

EAST BAY MUNICIPAL UTILITY DISTRICT

DATE: July 10, 2025

MEMO TO: Board of Directors

THROUGH: Clifford C. Chan, General Manager 

FROM: David A. Briggs, Director of Operations and Maintenance 

SUBJECT: Annual Integrated Pest Management Program Update

SUMMARY

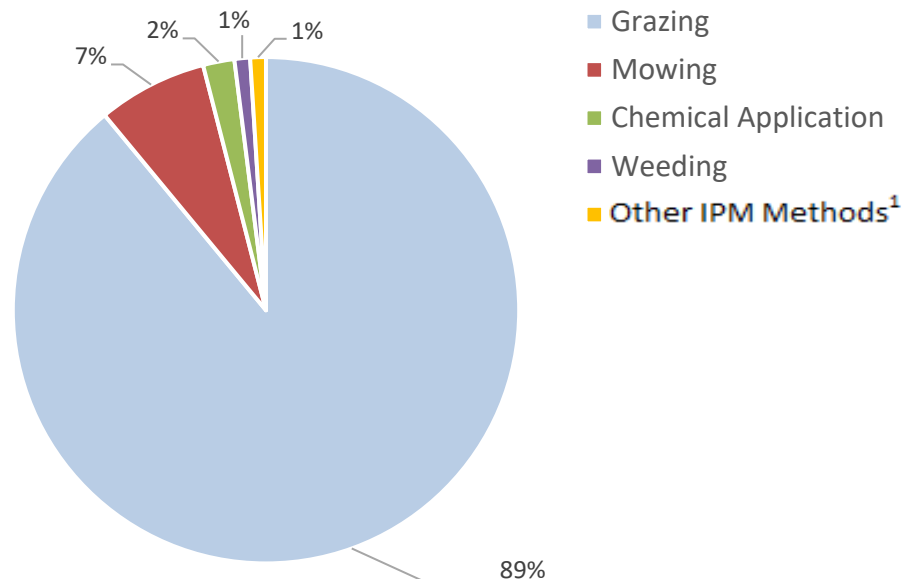
The District established an Integrated Pest Management (IPM) program in the mid-1990s to guide pest management practices at its many facilities and open spaces. IPM is a comprehensive pest management process to determine appropriate control methods based on site-specific conditions. Management of invasive/non-native weeds are typically included as “pests” under standard IPM programs. Pesticide use (including herbicide use) by public landowners like the District has been securitized by adjacent landowners, members of the public, and environmental stakeholders. Accordingly, the District’s IPM program is publicly shared and responsive to stakeholder input.

Accomplishments for calendar year 2024 included elimination of glyphosate at publicly accessible District properties in residential neighborhoods in the East Bay, improvement of field data collection to improve analysis of trends, and increased training for staff on IPM topics. This annual report includes chemical pesticide usage for the year.

DISCUSSION

The District’s IPM Program (<https://www.ebmud.com/about-us/sustainability>) addresses a broad range of pest control issues on watershed lands, reservoir dams and dikes, operating and administrative facilities, and along pipeline and aqueduct rights-of-way. The goal of the IPM program is to consider non-chemical control methods before use of pesticides to minimize impacts on human health and the environment. As shown below, only two percent of District acreage receives pesticide application.

2024 Districtwide IPM Methods (Applied Surface Area)



As in previous years, cattle grazing and mowing were the predominant methods for vegetation management, accounting for 96 percent, while chemical application accounted for two percent of the total in 2024. Chemical applications per acre have decreased compared to the previous two years; four percent in 2022 and three percent in 2023. Management of the District's nearly 125 miles of pipeline right-of-way (ROW) accounts for the largest use of pesticides, including glyphosate. Although mowing and mechanical methods are the dominant control methods, thousands of fence posts, gates, concrete structures, and other difficult-to-access areas require controlled use of pesticides to efficiently manage vegetation. The District continues to evaluate the effectiveness and cost of non-glyphosate and non-chemical methods for the ROW.

In 2024, staff phased out the use of glyphosate at publicly accessible portions of District properties in or near residential neighborhoods in the East Bay. Staff use alternative methods and/or chemicals in these areas to control vegetation. This approach was also used in watershed areas of the East Bay to address nuisance vegetation impacting grazing.

Pesticide Use and Inventory

In 2024, the District used approximately 1,434 pounds (as active ingredient) of pesticide including 1,099 pounds of glyphosate-based products. The amount of glyphosate use and pesticide use overall has generally decreased over the last five years – most likely because staff are now required to quantify and document pesticide use. Over this period, staff training has also emphasized minimal pesticide use (especially glyphosate). Local weather and timing/frequency of pre-emergent pesticide use also affect annual usage year to year.

¹ Other IPM Methods include plowing, tree trimming, brushing, and controlled burning.

Year	All Pesticides	Glyphosate Use	
	Active Ingredient (pounds)	Active Ingredient (pounds)	% of Total
2020	1,546	1,333	86%
2021	1,553	1,242	80%
2022	1,546	1,274	82%
2023	1,353	1,175	87%
2024	1,434	1,099	77%

Specific pesticide products used in 2024 and amounts are shown in the attachment.

NEXT STEPS

Staff will continue to evaluate alternative IPM methods, including glyphosate alternatives on right-of-way properties and in the watershed in 2025.

CCC:DAB:sd

Attachment: Breakdown of Pesticide Product in 2024

Breakdown of Pesticide Product in 2024

Product Name and EPA ID	Amount Product Used ¹		Total Amount Active Ingredient Used ²
	lbs.	gals.	lbs.
Accord (524-326) ³		10.75	32.25
Accord XRT II (62719-556) ³		24.30	97.20
Alpine WSG (499-561)	20.57		8.23
Aquamaster (524-343) ³		0.31	1.25
Capstone (62719-571)		0.06	0.06
Capstone (62719-572)		0.06	0.01
Captain XTR (67690-9)		0.04	0.35
Cheetah Pro (228-743)		1.47	3.44
Cleantraxx (62719-702)		15.00	60.20
Clearcast (241-437-67690)		0.05	0.05
Clipper SC (71368-114)		0.35	1.41
Dimension 2EW (62719-542)		8.27	16.54
Esplanade 200 SC (432-1516)		15.16	25.31
Gallery SC (62719-658)		1.04	4.31
Gallery 75 Dry (62719-145)	6.13		4.59
Garlon 3A (62719-37)		4.75	14.25
Garlon 4 Ultra (62719-527)		5.63	22.50
Landmark XP (432-1560)	0.67		0.50
Milestone (62719-519)		13.31	26.62
Milestone VM (62719-537)		2.05	4.11
Oust XP DuPont (352-601)	35.88		26.91
Ranger Pro (524-517) ³		164.90	494.70
Rodeo (62719-324) ³		92.24	368.97
Ronstar Flo (432-1465)		35.23	111.68
Roundup Pro Concentrate (524-529)+		6.78	25.07
Roundup PROMAX (524-579) ³		17.63	79.31
Telar XP (Du Pont) (352-654)	0.098		0.07
TERAD3 BLOX (12455-106)	5.38		0.004
Transline (62719-259)		1.28	3.84
Wisdom TC Flowable (5481-520)		0.04	0.02
Total			1,434

Footnotes:

1. The "amount product used" indicates the volume (for liquids) or weight (for solids) of formulated product. The amount of formulated product used is comprised of both the active ingredient and inert ingredients such as water.
2. The "total active ingredient use" is the amount of active ingredient only in the product and is recorded in weight. This is the standard practice for tracking and reporting by regulatory agencies and IPM programs.

Example: Clipper SC

· Total amount of active ingredient per unit (by weight): 4 pounds of flumioxazin per gallon of Clipper SC

· Total amount of active ingredient used (0.35 gallons x 4 pounds per gallon): 1.4 pounds

3. Glyphosate-based pesticide