected Results

- All major facilities on the Hanford Site will be decontaminated and decommissioned, and either demolished or placed into a long term safe storage configuration.
- Removal and remediation actions for the 324 Building and soil contamination will be performed.
- Capsules containing cesium and strontium from the Waste Encapsulation Storage Facility will be transferred to dry storage at a new permitted interim storage facility at Hanford.
- The Plutonium Uranium Extraction Plant (PUREX) radioactive mixed waste storage tunnels, one of which collapsed, will be structurally stabilized and closed.
- Permitting and compliance oversight at Perma Fix Northwest, AREVA, Puget Sound Naval Shipyard, and Energy Northwest will continue.

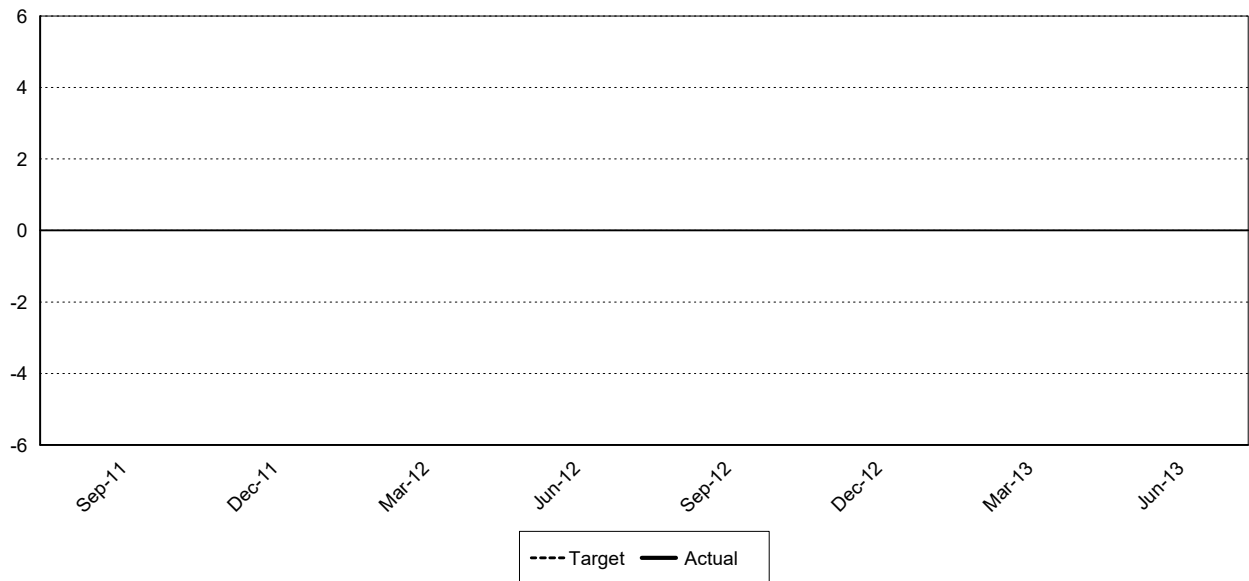
Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

001361 Decontaminate and decommission the plutonium finishing plant on Hanford on schedule by 2016. (percent complete)			
Biennium	Period	Actual	Target
2017-19	Q8		100%
	Q7		100%
	Q6	99%	100%
	Q5	99%	100%
	Q4	99%	100%
	Q3	99%	99%
	Q2	99%	99%
	Q1	98%	98%
2015-17	Q8	98%	98%
	Q7	98%	98%
	Q6	95%	95%
	Q5	93%	93%
	Q4	91%	91%
	Q3	90%	93%
	Q2	89%	90%
	Q1	88%	88%

Percent **001361 - Percent completion of decontamination/decommision of the Hanford plutonium finishing plant by 2016**



Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

Number 001655 - Refer to Above Narrative Justification and Impact Statement**A016 Treat and Dispose of Hanford's High-Level Radioactive Tank Waste**

The agency protects public health and natural resources by providing regulatory oversight for the treatment and removal of highly radioactive tank waste at the Hanford Nuclear Reservation. This activity is focused on the design, permitting, construction, and operation of the Hanford Waste Treatment Plant, the Integrated Disposal Facility (a mixed, low-level waste landfill), and immobilized high-level waste storage facility.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	34.4	30.3	32.4
219 Air Operating Permit Account			
219-1 State	\$84,000	\$88,000	\$172,000
216 Air Pollution Control Account			
216-1 State	\$25,000	\$25,000	\$50,000
001 General Fund			
001-1 State	\$7,000	\$8,000	\$15,000
001-2 Federal	\$21,000	\$21,000	\$42,000
001 Account Total	\$28,000	\$29,000	\$57,000
20R Radioactive Mixed Waste Account			
20R-1 State	\$3,747,000	\$3,766,000	\$7,513,000

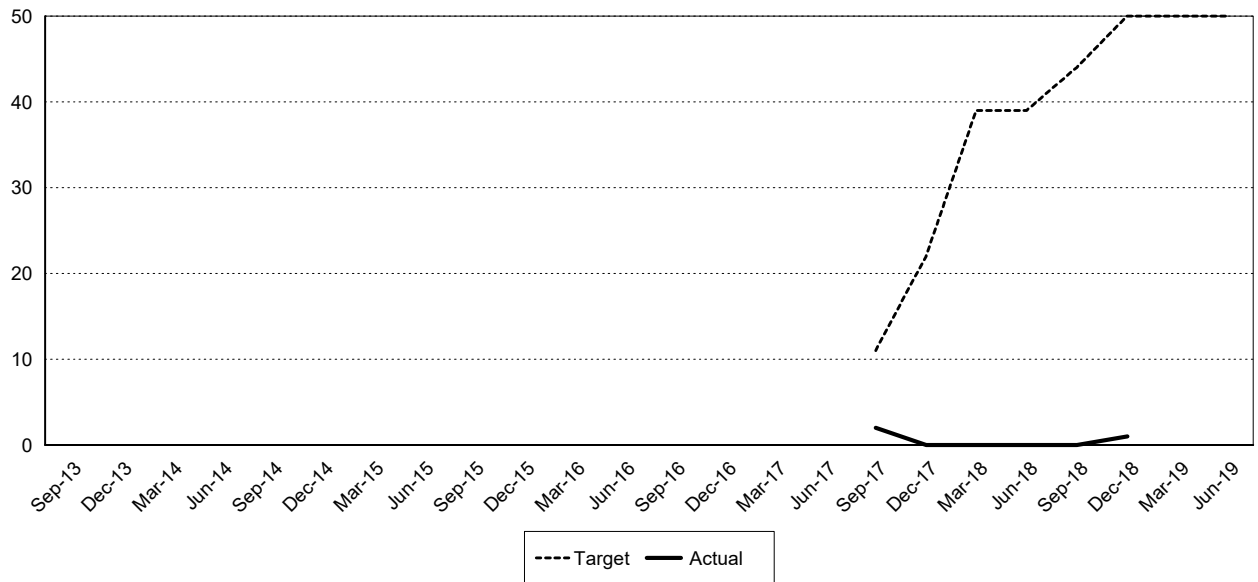
Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

Expected Results

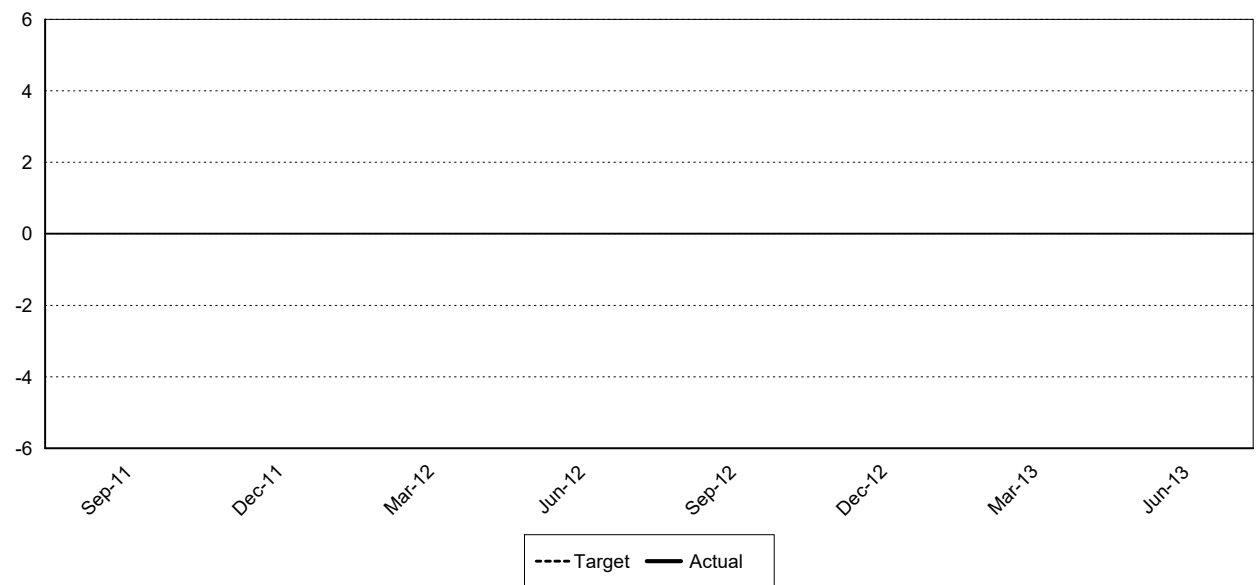
- 53 million gallons of high level radioactive mixed waste from Hanford's interim storage tanks will be retrieved and treated.
- Continue construction of The Hanford Tank Waste Treatment Plant at a rate that supports approved milestones.
- Start conceptual planning and design of an interim storage facility for immobilized high level waste.

002893 Percent completion of tasks required to construct and operate Hanford's low activity tank waste treatment plant (WTP)			
Biennium	Period	Actual	Target
2017-19	Q8		50%
	Q7		50%
	Q6	1%	50%
	Q5	0%	44%
	Q4	0%	39%
	Q3	0%	39%
	Q2	0%	22%
	Q1	2%	11%
2015-17	Q8		
	Q7		
	Q6		
	Q5		
	Q4		
	Q3		
	Q2		
	Q1		

Percent 002893 - Percent completion of tasks required to construct and operate Hanford's low activity tank WTP



Number 001655 - Refer to Above Narrative Justification and Impact Statement



A017 Ensure Safe Tank Operations, Storage of Tank Wastes, & Closure of the Waste Storage Tanks at Hanford

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

The agency protects public health and natural resources by ensuring the safe storage and management of 53 million gallons of high-level radioactive tank waste at the Hanford Nuclear Reservation. The Hanford Tank Waste Project is focused on permitting the double-shelled tank waste storage system, removing liquid wastes from the single-shelled tanks, and beginning to close portions of the tank waste storage system. In coordination with the Hanford Tank Waste Disposal Project, the tank waste will be removed and treated, leading to eventual closure of all 177 Hanford tanks by 2028.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	16.8	18.2	17.5
219 Air Operating Permit Account			
219-1 State	\$89,000	\$91,000	\$180,000
216 Air Pollution Control Account			
216-1 State	\$26,000	\$29,000	\$55,000
001 General Fund			
001-1 State	\$9,000	\$9,000	\$18,000
001-2 Federal	\$12,000	\$12,000	\$24,000
001 Account Total	\$21,000	\$21,000	\$42,000
20R Radioactive Mixed Waste Account			
20R-1 State	\$1,886,000	\$1,918,000	\$3,804,000

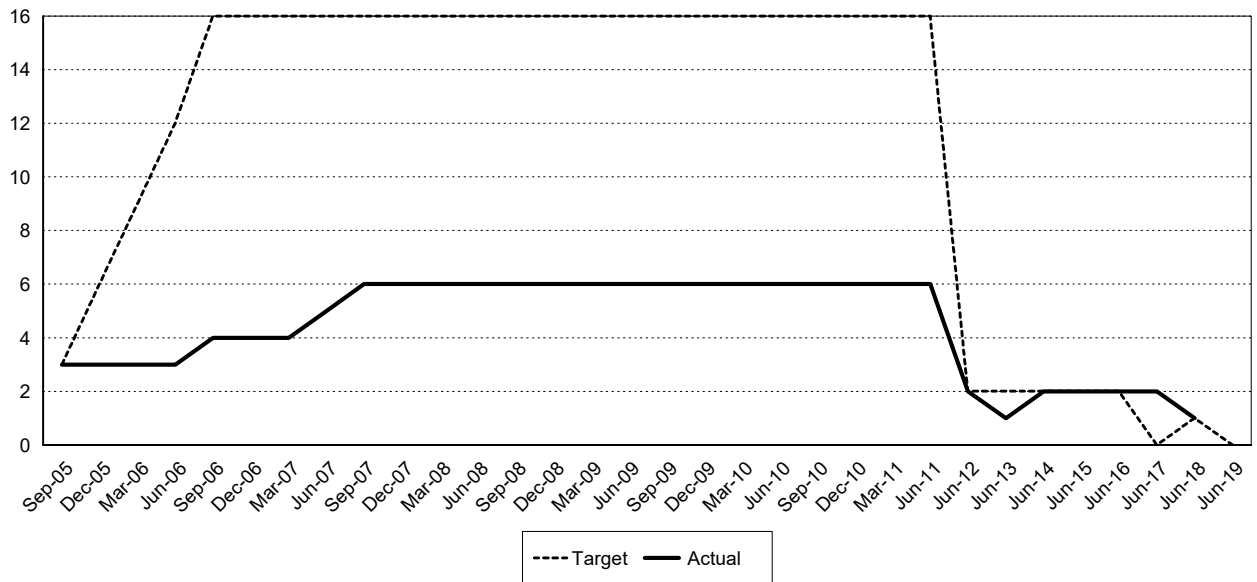
Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

Expected Results

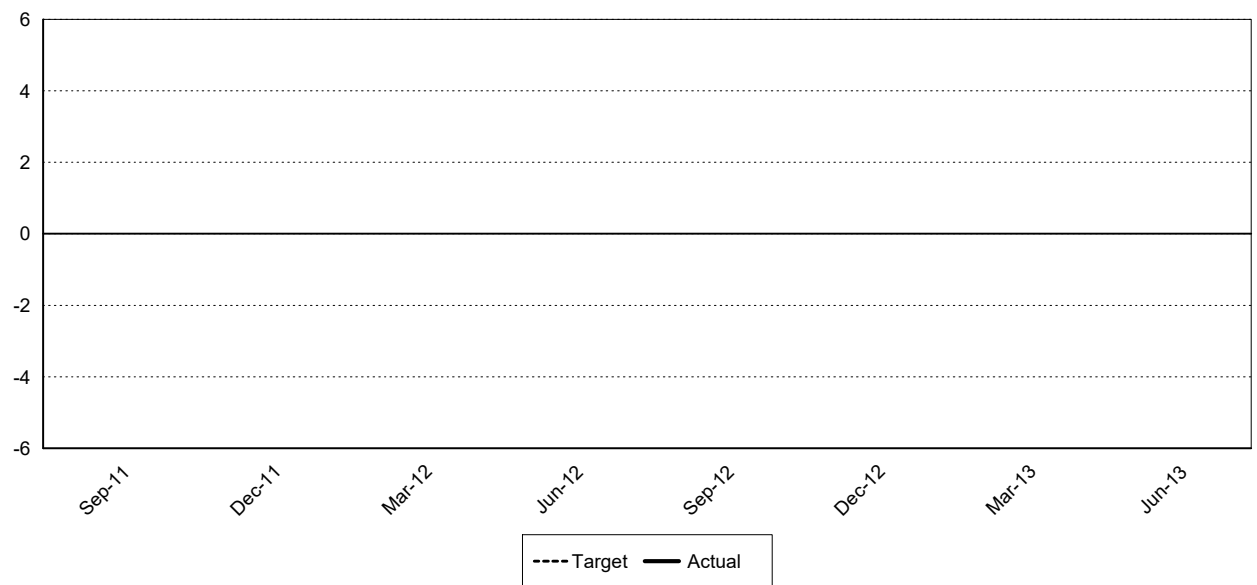
- Public health and environmental risk from the highly toxic, mixed radioactive and hazardous tank waste is reduced and tank wastes are safely managed until treated and properly disposed of.
- Single shell tanks are emptied and waste safely stored to meet consent decree requirements.
- A permit is issued for the Double Shell Tank Farms and the 242A evaporator by January 2021.
- A closure plan is issued for the Single Shell Tank Farms by January 2021.

001357 Number of single shell tanks containing radioactive hazardous waste emptied at Hanford. 28 total tanks emptied by 2027			
Biennium	Period	Actual	Target
2017-19	A3		0
	A2	1	1
2015-17	A3	2	0
	A2	2	2

Number **001357 - Number of Hanford single shell tanks containing radioactive hazardous waste emptied.**



Number **001655 - Refer to Above Narrative Justification and Impact Statement**



A018 **Ensure the Safe Management of Radioactive Mixed Waste at Hanford**

The agency provides regulatory oversight for the safe storage, treatment, and disposal of liquid and solid dangerous and radioactive mixed wastes at the Hanford Nuclear Reservation, as well as at radioactive mixed-waste sites throughout the state. This activity regulates the management of this historic and ongoing waste stream, and ensures the retrieval, treatment, and safe disposal of high-risk transuranic and high activity wastes currently buried in shallow, unlined trenches.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	18.2	19.1	18.7
219 Air Operating Permit Account			
219-1 State	\$72,000	\$75,000	\$147,000
216 Air Pollution Control Account			
216-1 State	\$18,000	\$18,000	\$36,000
001 General Fund			
001-1 State	\$7,000	\$8,000	\$15,000
001-2 Federal	\$213,000	\$214,000	\$427,000
001-7 Private/Local	\$76,000	\$88,000	\$164,000
001 Account Total	\$296,000	\$310,000	\$606,000
23P Model Toxics Control Operating Account			
23P-1 State	\$598,000	\$499,000	\$1,097,000
20R Radioactive Mixed Waste Account			
20R-1 State	\$1,642,000	\$1,652,000	\$3,294,000
125 Site Closure Account			
125-1 State	\$290,000	\$292,000	\$582,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

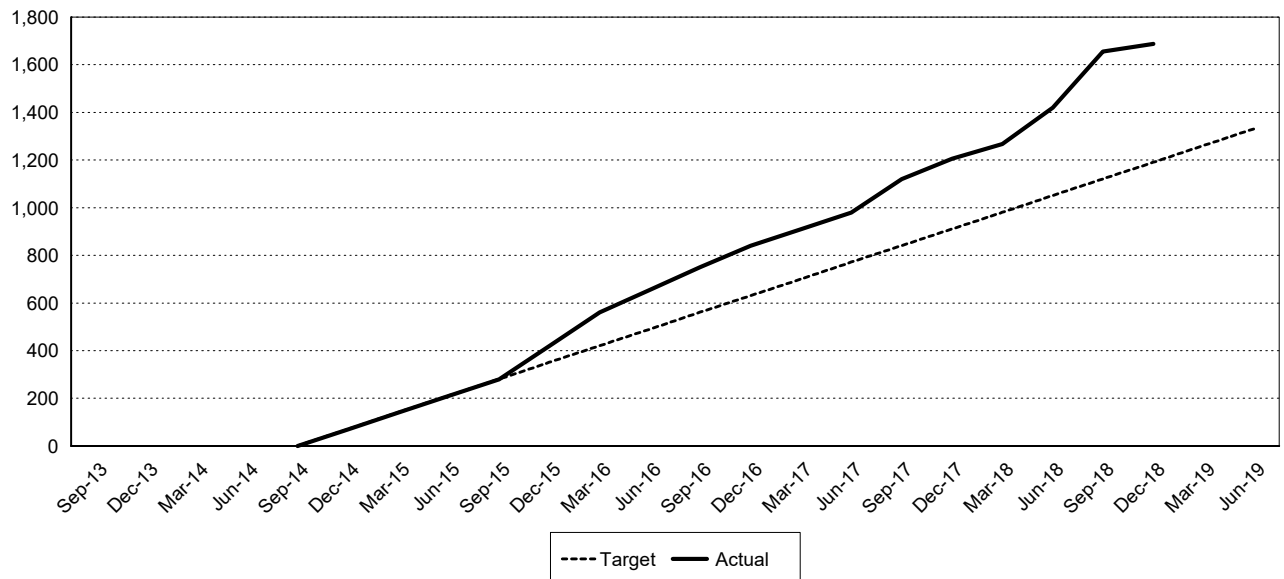
Expected Results

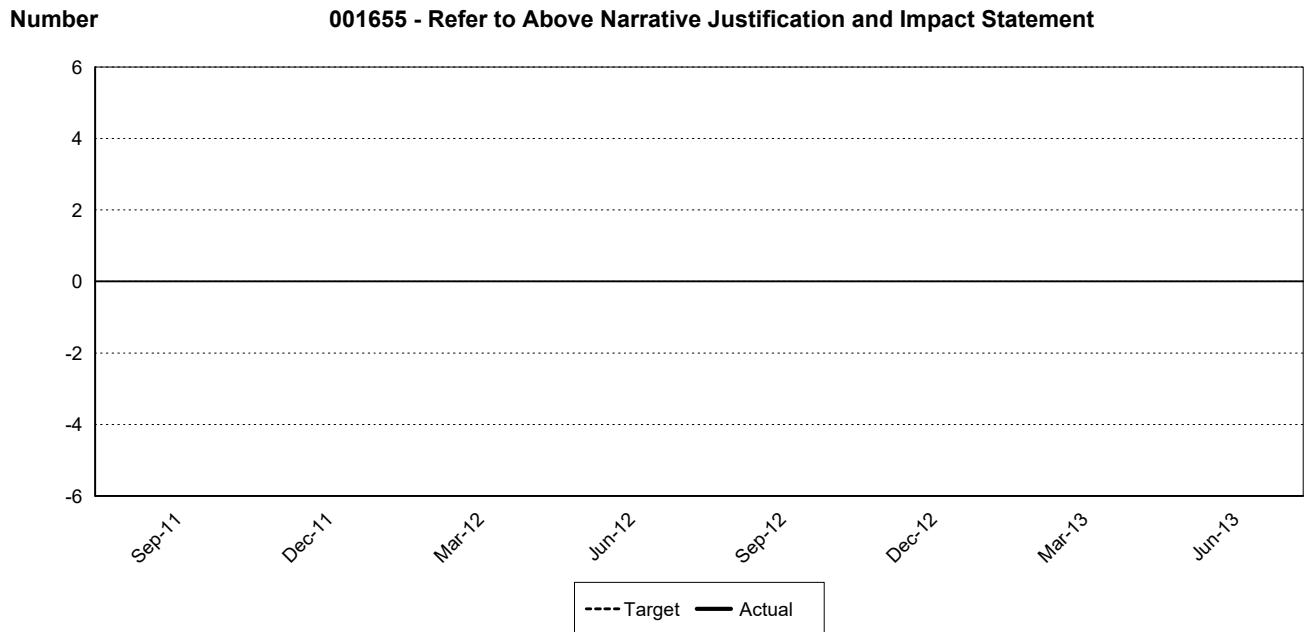
- Manage and retrieve, treat and process, store and dispose of transuranic and mixed low level waste in compliance with existing regulations to reduce risks posed to Hanford workers and the environment significantly.
- 15,058 cubic meters (cumulative) of retrievably stored waste will be retrieved from the burial grounds at Hanford, certified for shipment to the Waste Isolation Pilot Plant in New Mexico, or treated for disposal at Hanford by September 30, 2030.
- The U.S. Ecology commercial low level radioactive waste site MTCA remediation will be completed in coordination with closure activities that are being directed by the Washington Department of Health.

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

002892 Cubic meters of radioactive, dangerous waste certified by US DOE for shipment to the Waste Isolation Pilot Project in New Mexico or treated for disposal at Hanford.			
Biennium	Period	Actual	Target
2017-19	Q8		1,330
	Q7		1,260
	Q6	1,688	1,190
	Q5	1,655	1,120
	Q4	1,420	1,050
	Q3	1,267	980
	Q2	1,206	910
	Q1	1,120	840
2015-17	Q8	980	770
	Q7	910	700
	Q6	840	630
	Q5	750	560
	Q4	655	490
	Q3	560	420
	Q2	420	350
	Q1	280	280

Number 002892 - Cubic meters of radioactive, dangerous waste certified by US DOE for shipment





A019 Improve Community Access to Hazardous Substance and Waste Information

Ecology provides the public and local governments with information about the type, location, and source of hazardous substances in local communities. Ecology uses automated data systems to:

- Track compliance and technical assistance visits.
- Measure pollution prevention and compliance progress.
- Track amounts of dangerous waste generated each year as well as its transport, treatment, and/or disposal.
- Identify toxic chemicals released and stored by businesses.
- Track information on facilities that prepare pollution prevention plans.
- Prepare informational publications, such as Shoptalk, a newsletter for hazardous waste generators.

According to federal and state community right-to-know laws, Ecology also responds to public inquiries about toxic chemicals and provides a web site for this purpose.

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	24.0	23.1	23.6
001 General Fund			
001-2 Federal	\$204,000	\$200,000	\$404,000
207 Hazardous Waste Assistance Account			
207-1 State	\$798,000	\$844,000	\$1,642,000
23P Model Toxics Control Operating Account			
23P-1 State	\$631,000	\$762,000	\$1,393,000
163 Worker and Community Right-to-Know Account			
163-1 State	\$917,000	\$947,000	\$1,864,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

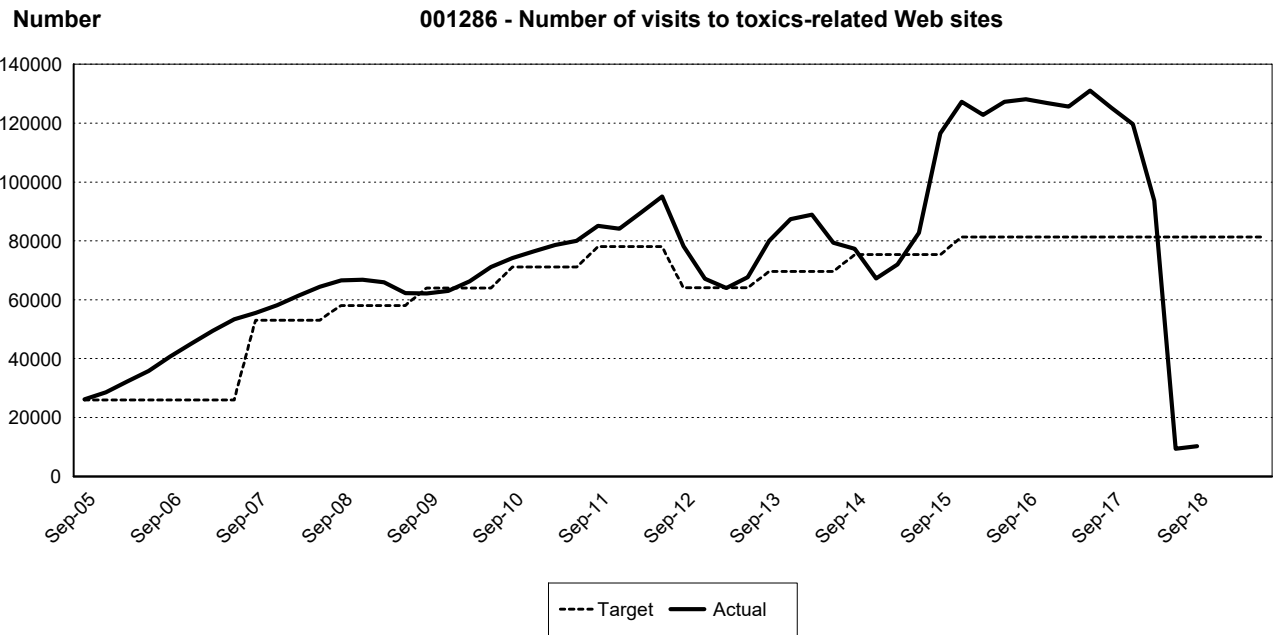
Expected Results

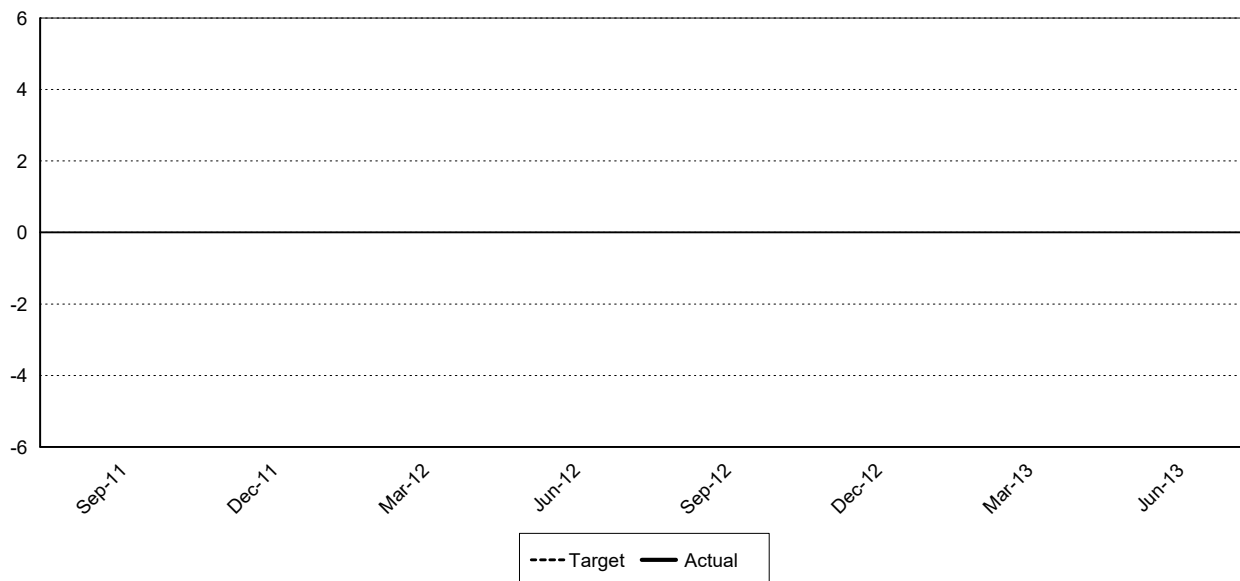
Dangerous waste and chemical data (type, location, amount, etc.) is available to emergency responders, and local governments so they can plan and prepare for chemical hazards in their communities. This is accomplished through:

- Publishing and promoting the Shoptalk newsletter to 10,000 subscribers.
- Creating or updating 50 business publications each year and posting them to the web.
- Writing and distributing eight business pollution prevention success stories during the biennium.
- Updating our compliance and toxics reduction web content.

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

001286 Number of visits to Ecology's Hazardous Waste and Toxics Reduction web sites.			
Biennium	Period	Actual	Target
2017-19	Q8		81,270
	Q7		81,270
	Q6		81,270
	Q5	10,200	81,270
	Q4	9,400	81,270
	Q3	93,654	81,270
	Q2	119,659	81,270
	Q1	125,206	81,270
2015-17	Q8	131,092	81,270
	Q7	125,670	81,270
	Q6	126,887	81,270
	Q5	128,114	81,270
	Q4	127,248	81,270
	Q3	122,787	81,270
	Q2	127,296	81,270
	Q1	116,530	75,250



Number 001655 - Refer to Above Narrative Justification and Impact Statement**A020 Improve Quality of Data Used for Environmental Decision Making**

To ensure the reliability and integrity of data Ecology generates, agency staff:

- Provide guidance and training on developing quality assurance project plans.
- Review project proposals.
- Consult on sampling design requirements and interpretation of results.

This quality assurance work is required by the Environmental Protection Agency for entities (including Ecology) that receive funding for work involving environmental data. In addition, Ecology scientists, modelers, statisticians, chemists, and other specialists:

- Interpret technical data.
- Review grantee monitoring plans.
- Supply information for policy decisions to support agency mandates.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	4.6	4.6	4.6
001 General Fund			
001-2 Federal	\$181,000	\$184,000	\$365,000
23P Model Toxics Control Operating Account			
23P-1 State	\$271,000	\$288,000	\$559,000
176 Water Quality Permit Account			
176-1 State	\$149,000	\$157,000	\$306,000

Statewide Result Area: Sustainable Energy and a Clean Environment

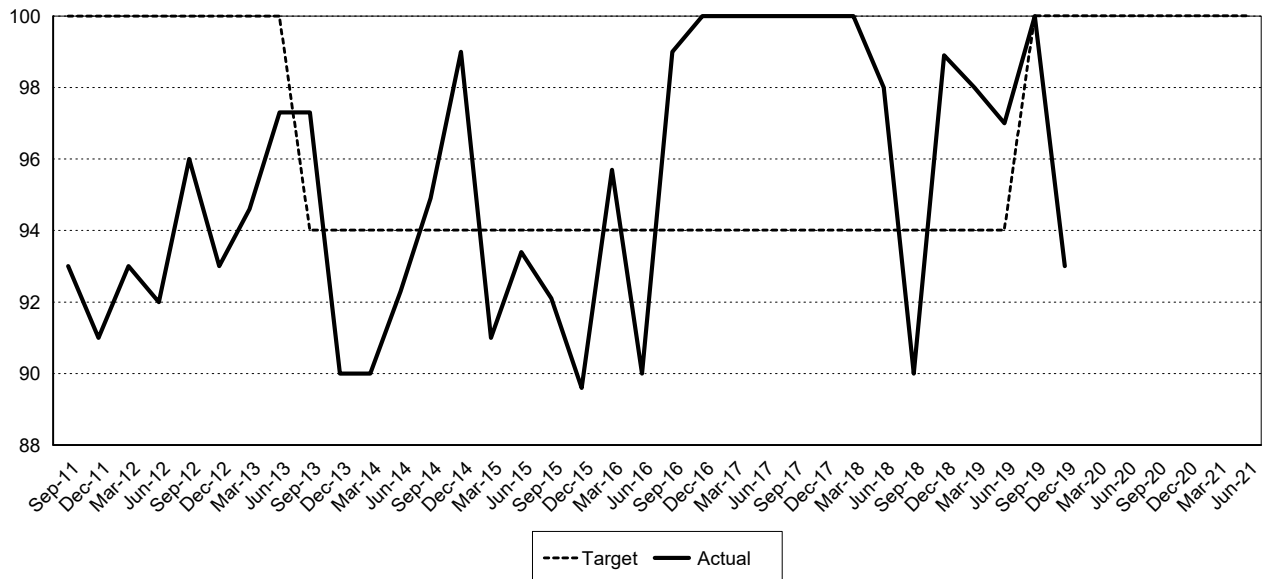
Statewide Strategy: **Establish safeguards and standards to prevent and manage pollution**

Expected Results

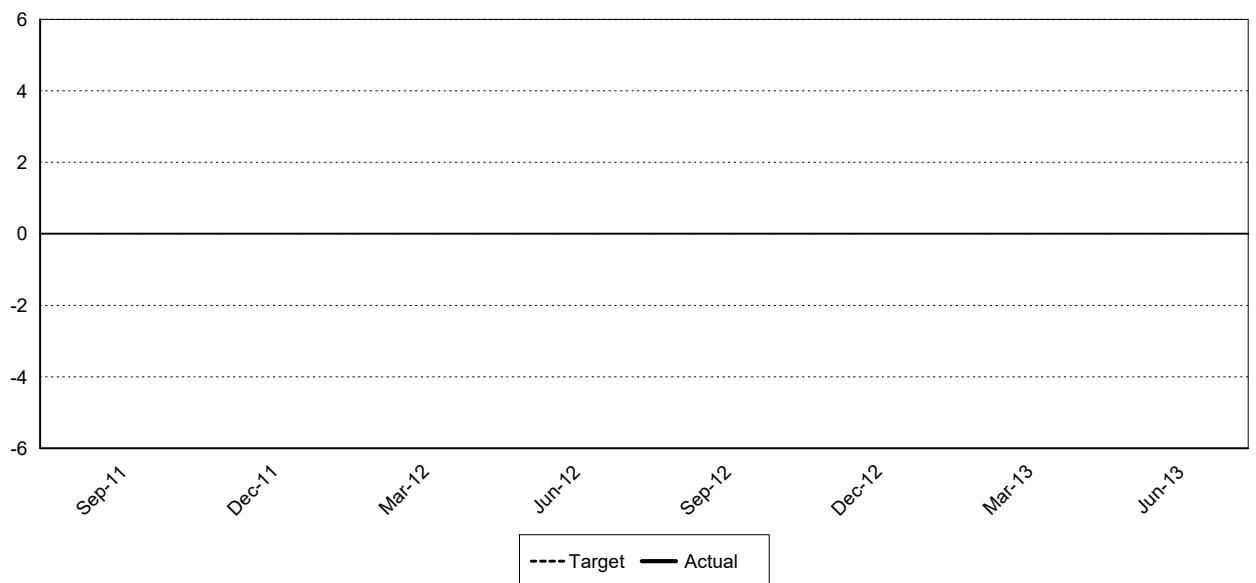
- Standard operating procedures are up-to-date and approved for quality assurance so environmental policy and agency decisions are based on accurate, reliable, and timely data.
- Quality assurance project plans are completed for all scientific studies before sampling begins so the quality and credibility of data generated for decision-making is documented.
- Entities receiving funding for work involving environmental data can continue to receive EPA funds.

002855 Percentage of field monitoring standard operating procedures that are up to date and approved for quality assurance.			
Biennium	Period	Actual	Target
2019-21	Q8		100%
	Q7		100%
	Q6		100%
	Q5		100%
	Q4		100%
	Q3		100%
	Q2	93%	100%
	Q1	100%	100%
2017-19	Q8	97%	94%
	Q7	98%	94%
	Q6	98.9%	94%
	Q5	90%	94%
	Q4	98%	94%
	Q3	100%	94%
	Q2	100%	94%
	Q1	100%	94%
2015-17	Q8	100%	94%
	Q7	100%	94%
	Q6	100%	94%
	Q5	99%	94%
	Q4	90%	94%
	Q3	95.7%	94%
	Q2	89.6%	94%
	Q1	92.1%	94%

Percent **002855 - Percentage of field monitoring SOPs that are up to date and approved for quality assurance**



Number **001655 - Refer to Above Narrative Justification and Impact Statement**



A021 Increase Compliance and Act on Environmental Threats from Hazardous Waste

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

The agency annually conducts formal compliance enforcement inspections at large and medium quantity generators and hazardous waste management facilities to ensure compliance with state and federal regulations. A credible, formal enforcement capability is essential to preserving the effectiveness of technical assistance and informal enforcement efforts. While staff undertake formal enforcement infrequently, repeated refusal or inability of a facility to correct violations and comply with the regulations will escalate to formal enforcement actions. When possible, a streamlined enforcement and settlement approach is used. This frees up inspectors to do more inspections instead of spending excess time with legal proceedings. The state also periodically amends the Dangerous Waste Regulations to keep our rules current with the federal program and maintain state authorization.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	38.6	38.5	38.6
001 General Fund			
001-2 Federal	\$792,000	\$841,000	\$1,633,000
23P Model Toxics Control Operating Account			
23P-1 State	\$3,545,000	\$3,908,000	\$7,453,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

Expected Results

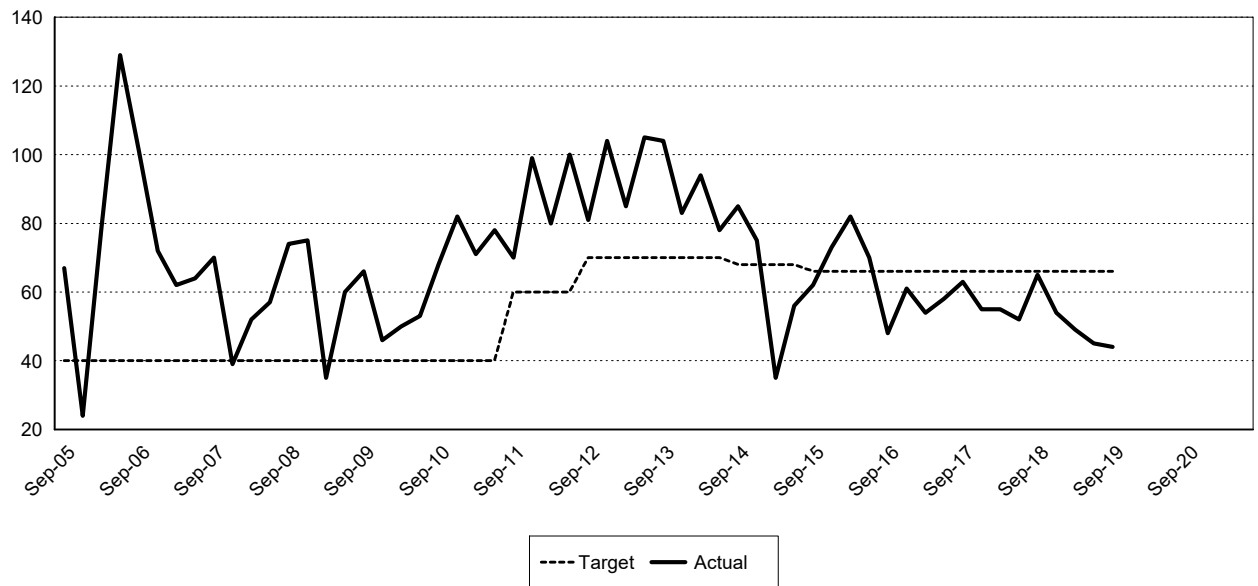
Large and medium quantity generators and facilities that treat, store, or dispose of dangerous wastes are in compliance with state and federal regulations designed to protect human health and the environment. We accomplish this through:

- Conducting over 400 compliance inspections annually.
- Leaning our compliance inspection process in an effort to add capacity for additional inspections.
- Responding to 100 percent of dangerous waste related complaints (approximately 120 180 complaints per year).
- Utilizing streamlined enforcement and settlement approaches as opportunities arise.
- Issuing timely enforcement actions resulting in a deterrent to businesses and changed behavior.
- Focusing on reducing the number of significant environmental threats found during inspections.

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001284 Number of significant toxics-related environmental threats resolved.			
Biennium	Period	Actual	Target
2019-21	Q8		
	Q7		
	Q6		
	Q5		
	Q4		
	Q3		
	Q2		
	Q1	44	66
2017-19	Q8	45	66
	Q7	49	66
	Q6	54	66
	Q5	65	66
	Q4	52	66
	Q3	55	66
	Q2	55	66
	Q1	63	66
2015-17	Q8	58	66
	Q7	54	66
	Q6	61	66
	Q5	48	66
	Q4	70	66
	Q3	82	66
	Q2	73	66
	Q1	62	66

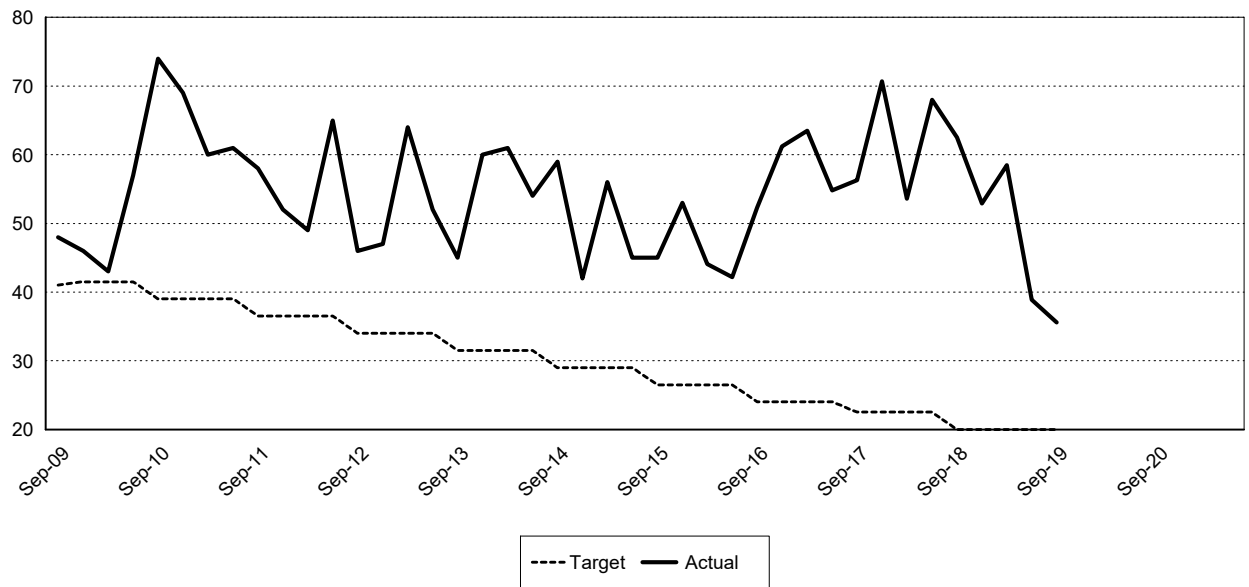
Number **001284 - Number of significant toxics-related environmental threats resolved**



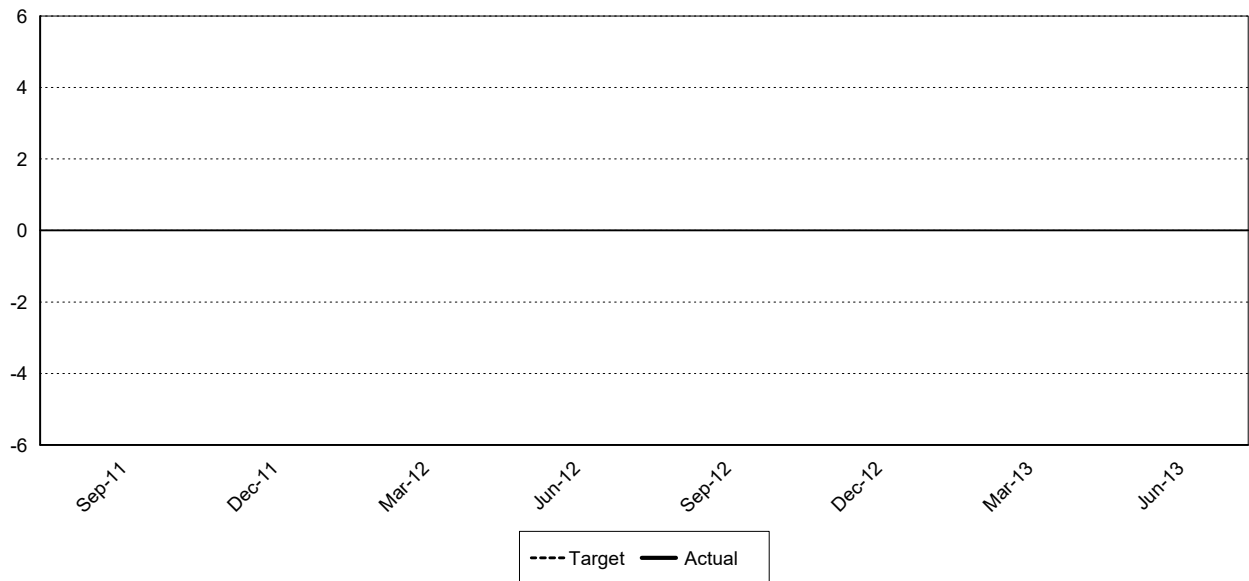
Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

001294 Percentage chance of finding a significant environmental threat during a compliance inspection.			
Biennium	Period	Actual	Target
2019-21	Q8		
	Q7		
	Q6		
	Q5		
	Q4		
	Q3		
	Q2		
	Q1	35.6%	20%
2017-19	Q8	38.9%	20%
	Q7	58.5%	20%
	Q6	52.9%	20%
	Q5	62.5%	20%
	Q4	68%	22.5%
	Q3	53.6%	22.5%
	Q2	70.7%	22.5%
	Q1	56.3%	22.5%
2015-17	Q8	54.8%	24%
	Q7	63.5%	24%
	Q6	61.2%	24%
	Q5	52.3%	24%
	Q4	42.2%	26.5%
	Q3	44.1%	26.5%
	Q2	53%	26.5%
	Q1	45%	26.5%

Percent **001294 - Percentage chance of finding a significant environmental threat during a compliance inspection**



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Number 001655 - Refer to Above Narrative Justification and Impact Statement**A022 Increase Safe Hazardous Waste Management**

Ecology provides education and technical assistance to thousands of businesses on safe hazardous waste management. Safe management of hazardous waste protects the public and the environment, and enables the state to avoid significant clean-up costs. Although formal enforcement work is essential to maintaining compliance with hazardous waste regulations, training and technical assistance visits also can help bring facilities into regulatory compliance using fewer resources. Even small amounts of mismanaged toxic chemicals can create contaminated sites and pollute stormwater. To address environmental threats from small businesses, Ecology also oversees performance contracts with nine Puget Sound counties (in addition to Spokane County). These contracts provide for Local Source Control Specialists to conduct technical assistance visits to small businesses.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	12.2	12.2	12.2
001 General Fund			
001-2 Federal	\$682,000	\$815,000	\$1,497,000
207 Hazardous Waste Assistance Account			
207-1 State	\$276,000	\$298,000	\$574,000
23P Model Toxics Control Operating Account			
23P-1 State	\$2,873,000	\$3,042,000	\$5,915,000

Statewide Result Area: Sustainable Energy and a Clean Environment

Statewide Strategy: **Establish safeguards and standards to prevent and manage pollution**

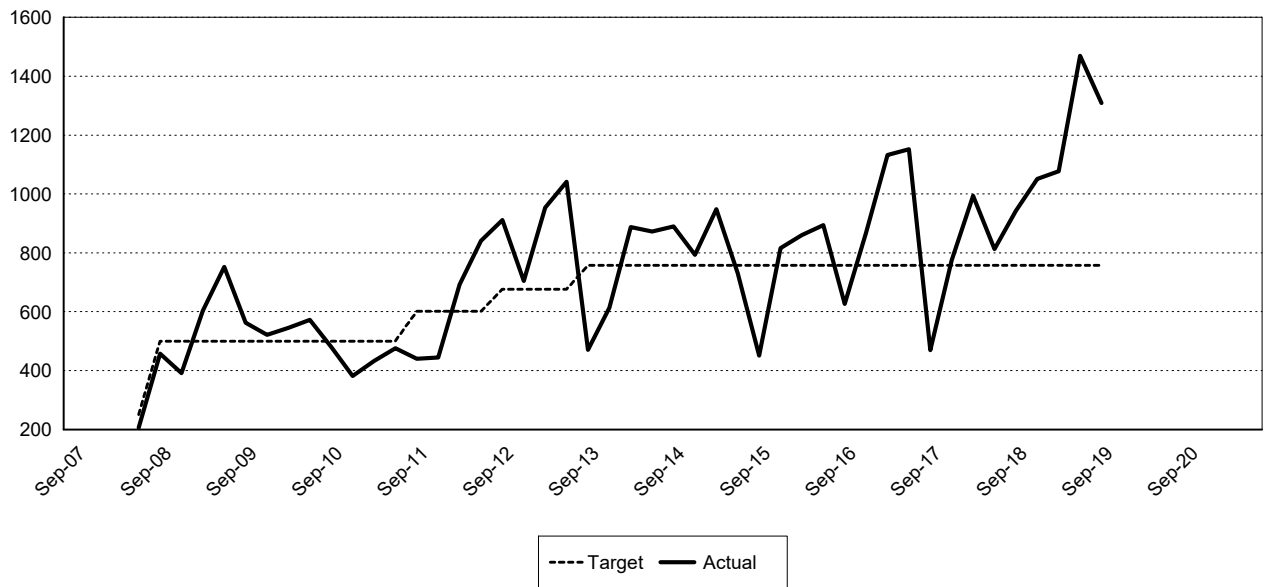
Expected Results

Dangerous waste is safely managed, the public is protected, and businesses comply with state dangerous waste rules. We accomplish this through:

- Conducting up to 200 compliance-related technical assistance visits to businesses each year.
- Providing six web-based dangerous waste workshop videos and training modules to help business properly manage dangerous waste and fill out their annual reports.
- Conducting at least four dangerous waste workshops across the state.

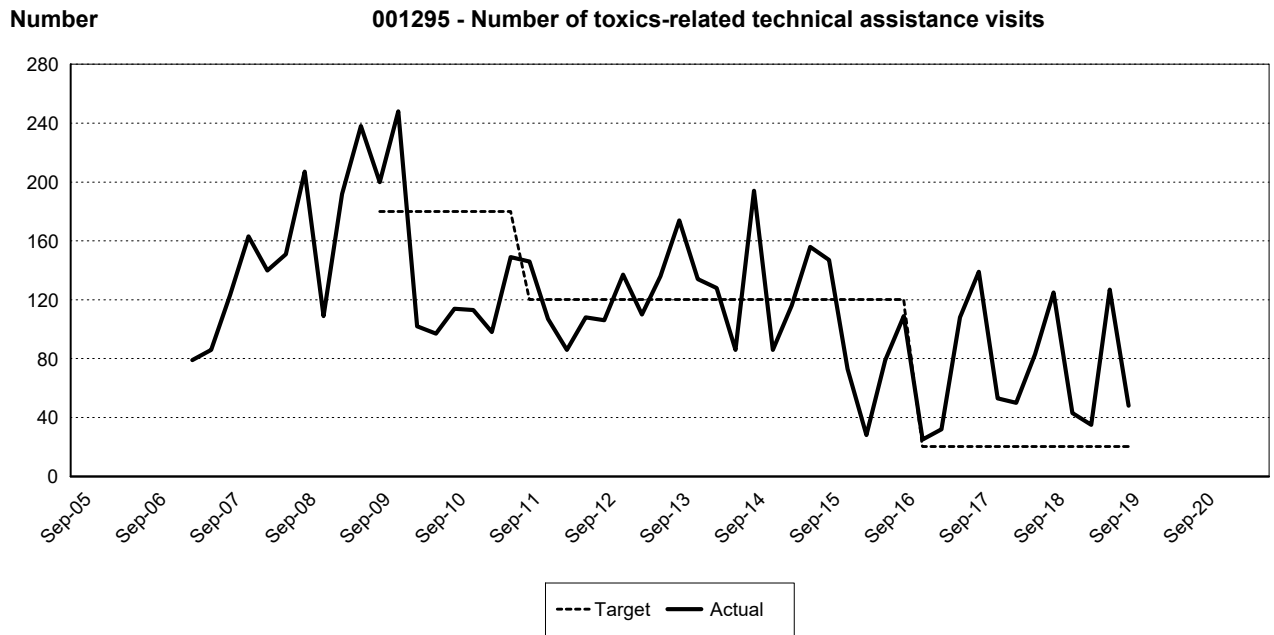
001296 Number of Ecology-funded small business technical assistance visits conducted by local government.			
Biennium	Period	Actual	Target
2019-21	Q8		
	Q7		
	Q6		
	Q5		
	Q4		
	Q3		
	Q2		
	Q1	1,309	756
2017-19	Q8	1,469	756
	Q7	1,077	756
	Q6	1,051	756
	Q5	943	756
	Q4	813	756
	Q3	994	756
	Q2	775	756
	Q1	469	756
2015-17	Q8	1,152	756
	Q7	1,133	756
	Q6	869	756
	Q5	627	756
	Q4	894	756
	Q3	861	756
	Q2	816	756
	Q1	451	756

Number **001296 - Number of Ecology-funded small business technical assistance visits conducted by local government**



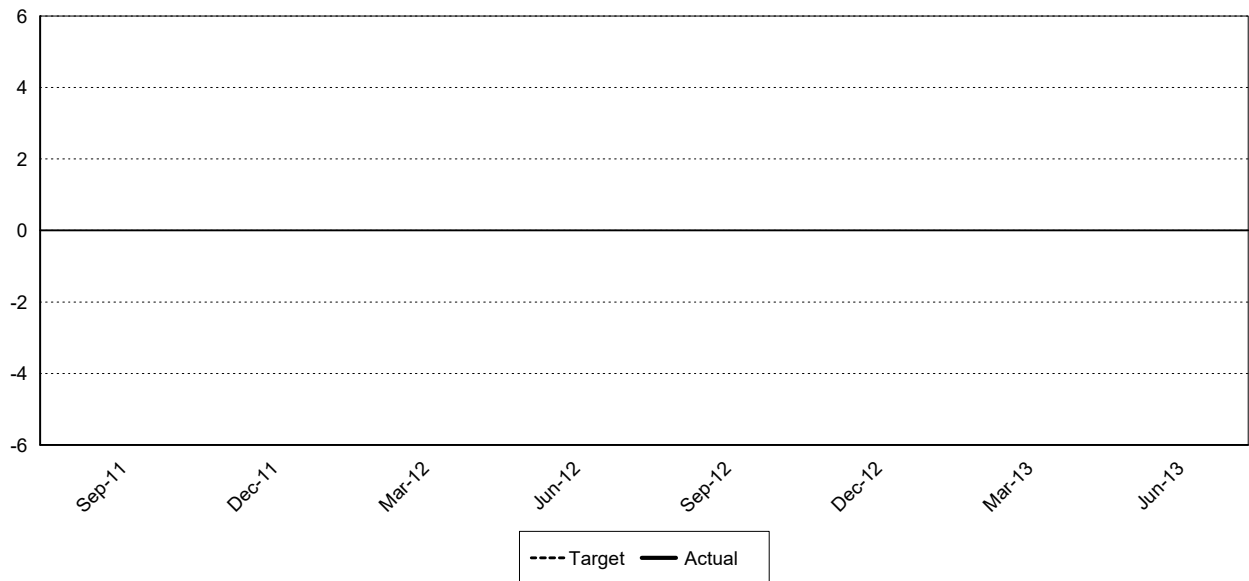
Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

001295 Number of toxics-related technical assistance visits.			
Biennium	Period	Actual	Target
2019-21	Q8		
	Q7		
	Q6		
	Q5		
	Q4		
	Q3		
	Q2		
	Q1	48	20
2017-19	Q8	127	20
	Q7	35	20
	Q6	43	20
	Q5	125	20
	Q4	83	20
	Q3	50	20
	Q2	53	20
	Q1	139	20
2015-17	Q8	108	20
	Q7	32	20
	Q6	25	20
	Q5	109	120
	Q4	79	120
	Q3	28	120
	Q2	73	120
	Q1	147	120



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Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

Number 001655 - Refer to Above Narrative Justification and Impact Statement**A023 Manage Underground Storage Tanks to Minimize Releases**

Ecology currently regulates over 10,000 active tanks on over 3,600 different properties, including gas stations, industries, commercial properties, and governmental entities. We ensure tanks are installed, managed, and monitored according to federal standards and in a way that prevents releases into the environment. This is done through compliance inspections and providing technical assistance to tank owners and operators. Properly managing such tanks saves millions of dollars in cleanup costs and prevents contamination of limited drinking water and other groundwater resources.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	23.6	23.6	23.6
001 General Fund			
001-2 Federal	\$405,000	\$404,000	\$809,000
23P Model Toxics Control Operating Account			
23P-1 State	\$207,000	\$207,000	\$414,000
182 Underground Storage Tank Account			
182-1 State	\$1,752,000	\$1,829,000	\$3,581,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

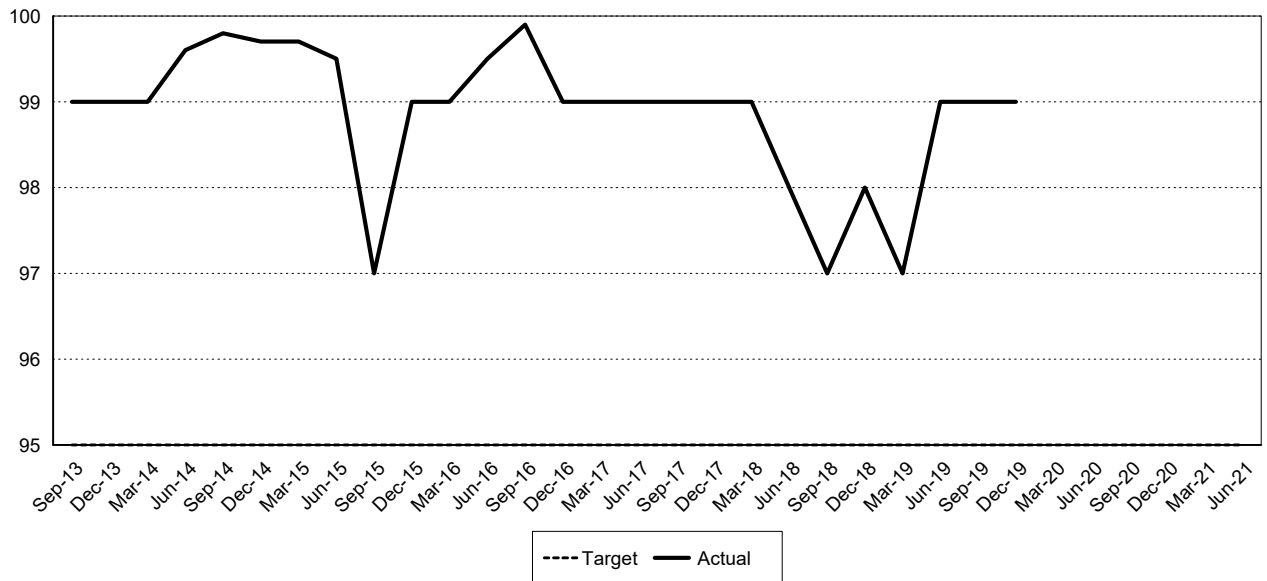
Expected Results

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

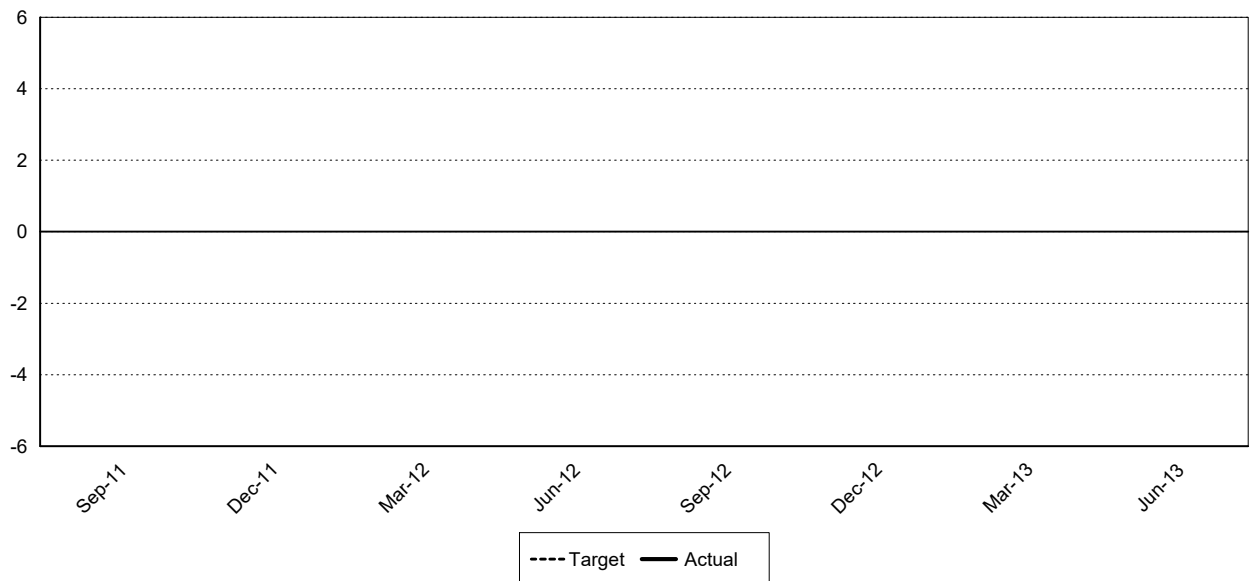
- Underground storage tanks are properly installed, monitored, or decommissioned to minimize the release of oil, gas, and other toxic materials into drinking water and other underground water sources.
- Decreased number of reported releases from underground storage tanks over time.
- Increased number of leaking underground storage sites where cleanup actions are completed.
- Increased percentage of underground storage tanks inspected that pass compliance for leak detection.

002476 Percentage of underground storage tank sites inspected within 3 years.			
Biennium	Period	Actual	Target
2019-21	Q8		95%
	Q7		95%
	Q6		95%
	Q5		95%
	Q4		95%
	Q3		95%
	Q2	99%	95%
	Q1	99%	95%
2017-19	Q8	99%	95%
	Q7	97%	95%
	Q6	98%	95%
	Q5	97%	95%
	Q4	98%	95%
	Q3	99%	95%
	Q2	99%	95%
	Q1	99%	95%
2015-17	Q8	99%	95%
	Q7	99%	95%
	Q6	99%	95%
	Q5	99.9%	95%
	Q4	99.5%	95%
	Q3	99%	95%
	Q2	99%	95%
	Q1	97%	95%

Percent **002476 - Percentage of underground storage tank sites inspected within 3 years.**



Number **001655 - Refer to Above Narrative Justification and Impact Statement**



A024 Manage Water Rights

The agency allocates surface and ground water to meet the state's many water supply needs. Ecology staff makes decisions on applications for new water rights, changes to existing water rights, and by participating in water rights adjudications in areas where additional certainty is needed.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	61.6	55.5	58.6
001 General Fund			
001-1 State	\$6,676,000	\$6,539,000	\$13,215,000
001-7 Private/Local	\$1,094,000	\$1,171,000	\$2,265,000
001 Account Total	\$7,770,000	\$7,710,000	\$15,480,000
072 State and Local Improvements Revolving Account (Water Supply Facilities)			
072-1 State	\$6,000	\$6,000	\$12,000
489 Pension Funding Stabilization Account			
489-1 State	\$410,000	\$412,000	\$822,000
027 Reclamation Account			
027-1 State	\$284,000	\$282,000	\$566,000
16V Water Rights Processing Account			
16V-1 State	\$19,000	\$20,000	\$39,000

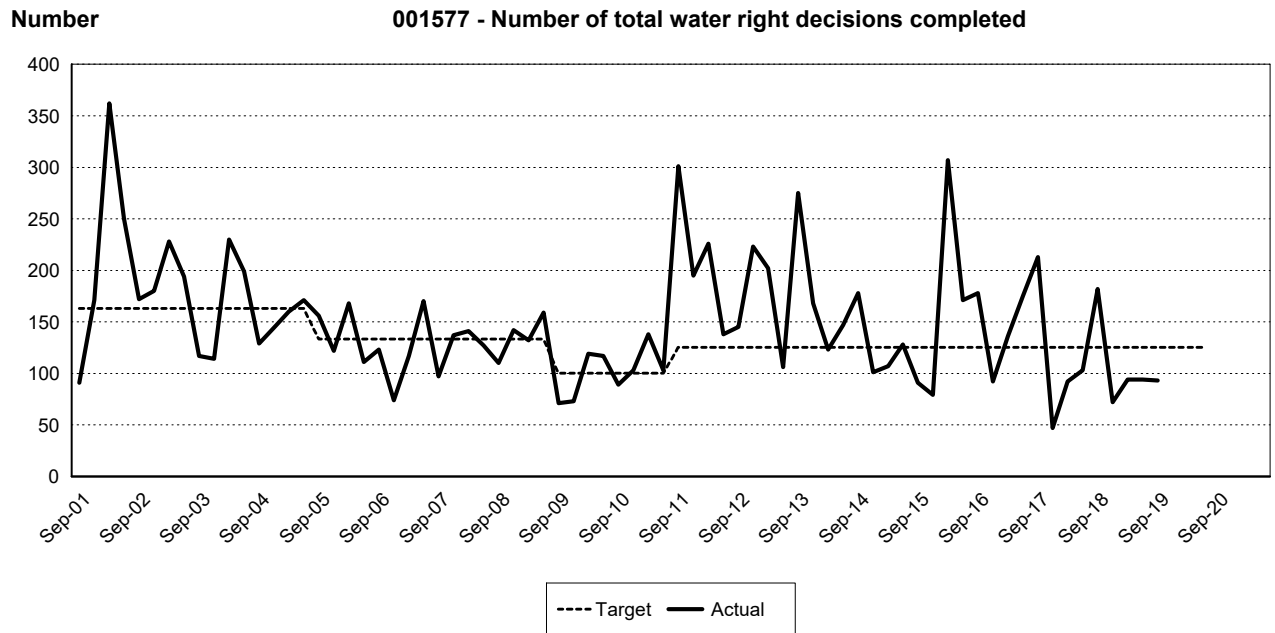
Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Achieve sustainable use of public natural resources

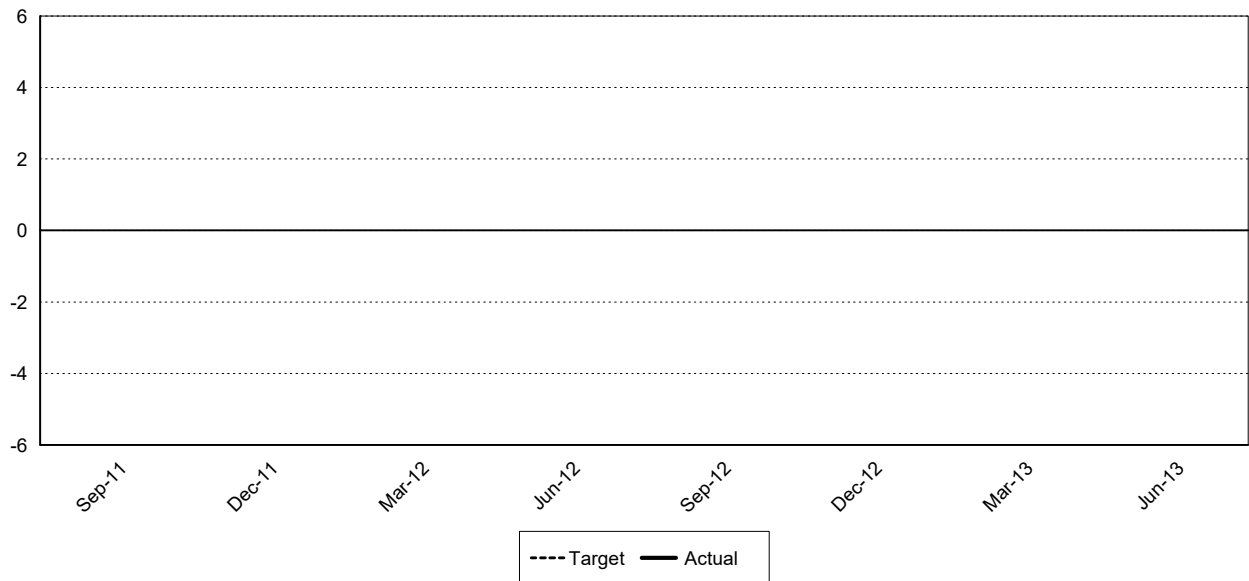
Expected Results

- Improved allocation of new water rights and changes to existing rights through sound and timely permit decision making.
- Water needs are met and existing water users and the environment are protected.
- Timely and sound decisions are made on applications for new water rights and changes to existing rights.

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001577 Number of water right decisions completed.			
Biennium	Period	Actual	Target
2019-21	Q8		
	Q7		
	Q6		
	Q5		
	Q4		125
	Q3		125
	Q2		125
	Q1	93	125
2017-19	Q8	94	125
	Q7	94	125
	Q6	72	125
	Q5	182	125
	Q4	103	125
	Q3	92	125
	Q2	47	125
	Q1	213	125
2015-17	Q8	175	125
	Q7	136	125
	Q6	92	125
	Q5	178	125
	Q4	171	125
	Q3	307	125
	Q2	79	125
	Q1	91	125



Number 001655 - Refer to Above Narrative Justification and Impact Statement**A025 Measure Air Pollution Levels and Emissions**

To make sound air quality management decisions, Ecology needs reliable information on the amount and sources of pollution and how it moves in the air. We do three primary activities to collect data:

- Monitor air quality to assess trends; focus on compliance; and assess control strategies, health effects, and environmental damage.
- Develop emission inventories to quantify pollution released by air pollution sources.
- Meteorological and dispersion modeling to forecast movement and concentration of air pollutants, carrying capacity of airsheds, interactions of pollutants, and point of maximum impact of pollution.

Program OMN - Department of Ecology-Omnibus

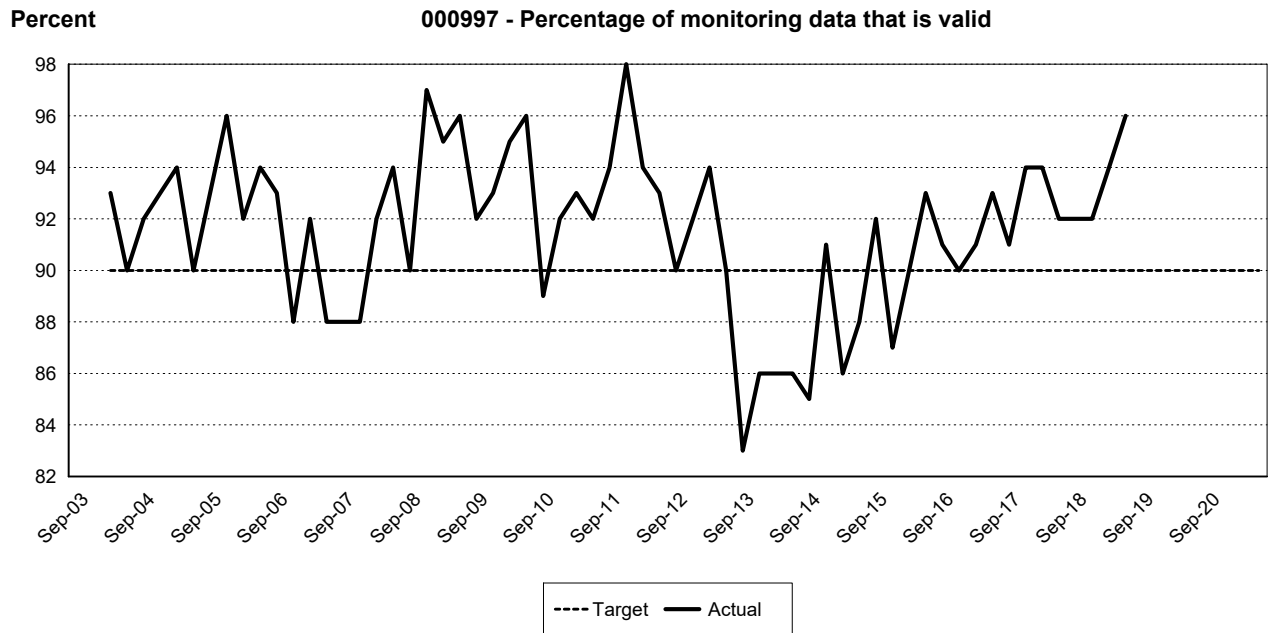
Account	FY 2020	FY 2021	Biennial Total
FTE	24.4	25.0	24.7
001 General Fund			
001-2 Federal	\$1,952,000	\$1,881,000	\$3,833,000
001-7 Private/Local	\$152,000	\$169,000	\$321,000
001 Account Total	\$2,104,000	\$2,050,000	\$4,154,000
23P Model Toxics Control Operating Account			
23P-1 State	\$1,973,000	\$1,961,000	\$3,934,000

Statewide Result Area:**Sustainable Energy and a Clean Environment****Statewide Strategy:****Establish safeguards and standards to prevent and manage pollution**

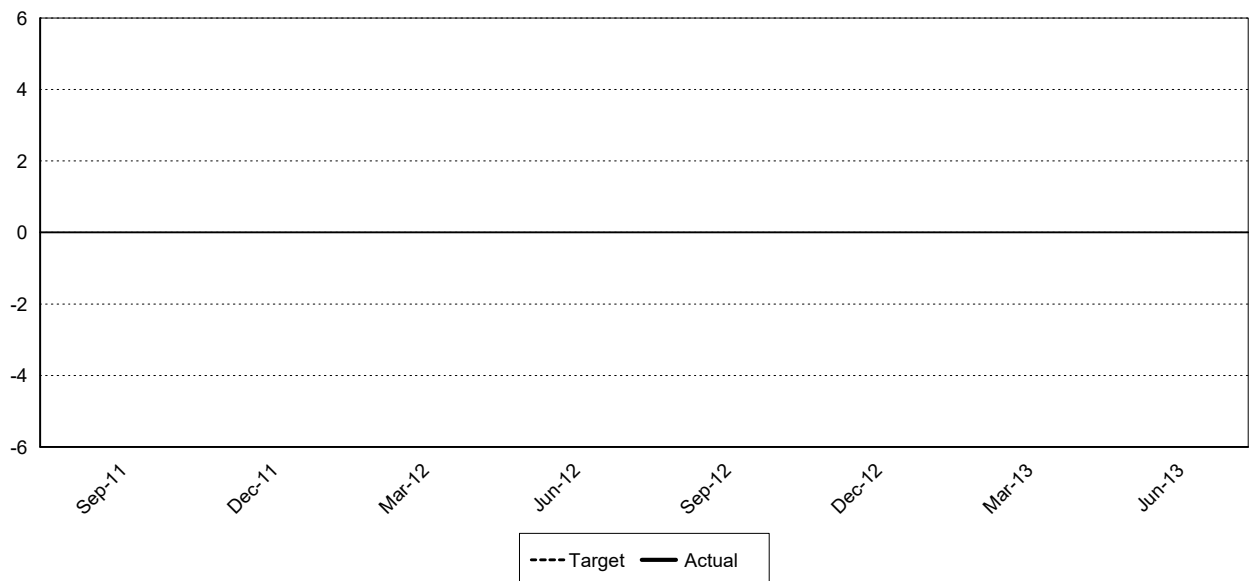
Expected Results

- The percentage of monitoring data that is valid increases so Ecology has comprehensive, high-quality data to predict air quality levels, impacts, and trends to make informed policy decisions about how to manage air pollution.
- The federally-required monitoring network review and monitoring site modifications are conducted so Ecology meets state and federal air quality obligations.
- Emission inventories are improved so agency policy-makers have a better understanding of ambient concentrations, sources of priority toxics, and effectiveness of air pollution mitigation strategies.

000997 Percentage of monitoring data that is valid.			
Biennium	Period	Actual	Target
2019-21	Q8		90%
	Q7		90%
	Q6		90%
	Q5		90%
	Q4		90%
	Q3		90%
	Q2		90%
	Q1		90%
2017-19	Q8	96%	90%
	Q7	94%	90%
	Q6	92%	90%
	Q5	92%	90%
	Q4	92%	90%
	Q3	94%	90%
	Q2	94%	90%
	Q1	91%	90%
2015-17	Q8	93%	90%
	Q7	91%	90%
	Q6	90%	90%
	Q5	91%	90%
	Q4	93%	90%
	Q3	90%	90%
	Q2	87%	90%
	Q1	92%	90%



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Number 001655 - Refer to Above Narrative Justification and Impact Statement**A026 Measure Contaminants in the Environment by Performing Laboratory Analyses**

The Manchester Environmental Laboratory is a full service environmental laboratory. The lab provides technical, analytical, and sampling support for chemistry and microbiology for multiple Ecology programs, and supports work conducted under the federal Clean Water Act, as well as the state Water Pollution Control, Puget Sound Water Quality Protection, Children's Safe Products and Model Toxics Control Acts.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	30.6	30.6	30.6
001 General Fund			
001-7 Private/Local	\$139,000	\$155,000	\$294,000
23P Model Toxics Control Operating Account			
23P-1 State	\$1,862,000	\$1,872,000	\$3,734,000
176 Water Quality Permit Account			
176-1 State	\$114,000	\$114,000	\$228,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

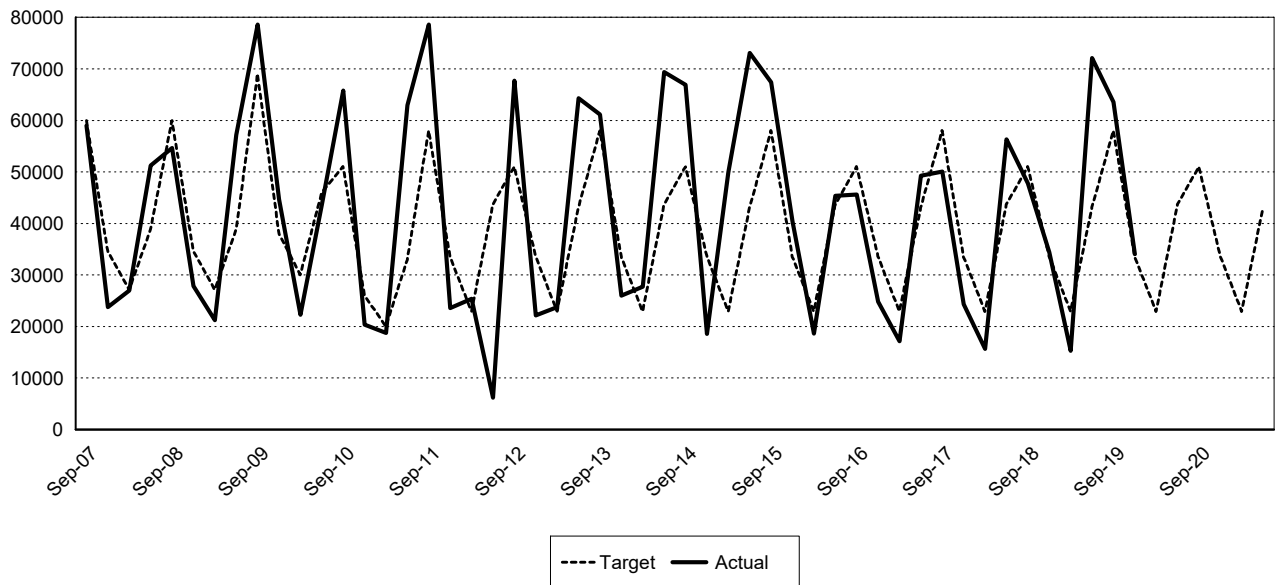
Expected Results

The Manchester Environmental Laboratory provides accurate and defensible analytical support so clients can make environmental and enforcement decisions.

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

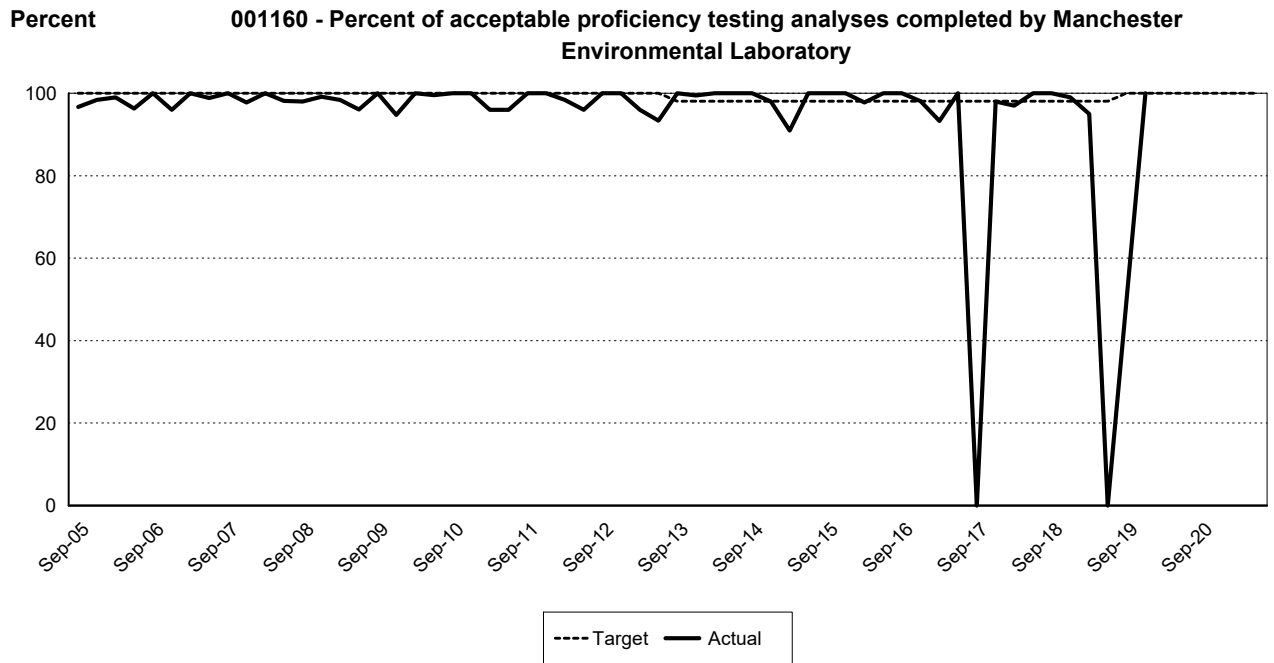
001164 Number of chemical analyses completed for clients by Ecology's Manchester Environmental Laboratory.			
Biennium	Period	Actual	Target
2019-21	Q8		43,050
	Q7		22,890
	Q6		33,600
	Q5		51,000
	Q4		43,630
	Q3		22,910
	Q2	34,031	33,500
	Q1	63,567	58,000
2017-19	Q8	72,104	43,050
	Q7	15,287	22,890
	Q6	34,420	33,600
	Q5	47,801	51,000
	Q4	56,296	43,630
	Q3	15,625	22,910
	Q2	24,337	33,500
	Q1	50,046	58,000
2015-17	Q8	49,238	43,050
	Q7	17,149	22,890
	Q6	24,807	33,600
	Q5	45,614	51,000
	Q4	45,373	43,630
	Q3	18,586	22,910
	Q2	40,345	33,500
	Q1	67,380	58,000

Number **001164 - Number of chemical analyses completed for clients by Ecology's Manchester Environmental Laboratory**



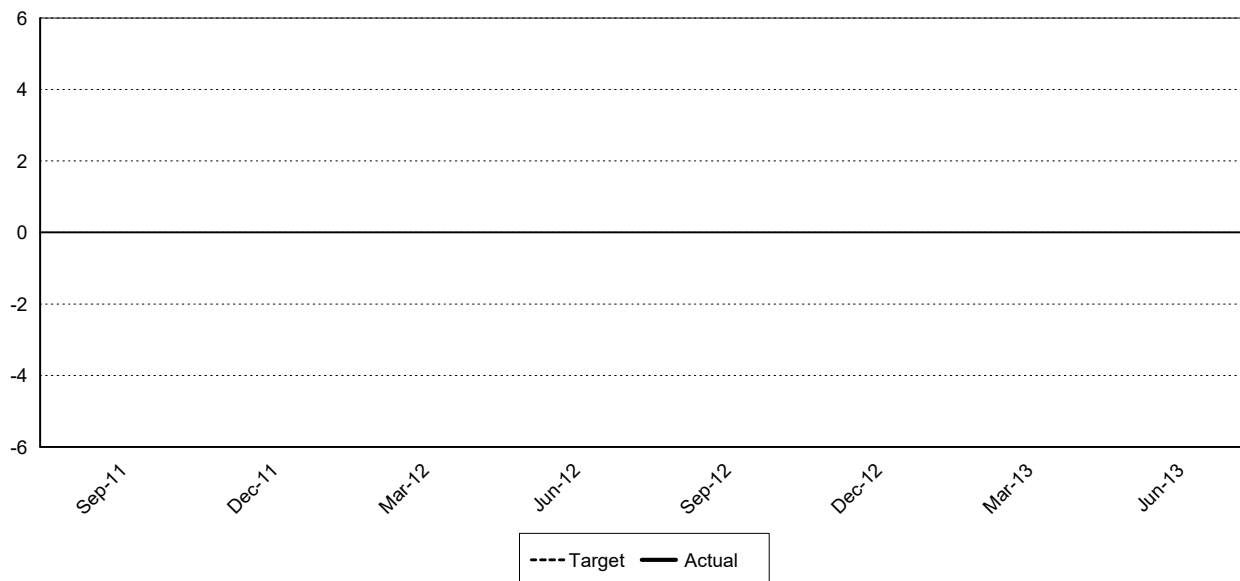
Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

001160 Percentage of acceptable proficiency testing analyses completed by Ecology's Manchester Environmental Laboratory.			
Biennium	Period	Actual	Target
2019-21	Q8		100%
	Q7		100%
	Q6		100%
	Q5		100%
	Q4		100%
	Q3		100%
	Q2	100%	100%
	Q1		100%
2017-19	Q8	0%	98%
	Q7	95%	98%
	Q6	99%	98%
	Q5	100%	98%
	Q4	100%	98%
	Q3	97%	98%
	Q2	98%	98%
	Q1	0%	98%
2015-17	Q8	100%	98%
	Q7	93.3%	98%
	Q6	98.1%	98%
	Q5	100%	98%
	Q4	100%	98%
	Q3	97.8%	98%
	Q2	100%	98%
	Q1	100%	98%



Number

001655 - Refer to Above Narrative Justification and Impact Statement



A027 Monitor the Quality of State Waters and Measure Stream Flows Statewide

Ecology operates a statewide environmental monitoring network to:

- Assess the status of major waterbodies.
- Identify threatened or impaired waters.
- Evaluate changes and trends in water quality over time.

This network includes sampling stations in rivers, streams, and marine waters (Puget Sound and the major coastal estuaries).

Ecology measures statewide biological, chemical, and habitat conditions to provide information on the health of watersheds on a regional scale. Ecology also measures stream flows in salmon critical basins and key watersheds statewide.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	54.7	55.6	55.2
222 Freshwater Aquatic Weeds Account			
222-1 State	\$135,000	\$135,000	\$270,000
001 General Fund			
001-1 State	\$237,000	\$415,000	\$652,000
001-2 Federal	\$2,104,000	\$2,147,000	\$4,251,000
001-7 Private/Local	\$19,000	\$19,000	\$38,000
001 Account Total	\$2,360,000	\$2,581,000	\$4,941,000
23P Model Toxics Control Operating Account			
23P-1 State	\$4,979,000	\$5,218,000	\$10,197,000
176 Water Quality Permit Account			
176-1 State	\$48,000	\$48,000	\$96,000

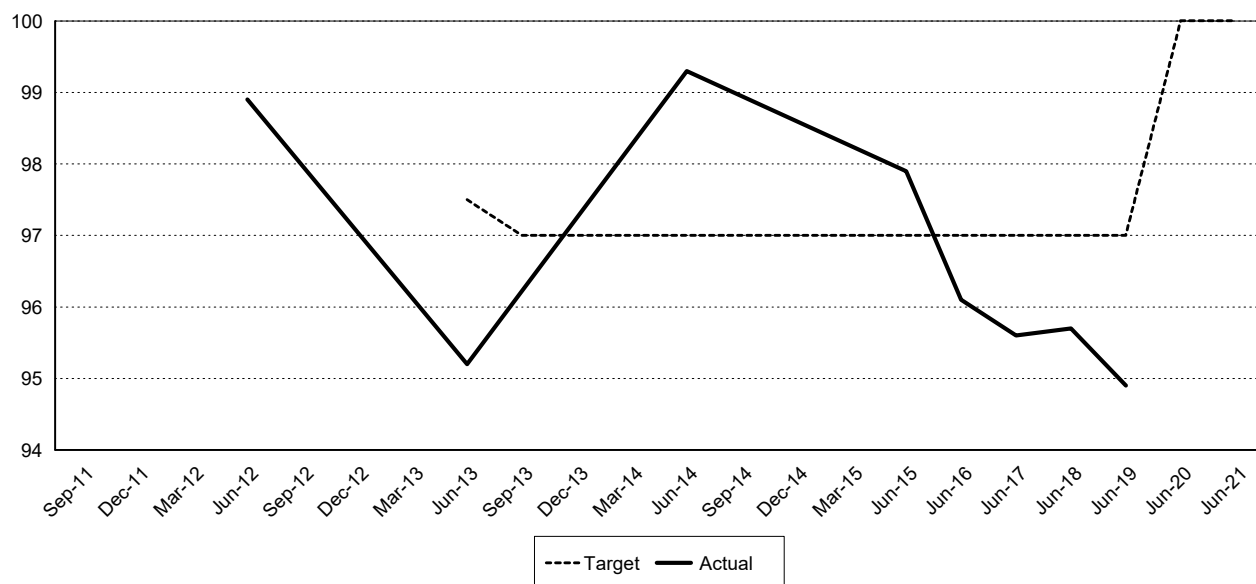
Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

Expected Results

- Trends, conditions, and changes in water quality of major freshwater rivers, Puget Sound, and the largest coastal estuaries are tracked so Ecology staff and the public are alerted to emerging water quality problems.
- Credible environmental monitoring data are produced so Ecology, other agencies and the public can make better informed decisions.

002287 Percentage of continuous monitoring data collected annually that are reliable and valid for use by other programs, agencies and the public.			
Biennium	Period	Actual	Target
2019-21	A3		100%
	A2		100%
2017-19	A3	94.9%	97%
	A2	95.7%	97%
2015-17	A3	95.6%	97%
	A2	96.1%	97%

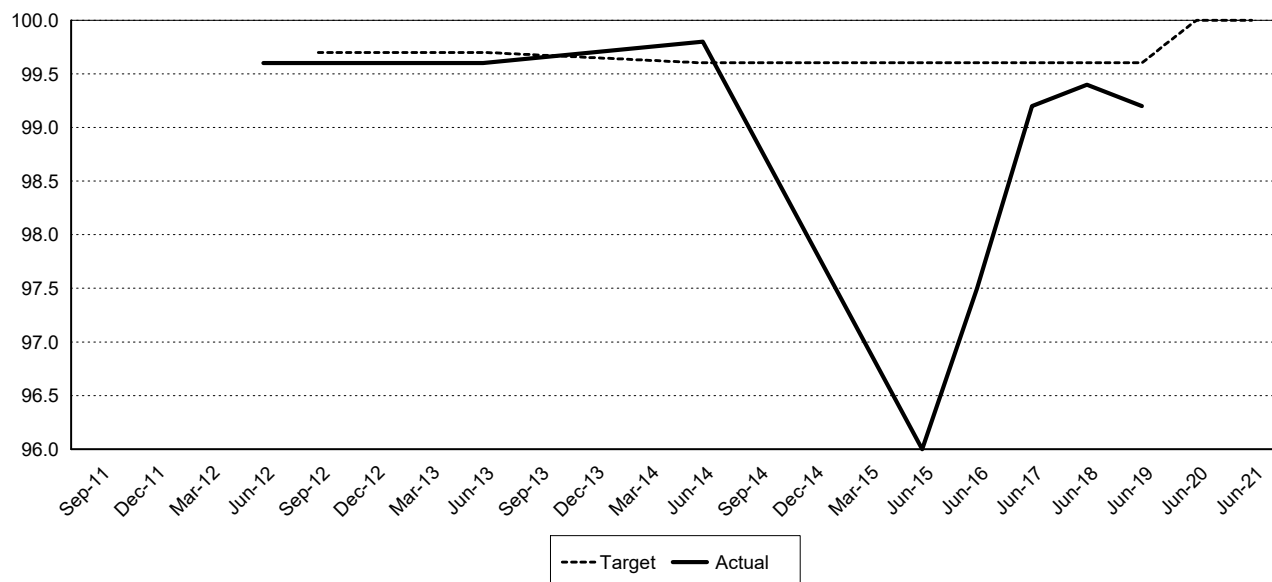
Percent 002287 - Percent of continuous monitoring data that are reliable and valid for use



002286 Percentage of individual sample data collected annually that are reliable and valid for use by other programs, agencies and the public.

Biennium	Period	Actual	Target
2019-21	A3		100%
	A2		100%
2017-19	A3	99.2%	99.6%
	A2	99.4%	99.6%
2015-17	A3	99.2%	99.6%
	A2	97.5%	99.6%

Percent 002286 - Percent of individual sample data that are reliable and valid for use

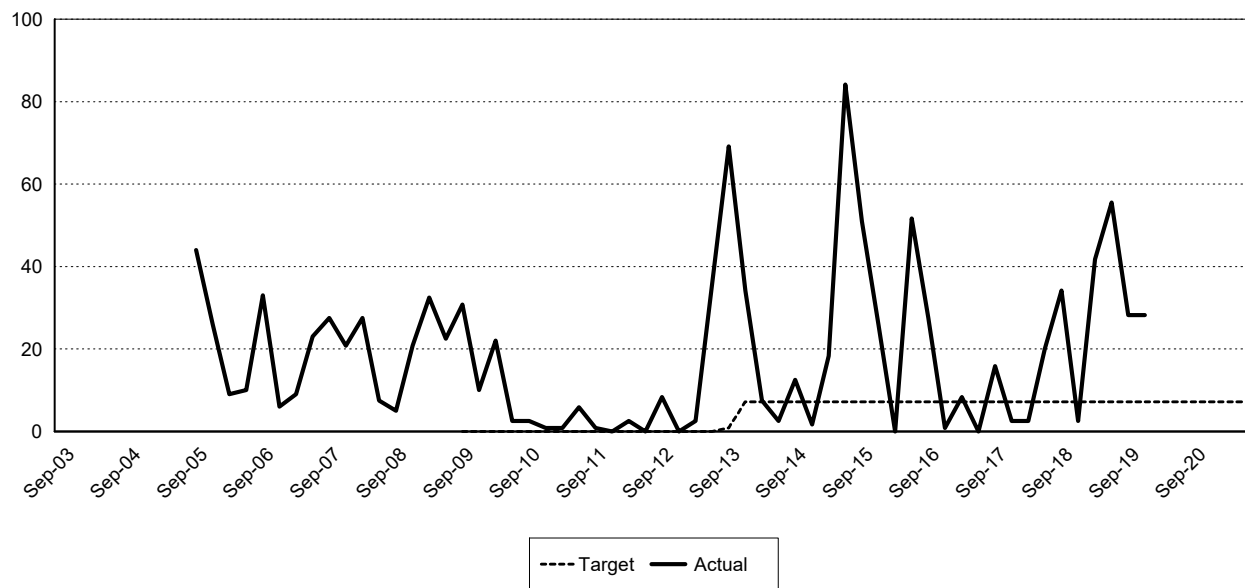


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001155 Percentage of monitored stream flows below critical flow levels.			
Biennium	Period	Actual	Target
2019-21	Q8		7.13%
	Q7		7.13%
	Q6		7.13%
	Q5		7.13%
	Q4		7.13%
	Q3		7.13%
	Q2	28.2%	7.13%
	Q1	28.2%	7.13%
2017-19	Q8	55.5%	7.13%
	Q7	41.8%	7.13%
	Q6	2.5%	7.13%
	Q5	34.2%	7.13%
	Q4	20.1%	7.13%
	Q3	2.5%	7.13%
	Q2	2.5%	7.13%
	Q1	15.8%	7.13%
2015-17	Q8	0%	7.13%
	Q7	8.3%	7.13%
	Q6	0.8%	7.13%
	Q5	27.5%	7.13%
	Q4	51.7%	7.13%
	Q3	0%	7.13%
	Q2	25.8%	7.13%
	Q1	51%	7.13%

Percent

001155 - Percent of monitored stream flows below critical flow levels

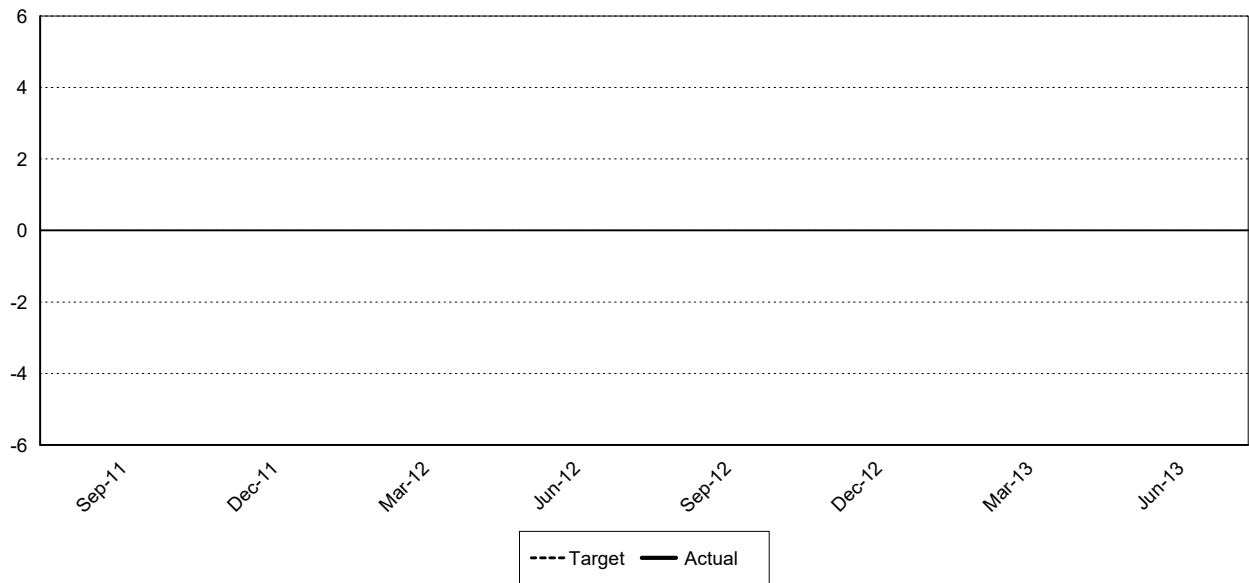


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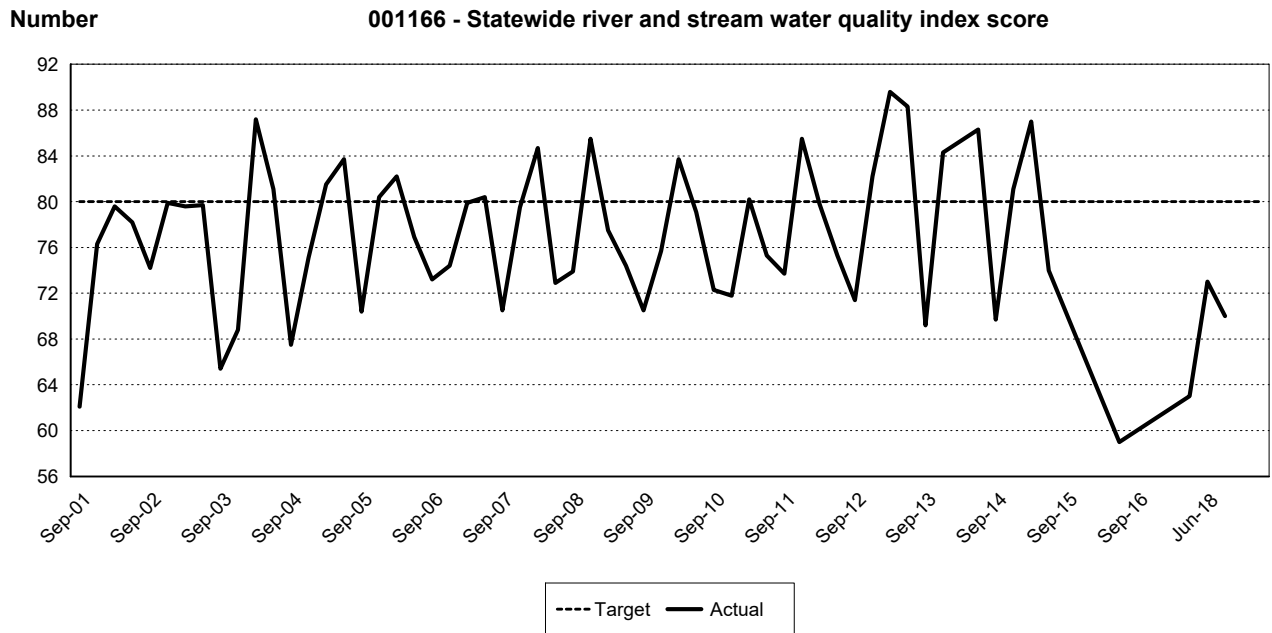
Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

Number

001655 - Refer to Above Narrative Justification and Impact Statement



001166 Statewide river and stream water quality index score.			
Biennium	Period	Actual	Target
2019-21	A3		80
	A2		80
2017-19	A3	70	80
	A2	73	80
2015-17	A3		
	A3	63	80
	A2		
	A2	59	80
	A2		
	A1		
	A1		



A028 Improve Environmental Compliance at State's Largest Industrial Facilities

The Department of Ecology provides a single point of contact for compliance reviews and technical assistance for petroleum refineries, pulp and paper mills, and aluminum smelters so they have consistent regulatory oversight.

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	20.5	20.6	20.6
219 Air Operating Permit Account			
219-1 State	\$712,000	\$709,000	\$1,421,000
001 General Fund			
001-1 State	\$77,000	\$80,000	\$157,000
23P Model Toxics Control Operating Account			
23P-1 State	\$606,000	\$698,000	\$1,304,000
489 Pension Funding Stabilization Account			
489-1 State	\$3,000	\$2,000	\$5,000
176 Water Quality Permit Account			
176-1 State	\$1,211,000	\$1,202,000	\$2,413,000

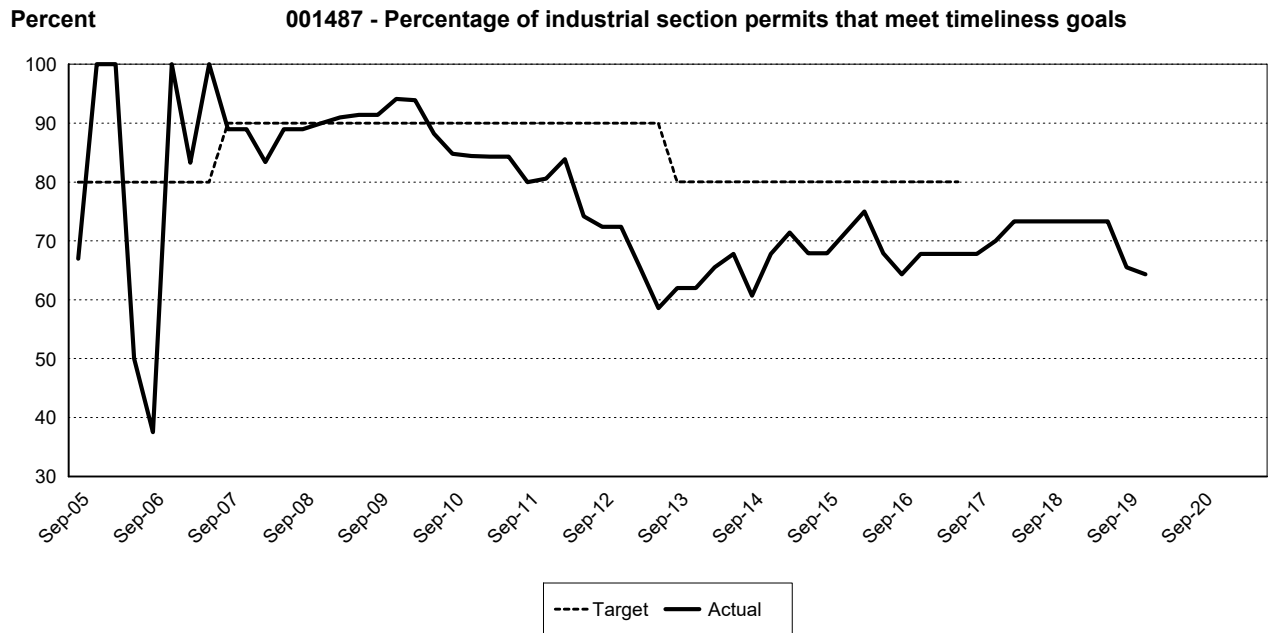
Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

Expected Results

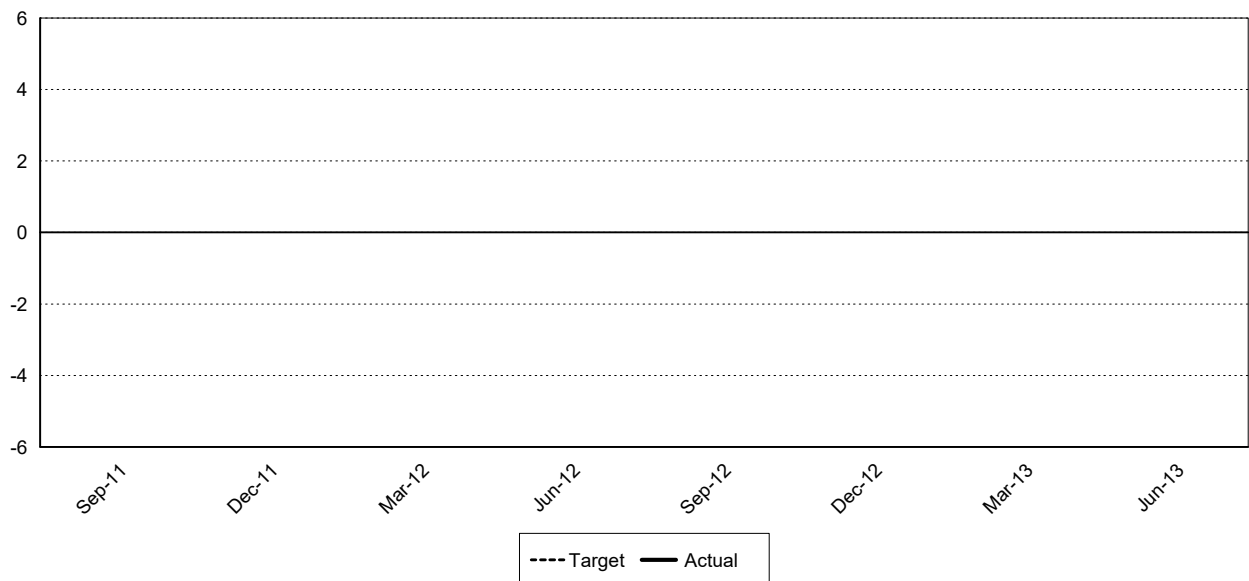
- Pulp and paper mills, oil refineries, and aluminum smelters will improve compliance rates through one stop environmental permitting, compliance review, technical assistance, and timely issuance of environmental permits.
- Updated permits will ensure that industries are meeting new state and federal requirements in a timely way.

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001487 Percentage of industrial section permit actions that meet the agency timeliness goals.			
Biennium	Period	Actual	Target
2019-21	Q8		
	Q7		
	Q6		
	Q5		
	Q4		
	Q3		
	Q2	64.3%	
	Q1	65.5%	
2017-19	Q8	73.3%	
	Q7	73.3%	
	Q6	73.3%	
	Q5	73.3%	
	Q4	73.3%	
	Q3	73.3%	
	Q2	70%	
	Q1	67.8%	
2015-17	Q8	67.8%	80%
	Q7	67.8%	80%
	Q6	67.8%	80%
	Q5	64.3%	80%
	Q4	67.9%	80%
	Q3	75%	80%
	Q2	71.4%	80%
	Q1	67.9%	80%



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Number 001655 - Refer to Above Narrative Justification and Impact Statement**A030 Prepare for Aggressive Response to Oil and Hazardous Material Incidents**

This activity ensures large commercial vessels, oil handling facilities, and railroad operators that transport oil by rail maintain state-approved oil spill contingency plans so they can rapidly and effectively respond to major oil spills. State planning standards ensure response equipment and personnel are strategically staged throughout the state. This work is carried out through staff review and approval of contingency plans, drills that test contingency plans, development of geographic response plans, and maintenance of a regional contingency plan in partnership with other agencies.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	23.1	22.7	22.9
001 General Fund			
001-7 Private/Local	\$56,000	\$56,000	\$112,000
23P Model Toxics Control Operating Account			
23P-1 State	\$670,000	\$755,000	\$1,425,000
217 Oil Spill Prevention Account			
217-1 State	\$2,773,000	\$2,694,000	\$5,467,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

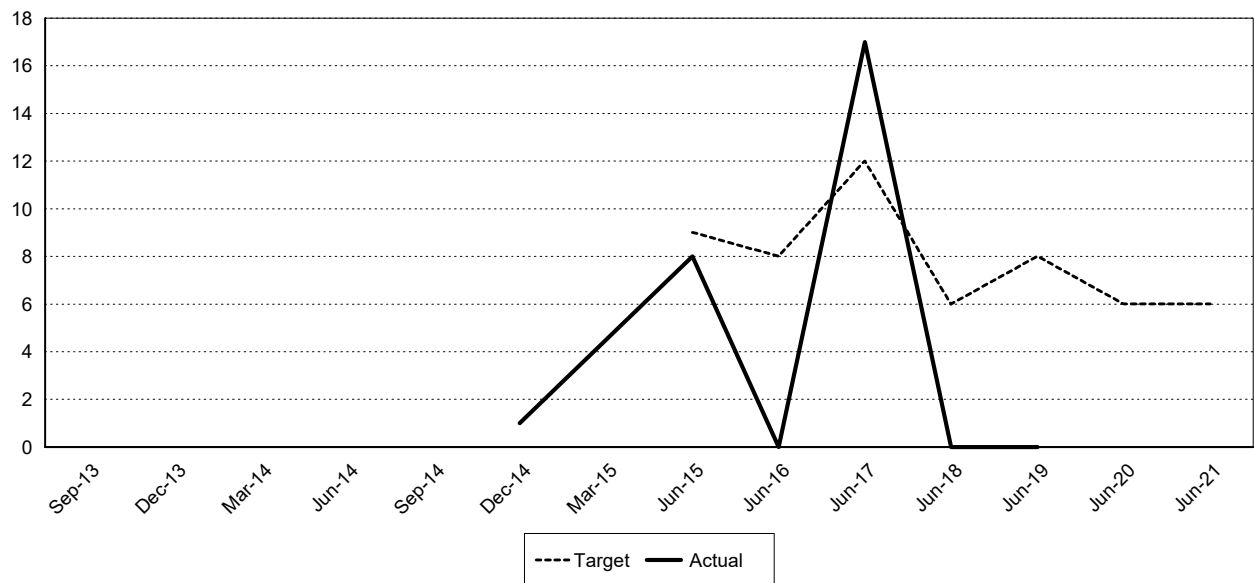
Expected Results

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

- Ecology and the regulated community are fully prepared to promptly respond to oil spills, and damage from spills are minimized.
- Contingency plans are in compliance with regulations and are tested through drills.
- Geographic Response Plans (GRPs) are developed for areas that do not have plans and existing GRPs are updated and kept current.
- Maintenance of response equipment is documented by industry and records verified by Ecology.
- Washington's environment, public health, and safety are protected.

002518 Number of Geographic Response Plans (GRPs) completed for inland and marine areas, including site description, response strategies and priorities, shoreline countermeasures, resources at risk, and logistics.			
Biennium	Period	Actual	Target
2019-21	A3		6
	A2		6
2017-19	A3	0	8
	A2	0	6
2015-17	A3	17	12
	A2	0	8

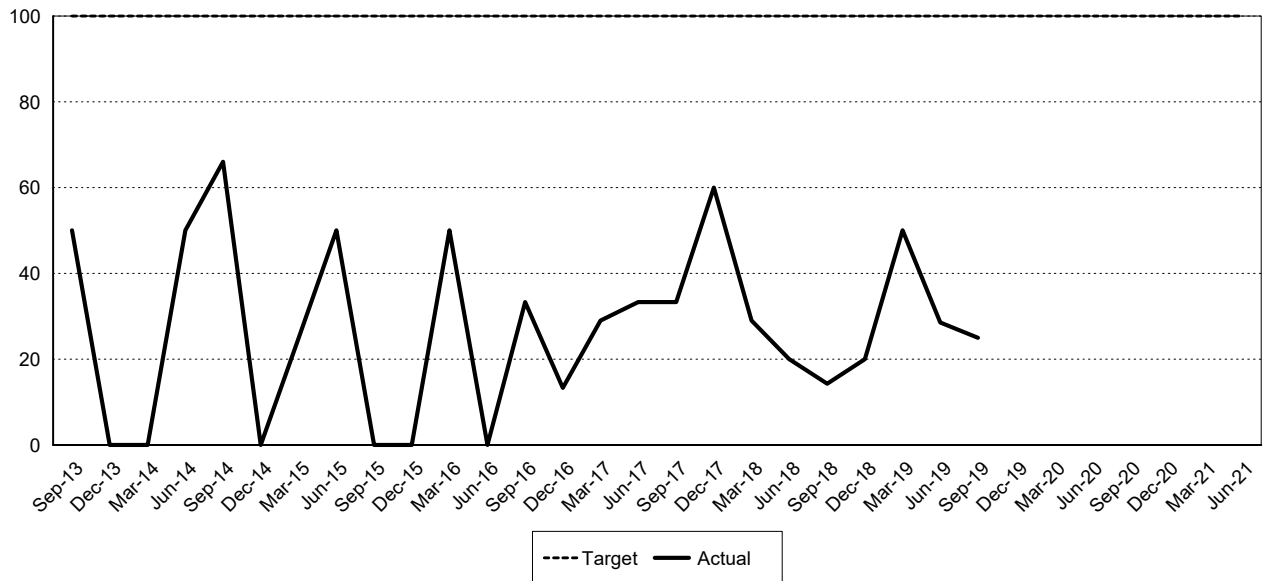
Number **002518 - Number of Geographic Response Plans completed for inland and marine areas**



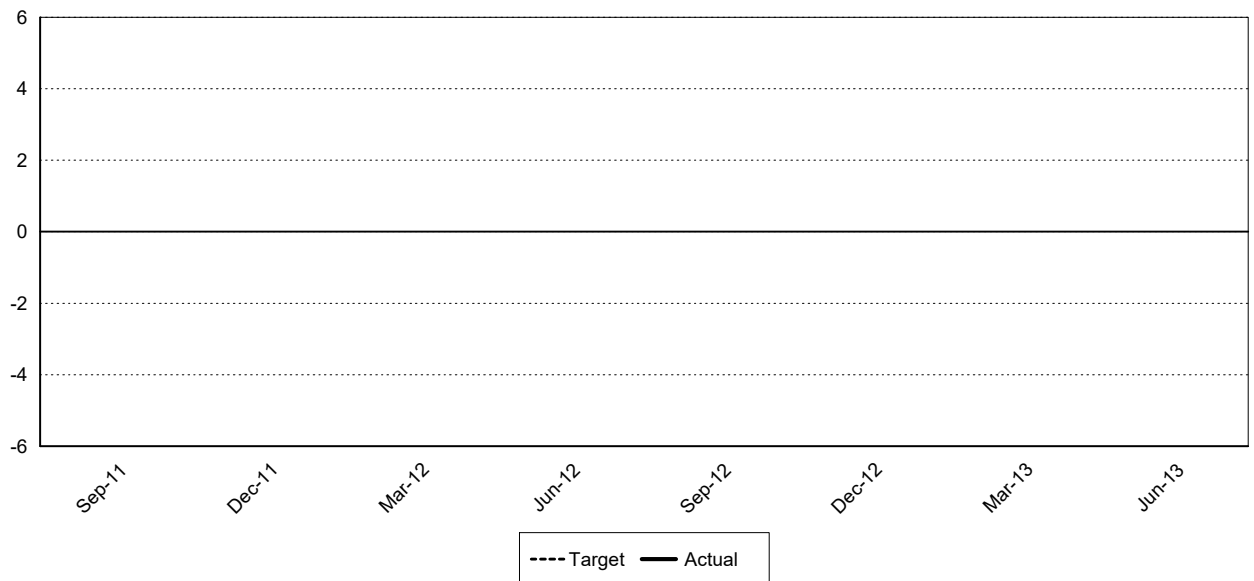
Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

002520 Percentage of vessel emergencies occurrences reported to Ecology, defined as a substantial threat of pollution originating from a covered vessel, including a loss or serious degradation of propulsion, steering, means of navigation, electrical generating capability and seakeeping capability, reported to Department of Ecology. Compares the number of vessel emergencies reported to the Department of Ecology with the total number of vessel emergencies that occur (as reported to the United States Coast Guard).			
Biennium	Period	Actual	Target
2019-21	Q8		100%
	Q7		100%
	Q6		100%
	Q5		100%
	Q4		100%
	Q3		100%
	Q2		100%
	Q1	25%	100%
2017-19	Q8	28.57%	100%
	Q7	50%	100%
	Q6	20%	100%
	Q5	14.3%	100%
	Q4	20%	100%
	Q3	29%	100%
	Q2	60%	100%
	Q1	33.3%	100%
2015-17	Q8	33.33%	100%
	Q7	29%	100%
	Q6	13.33%	100%
	Q5	33.3%	100%
	Q4	0%	100%
	Q3	50%	100%
	Q2	0%	100%
	Q1	0%	100%

Percent 002520 - Percentage of vessel emergency occurrences reported to Ecology



Number 001655 - Refer to Above Narrative Justification and Impact Statement



A031 Prevent Hazardous Waste Pollution Through Permitting, Closure, and Corrective Action

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Facilities that treat, store or dispose of large volumes of dangerous waste must obtain a permit to ensure that their design, construction, maintenance, and operating procedures protect public health and the environment. Washington currently has 14 active facilities that are either in "interim status" or have a final permit. Because these facilities handle such a large volume of dangerous waste they are inspected annually. They are required to have closure plans to effectively deal with the end of their waste management activities. Ecology is currently working on 20 high-priority corrective action clean-up sites. Ecology also ensures that proper financial assurance requirements are in place at all used oil processors and recyclers and facilities treating, storing, or disposing of dangerous wastes.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	20.7	19.7	20.2
001 General Fund			
001-2 Federal	\$874,000	\$988,000	\$1,862,000
001-7 Private/Local	\$231,000	\$301,000	\$532,000
001 Account Total	\$1,105,000	\$1,289,000	\$2,394,000
23P Model Toxics Control Operating Account			
23P-1 State	\$1,795,000	\$1,901,000	\$3,696,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

Expected Results

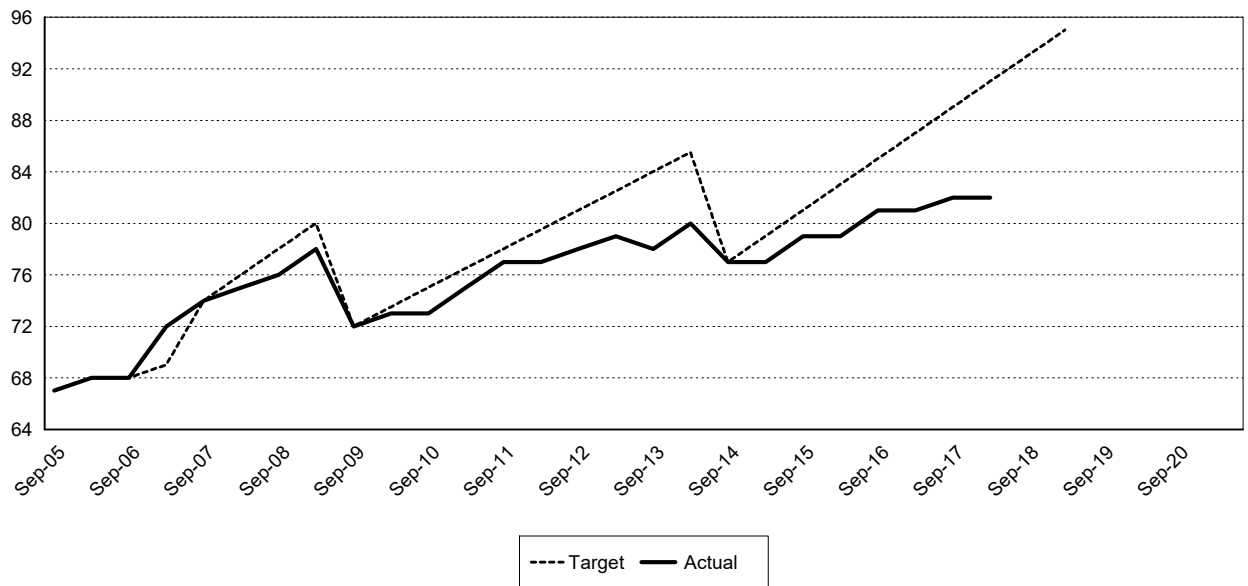
Facilities that treat, store, or dispose of dangerous wastes are constructed and operated to prevent soil, water, or air contamination. This is accomplished through:

- Striving to meet EPA's cleanup goals for protecting human health.
- Controlling migration of contaminated groundwater, and sites reaching "remedy construction complete".
- Issuing high priority permit modifications to address health and safety issues or improve environmental outcomes.

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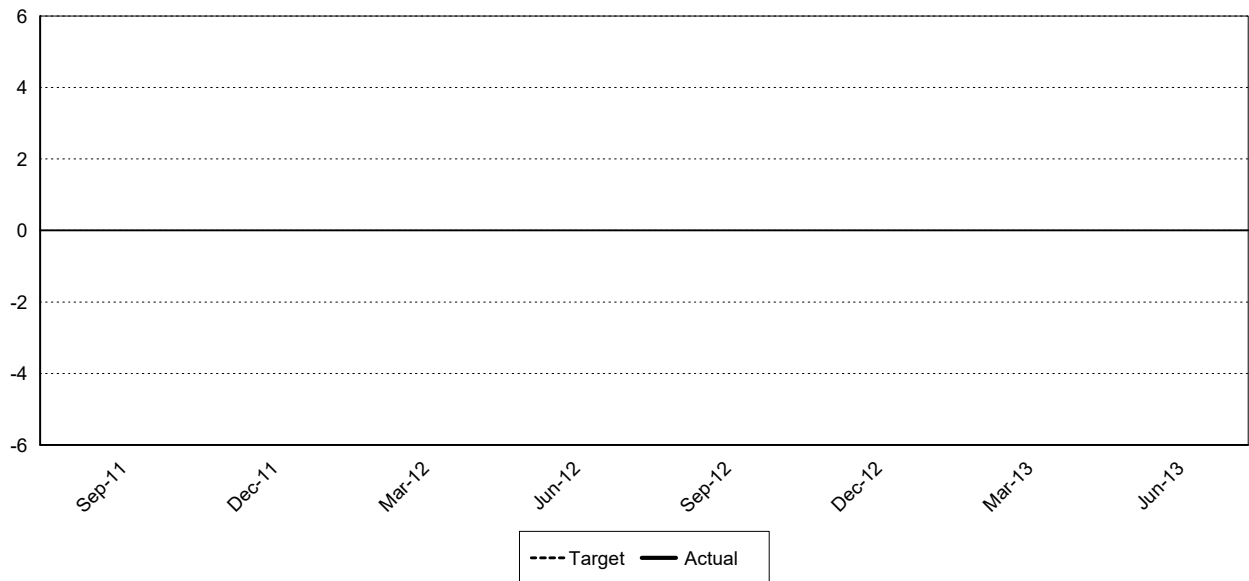
001285 Percentage progress toward completed corrective action at 39 priority facilities. Semi-annual progress toward completed corrective action at 39 priority facilities.			
Biennium	Period	Actual	Target
2019-21	A3		
	A3		
	A2		
	A2		
	A2		
	A2		
	A1		
	A1		
2017-19	A3		95%
	A3		
	A2	82%	91%
	A2		
	A2		93%
	A2		
	A1	82%	89%
	A1		
2015-17	A3	81%	87%
	A3		
	A2	79%	83%
	A2		
	A2	81%	85%
	A2		
	A1	79%	81%
	A1		

Percent **001285 - Percentage progress toward completed corrective action at 39 priority facilities**



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Number 001655 - Refer to Above Narrative Justification and Impact Statement**A032 Prevent Point Source Water Pollution**

Ecology protects Washington's water by regulating point source discharges of pollutants to surface and ground waters. This is done with a wastewater permit program for sewage treatment plants and an industrial discharge program for other industries. A permit is a rigorous set of limits, monitoring requirements, or management practices, usually specific to a discharge, designed to ensure a facility can meet treatment standards and water quality limits. The permit is followed by regular inspections and site visits. Technical assistance and follow-up on permit violations also are provided through various means.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	91.9	91.1	91.5
001 General Fund			
001-1 State	\$350,000	\$360,000	\$710,000
001-2 Federal	\$542,000	\$528,000	\$1,070,000
001-7 Private/Local	\$437,000	\$441,000	\$878,000
001 Account Total	\$1,329,000	\$1,329,000	\$2,658,000
23P Model Toxics Control Operating Account			
23P-1 State	\$648,000	\$562,000	\$1,210,000
176 Water Quality Permit Account			
176-1 State	\$10,968,000	\$10,865,000	\$21,833,000

Statewide Result Area: Sustainable Energy and a Clean Environment

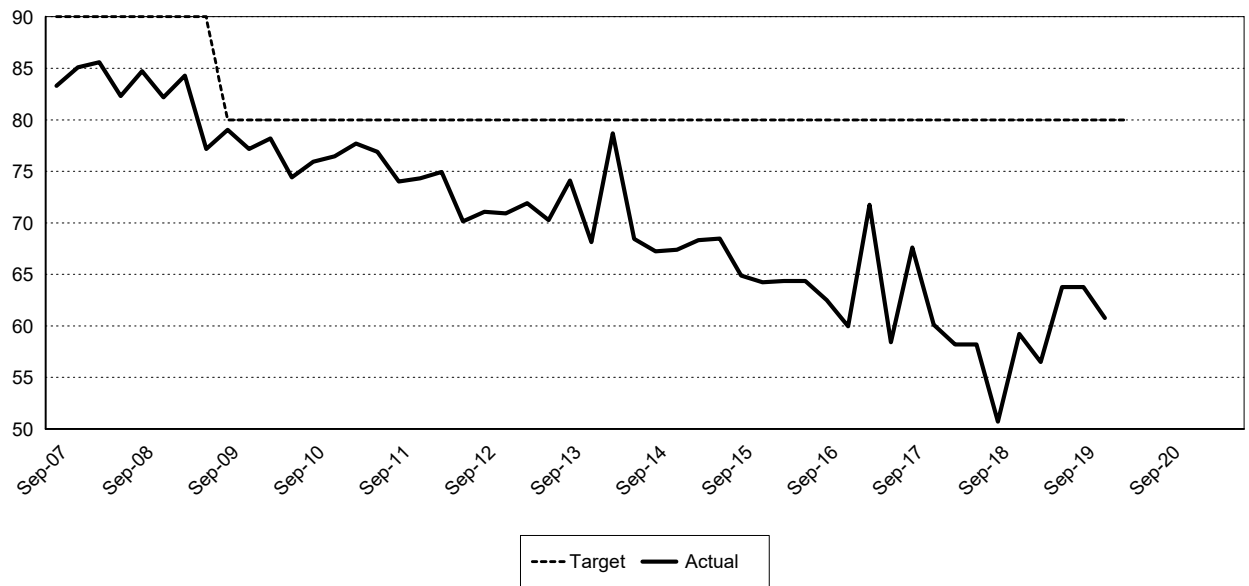
Statewide Strategy: **Establish safeguards and standards to prevent and manage pollution**

Expected Results

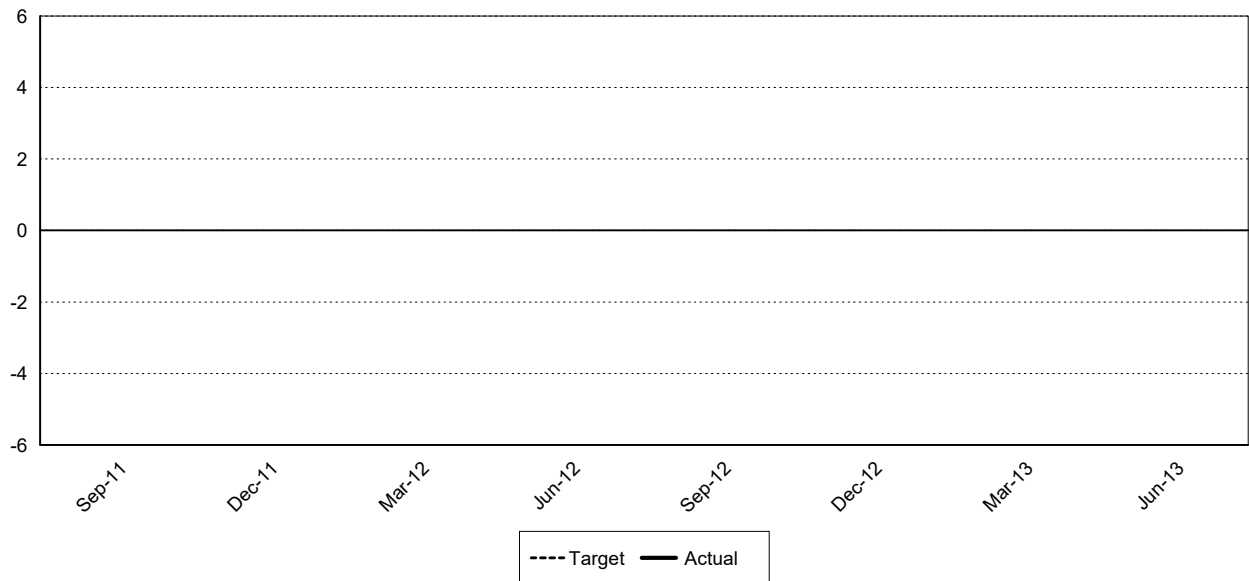
- Fewer wastewater discharges and lower toxicity through administering the permit program for 2,000 permit holders.
- 100 National Pollution Discharge Elimination System wastewater discharge permits are issued or renewed each year.
- Active permits are up to date.
- New permit applicants get responses within 60 days.
- General permits are developed and managed on schedule for 1,500 dischargers.
- 700 site visits are done each year.
- Approximately 2,000 wastewater plant operators get certification.
- Communities get help increasing the production and use of reclaimed wastewater.
- Ecology responds to permit violations in a timely manner (within three months for minor violations).

001563 Percentage of active water quality discharge permits (national pollutant discharge elimination system permits) that are up to date.			
Biennium	Period	Actual	Target
2019-21	Q8		
	Q7		
	Q6		
	Q5		
	Q4		
	Q3		80%
	Q2	60.75%	80%
	Q1	63.75%	80%
2017-19	Q8	63.75%	80%
	Q7	56.5%	80%
	Q6	59.2%	80%
	Q5	50.7%	80%
	Q4	58.2%	80%
	Q3	58.2%	80%
	Q2	60.1%	80%
	Q1	67.59%	80%
2015-17	Q8	58.4%	80%
	Q7	71.75%	80%
	Q6	59.95%	80%
	Q5	62.5%	80%
	Q4	64.34%	80%
	Q3	64.36%	80%
	Q2	64.22%	80%
	Q1	64.88%	80%

Percent **001563 - Percentage of active water quality discharge permits that are up to date.**



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Number 001655 - Refer to Above Narrative Justification and Impact Statement**A033 Prevent Oil Spills from Vessels and Oil Handling Facilities**

Ecology works with communities and regulated entities to prevent spills from vessels and oil handling facilities through inspections, review and approval of plans and manuals, technical assistance, incident investigation, and risk assessment work.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	25.7	25.8	25.8
001 General Fund			
001-7 Private/Local	\$56,000	\$56,000	\$112,000
23P Model Toxics Control Operating Account			
23P-1 State	\$2,136,000	\$2,204,000	\$4,340,000
217 Oil Spill Prevention Account			
217-1 State	\$2,524,000	\$2,531,000	\$5,055,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

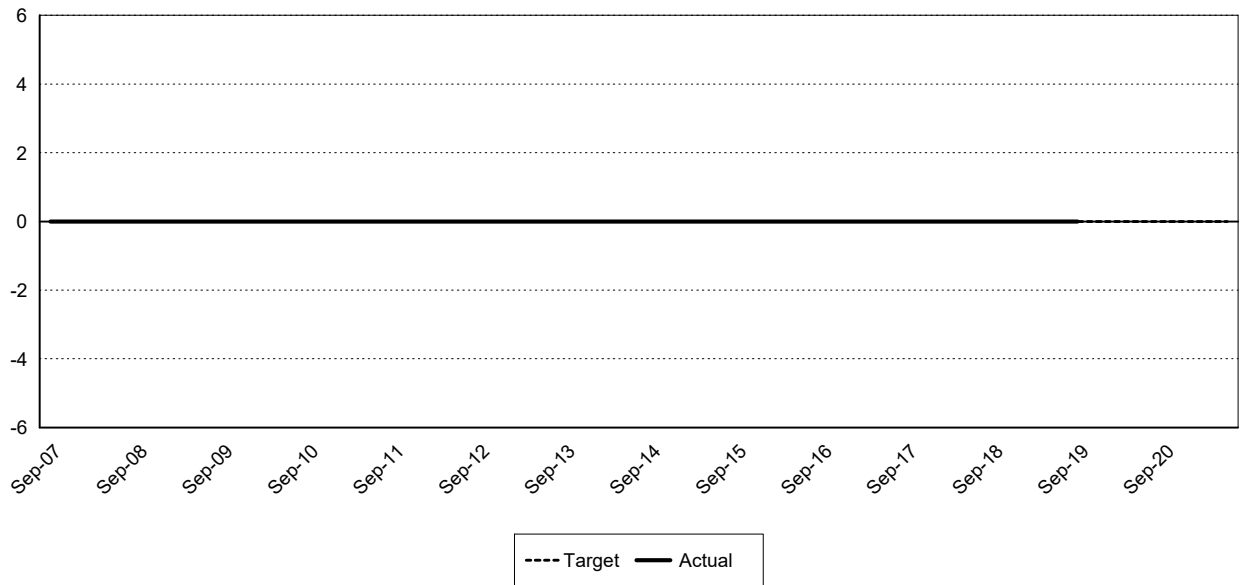
Expected Results

- Oil spills from regulated vessels and oil handling facilities are reduced or prevented.
- Oil spills impacting surface waters are reduced or prevented.
- Enrollment in the Exceptional Compliance Program (ECOPRO) is increased.
- Washington's environment, public health, and safety are protected.

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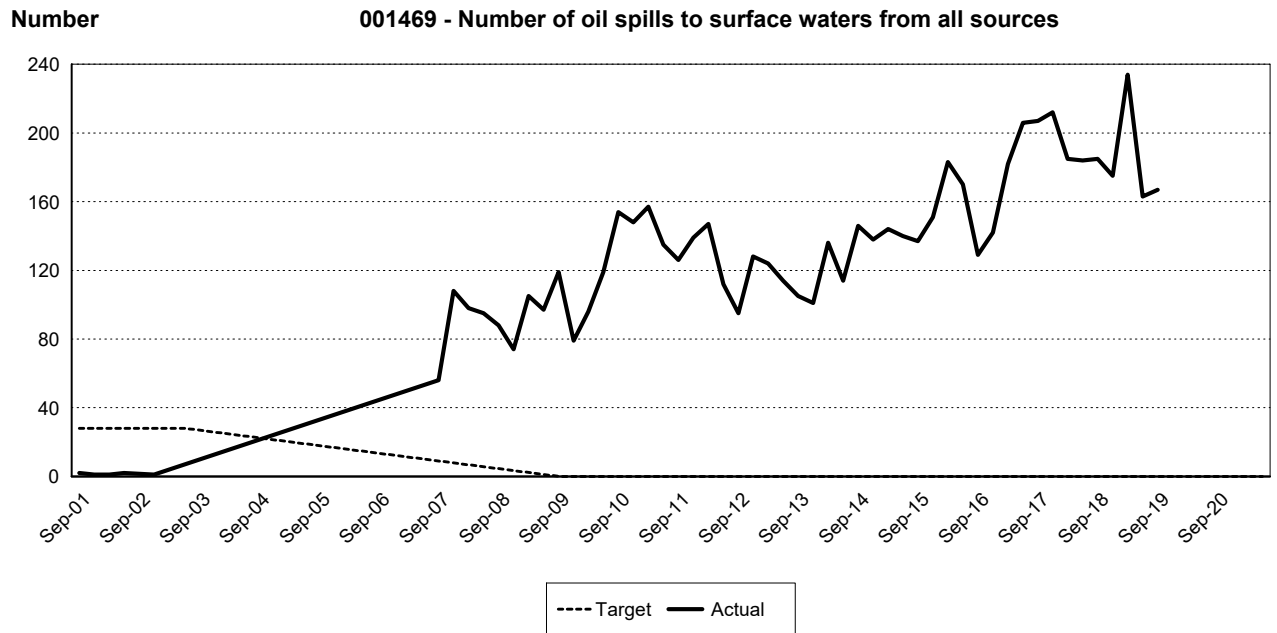
001479 Gallons of oil spilled during oil transfers for every 100 million gallons transferred.				
Biennium	Period	Ratio	Actual	Target
2019-21	Q8	/		0
	Q7	/		0
	Q6	/		0
	Q5	/		0
	Q4	/		0
	Q3	/		0
	Q2	/		0
	Q1	0.03 / 2,833,876,871	0.0	0
2017-19	Q8	19.69 / 2,426,623,321	0.0	0
	Q7	10.78 / 2,550,000,000	0.0	0
	Q6	34.5 / 2,730,000,000	0.0	0
	Q5	2.82 / 2,920,000,000	0.0	0
	Q4	507 / 2,610,000,000	0.0	0
	Q3	6.39 / 2,620,000,000	0.0	0
	Q2	12.15 / 2,620,000,000	0.0	0
	Q1	42.42 / 2,830,000,000	0.0	0
2015-17	Q8	1.76 / 2,710,000,000	0.0	0
	Q7	30 / 2,410,000,000	0.0	0
	Q6	2 / 2,870,000,000	0.0	0
	Q5	10.15 / 3,240,000,000	0.0	0
	Q4	35.5 / 2,820,000,000	0.0	0
	Q3	44.6 / 2,570,000,000	0.0	0
	Q2	18.6 / 2,680,000,000	0.0	0
	Q1	9.6 / 2,810,000,000	0.0	0

Number 001479 - Gallons of oil spilled to surface water during an oil transfer for every 100M gallons transferred



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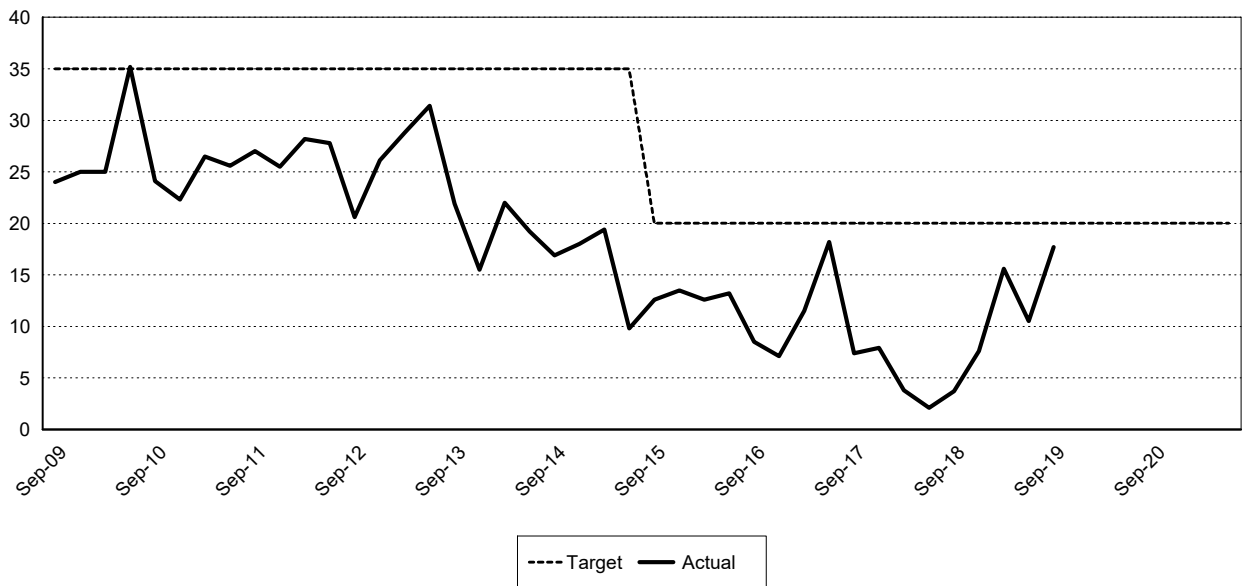
001469 Number of oil spills to surface water from all sources, including unregulated sources.			
Biennium	Period	Actual	Target
2019-21	Q8		0
	Q7		0
	Q6		0
	Q5		0
	Q4		0
	Q3		0
	Q2		0
	Q1	167	0
2017-19	Q8	163	0
	Q7	234	0
	Q6	175	0
	Q5	185	0
	Q4	184	0
	Q3	185	0
	Q2	212	0
	Q1	207	0
2015-17	Q8	206	0
	Q7	182	0
	Q6	142	0
	Q5	129	0
	Q4	170	0
	Q3	183	0
	Q2	151	0
	Q1	137	0



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001477 Percentage of unique potential high-risk vessels inspected.			
Biennium	Period	Actual	Target
2019-21	Q8		20%
	Q7		20%
	Q6		20%
	Q5		20%
	Q4		20%
	Q3		20%
	Q2		20%
	Q1	17.7%	20%
2017-19	Q8	10.5%	20%
	Q7	15.6%	20%
	Q6	7.6%	20%
	Q5	3.7%	20%
	Q4	2.1%	20%
	Q3	3.8%	20%
	Q2	7.9%	20%
	Q1	7.4%	20%
2015-17	Q8	18.2%	20%
	Q7	11.5%	20%
	Q6	7.1%	20%
	Q5	8.5%	20%
	Q4	13.2%	20%
	Q3	12.6%	20%
	Q2	13.5%	20%
	Q1	12.6%	20%

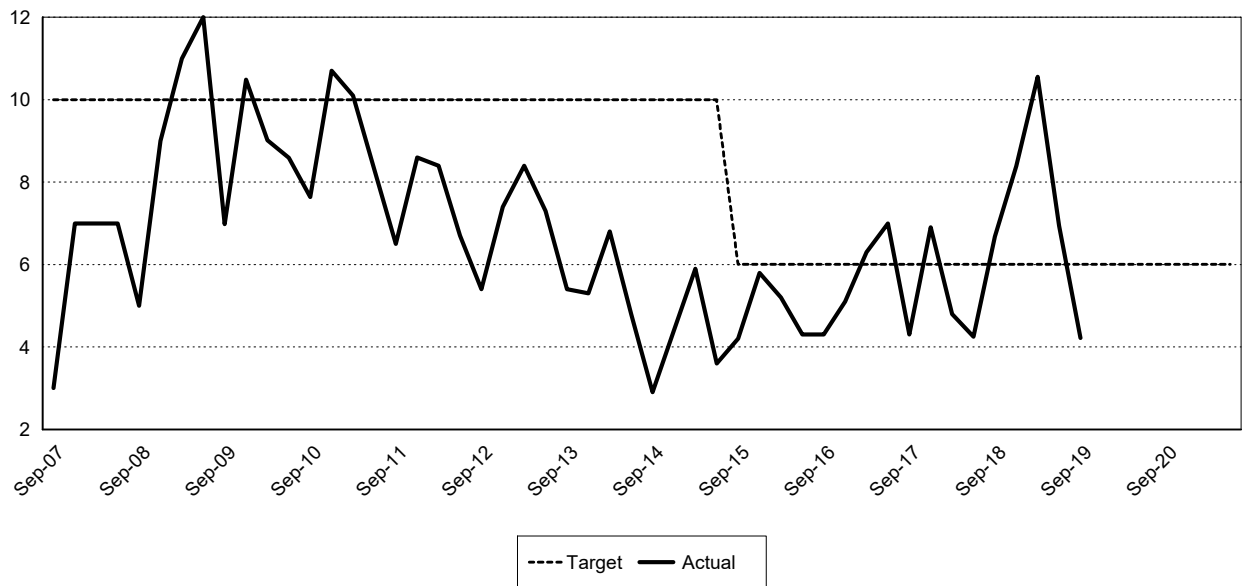
Percent **001477 - Percentage of unique potential high-risk vessels inspected**



Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

001480 Percentage of unique regulated over-water oil operations inspected.			
Biennium	Period	Actual	Target
2019-21	Q8		6%
	Q7		6%
	Q6		6%
	Q5		6%
	Q4		6%
	Q3		6%
	Q2		6%
	Q1	4.22%	6%
2017-19	Q8	6.94%	6%
	Q7	10.56%	6%
	Q6	8.39%	6%
	Q5	6.68%	6%
	Q4	4.25%	6%
	Q3	4.8%	6%
	Q2	6.9%	6%
	Q1	4.3%	6%
2015-17	Q8	7%	6%
	Q7	6.3%	6%
	Q6	5.1%	6%
	Q5	4.3%	6%
	Q4	4.3%	6%
	Q3	5.2%	6%
	Q2	5.8%	6%
	Q1	4.2%	6%

Percent 001480 - Percentage of unique regulated over-water oil transfer operations inspected

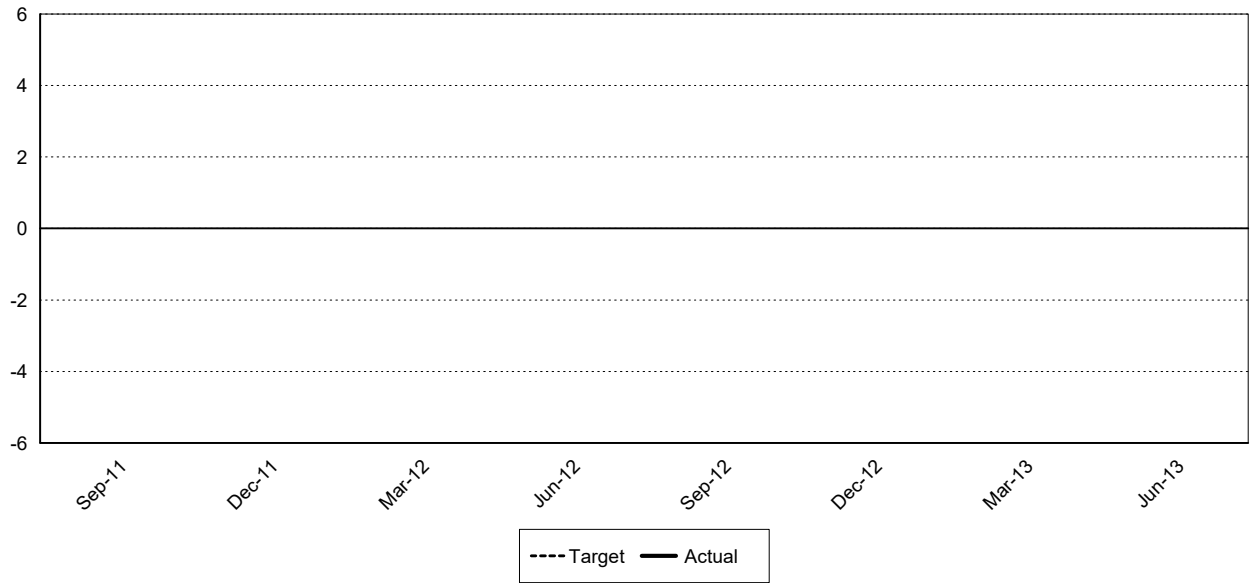


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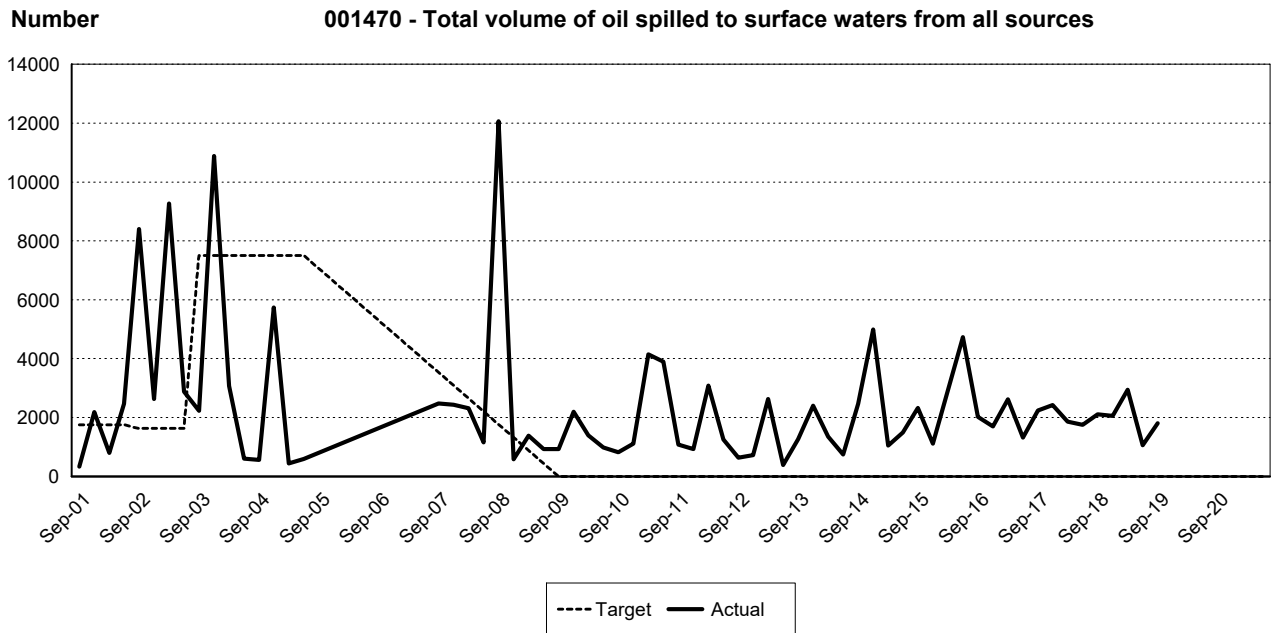
Number

001655 - Refer to Above Narrative Justification and Impact Statement



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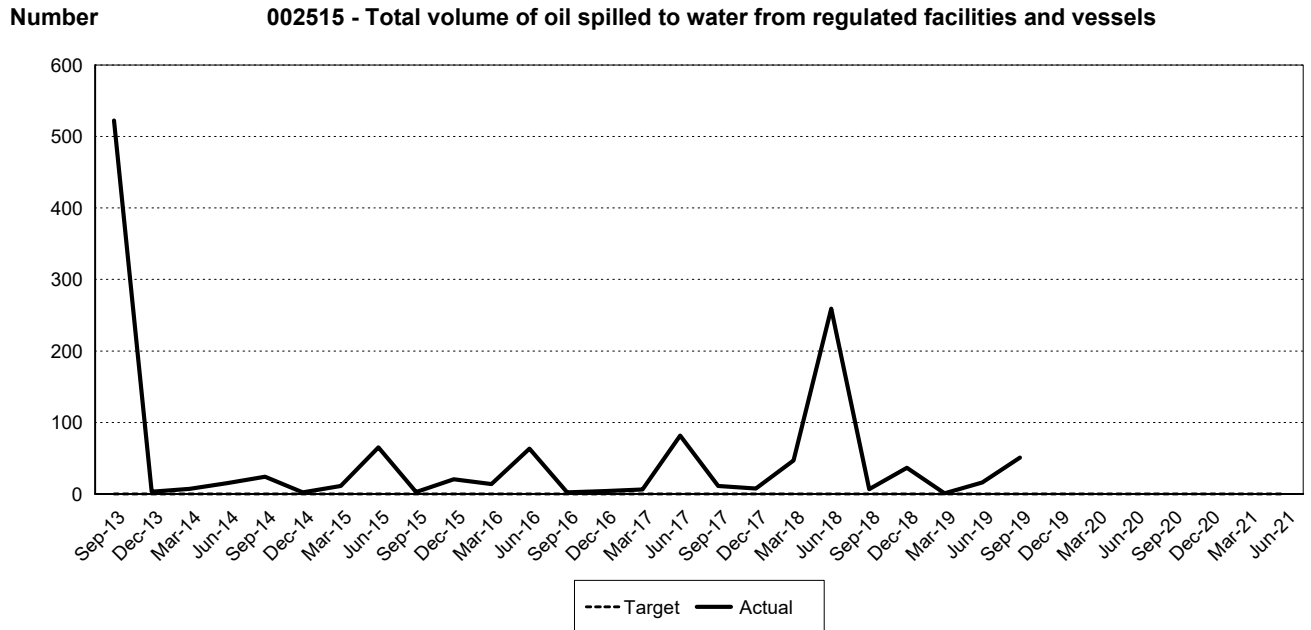
001470 Total volume of oil spilled to surface waters from all sources, including unregulated sources.			
Biennium	Period	Actual	Target
2019-21	Q8		0
	Q7		0
	Q6		0
	Q5		0
	Q4		0
	Q3		0
	Q2		0
	Q1	1,807	0
2017-19	Q8	1,061	0
	Q7	2,940	0
	Q6	2,058	0
	Q5	2,106	0
	Q4	1,751	0
	Q3	1,864	0
	Q2	2,422	0
	Q1	2,243	0
2015-17	Q8	1,314	0
	Q7	2,622	0
	Q6	1,694	0
	Q5	2,026	0
	Q4	4,730	0
	Q3	2,918	0
	Q2	1,111	0
	Q1	2,325	0



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002515 Total volume of oil spilled to water from regulated facilities and vessels.			
Biennium	Period	Actual	Target
2019-21	Q8		0
	Q7		0
	Q6		0
	Q5		0
	Q4		0
	Q3		0
	Q2		0
	Q1	50.7	0
2017-19	Q8	15.9	0
	Q7	0.8	0
	Q6	36.4	0
	Q5	6.8	0
	Q4	259.2	0
	Q3	46.8	0
	Q2	7.7	0
	Q1	11.1	0
2015-17	Q8	81.7	0
	Q7	6.1	0
	Q6	4	0
	Q5	2	0
	Q4	63.5	0
	Q3	14	0
	Q2	20.5	0
	Q1	2.5	0

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002515 - Total volume of oil spilled to water from regulated facilities and vessels**A034 Prevent Unhealthy Air and Violations of Air Quality Standards**

To ensure federal air quality standards are met and people have healthier air to breathe, Ecology:

- Continuously measures air pollution levels and trends.
- Develops and implements area-specific cleanup plans.
- Designs and implements strategies to prevent violations.
- Cleans up areas that violate standards as quickly as possible.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	31.7	30.8	31.3
001 General Fund			
001-2 Federal	\$2,573,000	\$3,139,000	\$5,712,000
23P Model Toxics Control Operating Account			
23P-1 State	\$4,230,000	\$4,596,000	\$8,826,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

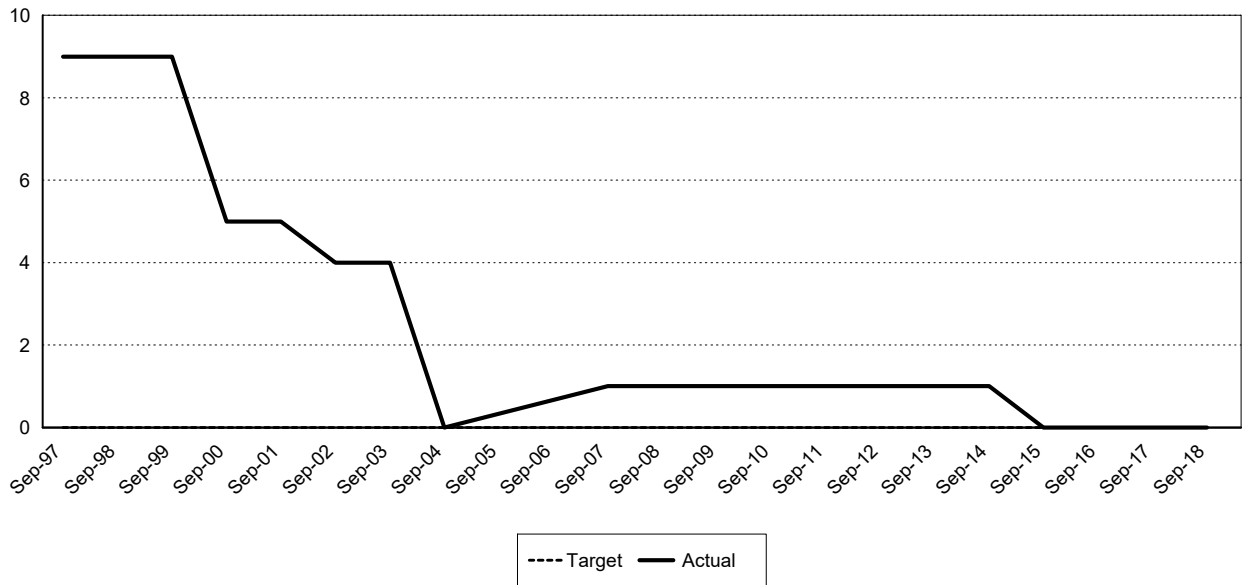
Expected Results

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

- The number of areas in Washington measuring air quality levels that are not in compliance with federal air quality standards decrease per year so health problems linked to unsafe air are minimized.
- Ecology attains and maintains clean air, as classified and officially recognized by the Environmental Protection Agency, avoiding federal sanctions.
- Violations of ambient air quality standards are prevented.
- State Implementation Plan strategies are implemented for areas brought back into compliance so that the risk of future violations is reduced.

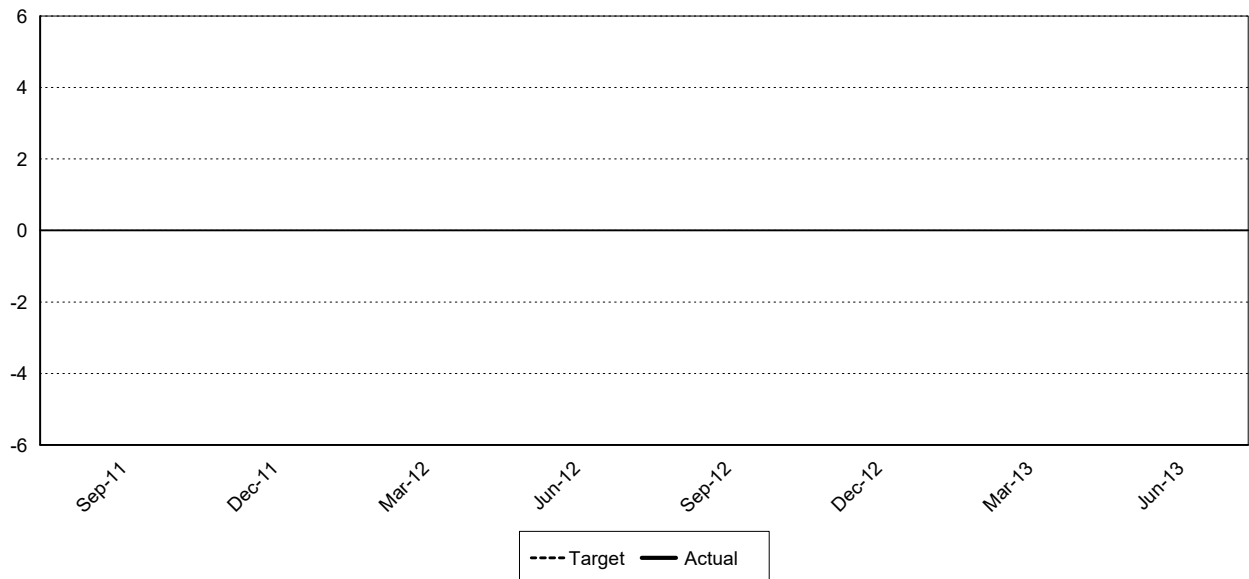
000998 Number of areas in Washington measuring air quality levels that are not in compliance with federal air quality standards.			
Biennium	Period	Actual	Target
2017-19	A3		
	A3		
	A2		
	A2		
	A2		
	A2	0	0
	A1		
	A1	0	0
2015-17	A3		
	A3		
	A2		
	A2		
	A2		
	A2	0	0
	A1		
	A1	0	0

Number **000998 - Number of areas measuring air quality levels that are not in compliance with federal standards**



Number

001655 - Refer to Above Narrative Justification and Impact Statement



A035 Promote Compliance with Water Laws

The agency helps ensure that water users comply with the state's water laws so that other legal water users are not impaired; water use remains sustainable over the long term; and the environment is protected for the benefit of people and nature. Activities include water metering and reporting 80 percent of water use in 16 fish critical basins, along with education, technical assistance, and strategic enforcement in egregious cases.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	15.2	13.7	14.5
001 General Fund			
001-1 State	\$3,445,000	\$2,502,000	\$5,947,000
489 Pension Funding Stabilization Account			
489-1 State	\$160,000	\$159,000	\$319,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

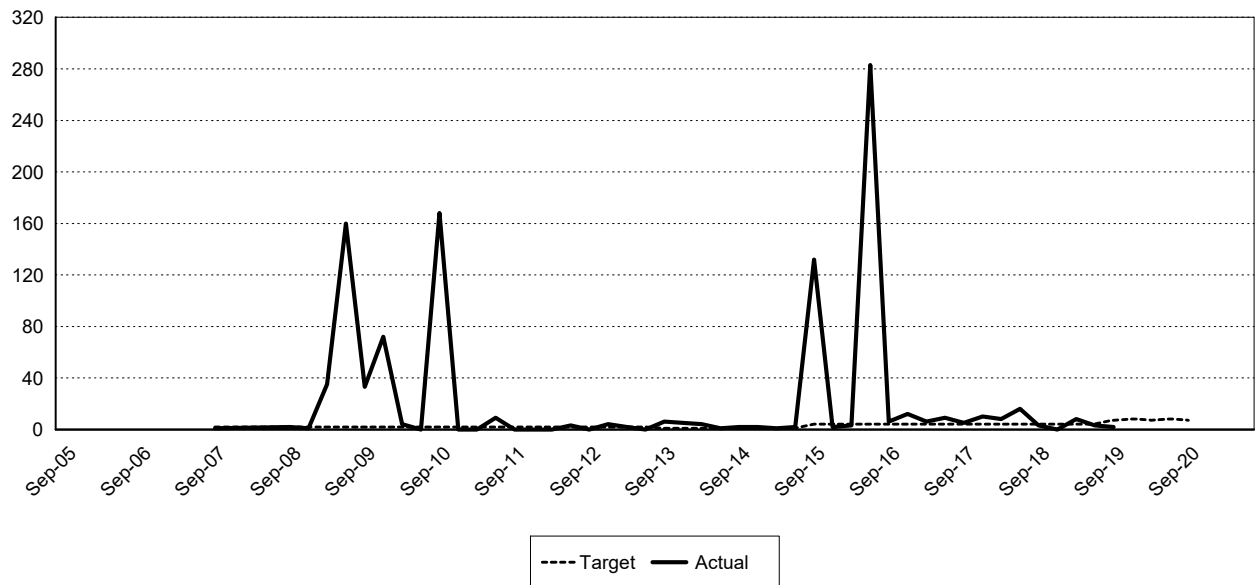
Expected Results

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

- Increased awareness of, and compliance with, the state's water laws so that legal water users and applicants for water rights are not impaired, water use remains sustainable, and the environment is protected.
- Water right holders receive compliance information, assistance, and strategic enforcement action.
- Water use on streams with flows set is regulated during periods of low flows.

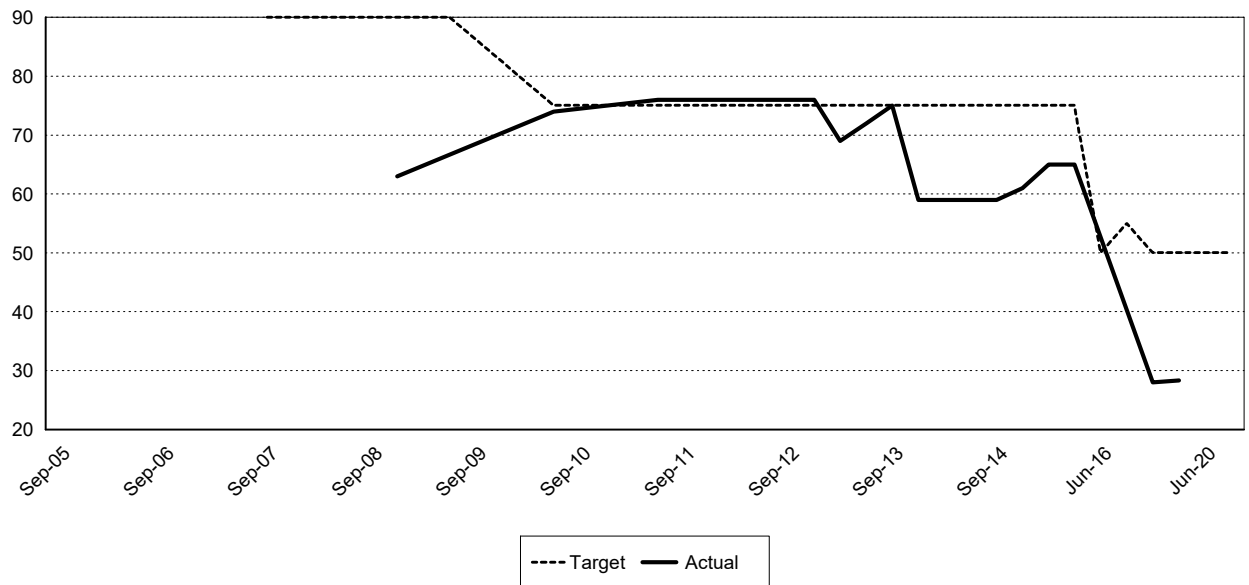
001575 Number of formal enforcement actions (penalties, orders, and notices) taken to achieve compliance.			
Biennium	Period	Actual	Target
2019-21	Q8		
	Q7		
	Q6		
	Q5		7
	Q4		8
	Q3		7
	Q2		8
	Q1	2	7
2017-19	Q8	3	4
	Q7	8	4
	Q6	0	4
	Q5	3	4
	Q4	16	4
	Q3	8	4
	Q2	10	4
	Q1	5	4
2015-17	Q8	9	4
	Q7	6	4
	Q6	12	4
	Q5	6	4
	Q4	283	4
	Q3	3	4
	Q2	2	4
	Q1	132	4

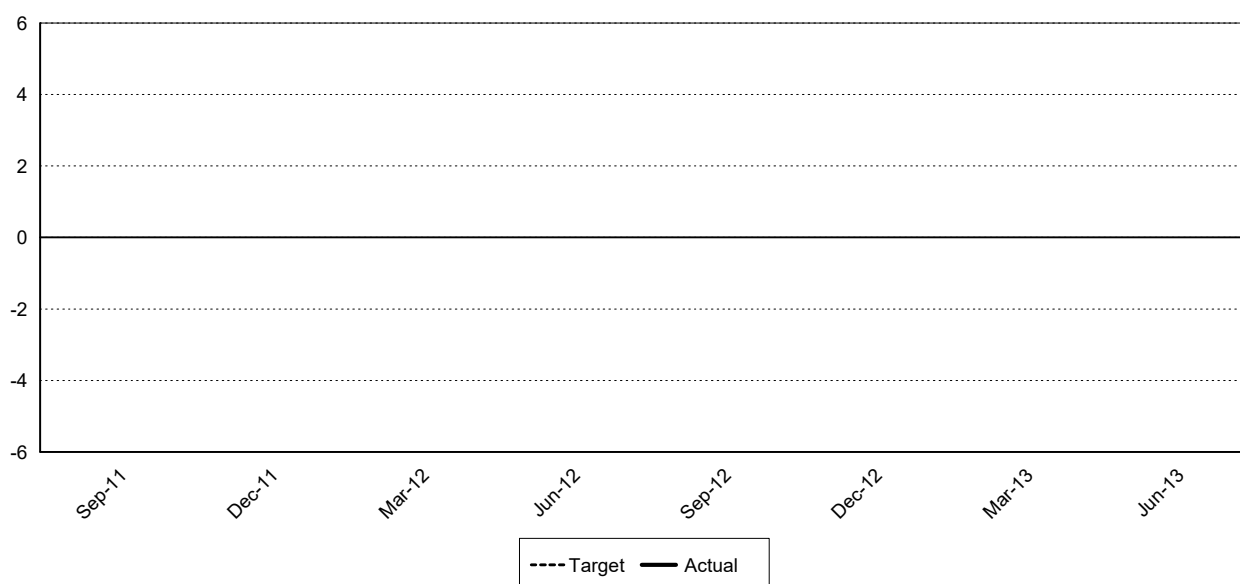
Number **001575 - Number of formal enforcement actions (penalties, orders, and notices) taken to achieve compliance**



001574 Percentage of water use that is metered in 16 salmon critical basins.			
Biennium	Period	Actual	Target
2019-21	A3		50%
	A2		50%
2017-19	A3	28.3%	50%
	A2	28%	50%
2015-17	A3		55%
	A2		50%

Percent **001574 - Percentage of annual reports received from water users required to meter in 16 fish critical basins**



Number 001655 - Refer to Above Narrative Justification and Impact Statement**A036 Protect and Manage Shorelines in Partnership with Local Governments**

The Shoreline Management Act establishes a cooperative program between local and state governments, in which local governments develop and administer local Shoreline Master Programs, and the Department of Ecology provides support and oversight. The agency is involved in shoreline management in four primary ways: developing guidelines for local shoreline programs; providing technical assistance to local governments and applicants on shoreline planning and permitting activities; reviewing and approving amendments to local shoreline master programs; and reviewing permits to ensure resource protection and implementation of the law. The agency works with local governments on permit compliance by responding to public inquiries and complaints, making field visits, providing compliance-related technical assistance, and issuing notices of correction, orders, and penalties. Properly managed shorelines provide habitat for fish and wildlife, minimize flooding and property damage, and provide land-use certainty to local landowners.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	37.9	37.4	37.7
001 General Fund			
001-1 State	\$401,000	\$401,000	\$802,000
001-2 Federal	\$2,096,000	\$2,101,000	\$4,197,000
001-7 Private/Local	\$9,000	\$11,000	\$20,000
001 Account Total	\$2,506,000	\$2,513,000	\$5,019,000
23P Model Toxics Control Operating Account			
23P-1 State	\$4,109,000	\$4,494,000	\$8,603,000

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

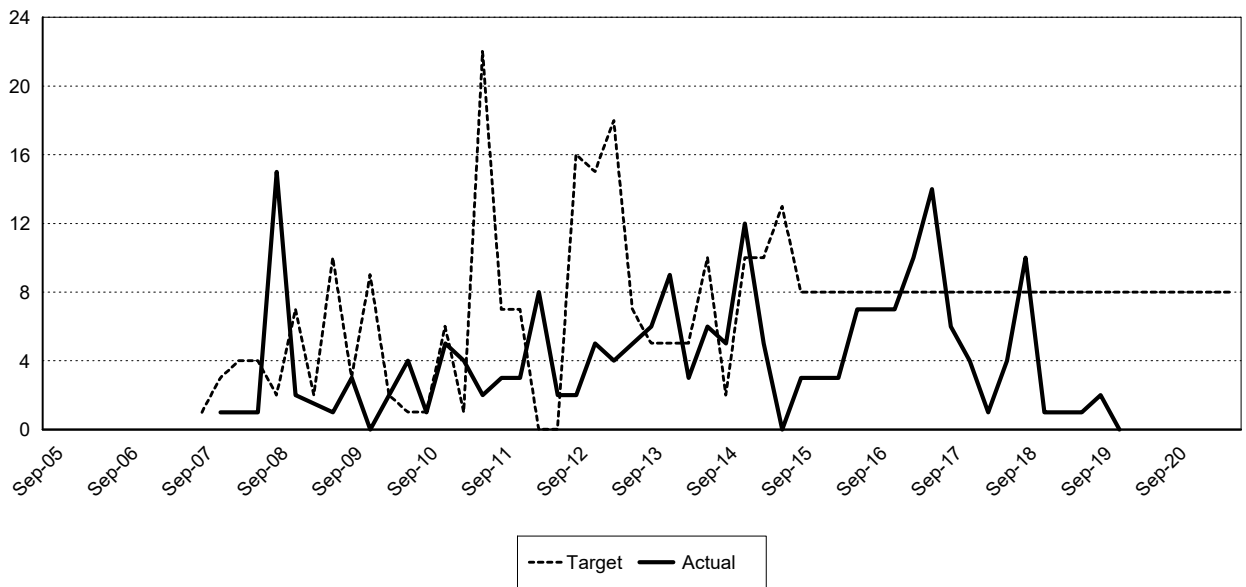
Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

Expected Results

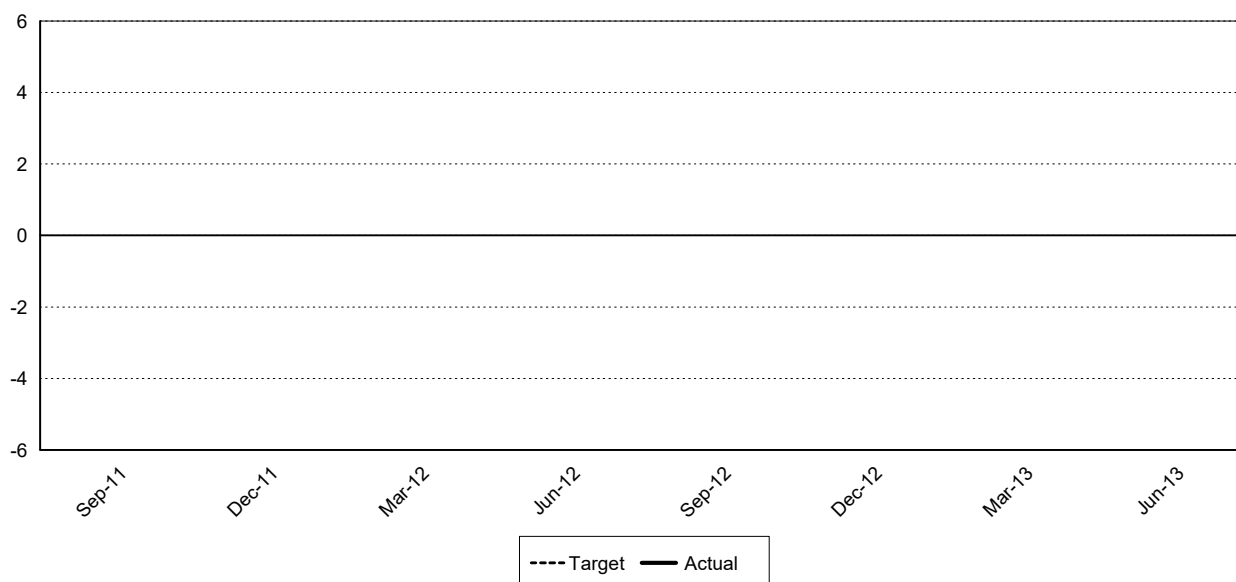
- Shorelines of the state are protected, restored, and managed consistent with state and local laws.
- Local governments get technical and financial assistance to update their shoreline master programs.

001453 Number of communities (cities and counties) that have submitted updated Shoreline Master Plans.			
Biennium	Period	Actual	Target
2019-21	Q8		8
	Q7		8
	Q6		8
	Q5		8
	Q4		8
	Q3		8
	Q2	0	8
	Q1	2	8
2017-19	Q8	1	8
	Q7	1	8
	Q6	1	8
	Q5	10	8
	Q4	4	8
	Q3	1	8
	Q2	4	8
	Q1	6	8
2015-17	Q8	14	8
	Q7	10	8
	Q6	7	8
	Q5	7	8
	Q4	7	8
	Q3	3	8
	Q2	3	8
	Q1	3	8

Number **001453 - Number of communities (cities/counties) that have submitted updated Shoreline Master Programs**



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Number 001655 - Refer to Above Narrative Justification and Impact Statement

A037 Protect Water Quality by Reviewing and Conditioning Construction Projects

The Department of Ecology issues water quality certifications and Coastal Zone Management Act consistency determinations for water-related construction projects. Staff provide early review on projects whenever possible (e.g., through State Environmental Policy Act review and pre-application meetings) and provide project guidance and technical assistance through phone calls, e-mails, site visits, and workshops. Projects are approved, denied, or conditioned to protect water quality, sediment quality, and fish and shellfish habitat. This activity allows the state to actively participate in federal permitting activities to ensure that state interests are adequately represented and considered.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	14.3	13.1	13.7
23P Model Toxics Control Operating Account			
23P-1 State	\$1,219,000	\$1,278,000	\$2,497,000

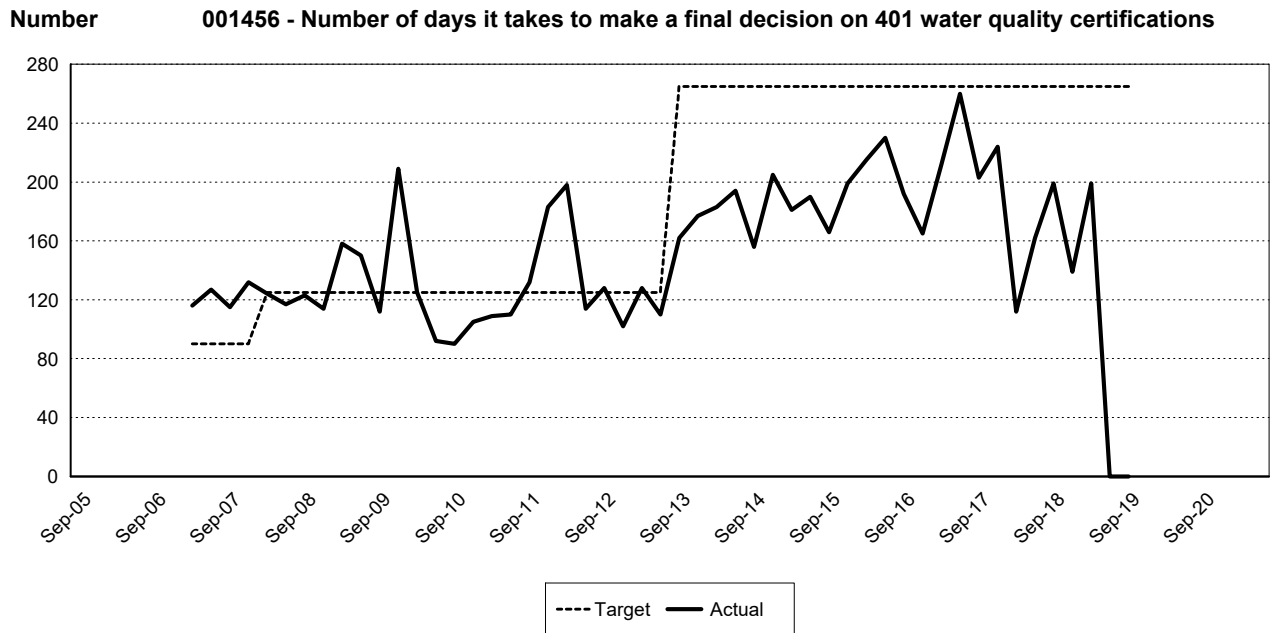
Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

Expected Results

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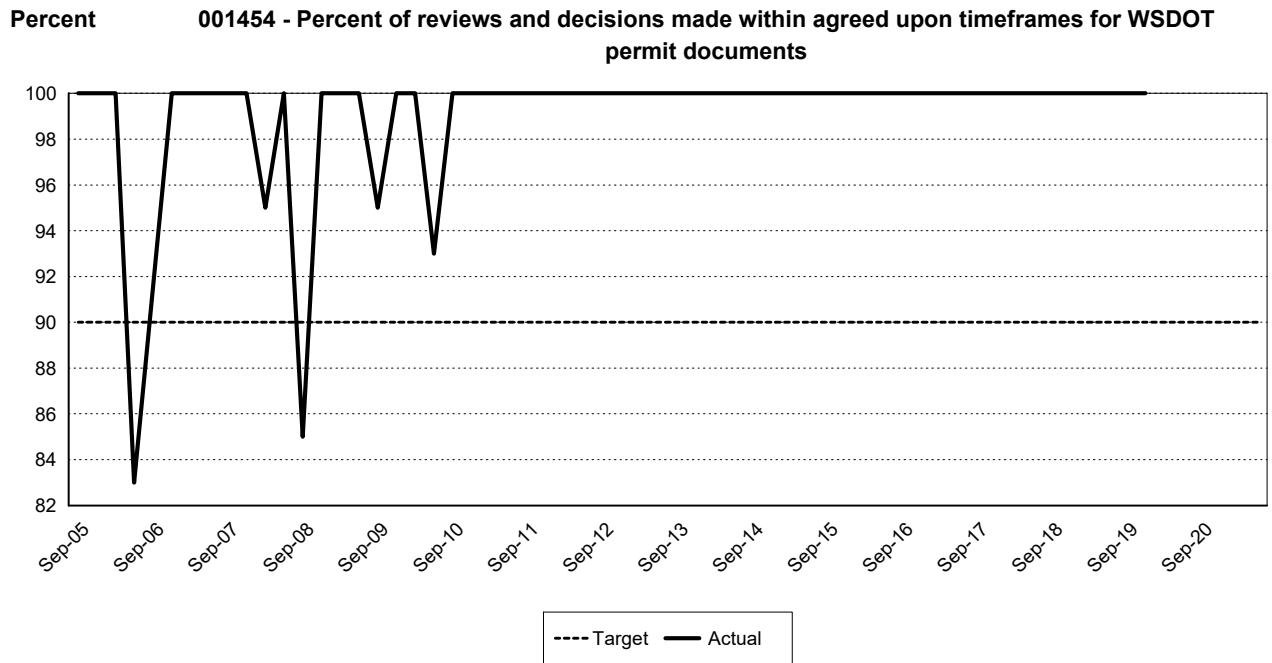
- Water quality, habitat, and aquatic life are protected and managed consistent with federal, state, and local laws.
- Applicants get technical help on reducing impacts and permit issues.
- Decisions are timely, thorough, and consistent.
- The average number of days it takes to make a 401 permit certification decision is reduced.
- Projects comply with permit conditions.

001456 The number of days it takes to make a final decision on 401 water quality certifications.			
Biennium	Period	Actual	Target
2019-21	Q8		
	Q7		
	Q6		
	Q5		
	Q4		
	Q3		
	Q2		
	Q1	0	265
2017-19	Q8	0	265
	Q7	199	265
	Q6	139	265
	Q5	199	265
	Q4	162	265
	Q3	112	265
	Q2	224	265
	Q1	203	265
2015-17	Q8	260	265
	Q7	212	265
	Q6	165	265
	Q5	192	265
	Q4	230	265
	Q3	215	265
	Q2	199	265
	Q1	166	265

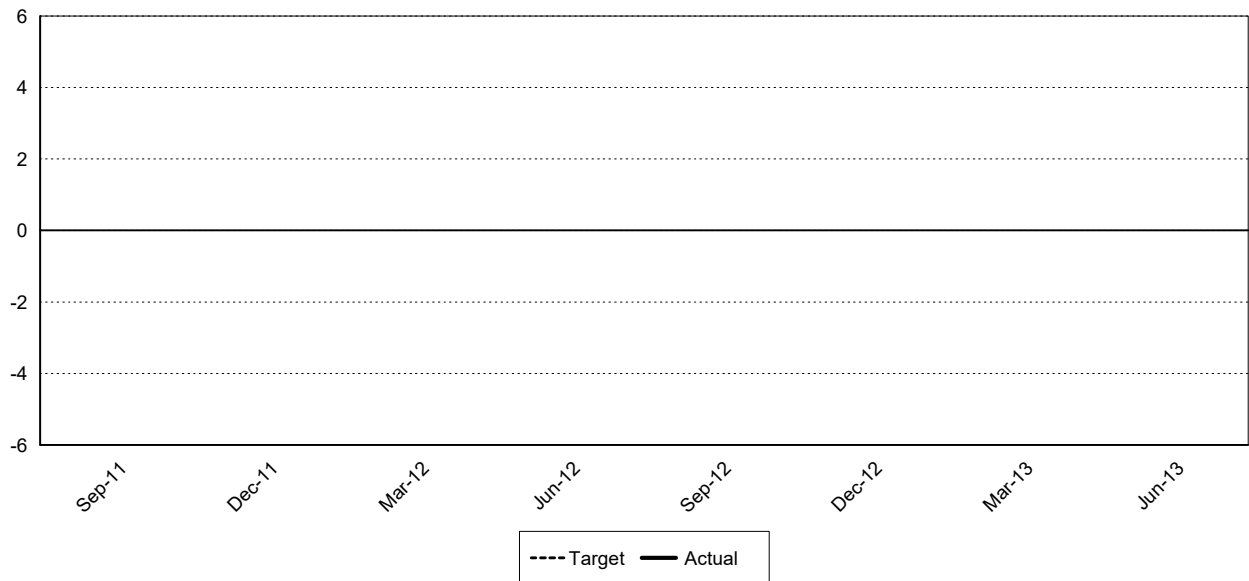


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001454 Percent of reviews and decisions from Ecology's Transportation Team made within agreed upon timeframes for WSDOT's permit documents.			
Biennium	Period	Actual	Target
2019-21	Q8		90%
	Q7		90%
	Q6		90%
	Q5		90%
	Q4		90%
	Q3		90%
	Q2	100%	90%
	Q1	100%	90%
2017-19	Q8	100%	90%
	Q7	100%	90%
	Q6	100%	90%
	Q5	100%	90%
	Q4	100%	90%
	Q3	100%	90%
	Q2	100%	90%
	Q1	100%	90%
2015-17	Q8	100%	90%
	Q7	100%	90%
	Q6	100%	90%
	Q5	100%	90%
	Q4	100%	90%
	Q3	100%	90%
	Q2	100%	90%
	Q1	100%	90%



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Number 001655 - Refer to Above Narrative Justification and Impact Statement**A038 Protect, Restore, and Manage Wetlands**

The Department of Ecology has the lead responsibility in implementing the state Water Pollution Control Act, which requires the protection of wetlands. The agency provides technical assistance to local governments, helping them implement requirements in the Shoreline Management and Growth Management acts. Staff also provide technical assistance to non-government entities on wetlands conservation and stewardship programs. The agency provides leadership on wetlands issues, coordinating statewide policy issues, and developing new approaches for managing and restoring wetlands. Properly functioning wetlands protect water quality, reduce flooding, provide aquifer recharge for drinking water and other uses, and provide critical habitat for fish and wildlife.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	29.9	28.4	29.2
001 General Fund			
001-2 Federal	\$7,211,000	\$12,476,000	\$19,687,000
001-7 Private/Local	\$80,000	\$120,000	\$200,000
001 Account Total	\$7,291,000	\$12,596,000	\$19,887,000
23P Model Toxics Control Operating Account			
23P-1 State	\$2,134,000	\$2,297,000	\$4,431,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

Expected Results

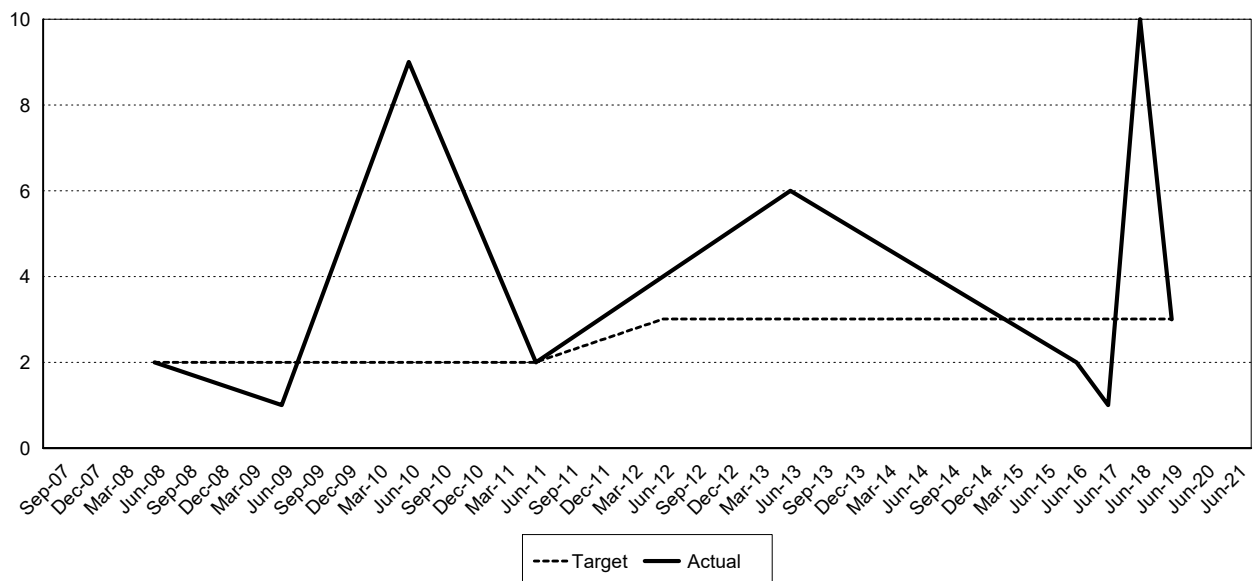
Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

- Wetlands are protected, restored and managed consistent with state and local permits and laws.
- Local governments and other parties get technical assistance to carry out local wetland protection efforts.
- Wetland losses are fully replaced by improving the success rate of wetland mitigation.
- Approved mitigation achieves compliance through meaningful performance standards, and monitoring project success.

001467 Number of completed watershed characterizations.			
Biennium	Period	Actual	Target
2019-21	A3		
	A2		
2017-19	A3	3	3
	A2	10	3
2015-17	A3	1	3
	A2	2	3

Number

001467 - Number of completed watershed characterizations

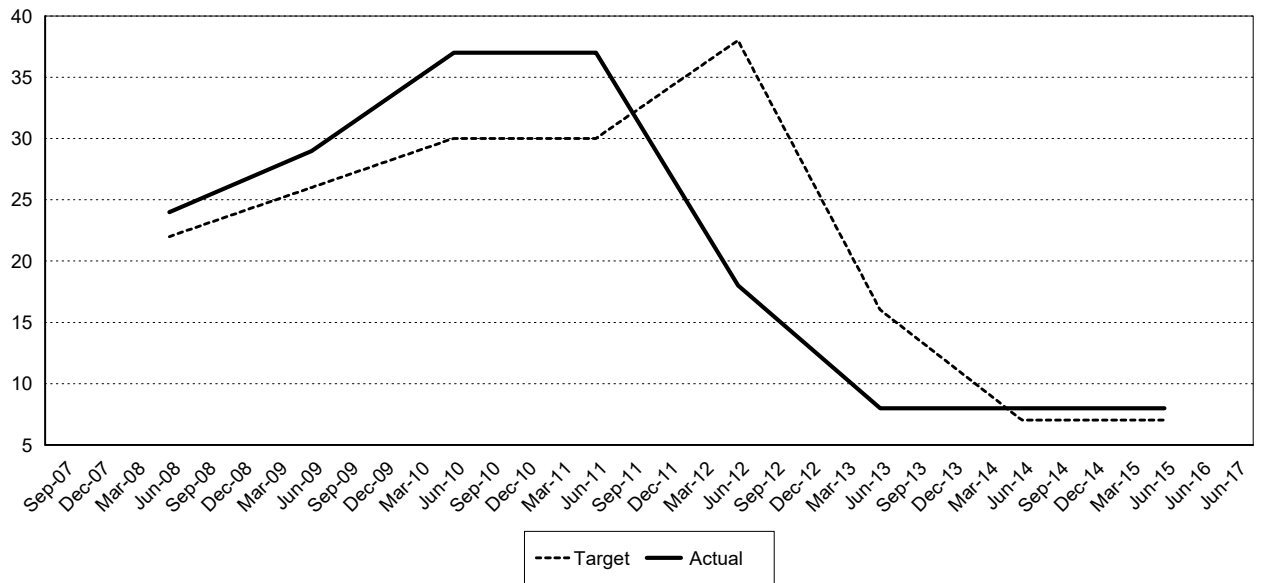


001462 Number of Watershed Planning Units in Phase 4 - Plan Implementation.			
Biennium	Period	Actual	Target
2015-17	A3		
	A2		

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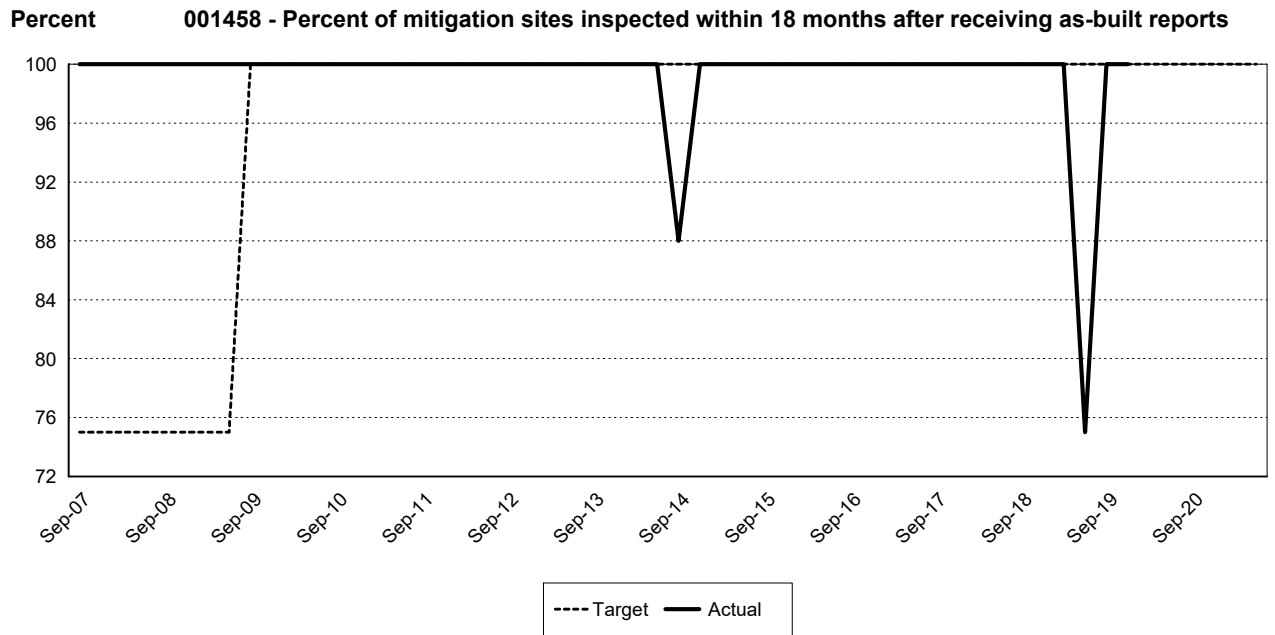
Number

001462 - Number of watersheds in the implementation of watershed planning



Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

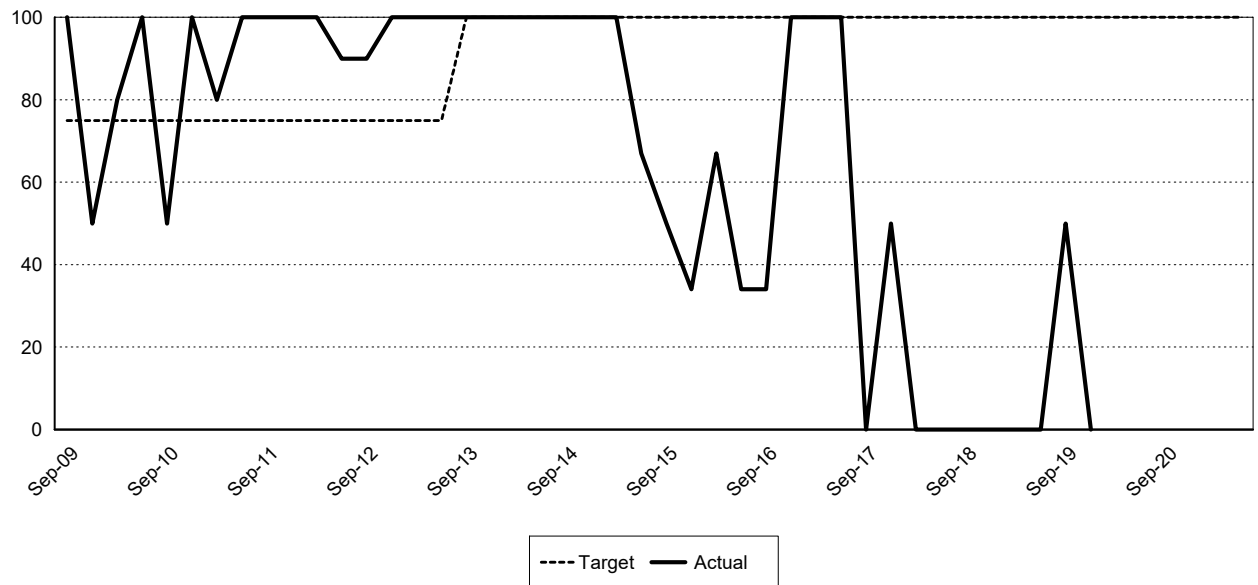
001458 Percent of mitigation sites inspected within 18 months after receipt of as-built reports.			
Biennium	Period	Actual	Target
2019-21	Q8		100%
	Q7		100%
	Q6		100%
	Q5		100%
	Q4		100%
	Q3		100%
	Q2	100%	100%
	Q1	100%	100%
2017-19	Q8	75%	100%
	Q7	100%	100%
	Q6	100%	100%
	Q5	100%	100%
	Q4	100%	100%
	Q3	100%	100%
	Q2	100%	100%
	Q1	100%	100%
2015-17	Q8	100%	100%
	Q7	100%	100%
	Q6	100%	100%
	Q5	100%	100%
	Q4	100%	100%
	Q3	100%	100%
	Q2	100%	100%
	Q1	100%	100%



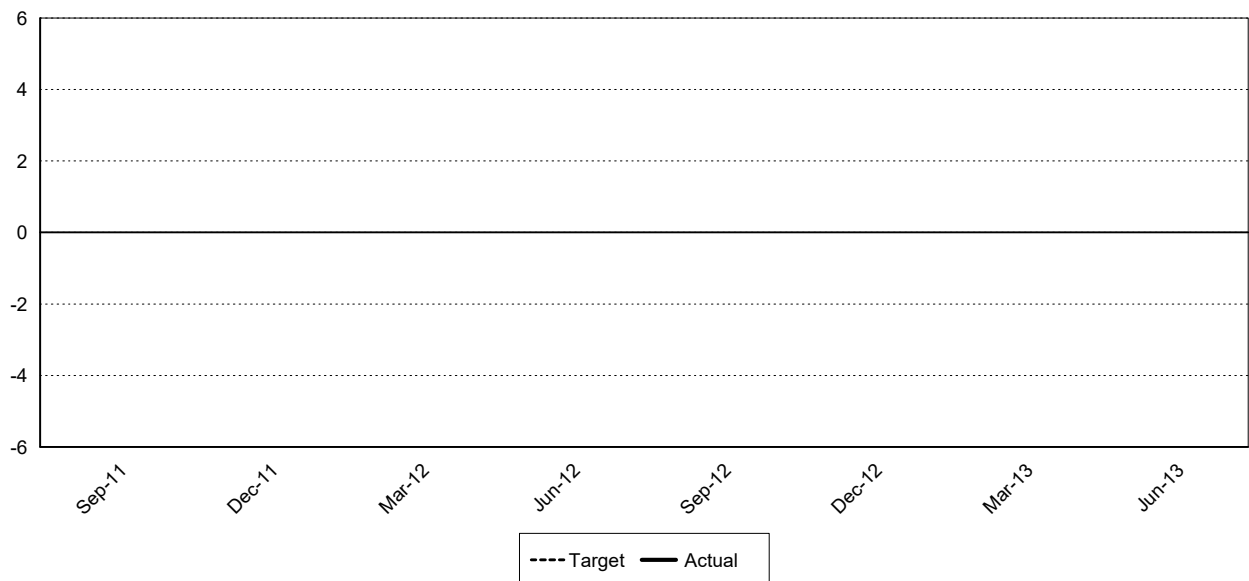
Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

001468 Percentage of wetland banking certification documents reviewed within 30 days of receipt.			
Biennium	Period	Actual	Target
2019-21	Q8		100%
	Q7		100%
	Q6		100%
	Q5		100%
	Q4		100%
	Q3		100%
	Q2	0%	100%
	Q1	50%	100%
2017-19	Q8	0%	100%
	Q7	0%	100%
	Q6	0%	100%
	Q5	0%	100%
	Q4	0%	100%
	Q3	0%	100%
	Q2	50%	100%
	Q1	0%	100%
2015-17	Q8	100%	100%
	Q7	100%	100%
	Q6	100%	100%
	Q5	34%	100%
	Q4	34%	100%
	Q3	67%	100%
	Q2	34%	100%
	Q1	50%	100%

Percent **001468 - Percent of wetland banking certification documents reviewed within 30 days of receipt**



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Number 001655 - Refer to Above Narrative Justification and Impact Statement**A040 Provide Technical and Financial Assistance to Local Governments to Reduce Flood Hazards**

The Department of Ecology administers the Flood Control Assistance Account Program, providing grants and technical assistance to local governments for flood damage reduction projects and comprehensive flood hazard management planning. Staff review and approve local Comprehensive Flood Hazard Management Plans and inspect construction of flood damage reduction projects. The Department of Ecology is also the state's coordinating agency for the National Flood Insurance Program (NFIP) and receives an annual Community Assistance Program grant to provide technical assistance and support to 286 communities enrolled in the NFIP. In this role, staff make regularly scheduled technical assistance visits to communities, assess local regulatory programs for compliance with state and federal requirements, and provide workshops and other outreach on flood hazard recognition and reduction. Proper flood control planning and projects protect both private and public property, as well as natural resources and fish and wildlife habitat.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	8.0	8.0	8.0
02P Flood Control Assistance Account			
02P-1 State	\$1,449,000	\$785,000	\$2,234,000
001 General Fund			
001-2 Federal	\$274,000	\$247,000	\$521,000

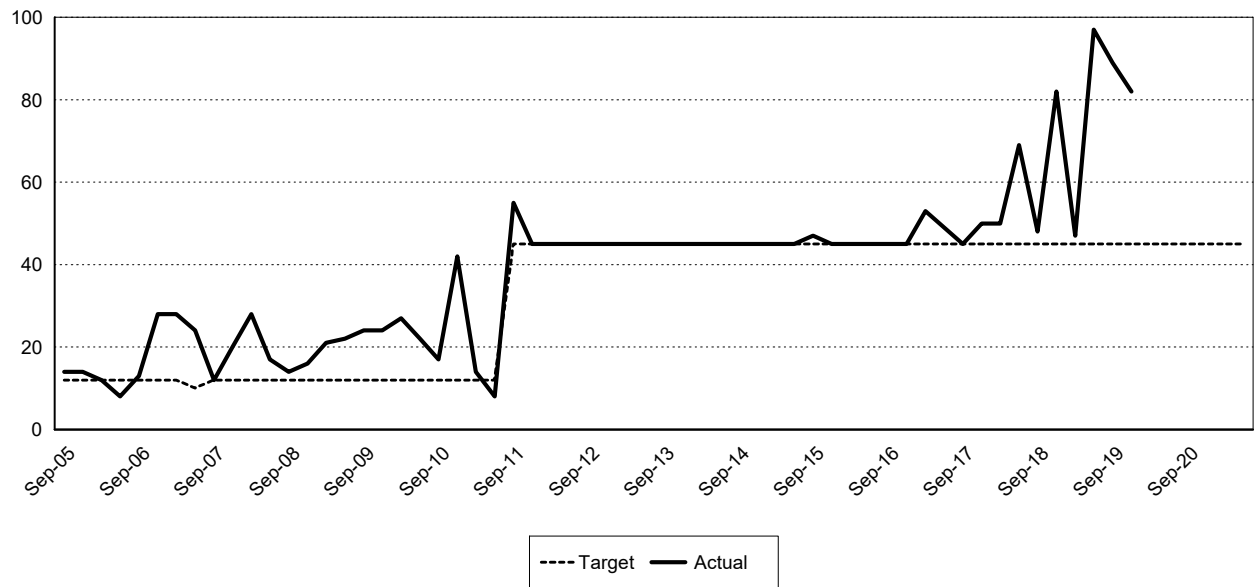
Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

Expected Results

- Local flood hazard management plans and flood control projects reduce flood damage to property and the environment.
- Local governments get technical and financial help to maintain flood management programs and respond to flooding.
- Flood prone communities are better prepared for responding to flooding emergencies.

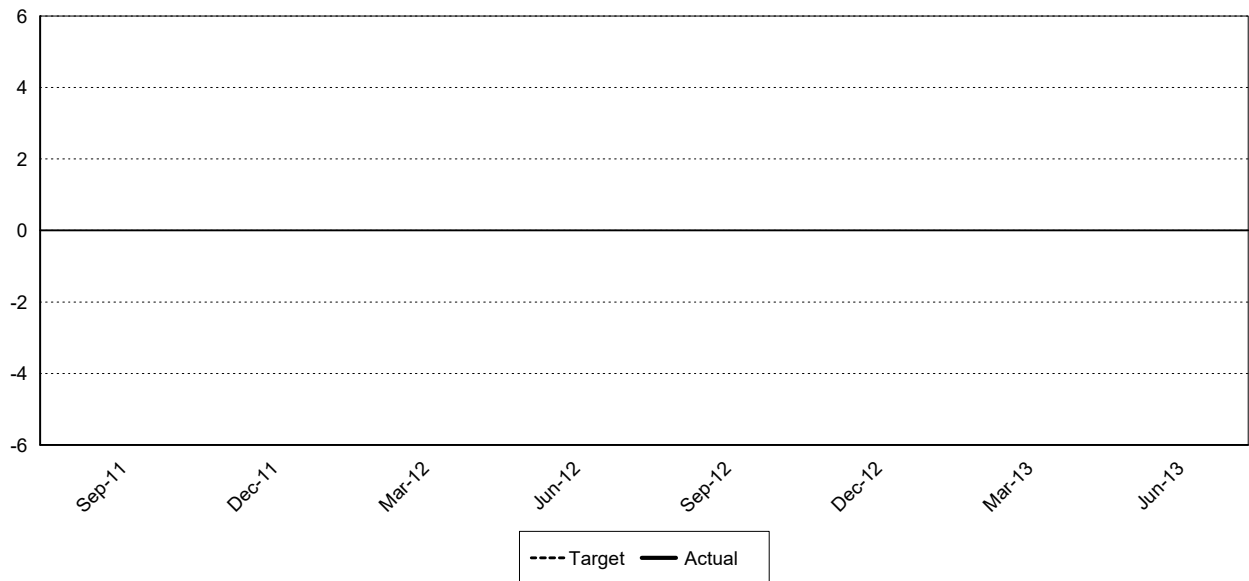
001455 Number of flood-prone communities that receive support on flood hazard reduction and regulations			
Biennium	Period	Actual	Target
2019-21	Q8		45
	Q7		45
	Q6		45
	Q5		45
	Q4		45
	Q3		45
	Q2	82	45
	Q1	89	45
2017-19	Q8	97	45
	Q7	47	45
	Q6	82	45
	Q5	48	45
	Q4	69	45
	Q3	50	45
	Q2	50	45
	Q1	45	45
2015-17	Q8		45
	Q7	53	45
	Q6	45	45
	Q5	45	45
	Q4	45	45
	Q3	45	45
	Q2	45	45
	Q1	47	45

Number **001455 - Number of flood-prone communities that receive support on flood hazard reduction and regulations**



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Number 001655 - Refer to Above Narrative Justification and Impact Statement



A041 Provide Technical Assistance on State Environmental Policy Act (SEPA) Review

SEPA was adopted in 1971 to ensure that state and local decision makers consider the environmental impacts of their actions. The SEPA law provides an opportunity for local citizen involvement in the environmental review process and provides developers an opportunity to identify mitigation opportunities that facilitate overall project approval and minimize development costs. The agency provides training and assistance to local governments and the public, and manages the SEPA register.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	6.7	5.5	6.1
001 General Fund			
001-2 Federal	\$136,000	\$140,000	\$276,000
23P Model Toxics Control Operating Account			
23P-1 State	\$491,000	\$855,000	\$1,346,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

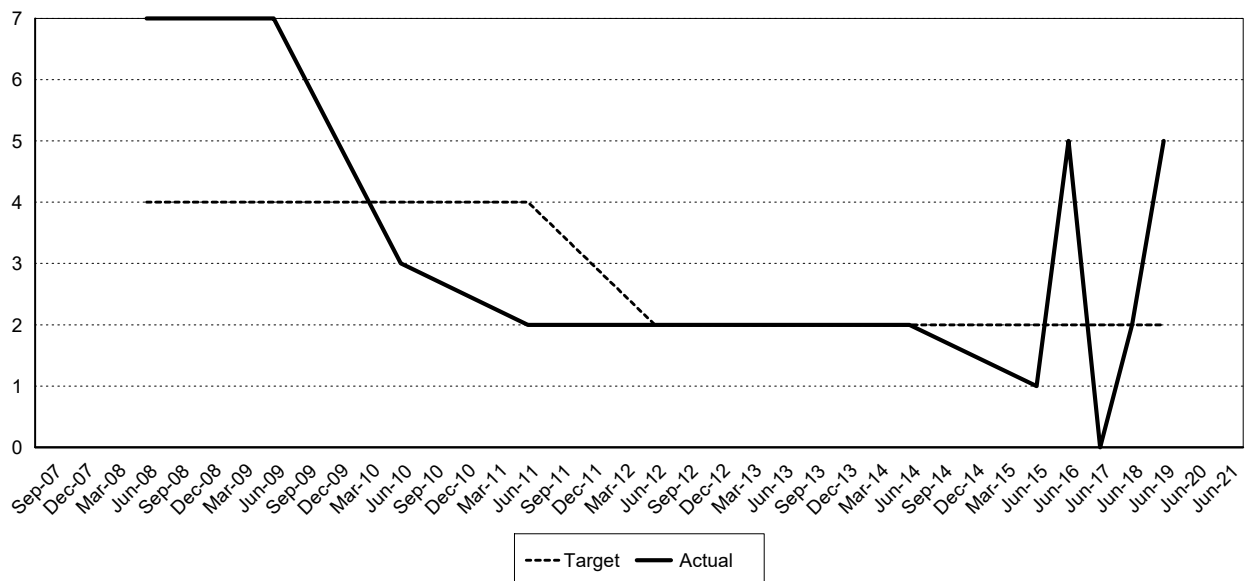
Expected Results

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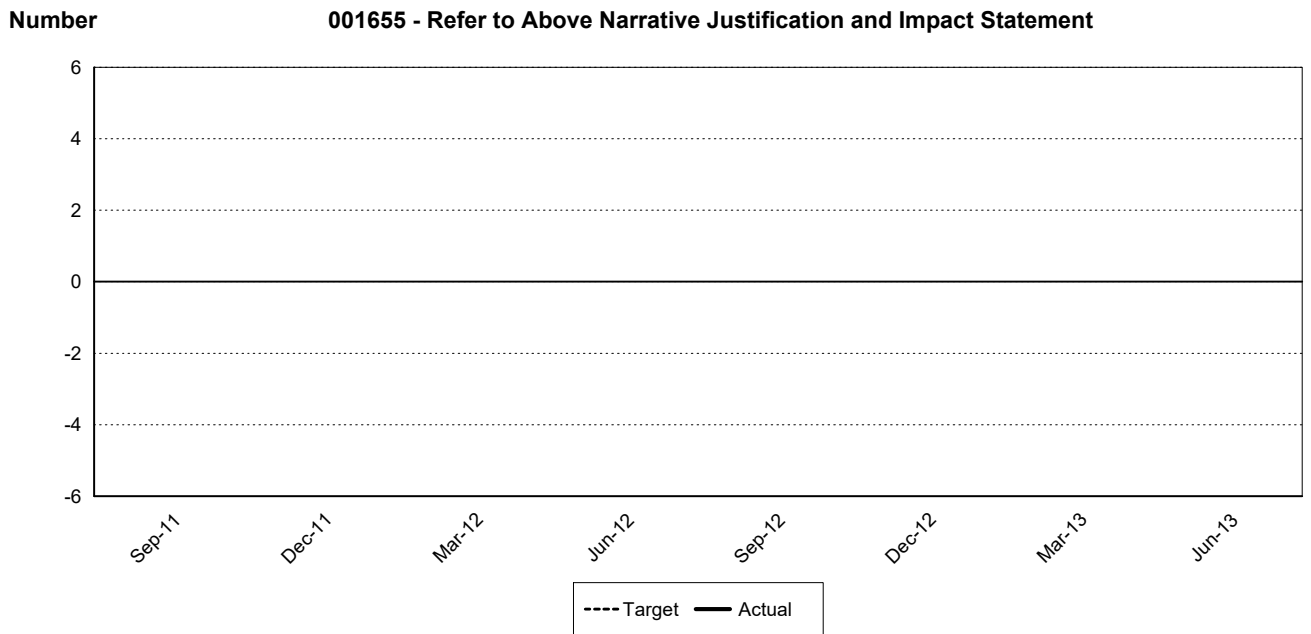
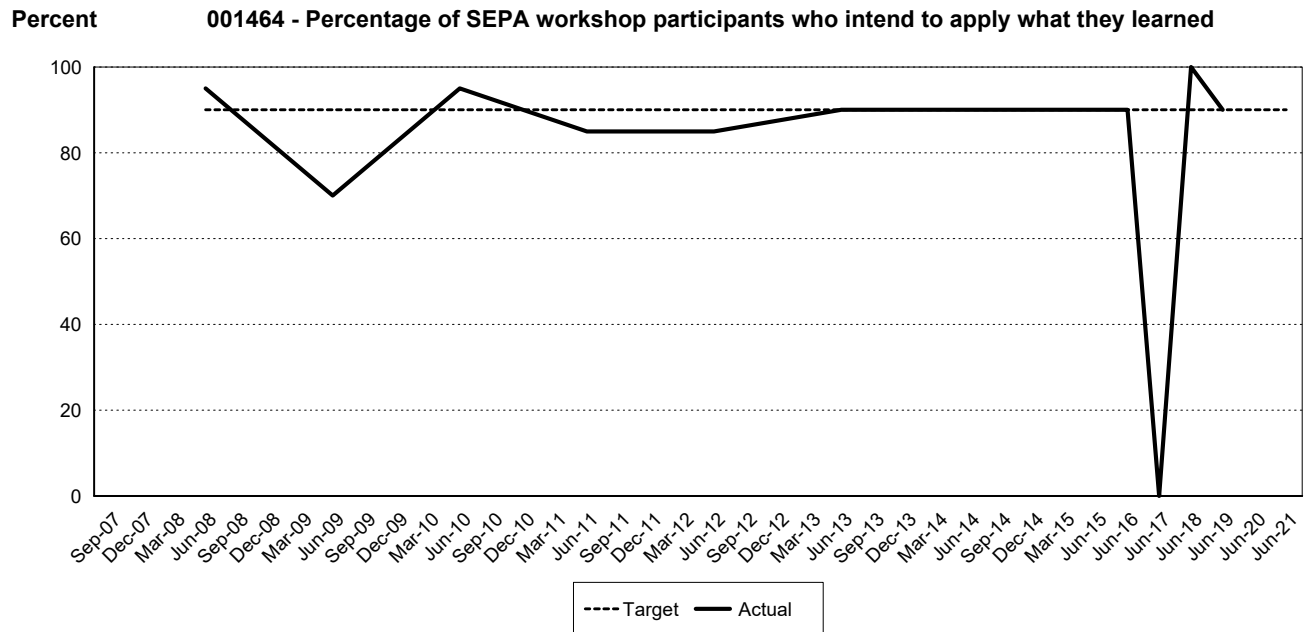
- The public has input into projects that may have environmental impact.
- Local governments and state agencies get technical assistance on how to apply SEPA in their communities.
- Local and state decision makers use the SEPA process to analyze and mitigate environmental impacts of proposals.

001463 Number of State Environmental Policy Act workshops provided.			
Biennium	Period	Actual	Target
2019-21	A3		
	A2		
2017-19	A3	5	2
	A2	2	2
2015-17	A3	0	2
	A2	5	2

Number 001463 - Number of State Environmental Policy Act (SEPA) workshops provided



001464 Percentage of State Environmental Policy Act workshop participants who said they intend to apply what they learned in their work.			
Biennium	Period	Actual	Target
2019-21	A3		90%
	A2		90%
2017-19	A3	90%	90%
	A2	100%	90%
2015-17	A3	0%	90%
	A2	90%	90%



A042 Provide Technical Training, Education, and Research through Padilla Bay Estuarine Reserve

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

The Padilla Bay National Estuarine Research Reserve is one of 25 national reserves established to protect estuaries for research and education. The Padilla Bay Reserve in Skagit County conducts a broad array of public education programs, technical and professional training, coastal restoration, and scientific research and monitoring. The reserve, managed in partnership with the National Oceanic and Atmospheric Administration (NOAA), includes over 11,000 acres of tidelands and uplands; the Breazeale Interpretive Center; a research laboratory; residential quarters; trails; and support facilities. The reserve also provides funding and technical support to local Marine Resource Committees as part of the Northwest Straits Initiative, and administers the Northwest Straits Marine Commission as established by Senator Murray in 1998.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	18.1	16.8	17.5
001 General Fund			
001-1 State	\$455,000	\$455,000	\$910,000
001-2 Federal	\$1,119,000	\$1,231,000	\$2,350,000
001-7 Private/Local	\$101,000	\$100,000	\$201,000
001 Account Total	\$1,675,000	\$1,786,000	\$3,461,000
23P Model Toxics Control Operating Account			
23P-1 State	\$893,000	\$919,000	\$1,812,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Preserve, maintain and restore natural systems and landscapes

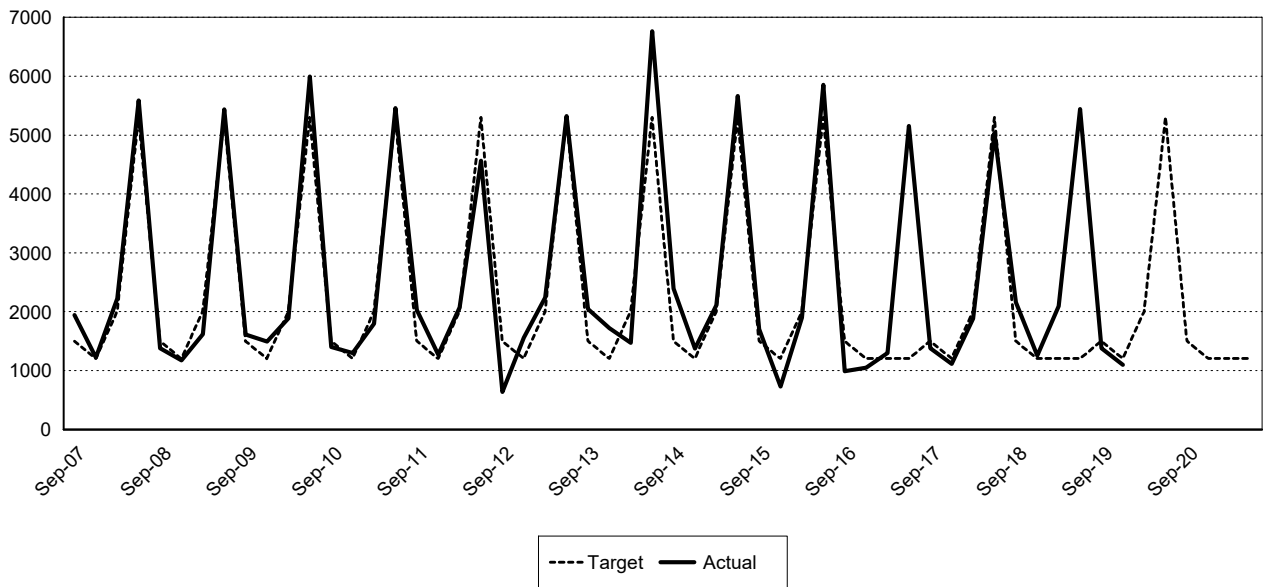
Expected Results

- Efficiently manage and maintain Padilla Bay Reserve to provide training and education for current and future coastal decision makers by increasing their technical expertise and level of knowledge.
- Coastal and land use managers and planners are trained to carry out environmental policies and rules in Western Washington and gain a better understanding of issues, science, innovative methods and rules.
- Teachers and students of all ages gain increased knowledge of the health and restoration of Puget Sound, climate change, ocean acidification, and sea level rise.
- Ecosystem research is carried out and results shared with government and academic organizations.
- Volunteers and professionals carry out restoration activities to improve Puget Sound.

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

001459 Number of people participating in Puget Sound education and training programs at Padilla Bay Reserve			
Biennium	Period	Actual	Target
2019-21	Q8		1,200
	Q7		1,200
	Q6		1,200
	Q5		1,500
	Q4		5,300
	Q3		2,000
	Q2	1,098	1,200
	Q1	1,377	1,500
2017-19	Q8	5,440	1,200
	Q7	2,094	1,200
	Q6	1,257	1,200
	Q5	2,157	1,500
	Q4	5,035	5,300
	Q3	1,885	2,000
	Q2	1,114	1,200
	Q1	1,380	1,500
2015-17	Q8	5,153	1,200
	Q7	1,300	1,200
	Q6	1,047	1,200
	Q5	992	1,500
	Q4	5,854	5,300
	Q3	1,902	2,000
	Q2	727	1,200
	Q1	1,703	1,500

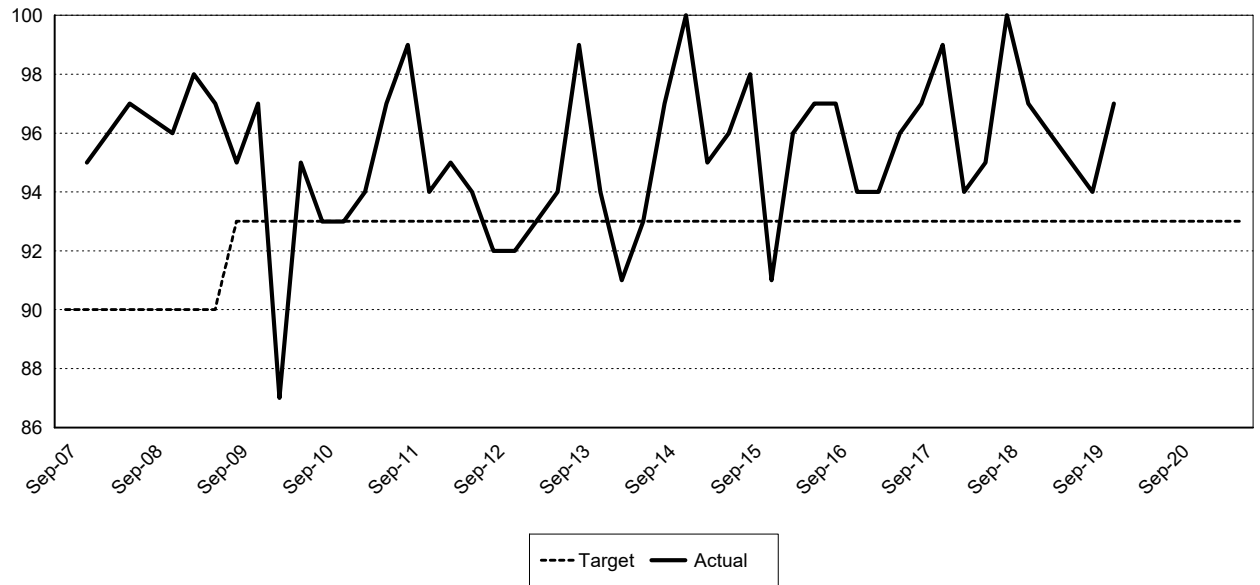
Number **001459 - Number of people participating in Puget Sound education and training programs at Padilla Bay Reserve**



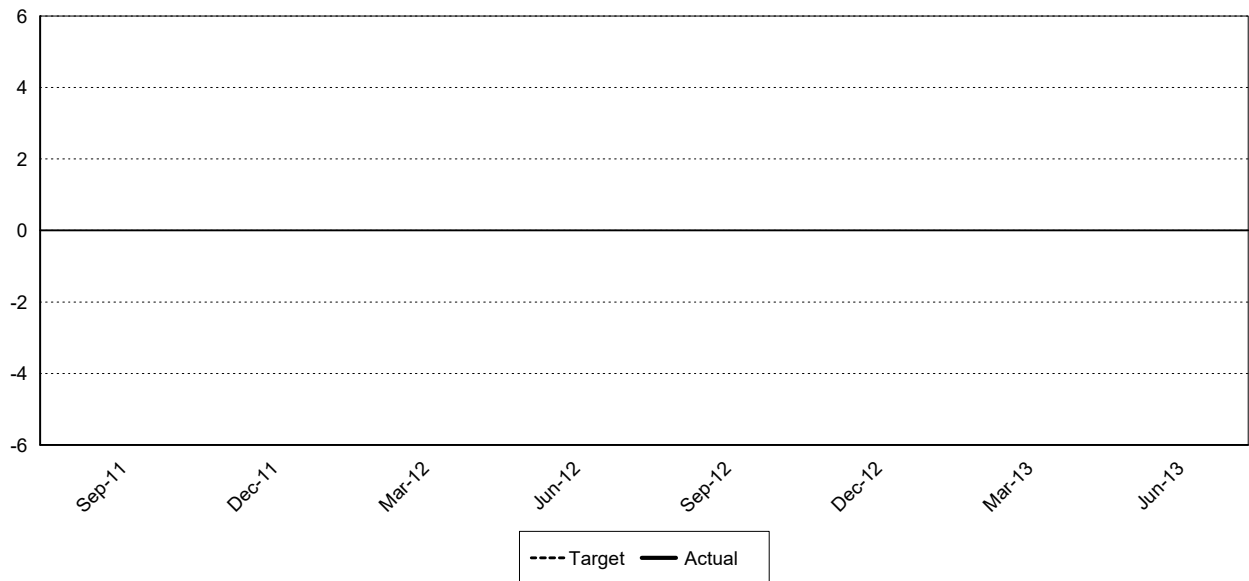
Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

001460 Percentage of Puget Sound and coastal training workshop participants who intend to apply what they learned.			
Biennium	Period	Actual	Target
2019-21	Q8		93%
	Q7		93%
	Q6		93%
	Q5		93%
	Q4		93%
	Q3		93%
	Q2	97%	93%
	Q1	94%	93%
2017-19	Q8	95%	93%
	Q7	96%	93%
	Q6	97%	93%
	Q5	100%	93%
	Q4	95%	93%
	Q3	94%	93%
	Q2	99%	93%
	Q1	97%	93%
2015-17	Q8	96%	93%
	Q7	94%	93%
	Q6	94%	93%
	Q5	97%	93%
	Q4	97%	93%
	Q3	96%	93%
	Q2	91%	93%
	Q1	98%	93%

Percent **001460 - Percent Puget Sound and coastal training workshop participants who intend to apply what they learned**



Number 001655 - Refer to Above Narrative Justification and Impact Statement



A043 Provide Water Quality Financial Assistance

Ecology provides grants, low-interest loans, and technical assistance to local governments, state agencies, and tribes to enable them to build, upgrade, repair, or replace facilities to improve and protect water quality. This includes meeting the state's obligation to manage the Water Pollution Control Revolving Fund in perpetuity. Ecology also funds nonpoint-source control projects such as watershed planning, stormwater management, freshwater aquatic weed management, education, and agricultural best management practices. Grants are targeted to nonpoint-source problems and communities where needed wastewater facilities projects would be a financial hardship for taxpayers. Local governments use loans for both point and nonpoint-source water pollution prevention and correction projects. Ecology coordinates grant and loan assistance with other state and federal funding agencies.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	50.3	48.3	49.3
10A Aquatic Algae Control Account			
10A-1 State	\$244,000	\$274,000	\$518,000
222 Freshwater Aquatic Weeds Account			
222-1 State	\$527,000	\$653,000	\$1,180,000
001 General Fund			
001-2 Federal	\$12,874,000	\$9,151,000	\$22,025,000
23P Model Toxics Control Operating Account			
23P-1 State	\$6,862,000	\$6,591,000	\$13,453,000
564 Water Pollution Control Revol Admin			
564-1 State	\$1,723,000	\$1,765,000	\$3,488,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

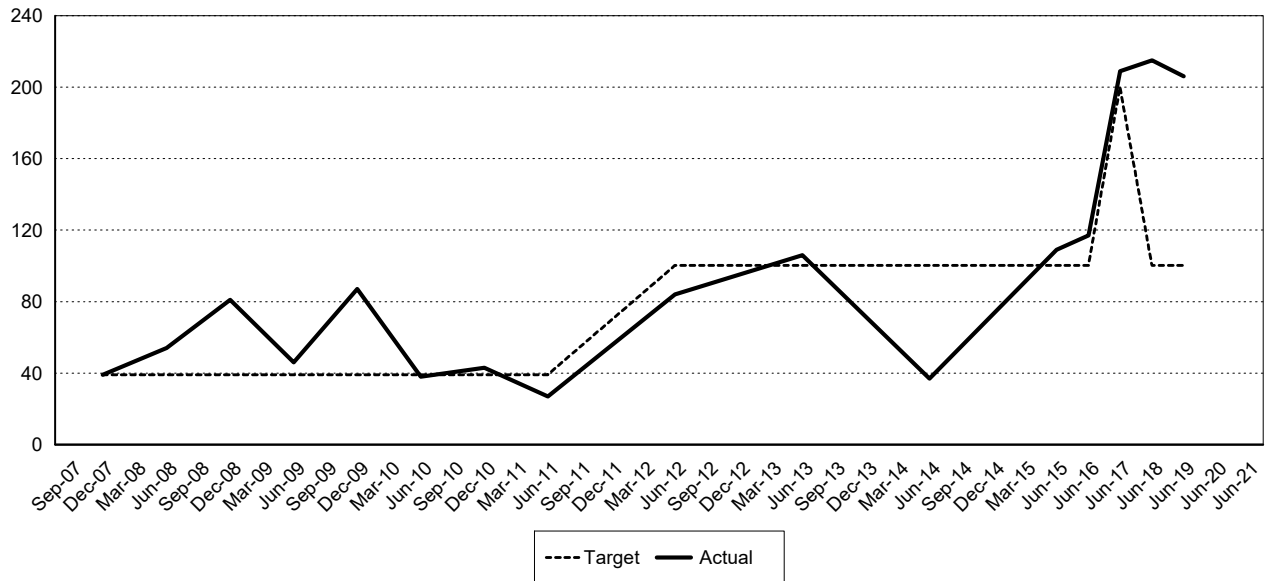
Expected Results

- Public funds dedicated to improving water quality are managed responsibly to protect public health and the environment.
- Water quality is improved by awarding about \$75 million in water quality grants and loans per year to local communities.
- About 60 new grants and loans are awarded each year for projects under existing and on going financial assistance programs that demonstrate clear benefits for the environment.
- Additional grants are awarded each year for stormwater projects, based on newly appropriated funds.
- Approximately 350 existing grants and loans are managed each year.
- Local governments get support through implementing revised grant and loan program rules that address updated water quality needs, the State Revolving Fund loan program perpetuity, balanced funding allocations, and design build alternative contracting options.
- Environmental benefits are documented and illustrated through data generated from grants and loans.

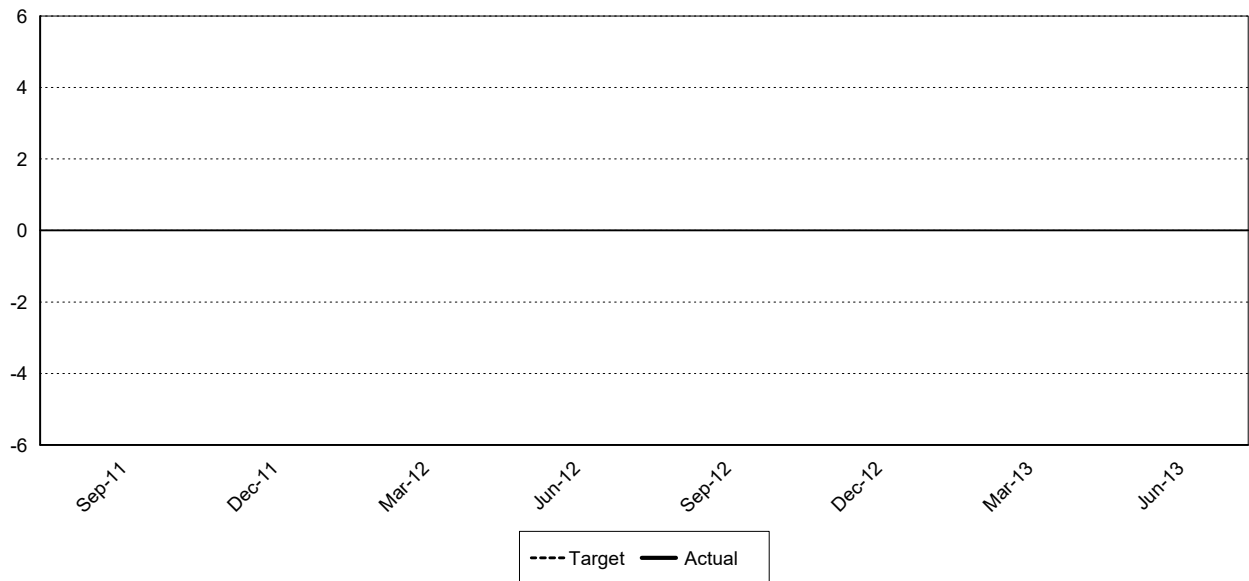
Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

001564 Number of funded on-site sewage system repairs or replacements completed in Puget Sound counties.			
Biennium	Period	Actual	Target
2019-21	A3		
	A2		
2017-19	A3	206	100
	A2	215	100
2015-17	A3	209	200
	A2	117	100

Number **001564 - Number of funded on-site sewage system repairs or replacements completed in Puget Sound counties**



Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

Number 001655 - Refer to Above Narrative Justification and Impact Statement**A044 Provide Water Resources Data and Information**

The collection, management, and sharing of data and information is critical to modern water management. It is essential to local watershed groups, conservancy boards, businesses, local governments, nonprofit groups, the Legislature, other agencies, and the media. It supports daily agency operations, including making water allocation decisions; setting and achieving stream flows; identifying the location and characteristics of wells, dams, and water diversions; supporting compliance actions; metering; tracking progress; communicating with constituents; and serving other water resource functions.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	32.8	32.6	32.7
116 Basic Data Account			
116-6 Non-Appropriated	\$85,000	\$85,000	\$170,000
001 General Fund			
001-1 State	\$3,860,000	\$4,071,000	\$7,931,000
489 Pension Funding Stabilization Account			
489-1 State	\$272,000	\$271,000	\$543,000
027 Reclamation Account			
027-1 State	\$525,000	\$532,000	\$1,057,000
10G Water Rights Tracking System Account			
10G-1 State	\$21,000	\$27,000	\$48,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Achieve sustainable use of public natural resources

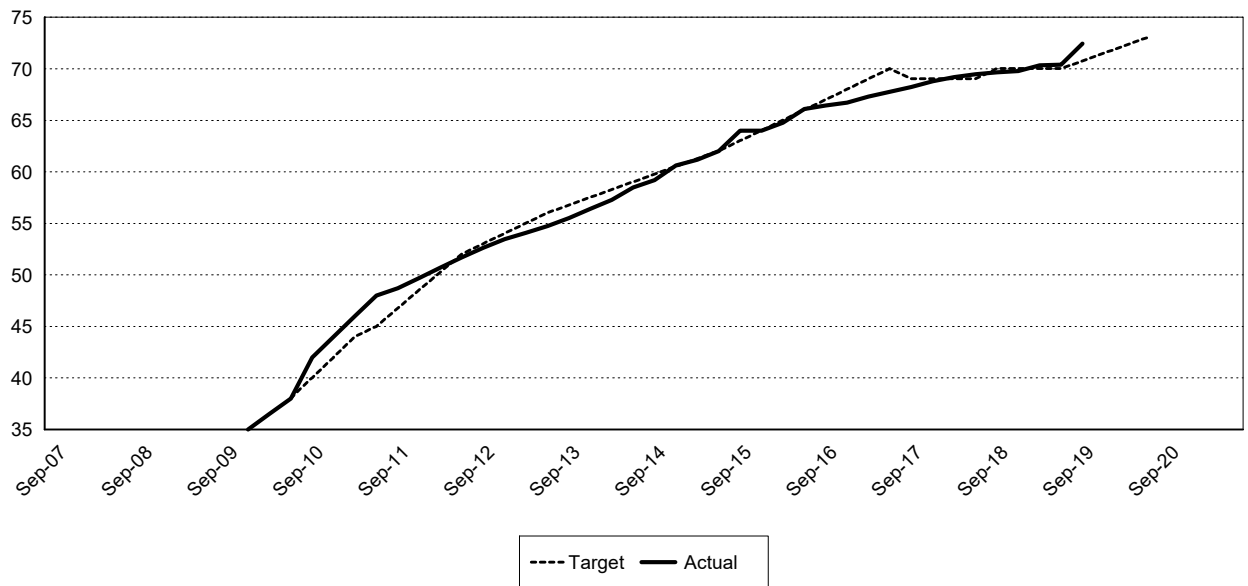
Expected Results

- Sound water management is supported.
- Improved agreement and more informed water resources decisions are based on increasingly timely and accurate data and improved public access to information.
- Data and information systems are developed and maintained by increasing the numbers of external users (watershed groups, conservancy boards, businesses, etc.).
- Improved collection, preservation, and availability of data and information for water allocation, dam safety, well construction, instream flows, and communication.

001579 Percentage of water rights mapping completed statewide.			
Biennium	Period	Actual	Target
2019-21	Q8		
	Q7		
	Q6		
	Q5		
	Q4		73%
	Q3		
	Q2		
	Q1	72.44%	
2017-19	Q8	70.4%	70%
	Q7	70.33%	70%
	Q6	69.79%	70%
	Q5	69.66%	70%
	Q4	69.47%	69%
	Q3	69.19%	69%
	Q2	68.79%	69%
	Q1	68.23%	69%
2015-17	Q8	67.77%	70%
	Q7	67.32%	69%
	Q6	66.71%	68%
	Q5	66.45%	67%
	Q4	66.09%	66%
	Q3	64.76%	65%
	Q2	64%	64%
	Q1	64%	63%

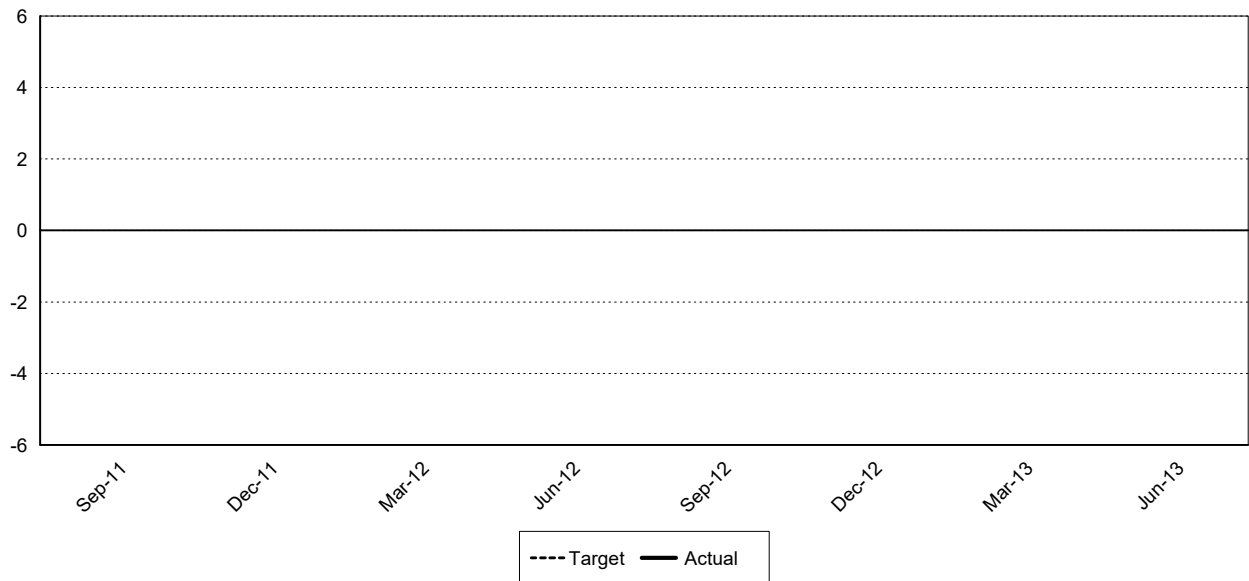
Percent

001579 - Percentage of water rights mapping completed statewide



Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

Number 001655 - Refer to Above Narrative Justification and Impact Statement



A045 Reduce Air Pollution from Industrial and Commercial Sources

Ecology issues permits, conducts inspections, and assures compliance with state and federal air quality requirements for new and existing industrial and commercial facilities that emit significant levels of air pollution. The agency also provides permit application assistance, technical assistance, rule interpretation, and permit review.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	19.5	20.2	19.9
219 Air Operating Permit Account			
219-1 State	\$1,086,000	\$1,065,000	\$2,151,000
216 Air Pollution Control Account			
216-1 State	\$1,071,000	\$965,000	\$2,036,000
23P Model Toxics Control Operating Account			
23P-1 State	\$610,000	\$683,000	\$1,293,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

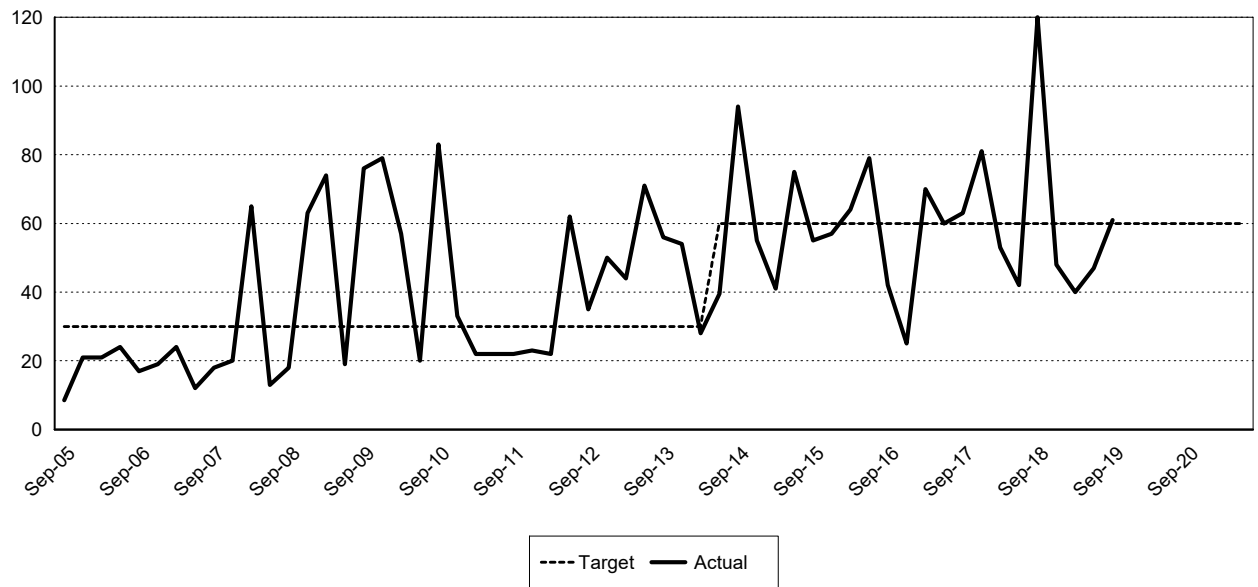
Expected Results

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

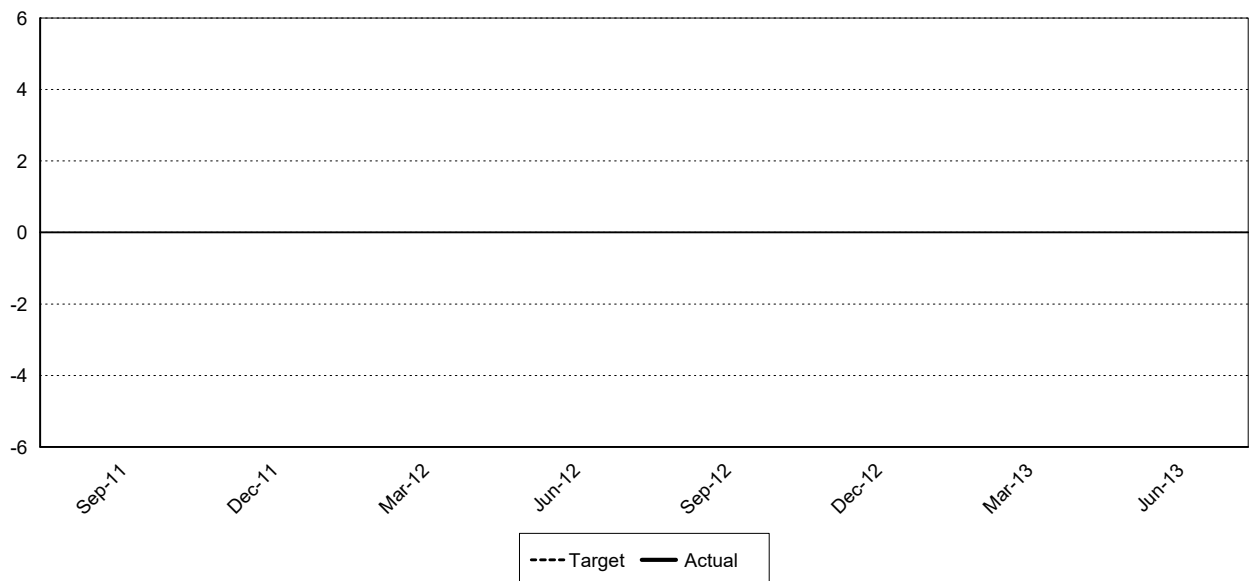
- The average number of days it takes to process Notice of Construction permit applications decreases so air pollution from industrial and commercial sources are controlled to protect public health while maintaining economic vitality.
- The regulated community is certain about the need, content, and time frames for permits so businesses are informed about their role in protecting and enhancing air quality.
- Ecology and local air pollution control agencies retain delegation and local control of federal permit programs so the state can continue to protect public health and the environment.
- Permits are conditioned and approved so all federal and state laws are met and public health, air quality, and the environment are protected.
- Industrial and commercial sources of air pollution are inspected so permit conditions are met and so ongoing operations do not jeopardize public health.

000994 Average number of days it takes to process Notice of Construction permit applications			
Biennium	Period	Actual	Target
2019-21	Q8		60
	Q7		60
	Q6		60
	Q5		60
	Q4		60
	Q3		60
	Q2		60
	Q1	61	60
2017-19	Q8	47	60
	Q7	40	60
	Q6	48	60
	Q5	120	60
	Q4	42	60
	Q3	53	60
	Q2	81	60
	Q1	63	60
2015-17	Q8	60	60
	Q7	70	60
	Q6	25	60
	Q5	42	60
	Q4	79	60
	Q3	64	60
	Q2	57	60
	Q1	55	60

Number **000994 - Average number of days it takes to process Notice of Construction permit applications**



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Number 001655 - Refer to Above Narrative Justification and Impact Statement**A047 Reduce Health and Environmental Threats from Motor Vehicle Emissions**

Cars, trucks, construction equipment, locomotives, and marine vessels are responsible for over 60 percent of Washington's air pollution. More than half of Washington's residents have at least one medical condition that is made worse by air pollution. To protect public health and the environment from motor vehicle pollution, Ecology:

- Implements Washington's Clean Car standards.
- Promotes transportation alternatives and cleaner motor vehicles and fuels through voluntary, regulatory, and incentive programs.
- Replaces or retrofits school buses and other diesel engines to reduce exposure to toxic diesel emissions.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	14.0	8.1	11.1
001 General Fund			
001-2 Federal	\$284,000	\$277,000	\$561,000
23P Model Toxics Control Operating Account			
23P-1 State	\$2,120,000	\$1,088,000	\$3,208,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

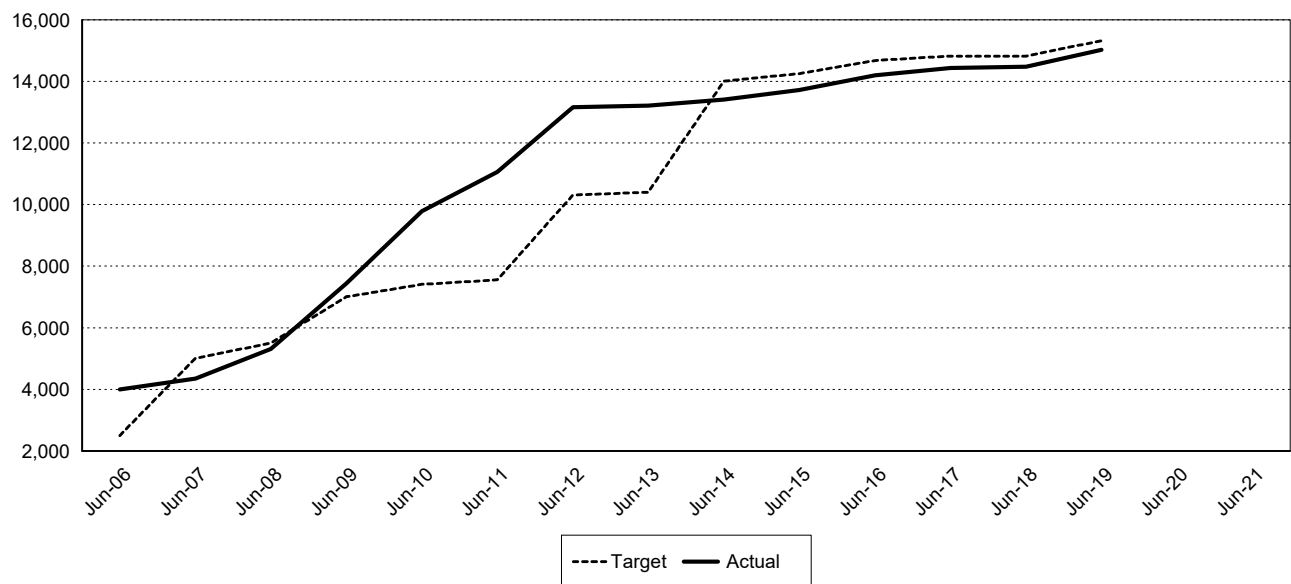
Expected Results

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

- Air pollution emissions from motor vehicles produced statewide decreases five percent each year so public health and the environment are protected.
- Diesel school buses, public fleet engines, and appropriate private sector engines, in high diesel exhaust exposure areas (near schools, health centers, and around truck stops) are replaced with cleaner options or upgraded with better exhaust controls and idle reduction devices so the amount of diesel particulate emissions produced statewide decreases per year.
- Additional strategies to reduce engine idling in high-exposure areas are developed and implemented so exposure to toxic diesel emissions continues to decrease.
- The Emissions Check Program is successfully concluded at the end of 2019 pursuant to RCW 70.120.170(6) - Motor vehicle emission inspections.

000992 Number of diesel engines (school buses and public and private sector equipment) retrofitted with pollution control equipment to reduce toxic diesel emissions.			
Biennium	Period	Actual	Target
2019-21	A3		
	A2		
2017-19	A3	15,023	15,315
	A2	14,479	14,815
2015-17	A3	14,439	14,815
	A2	14,199	14,670

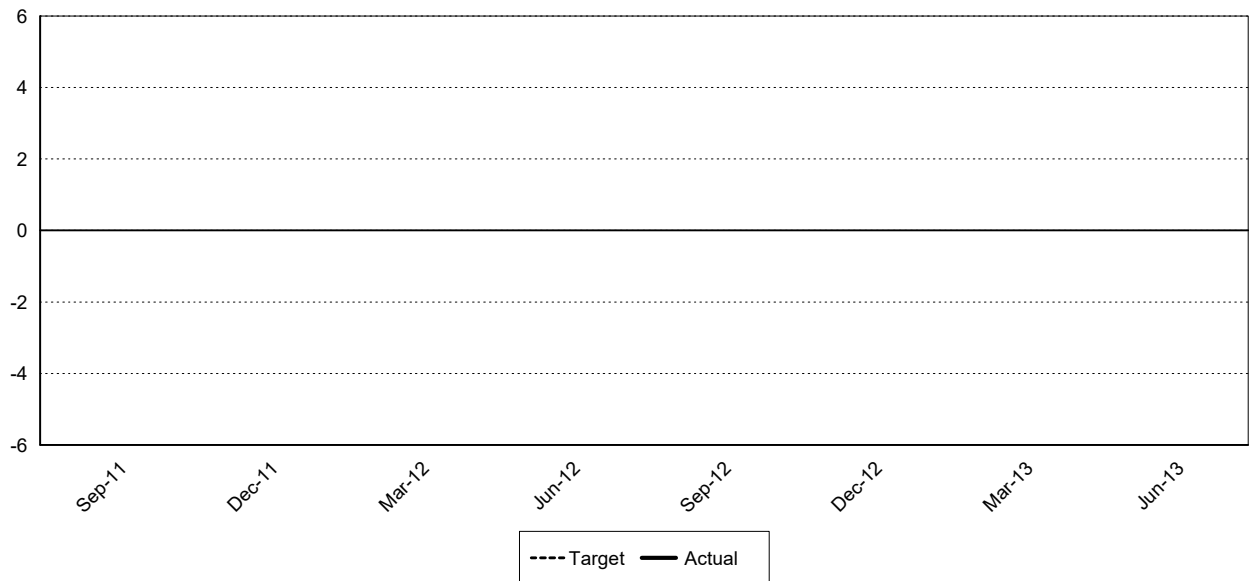
Number **000992 - Number of diesel engines retrofitted with pollution control equipment**



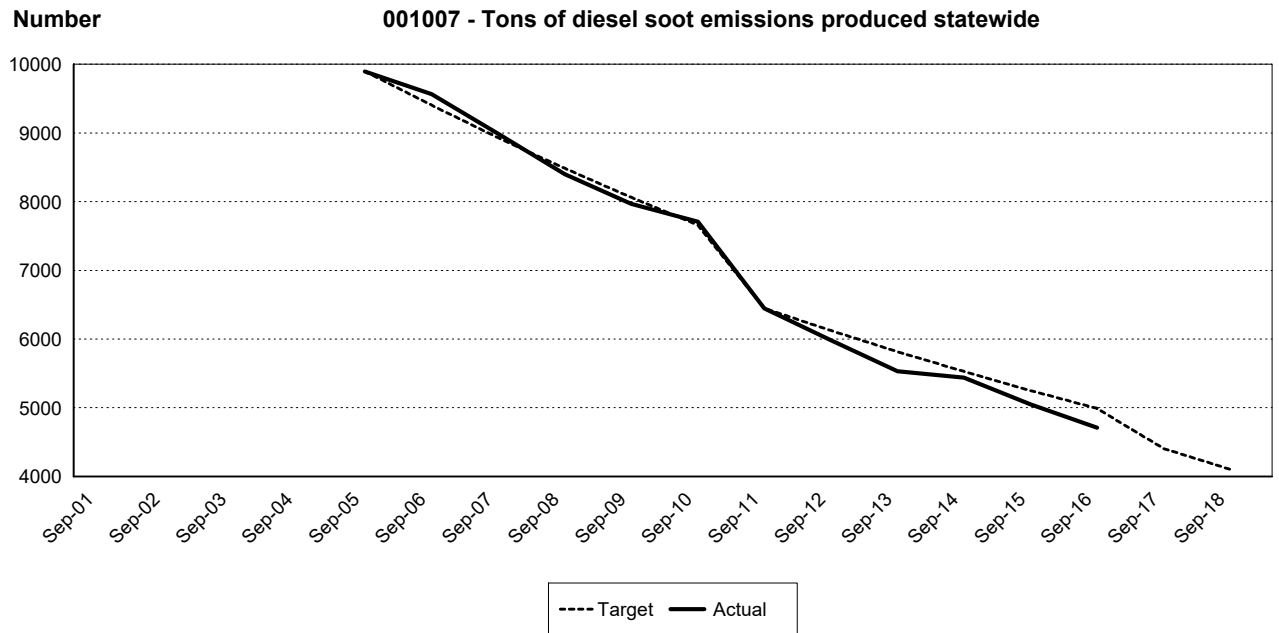
Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

Number

001655 - Refer to Above Narrative Justification and Impact Statement

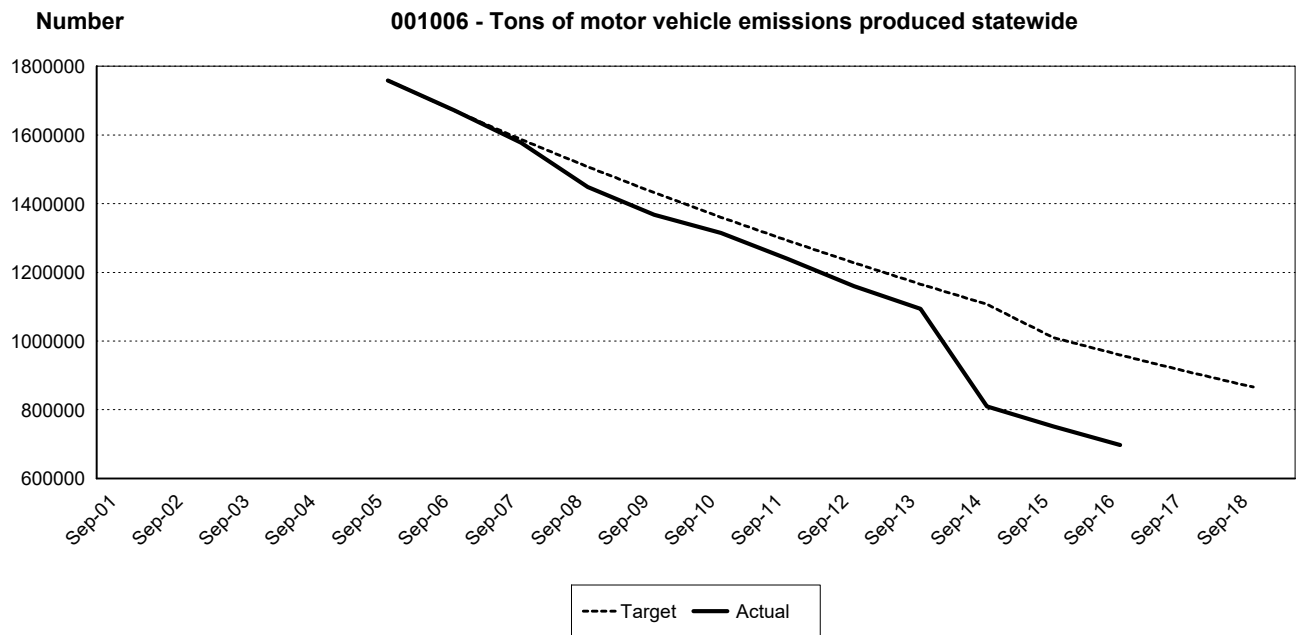


001007 Tons of diesel soot emissions produced statewide.			
Biennium	Period	Actual	Target
2017-19	A3		
	A3		
	A2		
	A2		
	A2		
	A2		4,100
	A1		
	A1		4,400
2015-17	A3		
	A3		
	A2		
	A2		
	A2		
	A2	4,708	4,987
	A1		
	A1	5,050	5,249



Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

001006 Tons of motor vehicle emissions produced statewide.			
Biennium	Period	Actual	Target
2017-19	A3		
	A3		
	A2		
	A2		
	A2		
	A2		865,526
	A1		
	A1		911,080
2015-17	A3		
	A3		
	A2		
	A2		
	A2		
	A2	697,155	959,032
	A1		
	A1	750,595	1,009,508



A048 Reduce Health and Environmental Threats from Smoke

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

The two leading sources of smoke during the non-wildfire season (October – May) in Washington communities are outdoor burning and wood-burning for residential heat.

To address smoke from outdoor burning, Ecology:

- Issues conditioned permits for agricultural, land clearing, fire training, and other outdoor burning, where required by law.
- Produces daily burn forecasts; responds to and resolves complaints related to smoke.
- Provides technical assistance to manage and prevent outdoor burning impacts.
- Through technical assistance, research, and demonstration projects, promotes development and use of practical alternatives to burning.

To address smoke from residential wood heating, Ecology:

- Coordinates burn curtailments.
- Conducts wood stove change out programs.
- Sets strict emission limits for new stoves.
- Promotes development of clean burning technologies.
- Coordinates with the Environmental Protection Agency on standards for residential home heating appliances.
- Assists communities, local health organizations, and fire suppression agencies with health impact messaging and recommendations during large-scale wildfire events.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	16.0	15.8	15.9
216 Air Pollution Control Account			
216-1 State	\$369,000	\$387,000	\$756,000
23P Model Toxics Control Operating Account			
23P-1 State	\$1,265,000	\$1,260,000	\$2,525,000
160 Wood Stove Education and Enforcement Account			
160-1 State	\$277,000	\$270,000	\$547,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

Expected Results

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

- The number of residents exposed to air quality that does not meet healthy levels for fine particles decreases per year so human health is protected.
- The number of times fine particle pollution is measured above a "healthy" level decreases per year so air quality levels are sufficient to protect human health.
- The cumulative number of woodstoves replaced with cleaner burning technologies increase per quarter so the risk for respiratory illnesses is reduced.
- Public health threats from smoke are managed and minimized.
- Outdoor burning permit and smoke management systems are improved and streamlined.
- Local burning permit programs are audited to ensure effective and efficient operation.
- Practical alternatives and best management practices for burning are developed and used.

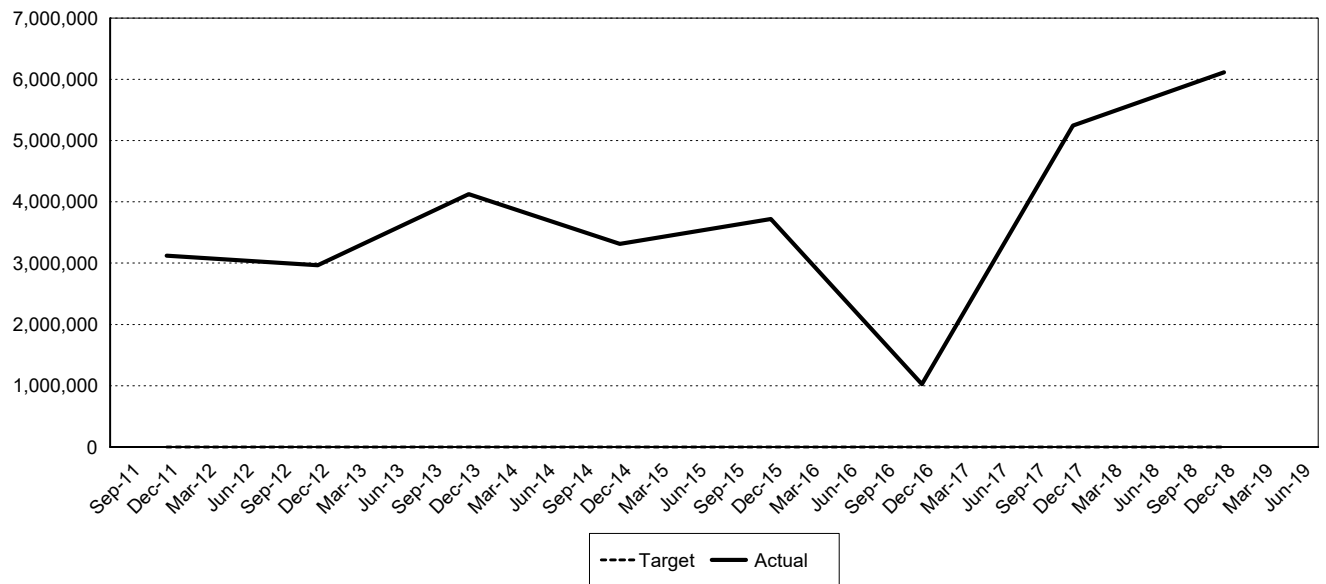
Wood stove emissions are reduced through:

- Creating and implementing a proper burning outreach campaign.
- Effective burning curtailments.
- Change-out of uncertified wood stoves.

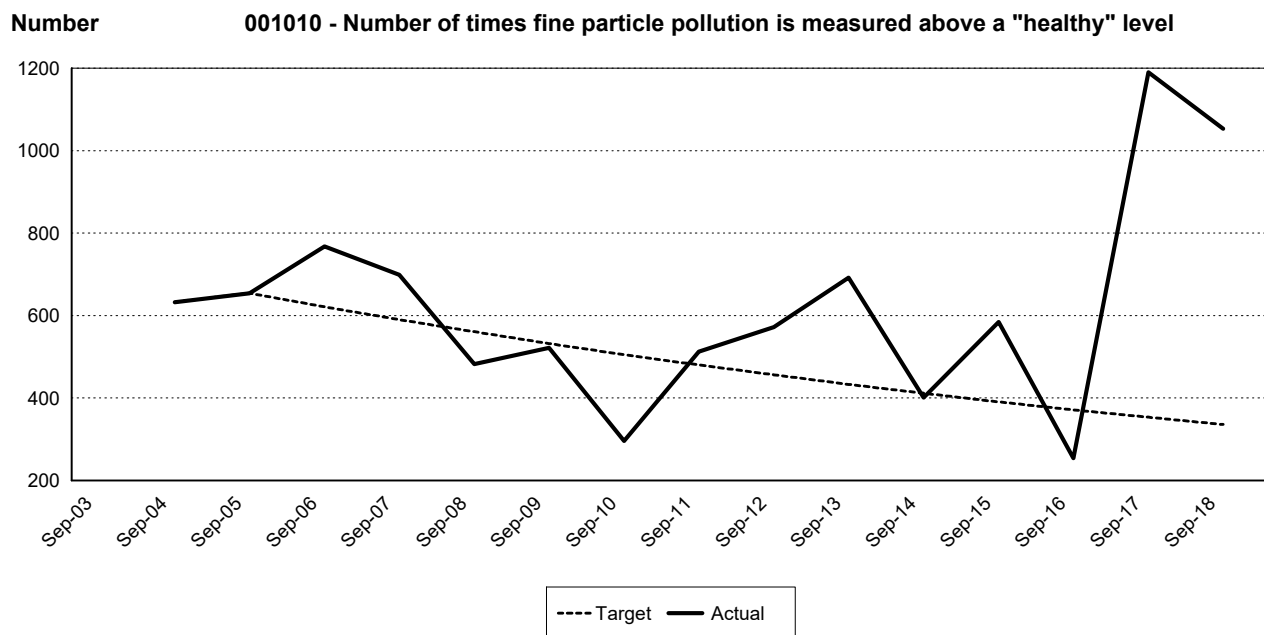
002824 This is the estimated number of people exposed to air quality that does not meet "healthy" levels for fine particle pollution in monitored areas.			
Biennium	Period	Actual	Target
2017-19	A3		
	A3		
	A2		
	A2		
	A2	6,111,876	0
	A1		
	A1	5,246,210	0
2015-17	A3		
	A3		
	A2		
	A2		
	A2	1,025,727	0
	A1		
	A1	3,722,699	0

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Number 002824 - Number of citizens exposed to air quality that does not meet healthy levels for fine particles



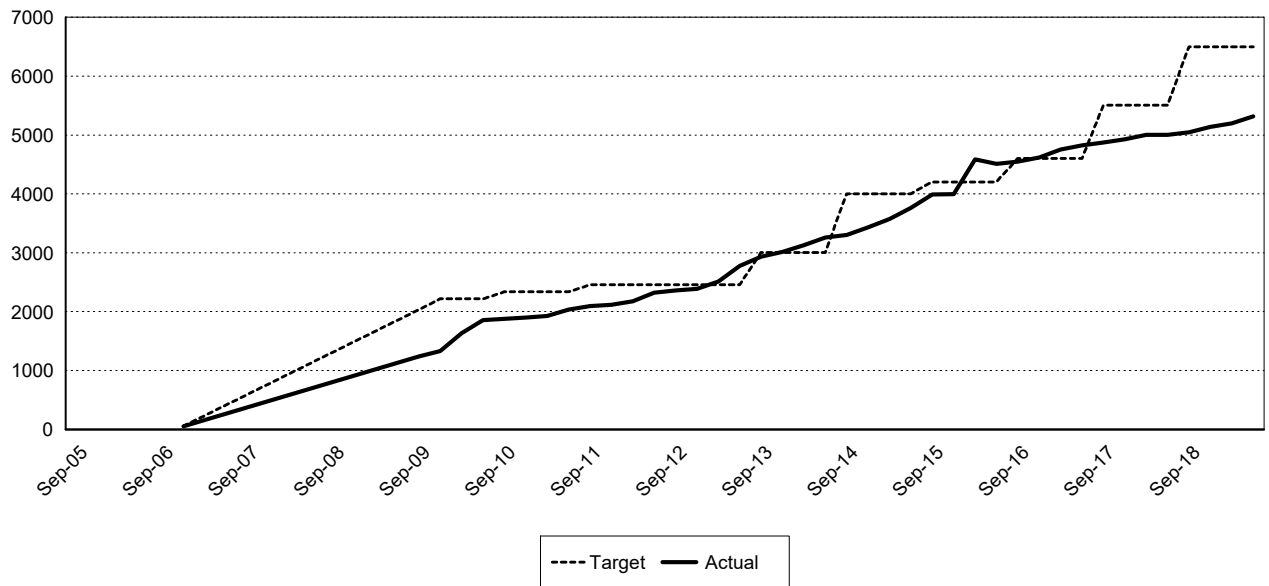
001010 Number of times fine particle pollution is measured above a "healthy" level.			
Biennium	Period	Actual	Target
2017-19	A3		
	A3		
	A2		
	A2		
	A2		
	A2	1,053	335
	A1		
	A1	1,190	353
2015-17	A3		
	A3		
	A2		
	A2		
	A2		
	A2	254	371
	A1		
	A1	584	390



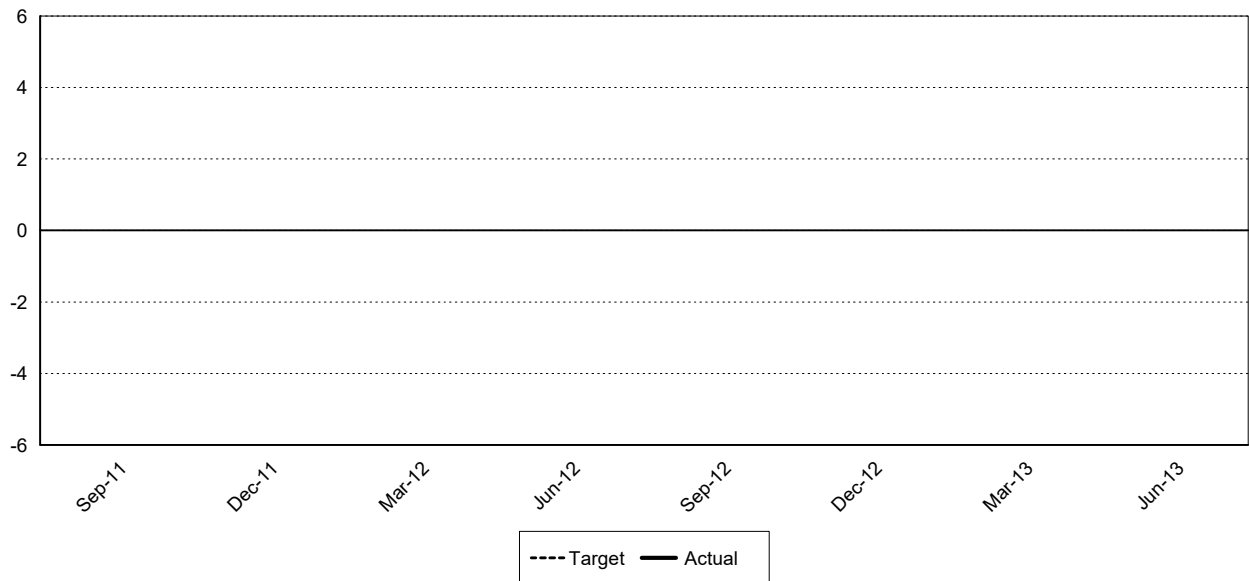
Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

001003 Number of woodstoves replaced with cleaner burning technologies.			
Biennium	Period	Actual	Target
2017-19	Q8	5,319	6,500
	Q7	5,200	6,500
	Q6	5,139	6,500
	Q5	5,047	6,500
	Q4	5,003	5,500
	Q3	5,003	5,500
	Q2	4,930	5,500
	Q1	4,872	5,500
2015-17	Q8	4,827	4,600
	Q7	4,754	4,600
	Q6	4,619	4,600
	Q5	4,546	4,600
	Q4	4,511	4,200
	Q3	4,585	4,200
	Q2	3,994	4,200
	Q1	3,988	4,200

Number **001003 - Number of woodstoves replaced with cleaner burning technologies.**



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Number 001655 - Refer to Above Narrative Justification and Impact Statement**A049 Reduce Nonpoint-Source Water Pollution**

Nonpoint-source pollution (polluted runoff) is the leading cause of water pollution and poses a major health and economic threat. Types of nonpoint pollution include fecal coliform bacteria, elevated water temperature, pesticides, sediments, and nutrients. Sources of pollution include agriculture, forestry, urban and rural runoff, recreation, hydrologic modification, and loss of aquatic ecosystems. Ecology addresses these problems through raising awareness; encouraging community action; providing funding; and supporting local decision makers. The agency also coordinates with other stakeholders through the Washington State Nonpoint Workgroup, the Forest Practices Technical Assistance group, and the Agricultural Technical Assistance group.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	34.1	32.7	33.4
001 General Fund			
001-1 State	\$338,000	\$348,000	\$686,000
001-2 Federal	\$2,004,000	\$1,995,000	\$3,999,000
001 Account Total	\$2,342,000	\$2,343,000	\$4,685,000
23P Model Toxics Control Operating Account			
23P-1 State	\$1,177,000	\$964,000	\$2,141,000
027 Reclamation Account			
027-1 State	\$617,000	\$621,000	\$1,238,000

Statewide Result Area: Sustainable Energy and a Clean Environment

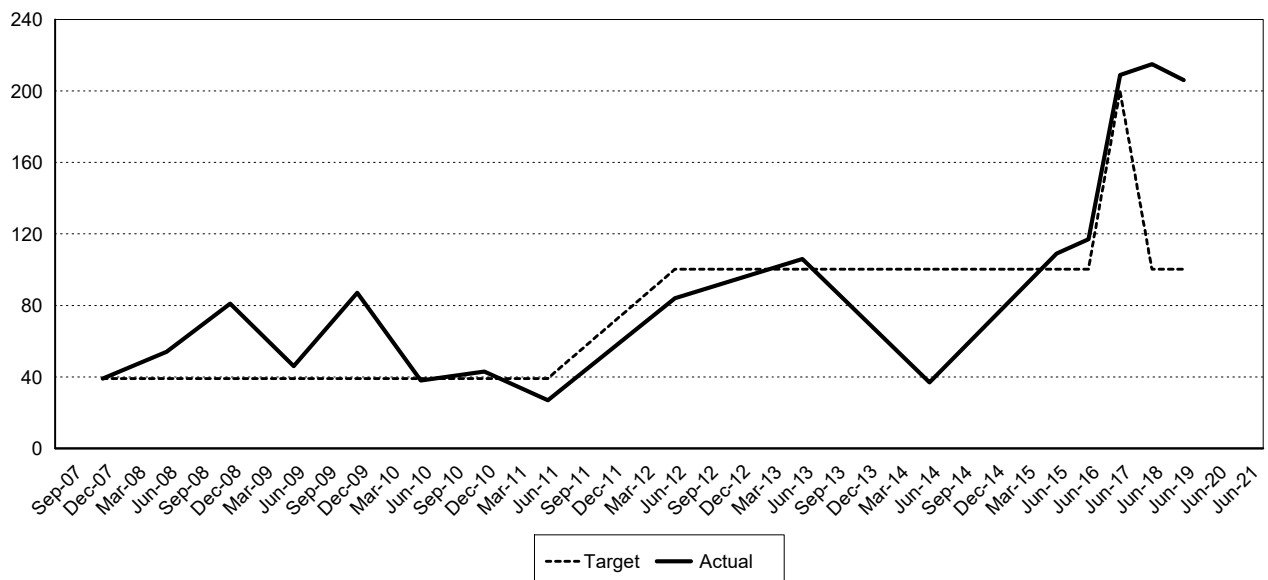
Statewide Strategy: **Establish safeguards and standards to prevent and manage pollution**

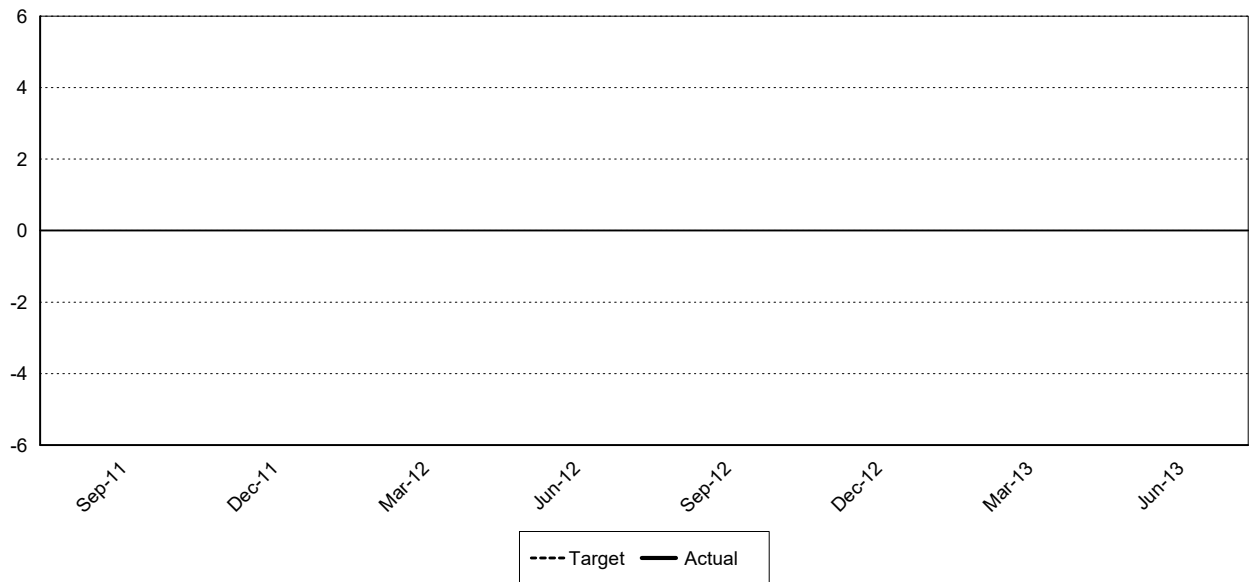
Expected Results

- Protection of surface and groundwater is improved through community implementation of the state's Water Quality Management Plan to Control Nonpoint Pollution and water quality improvement reports.
- Local communities and groups get help from Ecology to implement water quality improvement reports and other strategies to clean up polluted waters.
- The Department of Natural Resources and the forestry industry get help to manage 12 million acres of state owned and privately owned forests.
- The Department of Agriculture gets help to manage water quality problems generated by agricultural uses.
- Best management practices necessary to address non point pollution problems are implemented.
- State and federal grants are available to, and used efficiently by, local governments.
- The number of stream miles restored or protected is increased through work with local communities and other agencies.

001564 Number of funded on-site sewage system repairs or replacements completed in Puget Sound counties.			
Biennium	Period	Actual	Target
2019-21	A3		
	A2		
2017-19	A3	206	100
	A2	215	100
2015-17	A3	209	200
	A2	117	100

Number **001564 - Number of funded on-site sewage system repairs or replacements completed in Puget Sound counties**



Number 001655 - Refer to Above Narrative Justification and Impact Statement

A052 Reduce the Generation of Hazardous Waste and the Use of Toxic Substances through Technical Assistanc

The state Hazardous Waste Reduction Act calls for the reduction of hazardous waste generation and the use of toxic substances and requires certain businesses to prepare plans for voluntary reduction. Staff provide on-site assistance through innovative programs designed to reduce the use of source and waste generation reduction. In addition, the agency focuses on improvements in industries that have the highest rate of waste generation and non-compliance to help them achieve energy savings, water conservation, and reduced hazardous waste production. Reducing the use of toxic chemicals in commerce reduces the generation of hazardous waste, minimizes disposal costs, reduces the need for clean-up, minimizes public exposure, and saves businesses money.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	20.6	20.8	20.7
001 General Fund			
001-2 Federal	\$233,000	\$365,000	\$598,000
207 Hazardous Waste Assistance Account			
207-1 State	\$1,419,000	\$1,442,000	\$2,861,000
23P Model Toxics Control Operating Account			
23P-1 State	\$973,000	\$1,092,000	\$2,065,000

Statewide Result Area: Sustainable Energy and a Clean Environment

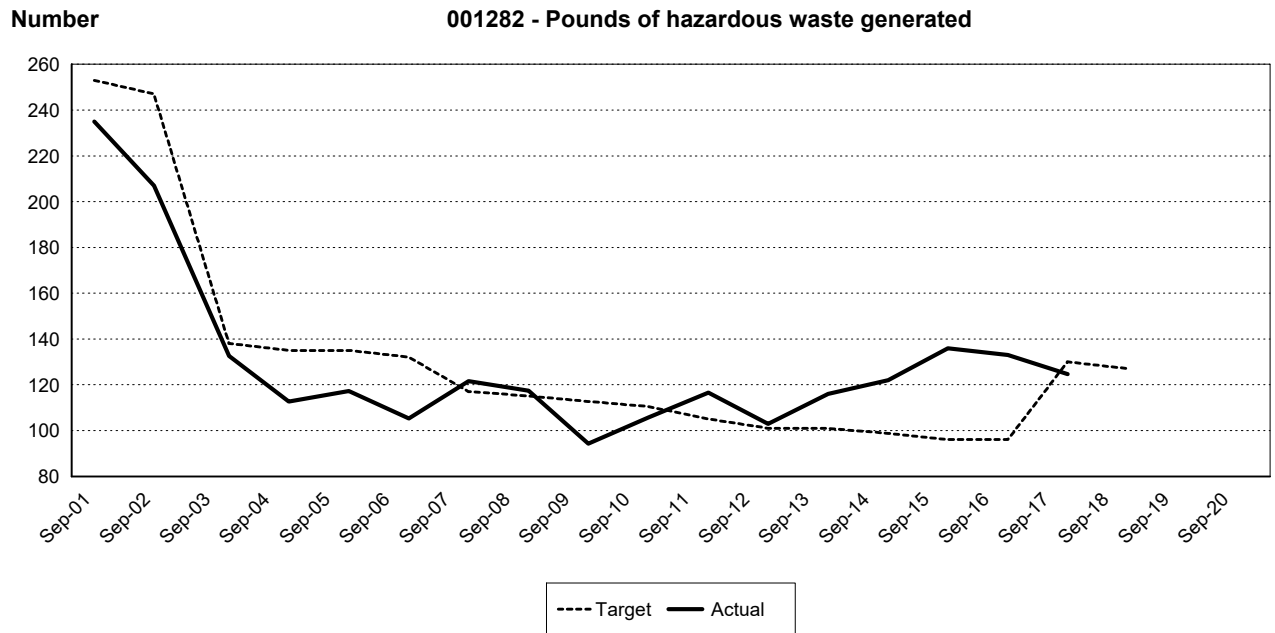
Statewide Strategy: **Establish safeguards and standards to prevent and manage pollution**

Expected Results

Hazardous waste generation is reduced by two percent each year (approximately 5 million pounds), resulting in clean up and disposal cost savings for businesses, reduced public exposure, and fewer cleanups. This is accomplished through:

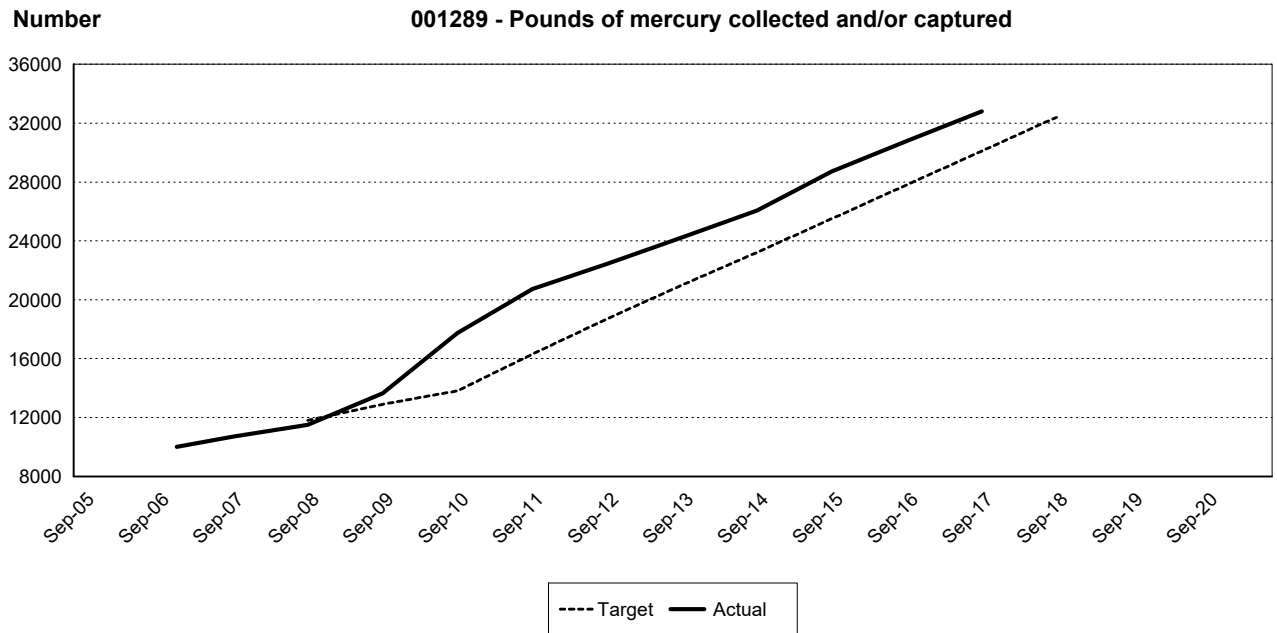
- Completing nearly 500 toxics related technical assistance visits to businesses each year.
- Reviewing the majority of the pollution prevention plans (approximately 450) submitted by businesses and facilities each year.
- Tracking the number of pollution prevention opportunities and dollars saved by businesses implementing their pollution prevention plans.
- Conducting two or four comprehensive engineering or Lean based technical assistance projects with businesses each year.
- Promoting safer alternatives to the use of toxics by businesses in Washington State.

001282 Annual pounds of hazardous waste generated (in millions).			
Biennium	Period	Actual	Target
2019-21	A3		
	A3		
	A2		
	A2		
	A2		
	A2		
	A1		
	A1		
2017-19	A3		127
	A3		
	A2	124.7	130
	A2		
	A2		
	A2		
	A1		
	A1		
2015-17	A3	133	96
	A3		
	A2	136	96
	A2		
	A2		
	A2		
	A1		
	A1		



Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

001289 Cumulative pounds of mercury collected and/or captured while implementing Ecology's mercury chemical action plan (measured once annually).			
Biennium	Period	Actual	Target
2019-21	Q8		
	Q7		
	Q6		
	Q5		
	Q4		
	Q3		
	Q2		
	Q1		
2017-19	Q8		
	Q7		
	Q6		
	Q5		32,400
	Q4		
	Q3		
	Q2		
	Q1	32,812	30,100
2015-17	Q8		
	Q7		
	Q6		
	Q5	30,787	27,800
	Q4		
	Q3		
	Q2		
	Q1	28,722	25,500

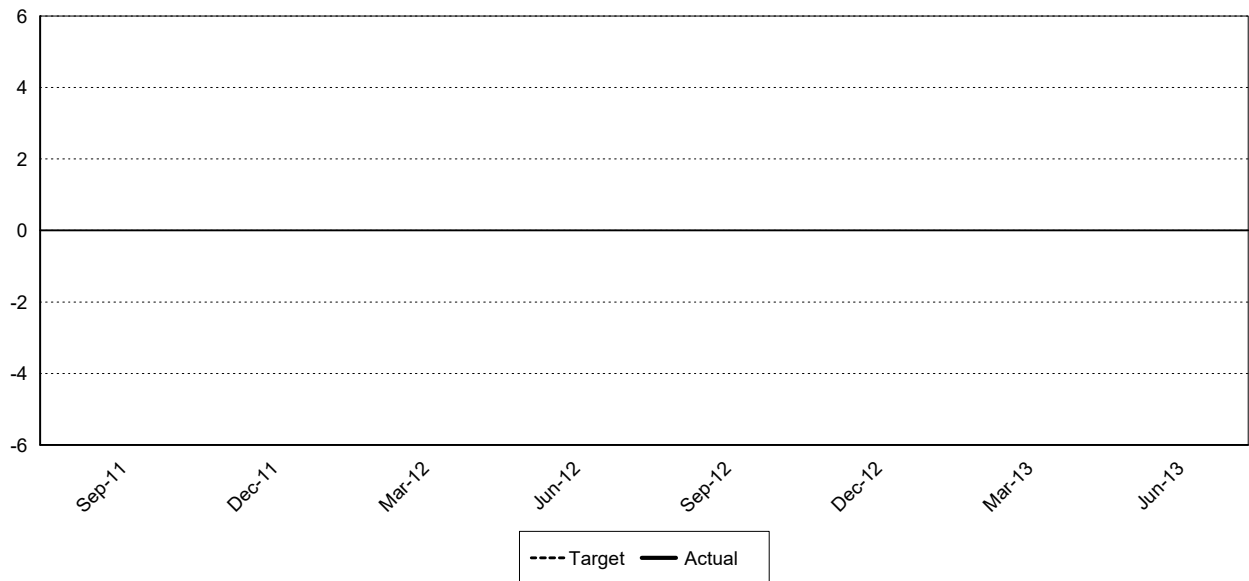


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Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

Number

001655 - Refer to Above Narrative Justification and Impact Statement



A053 Regulate Well Construction

The agency protects consumers, well drillers, and the environment by licensing and regulating well drillers, investigating complaints, approving variances from construction standards, and providing continuing education to well drillers. The work is accomplished in partnership with delegated counties. It delivers technical assistance to homeowners, well drillers, tribes, and local governments.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	6.8	6.8	6.8
001 General Fund			
001-1 State	\$166,000	\$144,000	\$310,000
489 Pension Funding Stabilization Account			
489-1 State	\$64,000	\$64,000	\$128,000
027 Reclamation Account			
027-1 State	\$880,000	\$902,000	\$1,782,000

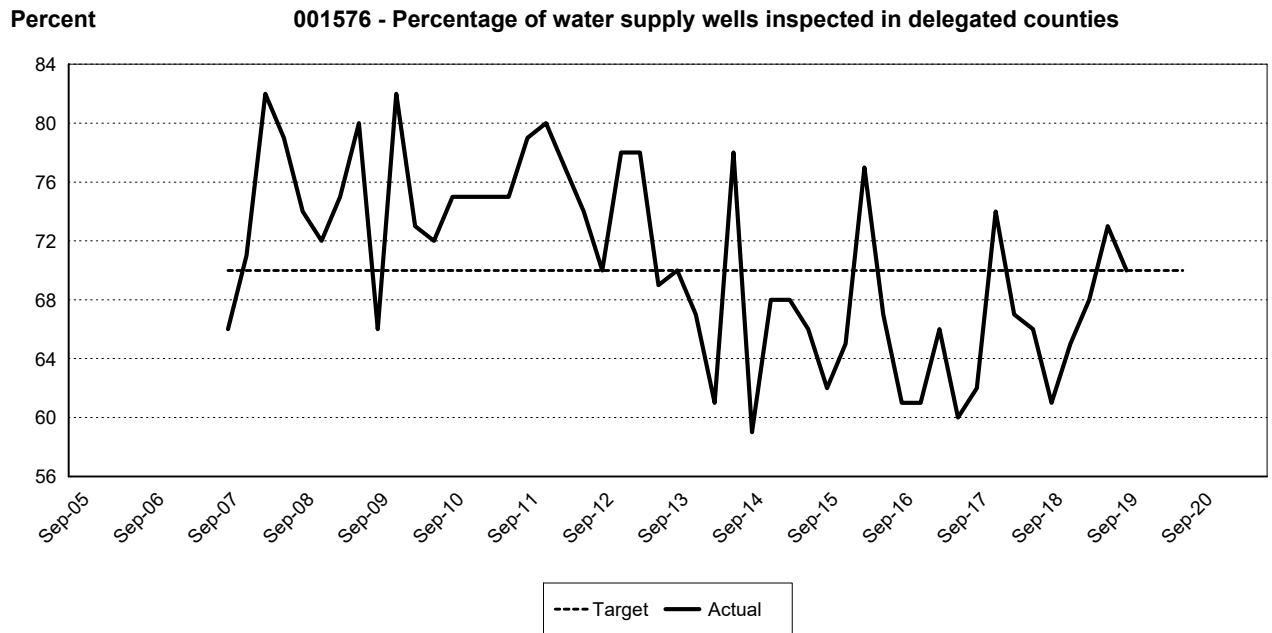
Statewide Result Area: **Healthy and Safe Communities**
 Statewide Strategy: **Mitigate environmental hazards**

Expected Results

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

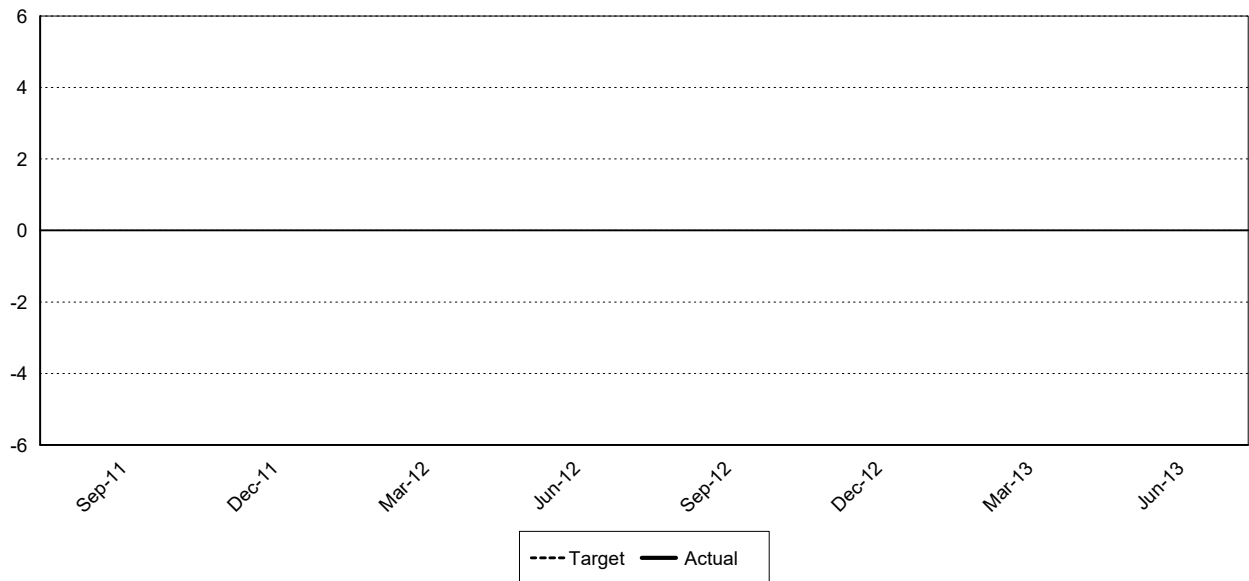
- Public and environmental health and safety is protected.
- Improved protection of consumers, well drillers, and the environment.
- Well drillers get licensing and training services.
- Well drilling is regulated.

001576 Percentage of water supply wells inspected in delegated counties			
Biennium	Period	Actual	Target
2019-21	Q8		
	Q7		
	Q6		
	Q5		
	Q4		70%
	Q3		70%
	Q2		70%
	Q1	70%	70%
2017-19	Q8	73%	70%
	Q7	68%	70%
	Q6	65%	70%
	Q5	61%	70%
	Q4	66%	70%
	Q3	67%	70%
	Q2	74%	70%
	Q1	62%	70%
2015-17	Q8	60%	70%
	Q7	66%	70%
	Q6	61%	70%
	Q5	61%	70%
	Q4	67%	70%
	Q3	77%	70%
	Q2	65%	70%
	Q1	62%	70%



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Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

Number 001655 - Refer to Above Narrative Justification and Impact Statement**A054 Rapidly Respond to and Clean Up Oil and Hazardous Material Spills**

This activity ensures Ecology and its partners respond to spills in a rapid, aggressive, and well coordinated manner to ensure impacts to the environment are minimized. Spill response capability is maintained 24 hours a day and seven days a week statewide. This includes ensuring the safety of the public and emergency responders, performing cleanup and oversight of cleanup activities, coordinating wildlife rescue and rehabilitation activities, providing timely information to the public and stakeholders about response activities, and implementing protection strategies to minimize impacts to Washington's environmental, cultural and economic resources. Enforcement actions are issued based on results of incident investigations.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	39.6	39.8	39.7
001 General Fund			
001-7 Private/Local	\$49,000	\$65,000	\$114,000
23P Model Toxics Control Operating Account			
23P-1 State	\$6,562,000	\$6,852,000	\$13,414,000
223 Oil Spill Response Account			
223-1 State	\$3,538,000	\$3,538,000	\$7,076,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Preserve, maintain and restore natural systems and landscapes

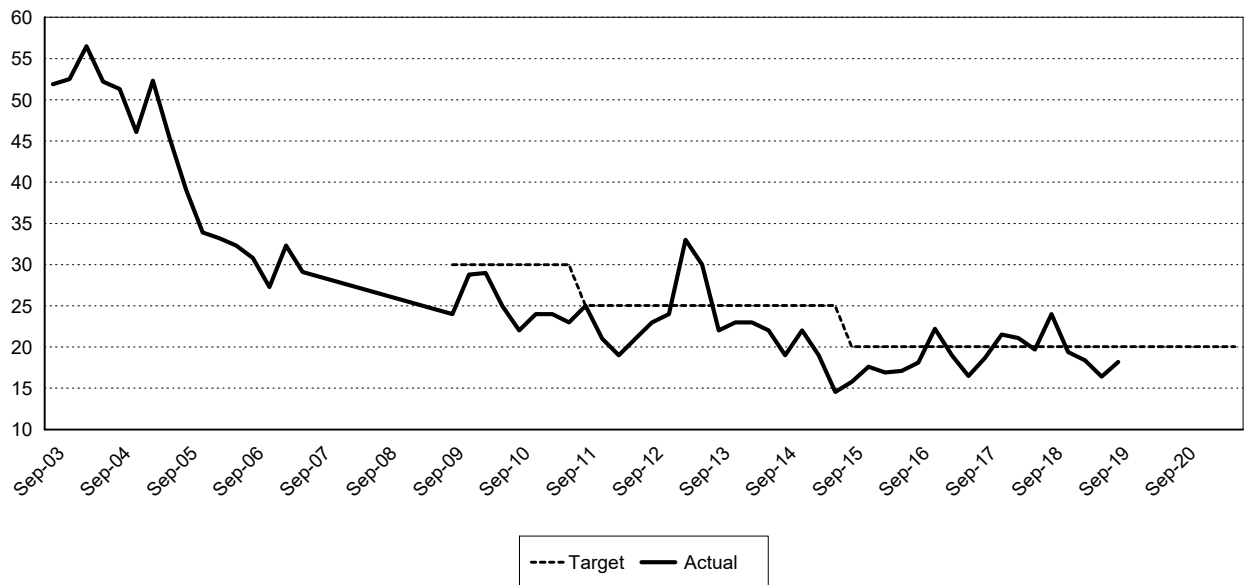
Expected Results

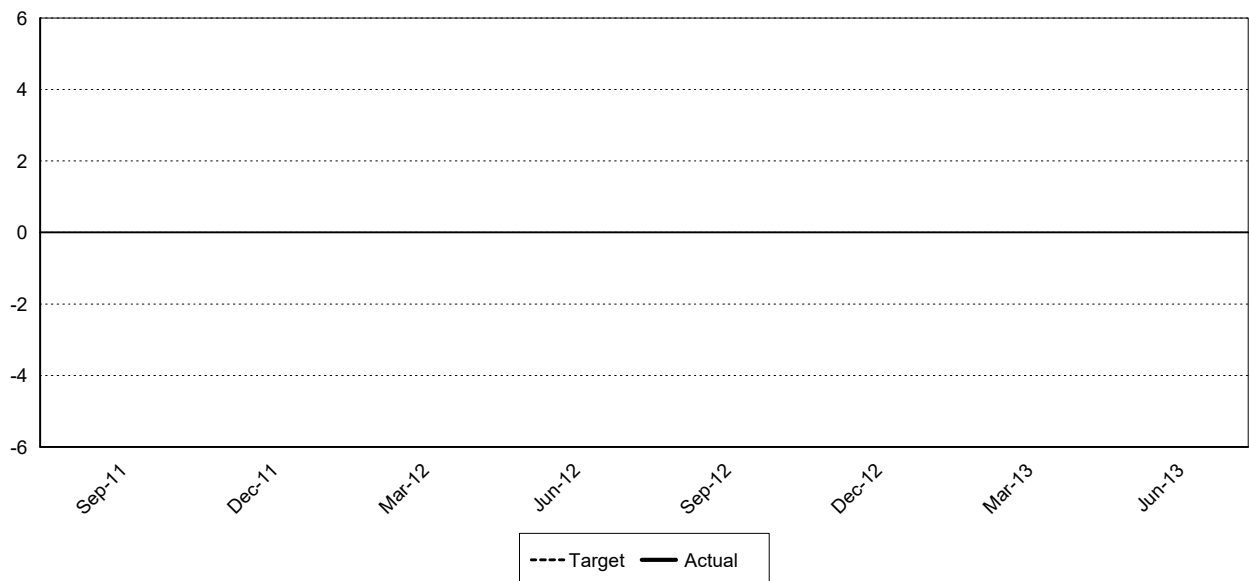
Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

- Oil spills, hazardous material spills, and clandestine labs are responded to and cleaned up rapidly to protect public health, natural resources, and property.
- All oil spills are responded to within 24 hours from the time they are reported.
- Approximately 4,000 annual spill reports are managed.
- Environmental, cultural, and economic damages resulting from spills are minimized.

001475 Percentage of reported oil and hazardous material spill incidents that receive field responses by Spills staff.			
Biennium	Period	Actual	Target
2019-21	Q8		20%
	Q7		20%
	Q6		20%
	Q5		20%
	Q4		20%
	Q3		20%
	Q2		20%
	Q1	18.2%	20%
2017-19	Q8	16.39%	20%
	Q7	18.4%	20%
	Q6	19.4%	20%
	Q5	24%	20%
	Q4	19.7%	20%
	Q3	21.1%	20%
	Q2	21.5%	20%
	Q1	18.7%	20%
2015-17	Q8	16.5%	20%
	Q7	19%	20%
	Q6	22.2%	20%
	Q5	18.1%	20%
	Q4	17.1%	20%
	Q3	16.9%	20%
	Q2	17.6%	20%
	Q1	15.8%	20%

Percent **001475 - Percentage of reported oil and hazardous material spill incidents that receive a field response**



Number 001655 - Refer to Above Narrative Justification and Impact Statement**A055 Restore Public Natural Resources Damaged by Oil Spills**

When spills occur, Ecology provides incident notification to natural resource trustees and responds to the incident to assess impacts, collect samples, and determine the extent of injury to state publicly owned resources. Ecology then leads the interagency Resource Damage Assessment (RDA) Committee to assess damages and seek fair compensation for damages to Washington resources. Ecology works with the RDA Committee and responsible parties in funding, planning, and implementing effective restoration projects to restore impacted resources. Ecology manages the Coastal Protection Fund Grant process for restoration work, and performs follow-up restoration site visits to ensure they were effective.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	2.8	2.8	2.8
408 Coastal Protection Account			
408-6 Non-Appropriated	\$532,000	\$532,000	\$1,064,000
23P Model Toxics Control Operating Account			
23P-1 State	\$286,000	\$295,000	\$581,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Preserve, maintain and restore natural systems and landscapes

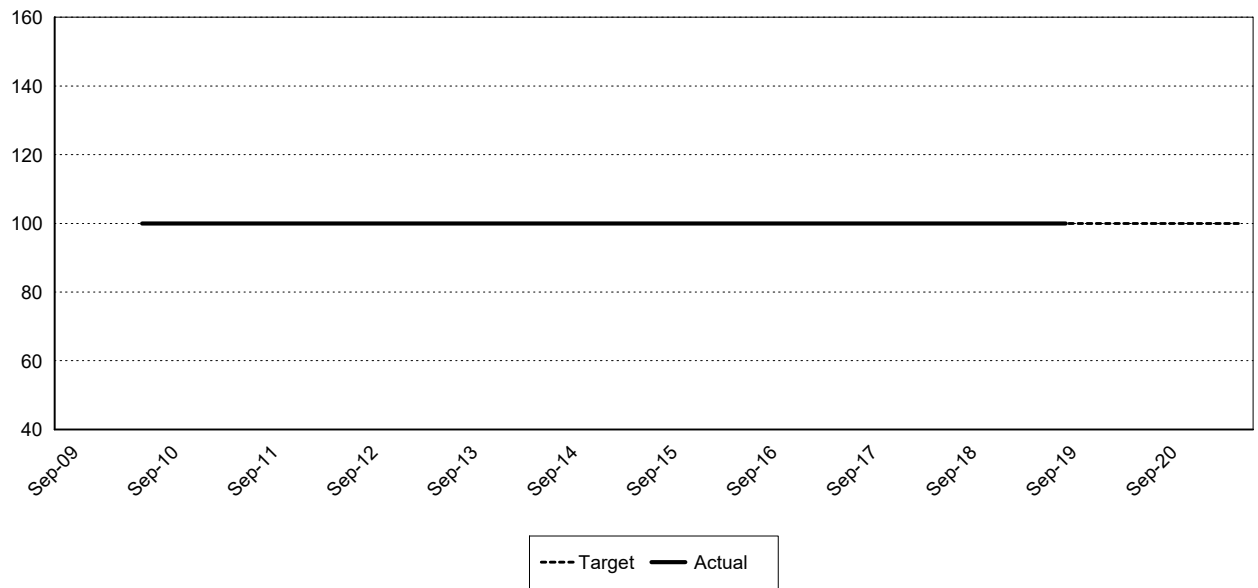
Expected Results

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

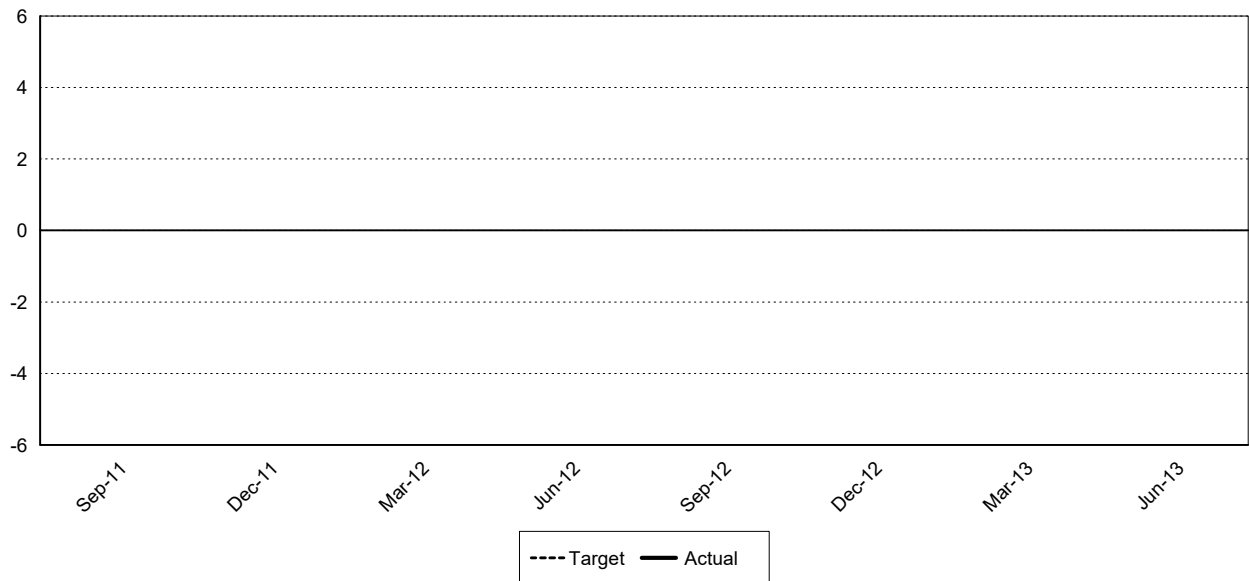
- Environmental impacts to publicly owned natural resources from oil spills are partially mitigated (compensated for) using damage assessment funding.
- Natural resource damage assessment is done on 100 percent of oil spills where 25 or more gallons reach surface waters.
- Priority wildlife habitat is restored and protected.

001476 Percentage of completed restoration projects that meet plan specifications.			
Biennium	Period	Actual	Target
2019-21	Q8		100%
	Q7		100%
	Q6		100%
	Q5		100%
	Q4		100%
	Q3		100%
	Q2		100%
	Q1	100%	100%
2017-19	Q8	100%	100%
	Q7	100%	100%
	Q6	100%	100%
	Q5	100%	100%
	Q4	100%	100%
	Q3	100%	100%
	Q2	100%	100%
	Q1	100%	100%
2015-17	Q8	100%	100%
	Q7	100%	100%
	Q6	100%	100%
	Q5	100%	100%
	Q4	100%	100%
	Q3	100%	100%
	Q2	100%	100%
	Q1	100%	100%

Percent **001476 - Percentage of completed restoration projects that meet plan specifications**



Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

Number 001655 - Refer to Above Narrative Justification and Impact Statement

A056 Restore Watersheds by Supporting Community-Based Projects with the Washington Conservation Corps

The Washington Conservation Corps (WCC) was established in 1983 to conserve, rehabilitate, and enhance the state's natural and environmental resources, while providing educational opportunities and meaningful work experiences for young adults (ages 18-25). The WCC creates partnerships with federal, state, and local agencies, private entities, and nonprofit groups to complete a variety of conservation-related projects. These include stream and riparian restoration, wetlands restoration and enhancement, soil stabilization, and other forest restoration activities, fencing, and trail work. The WCC also provides emergency response and hazard mitigation services to local communities.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	57.3	58.3	57.8
02P Flood Control Assistance Account			
02P-1 State	\$75,000	\$75,000	\$150,000
001 General Fund			
001-2 Federal	\$2,982,000	\$3,225,000	\$6,207,000
001-7 Private/Local	\$4,419,000	\$4,335,000	\$8,754,000
001 Account Total	\$7,401,000	\$7,560,000	\$14,961,000
23P Model Toxics Control Operating Account			
23P-1 State	\$2,875,000	\$2,992,000	\$5,867,000

Statewide Result Area: Sustainable Energy and a Clean Environment

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

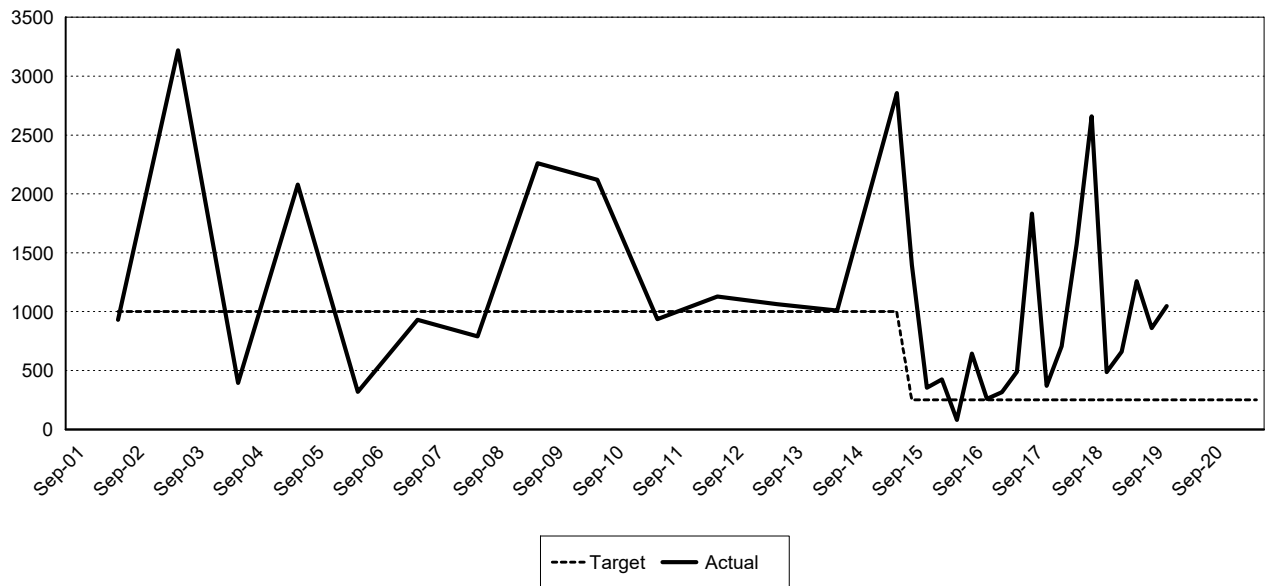
Statewide Strategy: Preserve, maintain and restore natural systems and landscapes

Expected Results

Local communities get help from Washington Conservation Corps crews to carry out conservation and emergency response projects.

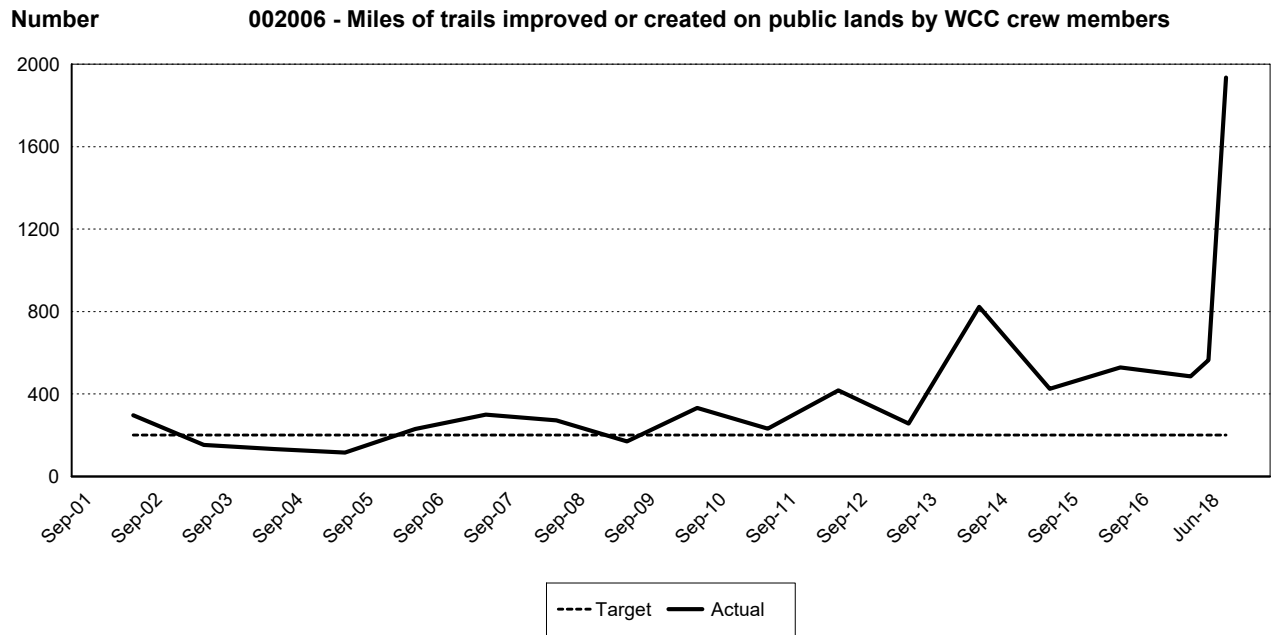
002005 Acres of habitat created or improved for fish and wildlife by WCC crew members.			
Biennium	Period	Actual	Target
2019-21	Q8		250
	Q7		250
	Q6		250
	Q5		250
	Q4		250
	Q3		250
	Q2	1,046	250
	Q1	859	250
2017-19	Q8	1,259	250
	Q7	660	250
	Q6	486	250
	Q5	2,660	250
	Q4	1,574	250
	Q3	705	250
	Q2	369	250
	Q1	1,832	250
2015-17	Q8	490	250
	Q7	316	250
	Q6	260	250
	Q5	643	250
	Q4	80	250
	Q3	424	250
	Q2	353	250
	Q1	1,398	250

Number **002005 - Acres of habitat created or improved for fish and wildlife by WCC crew members.**



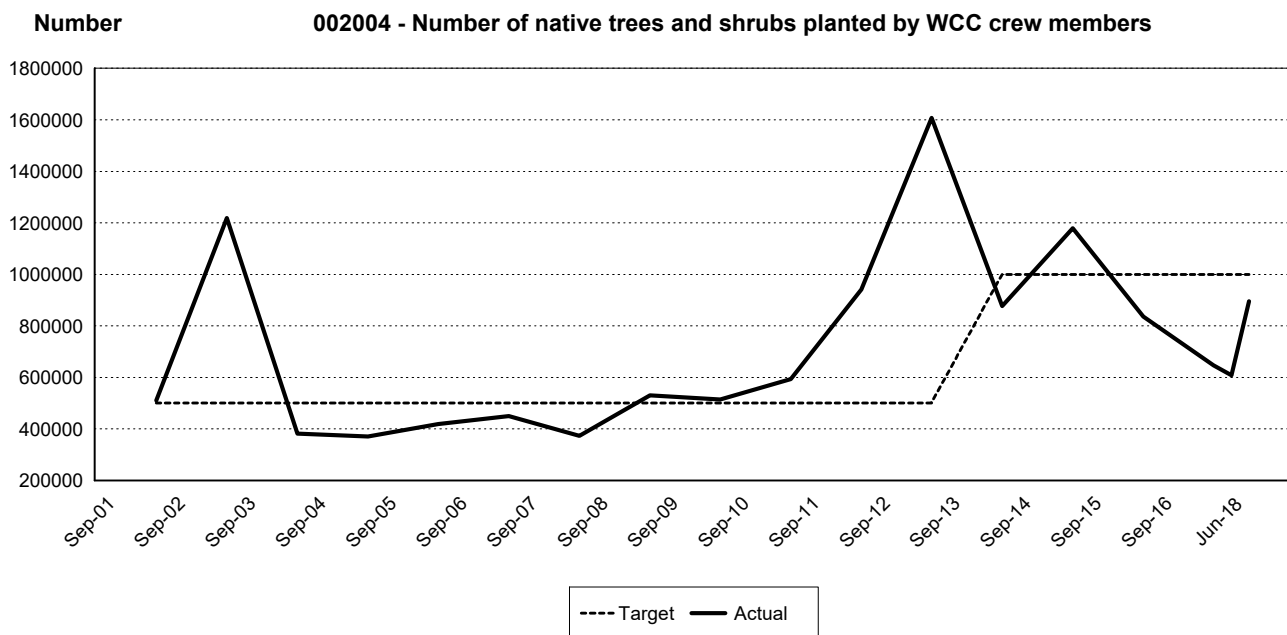
Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

002006 Miles of trails improved or created on public lands by WCC crew members. Reported annually.			
Biennium	Period	Actual	Target
2019-21	A3		
	A2		
2017-19	A3	1,935	200
	A2	565	200
2015-17	A3		
	A3	486	200
	A2		
	A2	529	200
	A2		
	A2		
	A1		
	A1		

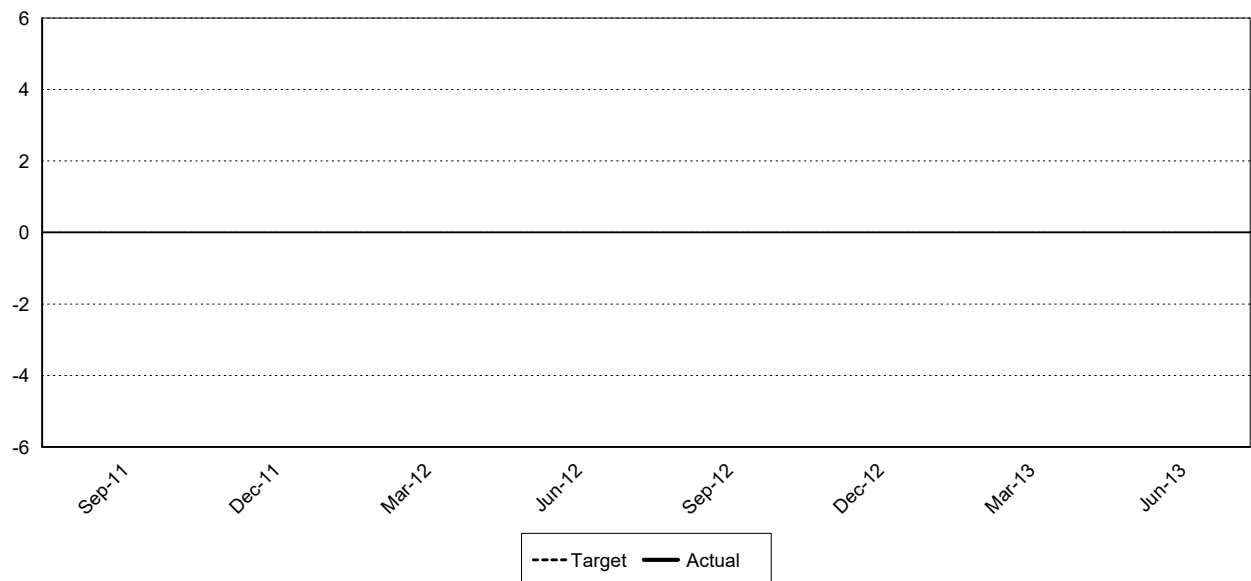


Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

002004 Number of native trees and shrubs planted by WCC crew members. Reported annually.			
Biennium	Period	Actual	Target
2019-21	A3		
	A2		
2017-19	A3	895,984	1,000,000
	A2	608,617	1,000,000
2015-17	A3		
	A3	646,087	1,000,000
	A2		
	A2	835,705	1,000,000
	A2		
	A2		
	A1		
	A1		



Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

Number 001655 - Refer to Above Narrative Justification and Impact Statement**A057 Services to Site Owners that Volunteer to Clean Up their Contaminated Sites**

Ecology provides services to site owners or operators who initiate clean up of their contaminated sites. Voluntary cleanups can be done in a variety of ways: Completely independent of the agency; independent with some agency assistance or review; or with agency oversight under a signed legal agreement (an agreed order or consent decree). They may be done through consultations, prepayment agreements, prospective purchaser agreements, and brownfields redevelopment. The voluntary cleanup program minimizes the need for public funding used for such cleanup and promotes local economic development through new industries and other beneficial uses of cleaned properties.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	23.0	23.0	23.0
23P Model Toxics Control Operating Account			
23P-1 State	\$3,353,000	\$3,462,000	\$6,815,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Preserve, maintain and restore natural systems and landscapes

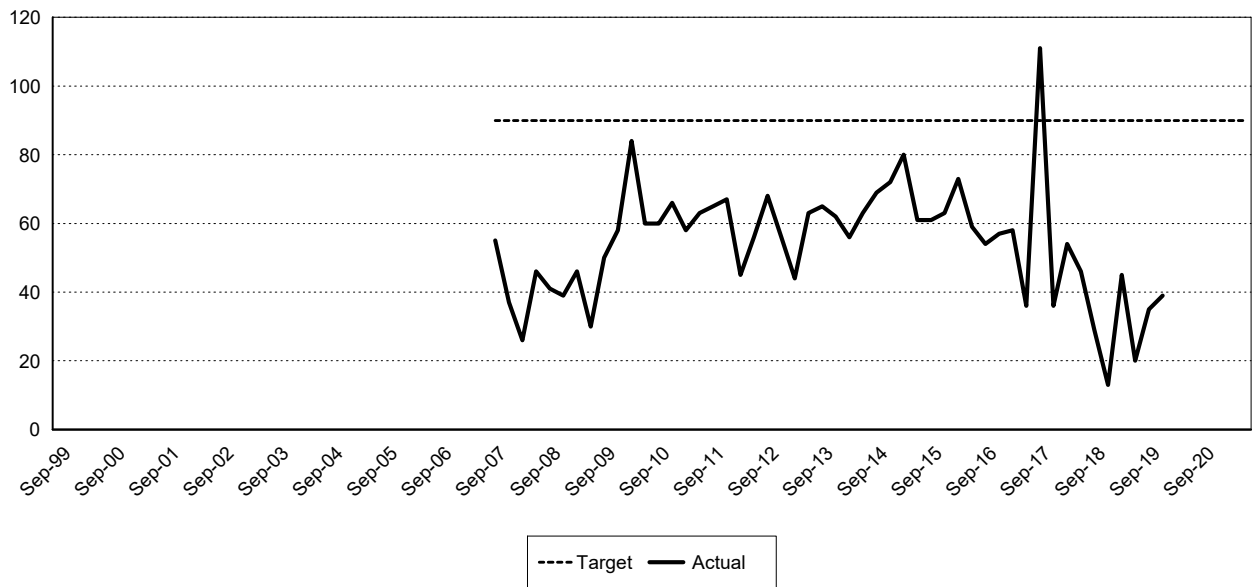
Expected Results

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

- Three percent increase in the number of contaminated sites that are voluntarily cleaned up by site owners and prospective buyers using private funding.
- Public and environmental health is protected.
- Cleaned sites are ready for redevelopment and job creation.
- Increased number of sites with cleanup actions in progress.
- Decreased response time from the agency to site owners and prospective buyers.
- Increased number of determinations made on final cleanup reports submitted by parties who voluntarily cleaned up sites.

001504 Average number of days to provide an assessment of a plan or report received from a voluntary cleanup program applicant.			
Biennium	Period	Actual	Target
2019-21	Q8		90
	Q7		90
	Q6		90
	Q5		90
	Q4		90
	Q3		90
	Q2	39	90
	Q1	35	90
2017-19	Q8	20	90
	Q7	45	90
	Q6	13	90
	Q5	29	90
	Q4	46	90
	Q3	54	90
	Q2	36	90
	Q1	111	90
2015-17	Q8	36	90
	Q7	58	90
	Q6	57	90
	Q5	54	90
	Q4	59	90
	Q3	73	90
	Q2	63	90
	Q1	61	90

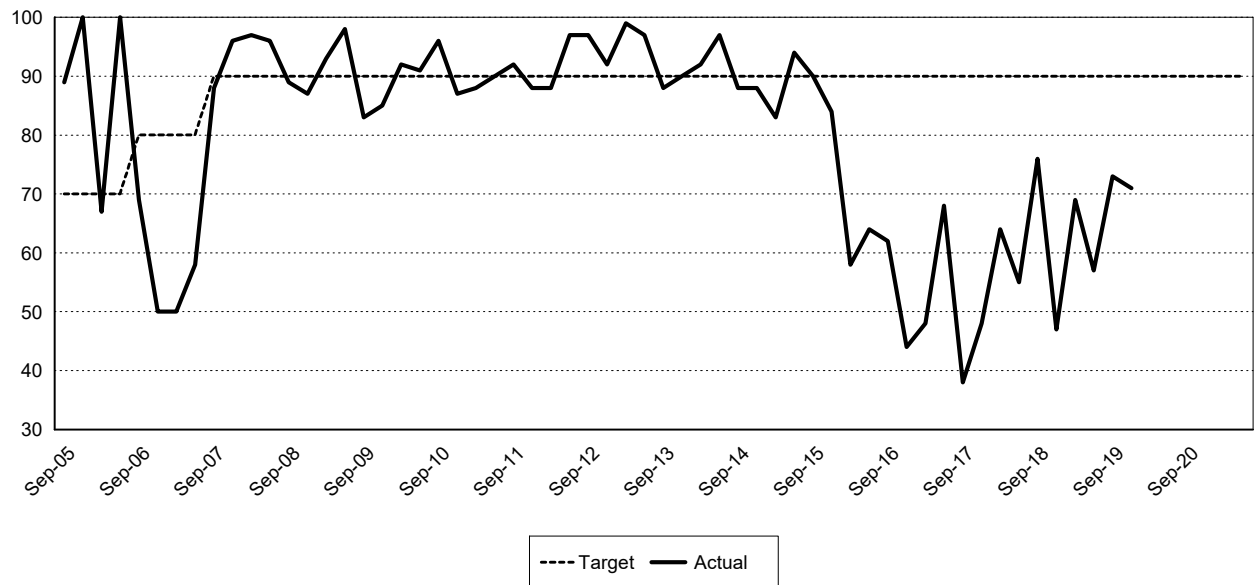
Number 001504 - Average number of days to provide an assessment of a plan or report received from a voluntary cleanu



Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

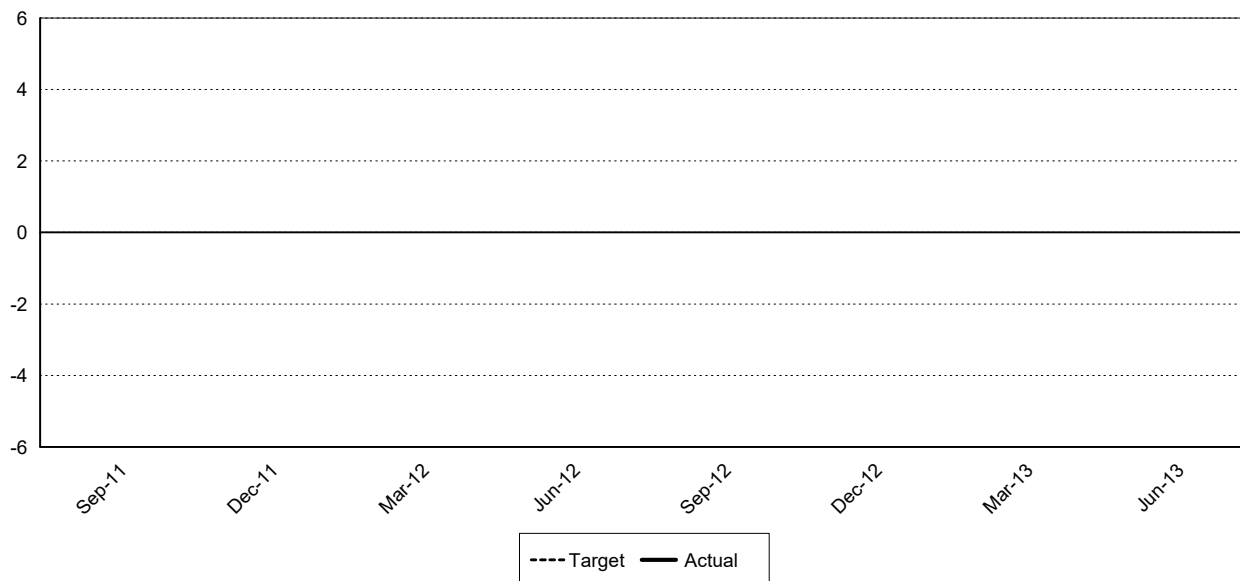
001502 Percentage of the voluntary cleanup program applicants who receive an assessment of their plan or report within 90 days.			
Biennium	Period	Actual	Target
2019-21	Q8		90%
	Q7		90%
	Q6		90%
	Q5		90%
	Q4		90%
	Q3		90%
	Q2	71%	90%
	Q1	73%	90%
2017-19	Q8	57%	90%
	Q7	69%	90%
	Q6	47%	90%
	Q5	76%	90%
	Q4	55%	90%
	Q3	64%	90%
	Q2	48%	90%
	Q1	38%	90%
2015-17	Q8	68%	90%
	Q7	48%	90%
	Q6	44%	90%
	Q5	62%	90%
	Q4	64%	90%
	Q3	58%	90%
	Q2	84%	90%
	Q1	90%	90%

Percent **001502 - Percent of the voluntary cleanup program applicants who receive an assessment of their plan/report**



Number

001655 - Refer to Above Narrative Justification and Impact Statement



A063 Climate Change Mitigation and Adaptation

State law sets limits on greenhouse gas emissions and establishes a portfolio of policies to reduce energy use and build a clean energy economy. It also sets requirements to prepare for and respond to climate changes that are already underway and unavoidable.

To better understand the volume and sources of greenhouse gas emissions in the state, Ecology conducts a biennial emissions inventory and administers a program for mandatory greenhouse gas reporting.

To help the state achieve its greenhouse gas targets, Ecology will continue to provide technical and analytical support to state decision makers, design and implement emission reduction strategies, and monitor and influence federal initiatives that reduce greenhouse gas emissions.

Ecology helps local governments and state agencies identify and report their greenhouse gas emissions and develop strategies to reduce those emissions.

Ecology makes information about the climate available to decision makers in the public and private sectors, as well as the public.

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	33.2	31.1	32.2
216 Air Pollution Control Account			
216-1 State	\$667,000	\$518,000	\$1,185,000
001 General Fund			
001-1 State	\$1,632,000	\$1,561,000	\$3,193,000
23P Model Toxics Control Operating Account			
23P-1 State	\$1,859,000	\$1,857,000	\$3,716,000
489 Pension Funding Stabilization Account			
489-1 State	\$97,000	\$98,000	\$195,000

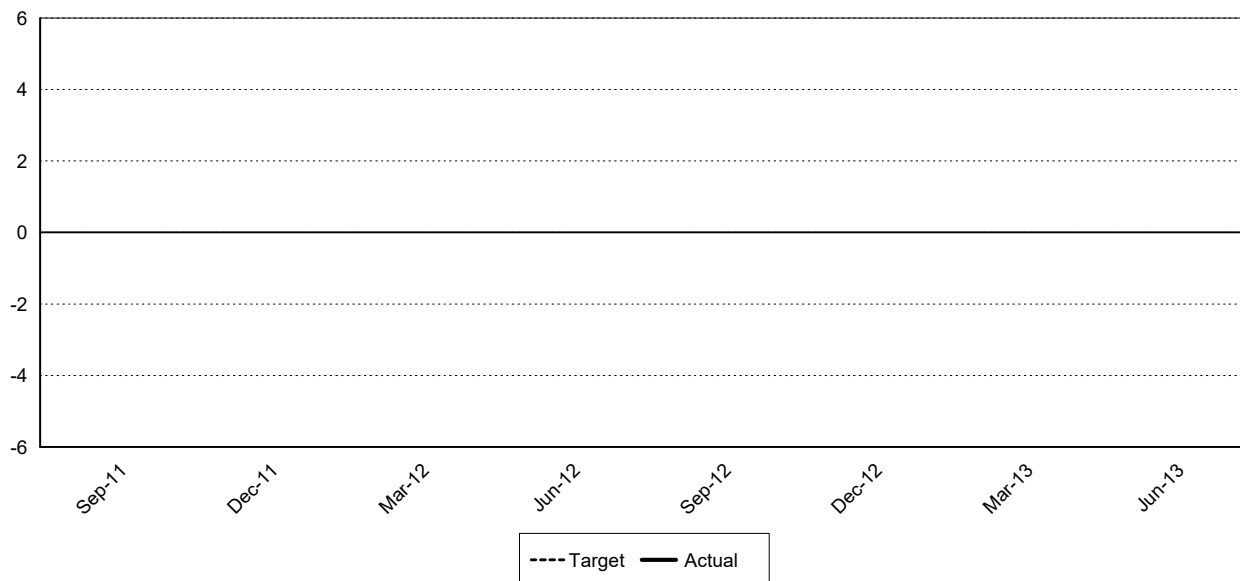
Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Achieve sustainable use of public natural resources

Expected Results

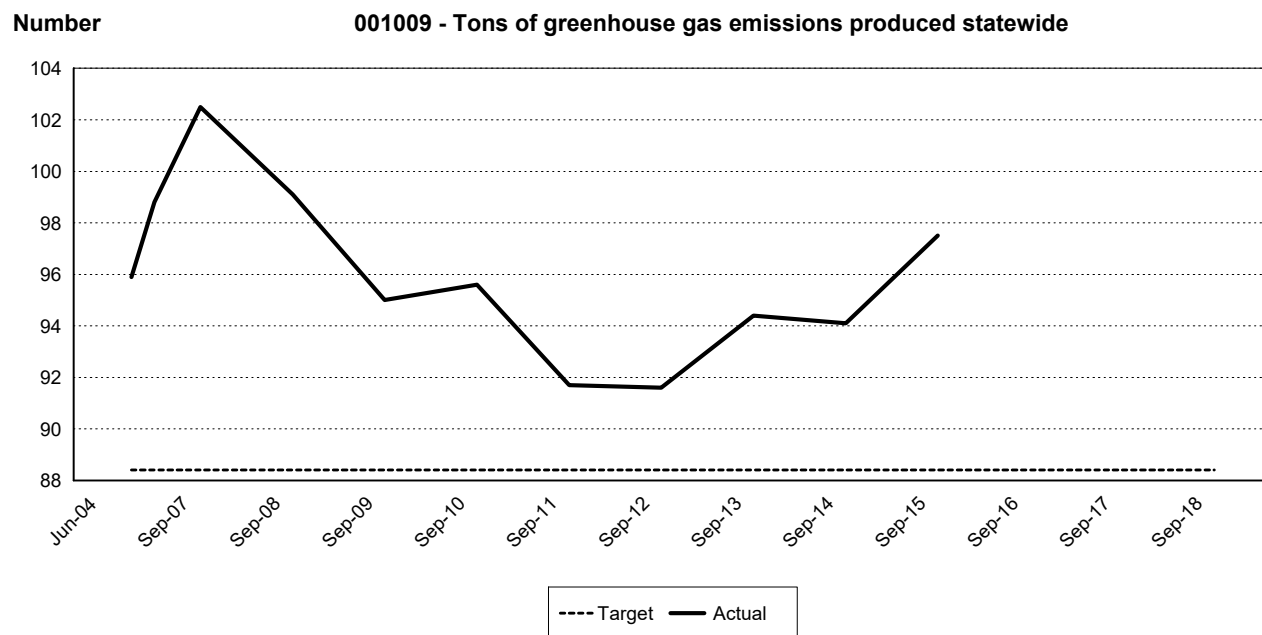
- The amount of greenhouse gas emissions decrease each year so the statewide emission targets are met (RCW 70.235.020).
- Detailed sector-by-sector greenhouse gas emission inventories are updated regularly so policy makers and the public have the most recent data.
- State agency and local government emissions are reported and tracked to comply with state and federal laws.
- Hydrofluorocarbon emissions are reduced through implementation of E2SHB 1112 (2019).
- Ecology meets its responsibilities to implement E2SSB 5116 (2019) to transition the state to a 100 percent Clean Energy Future.
- The Governor's Executive Order 18-01 on state efficiency and environmental performance is implemented so the state can reach the goal of eliminating 100 percent of greenhouse emissions from state operations.

Number

001655 - Refer to Above Narrative Justification and Impact Statement



001009 Tons of greenhouse gas emissions produced statewide.				
Target: 2020 statutory target equal to statewide emissions level of 93.6* million metric tons (mmt) of carbon dioxide equivalents (CO2e) in 1990.				
*Updated				
Biennium	Period	Actual	Target	
2017-19	A3			
	A3			
	A2			
	A2			
	A2			
	A2		88.4	
	A1			
	A1		88.4	
2015-17	A3			
	A3			
	A2			
	A2			
	A2			
	A2		88.4	
	A1			
	A1	97.5	88.4	



A064 Manage Solid Waste Safely

To ensure that solid waste handling and disposal facilities are in compliance with environmental requirements, Ecology:

- Sets standards for the proper handling and disposal of solid waste.
- Negotiates and implements cleanup orders under the Model Toxics Control Act, and oversees cleanup actions at solid waste facilities.
- Provides technical assistance, permit review, and regulatory, engineering and hydrogeology expertise to local health departments who permit solid waste handling and disposal facilities.

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	24.1	23.9	24.0
001 General Fund			
001-7 Private/Local	\$24,000	\$26,000	\$50,000
23P Model Toxics Control Operating Account			
23P-1 State	\$2,776,000	\$3,330,000	\$6,106,000

Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

Expected Results

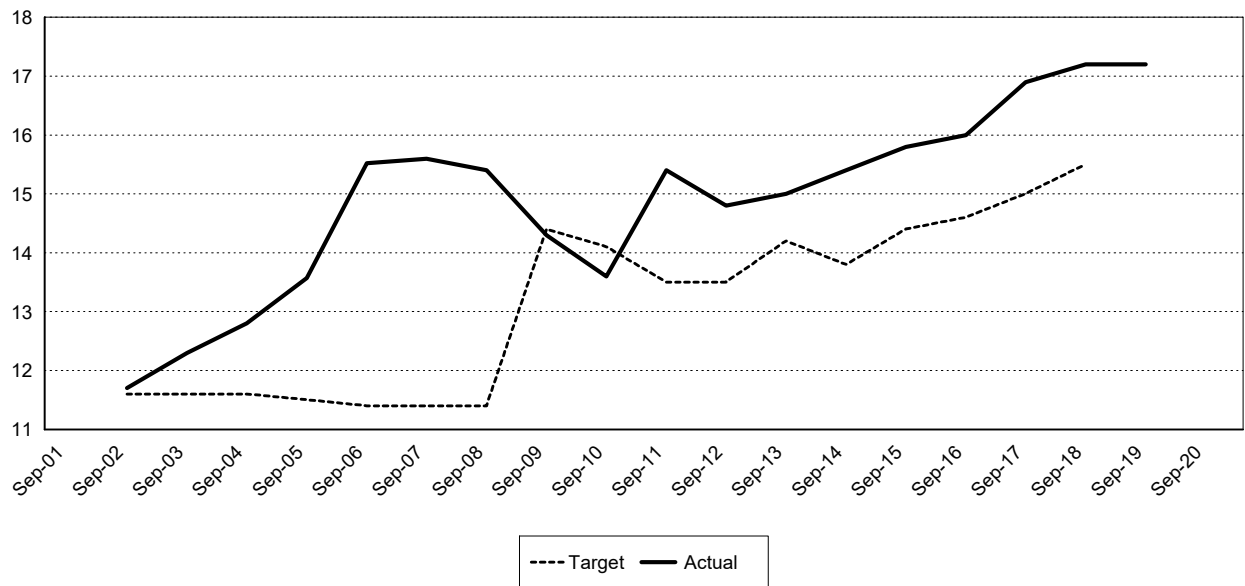
- Solid waste is managed and disposed of in facilities that comply with federal, state, and local requirements.
- Solid waste handling and disposal practices minimize contamination to the state's groundwater, surface water, and air.
- Technical assistance is provided to health departments responsible for ensuring facilities comply with environmental rules.

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

001484 Million of tons of solid waste generated annually in Washington.			
Biennium	Period	Actual	Target
2019-21	A3		
	A3		
	A2		
	A2		
	A2		
	A2		
	A1		
	A1	17.2	
2017-19	A3		
	A3		
	A2		
	A2		
	A2		
	A2	17.2	15.5
	A1		
2015-17	A1	16.9	15
	A3		
	A3		
	A2		
	A2		
	A2		
	A2	16	14.6
	A1		
	A1	15.8	14.4

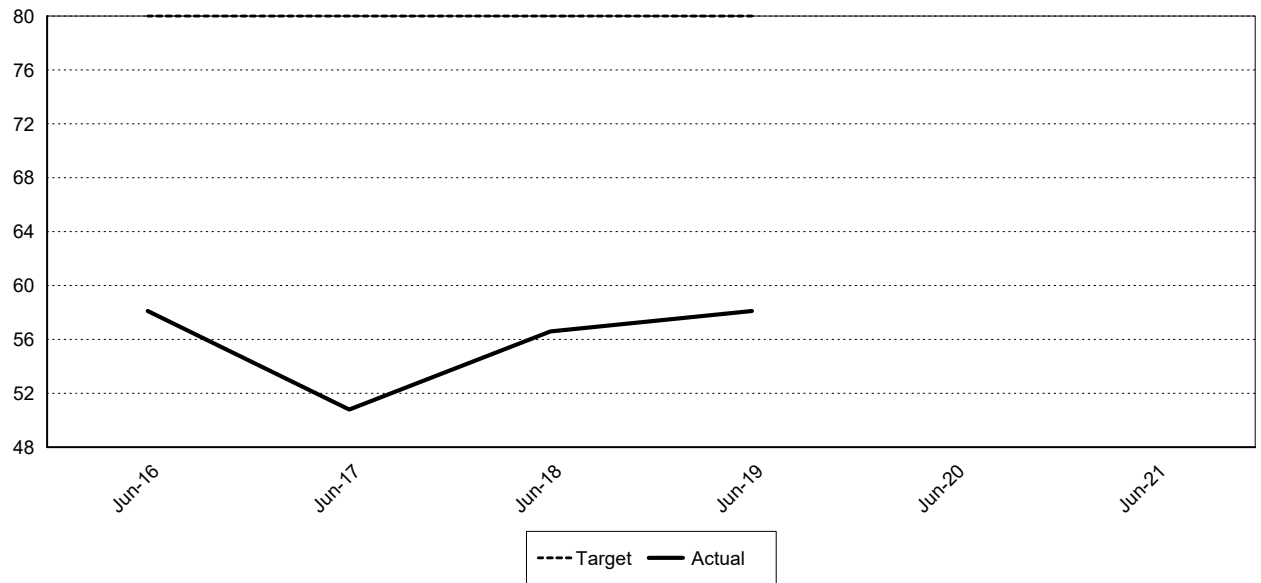
Number

001484 - Millions of tons of solid waste generated annually



002871 Percentage of landfills in compliance with applicable state regulations			
Biennium	Period	Actual	Target
2019-21	A3		
	A2		
2017-19	A3	58.1%	80%
	A2	56.6%	80%
2015-17	A3	50.8%	80%
	A2	58.1%	80%

Percent 002871 - Percentage of landfills in compliance with applicable state regulations

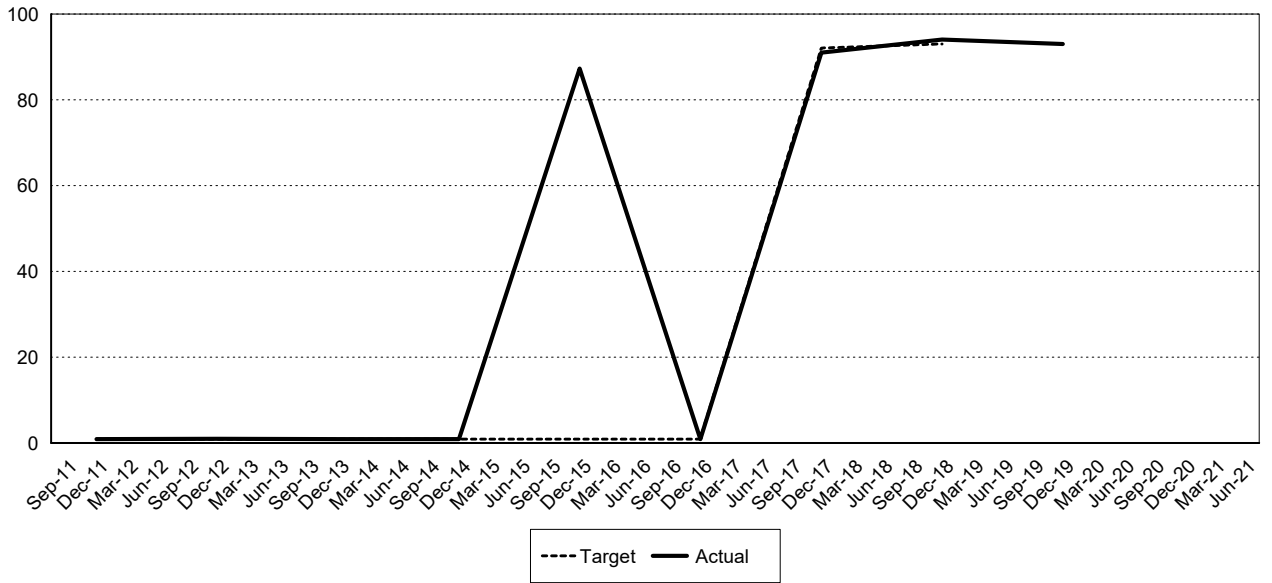


Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

002737 Percentage of regulated solid waste facilities completing annual reports in a calendar year.			
Biennium	Period	Actual	Target
2019-21	A3		
	A3		
	A2		
	A2		
	A2		
	A2		
	A1		
	A1	93%	
2017-19	A3		
	A3		
	A2		
	A2		
	A2		
	A2	94%	93%
	A1		
2015-17	A1	91%	92%
	A3		
	A3		
	A2		
	A2		
	A2		
	A2	0.9%	0.92%
	A1		
	A1	87.3%	0.92%

Percent

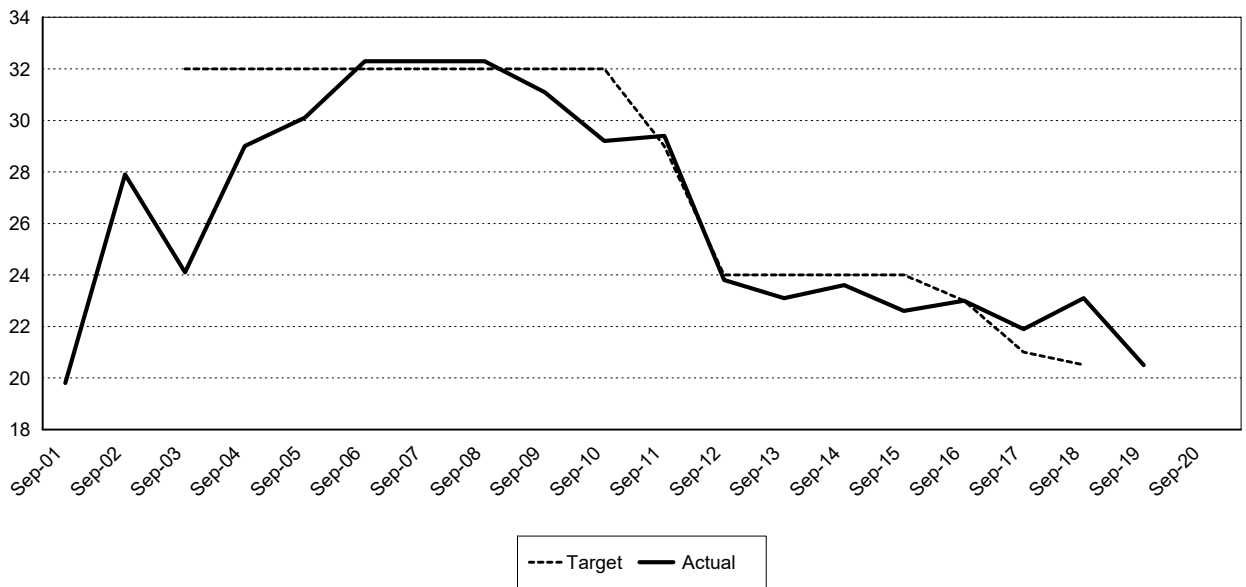
002737 - Percentage of regulated solid waste facilities completing annual reports



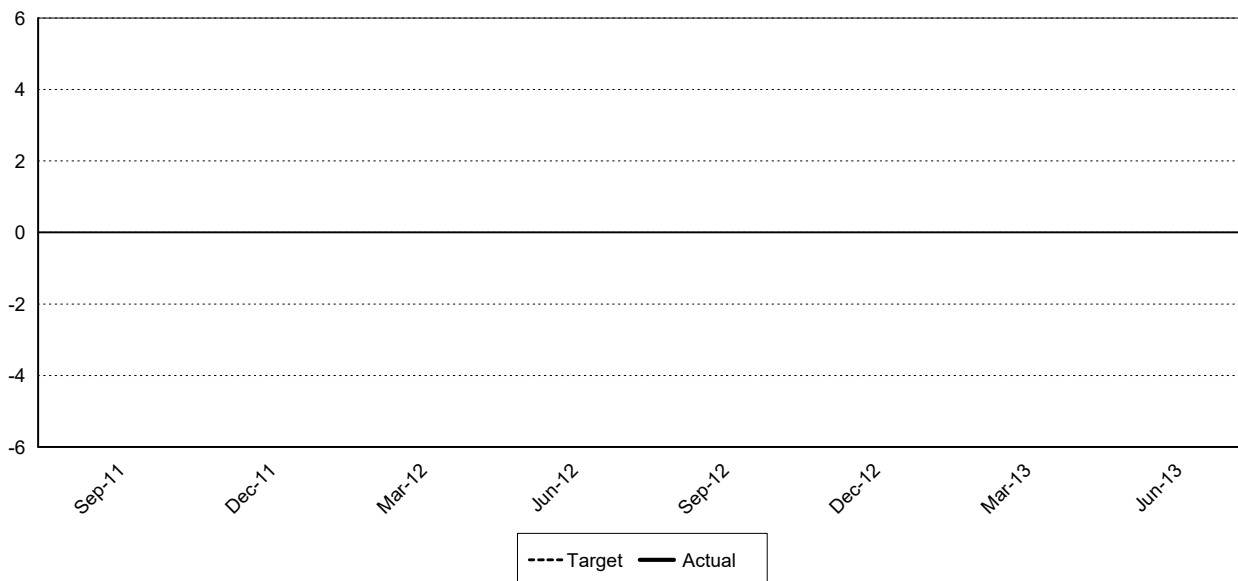
Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

001495 Pounds of household and small quantity generator hazardous wastes that are recycled or properly disposed.			
Biennium	Period	Actual	Target
2019-21	A3		
	A3		
	A2		
	A2		
	A2		
	A2		
	A1		
	A1	20.5	
2017-19	A3		
	A3		
	A2		
	A2		
	A2		
	A2	23.1	20.5
	A1		
2015-17	A1	21.9	21
	A3		
	A3		
	A2		
	A2		
	A2		
	A2	23	23
	A1		
	A1	22.6	24

Number **001495 - Pounds of household and small quantity generator hazardous wastes recycled or properly disposed**



Number 001655 - Refer to Above Narrative Justification and Impact Statement



A065 Reduce Toxic Chemicals in Products and Promote Safer Alternatives

Ecology is implementing a long-term strategy designed to reduce persistent, bioaccumulative toxics in Washington's environment through:

- Engaging key organizations and interest groups, especially Department of Health, in reviewing science and developing action plans to reduce presence of these toxics in the environment.
- Providing for public education and information on reducing toxics in the environment.

Toxic chemicals in some types of consumer products pollute the environment and have the potential to harm humans and wildlife. Reducing toxic chemicals in consumer and other products over time will lower the risks to people and the environment. Ecology uses several strategies to achieve this goal, including:

- Identifying chemicals of concern in consumer products and promoting safer alternatives to identified chemicals.
- Promoting environmentally preferred purchasing.
- Sampling and enforcing statutory reporting requirements and limits in specific products.

Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

Program OMN - Department of Ecology-Omnibus

Account	FY 2020	FY 2021	Biennial Total
FTE	25.3	24.8	25.1
001 General Fund			
001-2 Federal	\$238,000	\$246,000	\$484,000
207 Hazardous Waste Assistance Account			
207-1 State	\$700,000	\$785,000	\$1,485,000
23P Model Toxics Control Operating Account			
23P-1 State	\$3,543,000	\$3,380,000	\$6,923,000

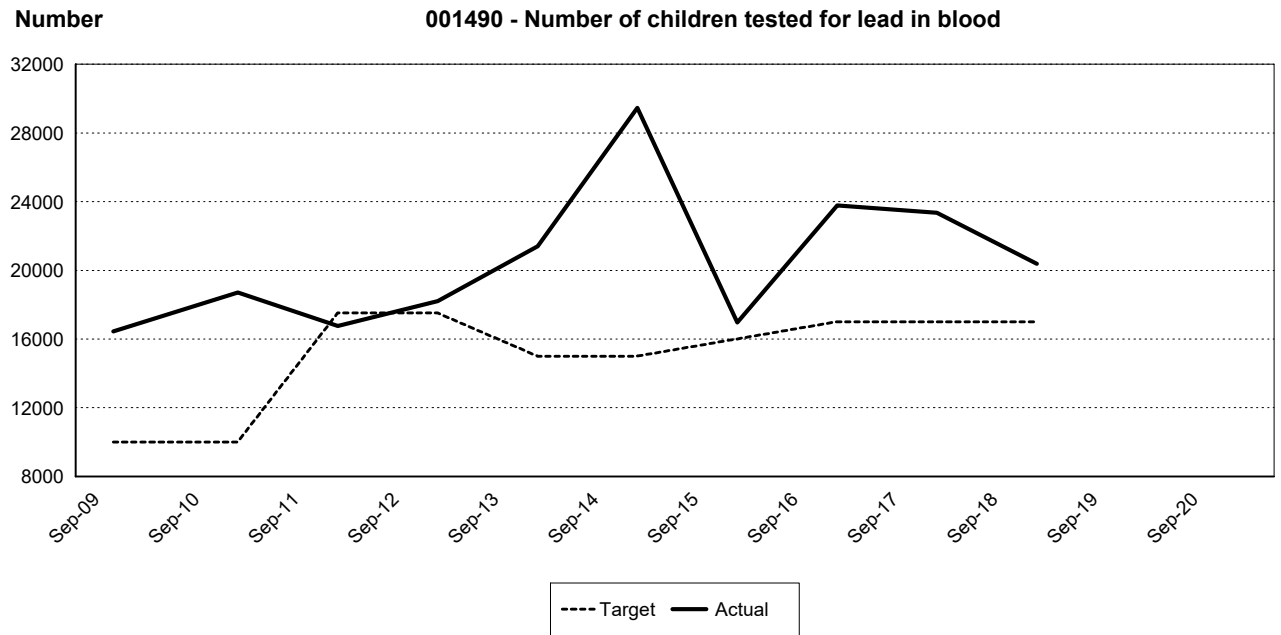
Statewide Result Area: Sustainable Energy and a Clean Environment
Statewide Strategy: Establish safeguards and standards to prevent and manage pollution

Expected Results

- Strategies are developed and implemented to reduce and eliminate PBTs.
- Consumers are aware of and utilize safer alternatives.
- Risks to people, wildlife, and the environment from PBTs and other toxic substances are minimized.

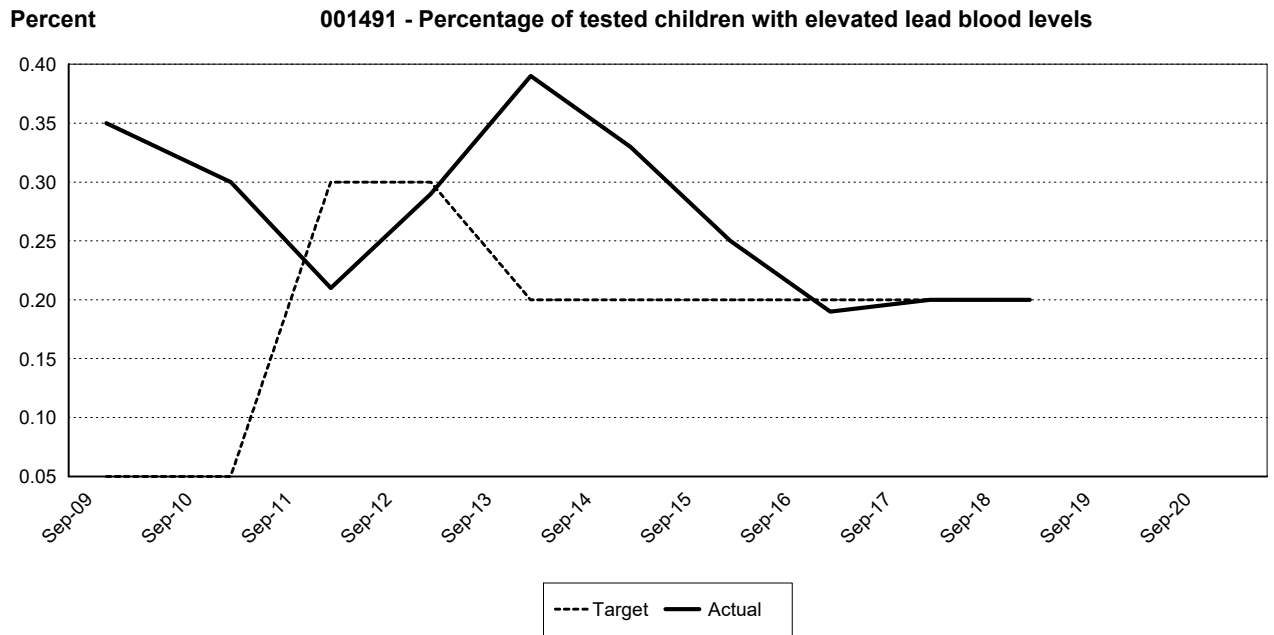
Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

001490 Number of children tested for lead in blood. Reported annually in Quarters 3 and 7.			
Biennium	Period	Actual	Target
2019-21	Q8		
	Q7		
	Q6		
	Q5		
	Q4		
	Q3		
	Q2		
	Q1		
2017-19	Q8		
	Q7	20,383	17,000
	Q6		
	Q5		
	Q4		
	Q3	23,357	17,000
	Q2		
	Q1		
2015-17	Q8		
	Q7	23,784	17,000
	Q6		
	Q5		
	Q4		
	Q3	16,960	16,000
	Q2		
	Q1		



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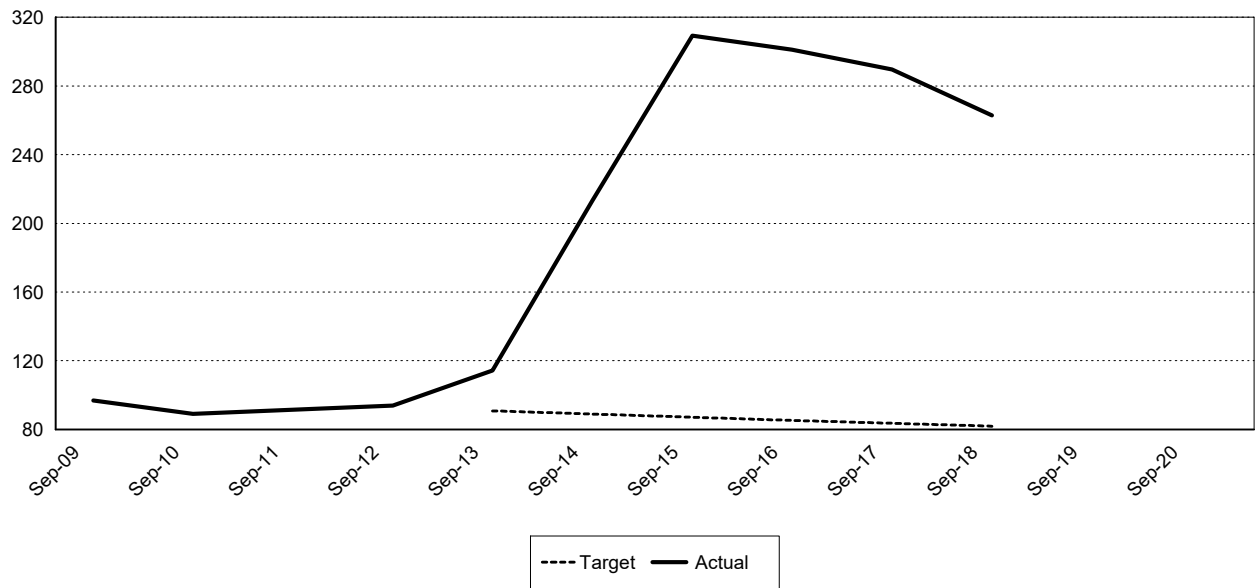
001491 Percentage of tested-children, less than 7 years old, with elevated lead blood levels.			
Biennium	Period	Actual	Target
2019-21	A3		
	A3		
	A2		
	A2		
	A2		
	A2		
	A1		
	A1		
2017-19	A3	0.2%	0.2%
	A3		
	A2	0.2%	0.2%
	A2		
	A2		
	A2		
	A1		
	A1		
2015-17	A3	0.19%	0.2%
	A3		
	A2	0.25%	0.2%
	A2		
	A2		
	A2		
	A1		
	A1		



Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

002491 Pounds of toxic substances used by Washington businesses and facilities required to submit pollution prevention plans (in millions of pounds).			
Biennium	Period	Actual	Target
2019-21	A3		
	A3		
	A2		
	A2		
	A2		
	A2		
	A1		
	A1		
2017-19	A3		
	A3		
	A2		
	A2		
	A2		
	A2	262.95	81.83
	A1		
	A1	289.67	83.5
2015-17	A3		
	A3		
	A2		
	A2		
	A2		
	A2	301.2	85.2
	A1		
	A1	309.4	87

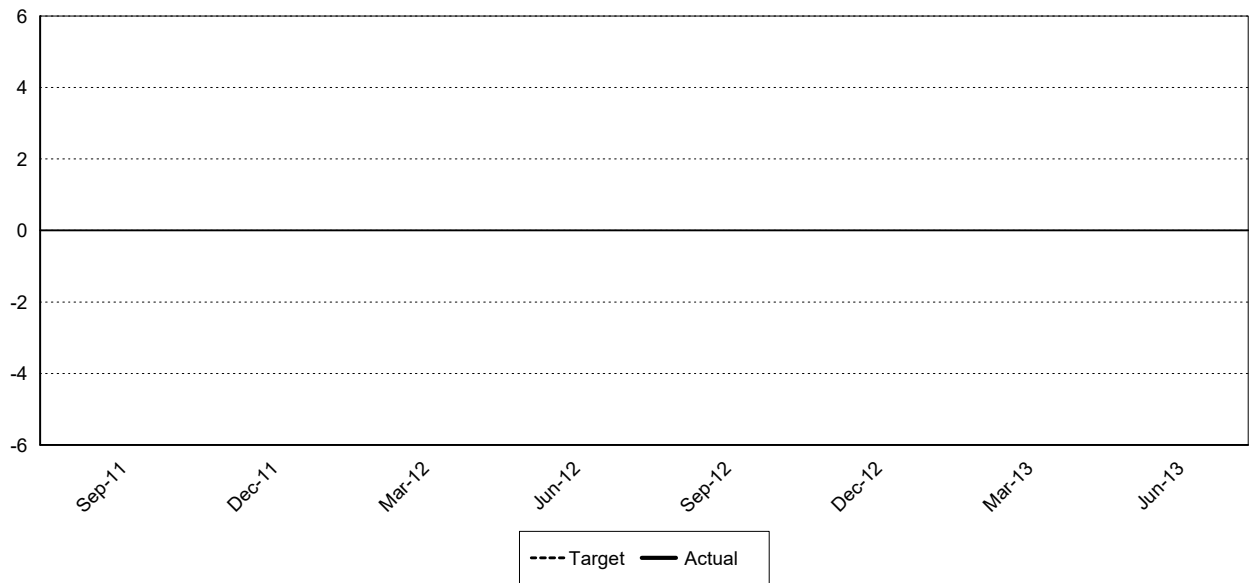
Number **002491 - Pounds of toxic substances used by Washington industries**



Appropriation Period: 2019-21 Activity Version: 36 - Working Analyst Supp. Version 6 Sort By: Activity

Number

001655 - Refer to Above Narrative Justification and Impact Statement

**Grand Total**

	FY 2020	FY 2021	Biennial Total
FTE's	1,750.9	1,720.3	1,735.6
GFS	\$30,665,000	\$29,281,000	\$59,946,000
Other	\$261,524,000	\$268,914,000	\$530,438,000
Total	\$292,189,000	\$298,195,000	\$590,384,000