



Integrated Pest Management Report: 2023
Charlottesville Parks and Recreation Department

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Introduction

Integrated Pest Management (IPM) is a methodology that establishes an effective and environmentally sensitive response to pests (insects, weeds, diseases, other vertebrates that can damage plants) that damage trees, shrubs, and turfgrass. IPM establishes a sustainable approach to managing pests by combining biological, cultural, physical, and if necessary, chemical tools in a way that minimizes health, environmental and economic risks.

An effective IPM program requires analysis, planning, and revision. Looking critically at the level of service and methods used to maintain this level of service are vital to the success of the program. Assessing these methods and practices maintains a level of responsibility and transparency to the public and promotes innovation in the IPM program. The Parks and Recreation Department strives to be proactive rather than reactive in the implementation of IPM methods.

This report is a summary of the activities of the City of Charlottesville's Integrated Pest Management (IPM) program as adopted by City Council in 2015. It is a common misconception to conclude that all pest management activities on a landscape involve chemical control (i.e., spraying pesticides), and our approach uses many different methods, which include:

- **Inspections:** routine assessment of the health and quality of plants; establishing threshold for pest damage.
- **Cultural control:** proper pruning, thinning, and mulching cultivated plants.
- **Physical or mechanical control:** hand removal of insects, or the use of machines, traps, barriers, fences or nets to control a targeted pest.
- **Biological control:** using natural enemies—parasites, predators, and pathogens to control a target pest.
- **Chemical control:** the use of pesticides to prevent, repel, suppress, or destroy a pest.

Our IPM strategy regularly uses most, if not all, of the methods listed above. In summary, maintaining proper soil fertility, soil moisture (irrigation), mulching, mowing, monitoring, and choosing native vegetation are all strategies that help ensure plant health. The following summary of activities and initiatives from January – December 2023 will help describe some of these strategies.

Summary of Initiatives in 2023

Invasive Plant Control:

As part of a new capital budget item, Parks began work on suppressing and controlling invasive plants, including many different vines, shrubs, and trees. We received a lot of positive feedback from the various projects. We utilized several different methods of control, including mechanical, biological, and chemical. The initial areas of focus were Washington Park, Forest Hills Park, Azalea Park, and City-owned land located west of Jordan Park, totally approximately 11 acres. For example, we contracted the services of a forestry mulcher (mechanical control), a powerful machine used to grind and pulverize vegetative material, including vines, shrubs, and even small trees. This was a new service and contractor for us this year, but it proved to be very effective in removing invasive plants.

Parks also utilized goats (biological control) as a means of helping to control invasive plant species. Two sites (Washington Park, Fry's Spring) were targeted to bring in the goats to help control kudzu, porcelainberry, multiflora rose, and other plants. In total, approximately 2 acres were consumed by goats. After these methods were used, selected herbicide applications (chemical control) were made to help keep the invasives from growing back. The areas were re-planted with approximately 650 small tree seedlings, and the restored areas will be maintained through mowing, trimming, and chemical controls.



Before forestry mulching (near Jordan Park)



After forestry mulching. (same location)

Staff Training and Continuing Education

We had 3 employees from the Parks Division become certified as Registered Technicians through the Virginia Department of Agriculture and Consumer Services (VDACS). This requires 20 hours of on-the-job training, as well as 20 hours of studying the Virginia Core Manual, “Applying Pesticides Correctly.” This training includes practical and legal requirements, as well as training on the theory and practice of Integrated Pest Management principles. Parks Division now has 4 Certified Pesticide Applicators, and 6 Registered Technicians. In February, we had 2 employees from the horticulture crew complete continuing education classes (16 staff hours total) to maintain their Certified Applicator credentials. In November, the City’s Urban Forester and Landscape Manager attended a day long arboriculture workshop (16 staff hours) to hear updates about new tree diseases, insects, and a pesticide re-certification update from a senior VDACS Pesticide Inspector.

Pesticide Records

In accordance with State laws and the City’s IPM policy, pesticide records were kept for each application made by Parks staff. A new system was implemented this year for these records. Parks staff developed a more user-friendly spreadsheet to record and sort the data, which is presented as part of this report. The existing system used an out-of-date database that is not compatible with current operating systems. The new spreadsheet system was implemented about halfway through the summer, and we are still evaluating how well it works.

Downtown Mall Trees

The oak trees downtown are a key part of the landscape and character of the mall and the City. In January 2023, the oaks were pruned to remove dead, diseased, and/or broken branches, and 5 willow oaks were removed. There were also 4 maple trees near Central Place that were removed. Pruning trees is a good way to help keep them healthy by removing dead and dying branches, which can attract insects or serve as entry points for disease. There were several willow oaks downtown that were treated by an outside contractor in the late summer for a damaging insect called ambrosia beetles. The City’s Urban Forester also had these trees inspected by other expert arborists, including an entomologist and plant pathologist from the F.A. Bartlett Tree Expert Company, and locally from Van Yahres Tree Company. The decline and death of the maple trees illustrates the concept of “right tree, right place” because those trees are not suited to grow in that environment (high heat, reduced soil volume).

Emerald Ash Borer: Biocontrol, Pruning, Removals, and Systemic Treatments

We have removed many ash trees due to EAB, and we are currently treating approximately 35 ash trees with a systemic (trunk injected) insecticide to help save them. These treatments are done every two years (by contracted service), and the trees have been identified as good candidates to continue to treat and save because of their location, size, and/or importance.

This year, we were updated on the research done at Ragged Mountain Reservoir to investigate the use of beneficial wasps to help control the emerald ash borer. This is a pest management approach known as biocontrol. In 2021 and 2022, researchers from the USDA Animal and Plant Health Inspection Service released beneficial wasps, capable of parasitizing the eggs of emerald ash borers. In October of 2023, they returned to gather samples from trees to evaluate the efficacy. The bark was removed by a USDA researcher, who will then analyze the sample looking for signs the EAB eggs have been parasitized by the beneficial wasp (results to be determined, and we will be informed of the results). Although a lot of damage has been done to the native ash tree population, this research may yield important scientific advances which may save other ash trees. The City will continue to cooperate with other agencies to work on projects like this.



Goats consuming kudzu near Fry's Spring.

Nutrient Management Plan

The City updated its Nutrient Management Plan in December of 2023. Urban nutrient management plans are required for golf courses, state-owned lands, and publicly owned lands that are fertilized within a Municipal Separate Storm Sewer System (MS4) permit area. Information and soil samples are gathered from each site under our management, and the data is compiled into a comprehensive plan to include detailed fertilizer recommendations. It is written by a Certified Nutrient Manager contracted by the City. We hired a soil consultant to do this sampling in November 2023, and the plan was completed in December. The new nutrient management plan is valid for three years. This plan helps guide fertilizer applicators to apply the correct amount, and type, of fertilizer for each site. This helps our turfgrass remain resilient and healthy, as well as help reduce the negative effects on downstream water quality, which can result from improper fertilization.



USDA staff sampling ash at Ragged Mountain

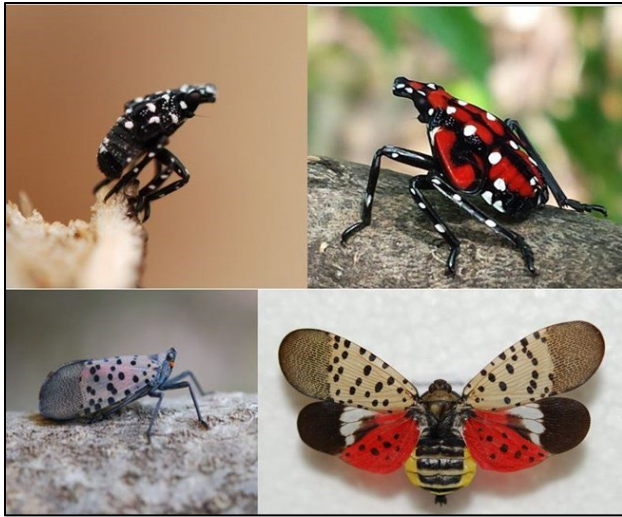


Entomologist from Bartlett Tree Experts

Objectives and Plans for 2024:

- Be on the lookout for Spotted Lantern Fly (SLF): Spotted Lantern Fly is a serious pest for the grape and fruit industries, and a nuisance for urban trees. The urban forestry and horticulture teams will stay informed and aware of developments and how it may affect City landscapes.
- Beech Leaf Disease: this is a relatively newly discovered disease, which is found mostly in the northeast U.S. It is a complex of a disease and nematode (microscopic worm) that begins by infecting beech leaves, which slowly progresses into leaf mortality. It is still not widely known what the potential effects of this disease are.
- Maintain a well-educated, trained, and informed staff (e.g. professional development, continuing education).
- Invasive plants will continue to be an issue, but we will have an on-call contractor for large projects.
- Educating the public and encouraging diversity of plants.
- Watering, mulching, and practicing “right plant, right place.” The best defense against pests is keeping our plants healthy.
- Continue with partnerships and collaboration with other agencies and outside organizations.

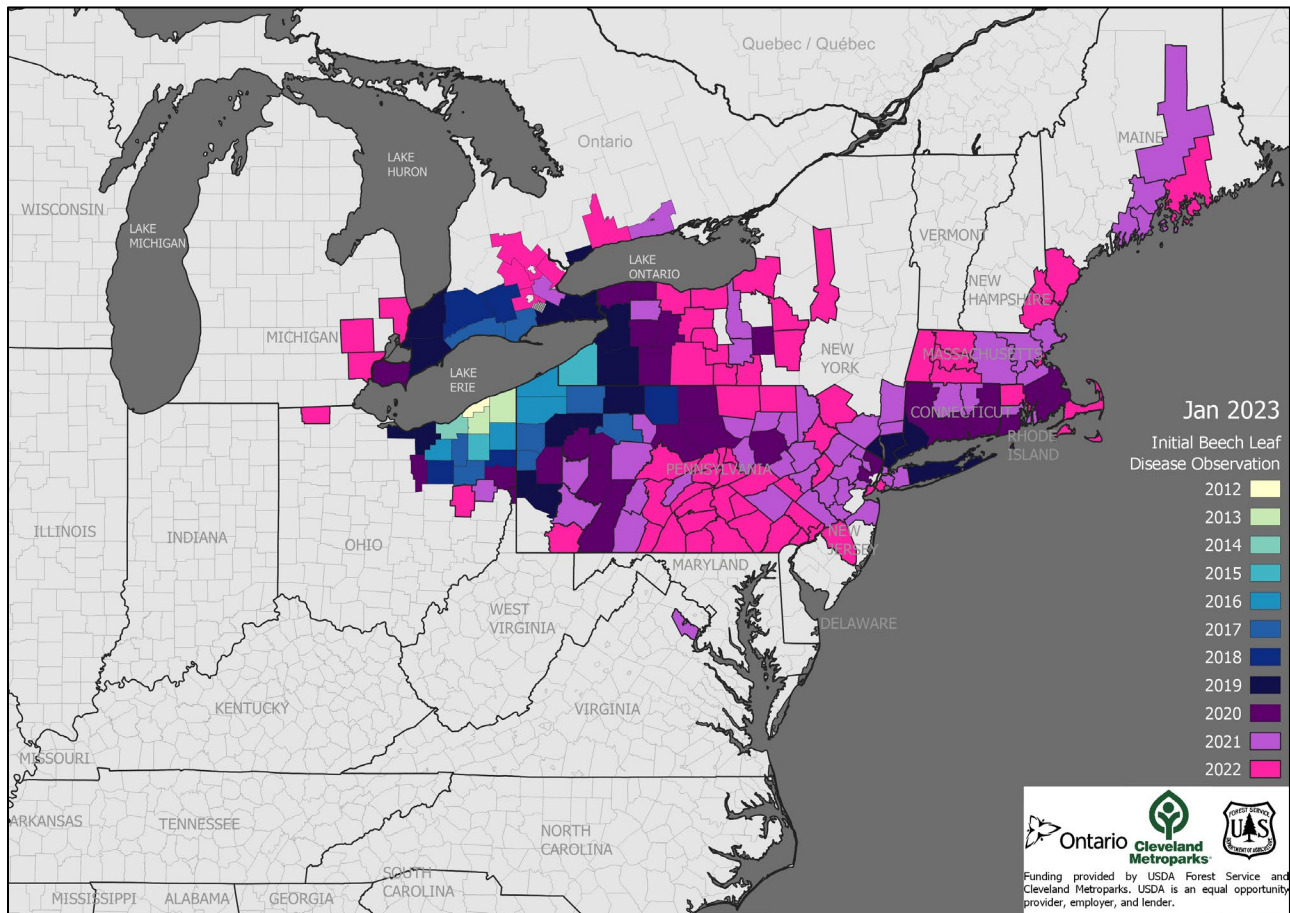
There will be challenges and new pests that may arise this year, and we hope to continue to face these challenges in several different ways. There are several new pests that have been identified in our area that could pose threats to our trees: spotted lanternfly (confirmed in our area), and beech leaf disease (which has been confirmed in northern Virginia). The City’s best resource for identifying and dealing with pest problems is the well-trained staff of workers in the horticulture, turf maintenance, and urban forestry units. We will continue to offer and encourage our staff to stay informed through continuing education (seminars, online courses, etc). We will continue to work with partner organizations (e.g., USDA, Cooperative Extension, VDACS, and the City’s contracted tree service provider, Big-O Tree Company, to identify and advance our IPM objectives through education, cooperative efforts, and scouting.



Spotted Lantern Fly (photo National Park Service)



Beech Leaf Disease (photo Michigan Dept. of Natural Resources)



Beech Leaf Disease distribution: January 2023

PESTICIDE RECORDS 2023																					
Date (mm/dd/yy)	Time (total staff hours)	Applicator Name	License #	General Location Type	Detailed Location (for "multiple locations," put details in notes)	Product Trade Name	Active Ingredient	Epa Reg. #	Signal Word	Product Type	Application equipment	Mix Rate	Unit 1	per	Total amount of mix	Unit 2	Total volume of concentrate	Unit	Area (sq ft.) treated	Type and # of plants treated	Treatment Notes
03/07/23	2.0	William Atwell	101629G	ROW	250 Bypass	Pathfinder	Triclopyr 13.6%	62719-176	Warning	herbicide	Handheld sprayer	0.00	oz.	gallon	16	oz.	16	oz.	16	Stumps	RTU
03/07/23	1.5	Randy Dean	106161G	Multiple Locations		Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	6	gal.	12	oz.	6000	perennial and annual weeds	landscape/beds locations:Azalea, 5th Street, Harris, Bailey
03/08/23	2.0	William Atwell	101629G	ROW	250 Bypass	Pathfinder	Triclopyr 13.6%	62719-176	Warning	herbicide	Handheld sprayer	0.00	oz.	gallon	12	oz.	12	oz.	12	Stumps	RTU
03/08/23	1.0	Randy Dean	106161G	ROW	5th Street	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	3	gal.	6	oz.	3000	perennial and annual weeds	beds 5th, Ridge, Willoughby
03/13/23	0.8	William Atwell	101629G	Park	Azalea	Pathfinder	Triclopyr 13.6%	62719-176	Warning	herbicide	Handheld sprayer	0.00	oz.	gallon	8	oz.	8	oz.	8	Stumps	RTU
03/14/23	2.0	Randy Dean	106161G	Multiple Locations		Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	4	gal.	8	oz.	4000	perennial and annual weeds	10th + Grady, 10th + Preston, Oakhurst Triangle beds
03/15/23	1.0	Randy Dean	106161G	Multiple Locations		Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	2	gal.	4	oz.	2000	perennial and annual weeds	sidewalks, curbs Greenleaf, McIntire Park
03/16/23	2.0	William Atwell	101629G	ROW	250 Bypass	Pathfinder	Triclopyr 13.6%	62719-176	Warning	herbicide	Handheld sprayer	0.00	oz.	gallon	8	oz.	8	oz.	8	Stumps	RTU
03/16/23	1.0	Ronnie Duty	97506G	Park	Washington	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	2	gal.	4	oz.	2000	perennial and annual weeds	sidewalks, curbs
03/16/23	3.5	William Atwell	101629G	ROW	250 Bypass	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Handheld sprayer	1.00	oz.	ounce	6	oz.	6	oz.	6	stumps	Handheld, 6oz (1:1 ratio)
03/20/23	4.0	William Atwell	101629G	ROW	250 Bypass	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Handheld sprayer	1.00	oz.	ounce	16	oz.	16	oz.	16	stumps	Handheld, 16oz (1:1 ratio)
03/20/23	1.0	Kathleen Guevara	163519T	Park	McGuffey	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	1	gal.	2	oz.	1000	perennial and annual weeds	beds/landscape
03/21/23	2.0	Kathleen Guevara	163519T	Park	McGuffey	Snapshot	isoxaben; Trifluarlin	62719-175	Caution	herbicide	Granular	4.60	lbs.	1000 sq ft.			368	oz.	5000	perennial and annual weeds	landscape/beds
03/22/23	2.0	Randy Dean	106161G	Park	McGuffey	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	3	gal.	6	oz.	3000	perennial and annual weeds	beds/ landscape
03/23/23	2.0	Randy Dean	106161G	Park	McGuffey	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	3	gal.	6	oz.	3000	perennial and annual weeds	beds/landscape
03/23/23	1.5	Randy Dean	106161G	Park	McGuffey	Reward	Diquat Dibromide 37.3%	101-1091	Caution	herbicide	Backpack	2.25	oz.	gallon	3	gal.	6.75	oz.	1000	perennial and annual weeds	beds/landscape

03/27/23	0.3	Kathleen Guevara	163519T	Multiple Locations		Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	1	gal.	2	oz.	500	perennial and annual weeds	bump outs on Belmont + CDBG beds across from 822 Hinton Ave.
03/27/23	0.5	Kathleen Guevara	163519T	ROW	Other (see notes)	Snapshot	isoxaben; Trifluralin	62719-175	Caution	herbicide	Granular	4.60	lbs.	1000 sq ft.			4.6	lbs.	1000	perennial and annual weeds	Landscape, Belmont Medians ***
03/28/23	0.5	Randy Dean	106161G	ROW	Other (see notes)	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	2.5	gal.	5	oz.	500	perennial and annual weeds	CDBG beds across from 822 Hinton Ave.
03/28/23	5.2	William Atwell	101629G	ROW	250 Bypass	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Handheld sprayer	1.00	oz.	ounce	26	oz.	26	oz.	26	Stumps	Handheld, 26oz, (1:1 ratio) 250 Bypass near McIntire Rd.
03/30/23	1.0	Kathleen Guevara	163519T	Park	Pen	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	2	gal.	4	oz.	1000	perennial and annual weeds	gravel surrounding greenhouse-pen park
04/04/23	0.5	Kathleen Guevara	163519T	ROW	Other (see notes)	Snapshot	isoxaben; Trifluralin	62719-175	Caution	herbicide	Granular	4.60	lbs.	1000 sq ft.			2.3	lbs.	500	perennial and annual weeds	landscape/beds Craw Garden ***
04/06/23	0.5	Kathleen Guevara	163519T	Multiple Locations		Snapshot	isoxaben; Trifluralin	62719-175	Caution	herbicide	Granular	4.60	lbs.	1000 sq ft.			2.3	lbs.	500	perennial and annual weeds	Various beds/ landscape in downtown Charlottesville. ***
04/13/23	1.0	Kathleen Guevara	163519T	ROW	Mcintire Road/Ridge Street	Snapshot	isoxaben; Trifluralin	62719-175	Caution	herbicide	Granular	4.60	lbs.	1000 sq ft.			2.3	lbs.	500	perennial and annual weeds	beds/landscape Schenk's Greenway **working on weight to determine application rate**
04/18/23	0.5	William Atwell	101629G	ROW	Other (see notes)	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	3	gal.	6	oz.	3000	perennial and annual weeds	Emmett St guardrails/sidewalks
04/19/23	1.5	Randy Dean	106161G	Buildings	Jefferson Center	Lontrel Turf and Ornamental Herbicide	Clopyralid	62719-305	Caution	herbicide	Backpack	1.00	oz.	gallon	2	gal.	2	oz.	500	perennial and annual weeds	crown vetch
04/19/23	2.0	Randy Dean	106161G	Buildings	Jefferson Center	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	3	gal.	18	oz.	1000	perennial and annual weeds	beds
04/19/23	1.0	Randy Dean	106161G	Buildings	Jefferson Center	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	1	gal.	2	oz.	1000	perennial and annual weeds	sidewalks, curbs
04/24/23	2.5	Randy Dean	106161G	Buildings	Jefferson Center	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	3.5	gal.	7	oz.	3000	perennial and annual weeds	sidewalks, curbs
04/24/23	1.5	Randy Dean	106161G	Buildings	Jefferson Center	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Handheld sprayer	1.00	oz.	ounce	1	oz.	4.5	oz.	4.5	perennial and annual weeds	stumps, vines (1:1 Ratio)
05/03/23	3.0	Ronnie Duty	97506G	Multiple Locations		Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	5	gal.	30	oz.	1500	perennial and annual weeds	landscape/ Park beds: Forest Hills, Azalea,Tonsler
05/23/23	2.0	Randy Dean	106161G	Park	Washington	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	4.5	gal.	9	oz.	4000	perennial and annual weeds	sidewalks, curbs, parking lot
05/24/23	2.0	Kathleen Guevara	163519T	Park	Washington	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	3	gal.	18	oz.	1500	perennial and annual weeds	all park beds/ landscape
05/30/23	3.0	Kathleen Guevara	163519T	Park	McIntire Park East	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	6	gal.	12	oz.	6000	perennial and annual weeds	hardscapes, parking lot, curbs etc.

05/30/23	4.0	Ronnie Duty	97506G	Multiple Locations		Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	8	gal.	16	oz.	8000	perennial and annual weeds	hardscapes, parking lot, curbs etc. Parks: Mcintire, Market Street Park
05/31/23	0.5	Kathleen Guevara	163519T	Park	Court Square	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	2.5	gal.	5	oz.	2500	perennial and annual weeds	brick patio
06/07/23	2.0	Ronnie Duty	97506G	ROW	Other (see notes)	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	6	gal.	12	oz.	6000	perennial and annual weeds	curbs and sidewalks along 250/long street, East and West bound
06/08/23	4.0	Kathleen Guevara	163519T	ROW	Preston Ave	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	2.5	gal.	15	oz.	2500	perennial and annual weeds	roadside growth along both sides of Preston Ave.
06/09/23	4.0	Kathleen Guevara	163519T	Multiple Locations		Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	7	gal.	14	oz.	7000	perennial and annual weeds	Pathways and parking lots at Parks: Rives, Quarry, Pen
06/14/23	2.0	Randy Dean	106161G	Multiple Locations		Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	2	gal.	12	oz.	1000	perennial and annual weeds	Park beds: Jordan,Fifeville
06/15/23	8.0	Kathleen Guevara	163519T	School	CHS	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	12	gal.	24	oz.	12000	perennial and annual weeds	hardscapes, parking lot, curbs etc.
06/15/23	4.0	Randy Dean	106161G	School	Multiple Schools	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	5	gal.	30	oz.	1500	perennial and annual weeds	beds at schools: Johnson + Burnley Moran
06/26/23	2.0	Kathleen Guevara	163519T	School	Walker	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	3	gal.	18	oz.	1000	perennial and annual weeds	Admin + School Beds
06/26/23	8.0	Ronnie Duty	97506G	School	Multiple Schools	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	4	gal.	8	oz.	4000	perennial and annual weeds	sidewalks, curbs Schools: Clark, Venable and Lugo McGuiness
06/26/23	8.0	Randy Dean	106161G	School	Multiple Schools	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	7	gal.	42	oz.	2100	perennial and annual weeds	School beds : Clark, Venable, Lugo Mcguiness
06/27/23	7.5	Randy Dean	106161G	School	Walker	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	7	gal.	14	oz.	7000	perennial and annual weeds	sidewalks, curbs, parking lot
06/28/23	4.0	Randy Dean	106161G	School	Buford	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	5	gal.	10	oz.	5000	perennial and annual weeds	sidewalks, curbs, parking lot
06/28/23	3.0	Kathleen Guevara	163519T	School	Johnson	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	7	gal.	42	oz.	2100	perennial and annual weeds	beds and track
06/29/23	4.0	Randy Dean	106161G	School	Multiple Schools	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	6	gal.	12	oz.	6000	perennial and annual weeds	sidewalks, curbs Schools: Greenbrier + Jackson Via
06/29/23	3.0	Kathleen Guevara	163519T	School	Multiple Schools	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	9	gal.	54	oz.	2700	perennial and annual weeds	School beds : Greenbriar + Jackson Via
06/30/23	8.0	Randy Dean	106161G	Multiple Locations		Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	1	gal.	2	oz.	1000	perennial and annual weeds	sidewalks, curbs, parking lot Locations: Jackson Via, Craw Garden, Schenks Greenway
06/30/23	8.0	Randy Dean	106161G	Multiple Locations		Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	6	gal.	36	oz.	1800	perennial and annual weeds	sidewalks, curbs , parking lot locations: Jackson Via, Craw Garden, Schenks Greenway

07/06/23	8.0	Kathleen Guevara	163519T	School	CHS	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	15	gal.	30	oz.	15000	perennial and annual weeds	sidewalks, curbs, parking lot
07/06/23	8.0	Randy Dean	106161G	School	CHS	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	5	gal.	30	oz.	1500	perennial and annual weeds	landscape, chain link fence
07/10/23	2.0	Randy Dean	106161G	Park	McIntire Park East	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	2.00	oz.	gallon	1	gal.	6	oz.	300	perennial and annual weeds	**Vietnam Memorial (needs to be added to parks)**: Beds, tree rings
07/12/23	3.0	Randy Dean	106161G	ROW	250 Bypass	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	5.5	gal.	33	oz.	1650	perennial and annual weeds	weeds in beds along park street ramps, all 4
07/12/23	1.5	Kathleen Guevara	163519T	ROW	250 Bypass	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	2.5	gal.	5	oz.	5000	perennial and annual weeds	weeds along park street ramps all 4, curbs and sidewalks
07/17/23	1.0	Randy Dean	106161G	Park	Pen	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	1	gal.	6	oz.	300	perennial and annual weeds	annual bed at golf course, surrounding walk
07/18/23	1.5	Randy Dean	106161G	Park	Multiple locations	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	3	gal.	18	oz.	1000	perennial and annual weeds	beds/ landscape in parks: McGuffey, Court Square, Market Street
07/18/23	1.5	Kathleen Guevara	163519T	Park	Multiple locations	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	1	gal.	2	oz.	1000	perennial and annual weeds	sidewalks, curbs, parking lot in parks: McGuffey, Court Square, Market Street
07/19/23	2.5	Randy Dean	106161G	School	Multiple Schools	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	3	gal.	18	oz.	1000	perennial and annual weeds	beds and landscape in schools: Clark, Lugo McGuinness
07/19/23	1.5	Kathleen Guevara	163519T	School	Clark	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	2	gal.	4	oz.	2000	perennial and annual weeds	sidewalks, curbs, parking lot
07/20/23	1.0	Rob Mathes	82119G	Cemetery	Oakwood	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	5	gal.	10	oz.	2000	perennial and annual weeds	brick sidewalk at NE corner of cemetery
07/20/23	2.0	Rob Mathes	82119G	Park	Pen	Reward	Diquat Dibromide 37.3%	101-1091	Caution	herbicide	Backpack	0.75	oz.	gallon	4	gal.	3	oz.	1400	perennial and annual weeds	around edge of tennis courts
07/20/23	8.0	Randy Dean	106161G	School	Walker	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	8	gal.	48	oz.	8000	perennial and annual weeds	landscape/beds
07/21/23	5.0	Kathleen Guevara	163519T	School	Walker	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	6	gal.	12	oz.	6000	perennial and annual weeds	sidewalks, curbs, parking lot
07/21/23	3.5	Randy Dean	106161G	Park	Multiple locations	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	4	gal.	24	oz.	1200	perennial and annual weeds	landscape/beds at Parks: Azalea, Belmont, Tonsler
07/21/23	3.5	Kathleen Guevara	163519T	Park	Multiple locations	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	4	gal.	8	oz.	4000	perennial and annual weeds	sidewalks, curbs, parking lot in parks: Azalea, Belmont, Tonsler
07/25/23	2.0	Randy Dean	106161G	School	CHS	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	3	gal.	18	oz.	1000	perennial and annual weeds	CHS Football field, along fence line
07/26/23	1.0	Randy Dean	106161G	School	Venable	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	1	gal.	2	oz.	1000	perennial and annual weeds	sidewalks, curbs, parking lot

07/27/23	2.0	Ronnie Duty	97506G	School	Venable	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	3	gal.	18	oz.	1000	perennial and annual weeds	landscape/beds
07/27/23	1.5	Kathleen Guevara	163519T	School	Multiple Schools	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	1.5	gal.	3	oz.	1000	perennial and annual weeds	sidewalks, curbs Schools: Greenbrier, Johnson
07/27/23	4.0	Randy Dean	106161G	School	Multiple Schools	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	5.5	gal.	33	oz.	1500	perennial and annual weeds	beds/landscape at schools: Johnson, Greenbrier
07/31/23	3.0	Randy Dean	106161G	School	Burnley -Moran	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	4	gal.	24	oz.	1200	perennial and annual weeds	beds/landscape
07/31/23	5.0	Kathleen Guevara	163519T	School	Burnley -Moran	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	7.5	gal.	15	oz.	7000	perennial and annual weeds	sidewalks, curbs, parking lot
08/01/23	2.5	Randy Dean	106161G	Multiple Locations		Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	3	gal.	18	oz.	3000	perennial and annual weeds	sidewalks, curbs, parking lot at locations: Buford Parks and Rec office
08/01/23	1.0	Randy Dean	106161G	School	Buford	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	1	gal.	6	oz.	300	perennial and annual weeds	beds/landscape
08/02/23	1.5	Randy Dean	106161G	School	Multiple Schools	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	2	gal.	12	oz.	600	perennial and annual weeds	beds/landscape at the locations: Greenbrier, Jennkins Park
08/03/23	0.5	Randy Dean	106161G	ROW	Other (see notes)	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	1	gal.	6	oz.	300	perennial and annual weeds	beds/landscape park street bumpouts
08/07/23	1.0	Randy Dean	106161G	Multiple Locations		Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	2	gal.	12	oz.	600	perennial and annual weeds	beds/landscape locations: Key Cnter, Annex, City Hall, Police station, Rives
08/07/23	4.5	Ronnie Duty	97506G	Multiple Locations		Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	5	gal.	10	oz.	5000	perennial and annual weeds	sidewalks, curbs, parking lot following locations: City Hall, Annex, Key Center, Police Station
08/08/23	2.0	Ronnie Duty	97506G	Multiple Locations		Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	3	gal.	18	oz.	1000	perennial and annual weeds	beds/landscape following locations: Jefferson lower, Main and Ridge, Craw Garden
08/09/23	0.5	Randy Dean	106161G	Park	Forest Hills	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	0.5	gal.	1	oz.	1000	perennial and annual weeds	sidewalks
08/09/23	3.0	Randy Dean	106161G	Park	Multiple locations	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	4.5	gal.	27	oz.	1300	perennial and annual weeds	beds/landscape/ playground at following locations: Forest Hills, North East Park
08/16/23	2.0	Randy Dean	106161G	Park	Washington	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	4	gal.	20	oz.	1200	perennial and annual weeds	beds/landscape
08/16/23	5.0	Randy Dean	106161G	Multiple Locations		Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	5.00	oz.	gallon	9	gal.	45	oz.	2700	perennial and annual weeds	lanscaping, paved trails, tree rings JWP
08/17/23	1.5	Randy Dean	106161G	ROW	Preston Ave	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	5.00	oz.	gallon	2	gal.	10	oz.	600	perennial and annual weeds	Shrub banks @ Railroad bridge- Preston Ave
08/17/23	0.3	Randy Dean	106161G	Multiple Locations		Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	0.5	gal.	1	oz.	500	perennial and annual weeds	sidewalks and curbs - Monticello & 6th st NE Bump outs @ crosswalk

08/18/23	2.3	Ronnie Duty	97506G	School	CHS	Reward	Diquat Dibromide 37.3%	101-1091	Caution	herbicide	Hydraulic sprayer	0.75	oz.	gallon	50	gal.	37.5	oz.	4656	vines, trees, perennial and annual weeds	parking lot fence w/ graffiti wall **Tank Sprayer**
08/22/23	0.8	Randy Dean	106161G	Park	Pen	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	3	gal.	18	oz.	1000	perennial and annual weeds	weeds and vines- Chain link fence behind bin wall @ Pen Park Office
08/24/23	4.8	Randy Dean	106161G	ROW		Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	4.5	gal.	27	oz.	1300	perennial and annual weeds	beds/landscape and tree rings @ Schenks Greenway
08/24/23	3.0	Randy Dean	106161G	ROW		Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	4.5	gal.	27	oz.	1300	perennial and annual weeds	beds/landscape, tree rings @ Rescue Squad/ JWP lot
09/12/23	1.0	Randy Dean	106161G	Park	Belmont	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	ounce	1.25	oz.	9	oz.	375	perennial and annual weeds	training day for Keith C -- 1 hour Belmont Park daylilly bank
09/20/23	4.0	Randy Dean	106161G	Multiple Locations		Criterion	Imidacloprid	432-1328	Caution	insecticide	Granular	160.00	oz.	100 sq ft	53	lbs.	848	oz.	135000	treated boxwoods throughout all of charlottesville. 100 plants	**Criterion**
09/22/23	0.5	Randy Dean	106161G	Multiple Locations	City Hall	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	ounce	0.5	gal.	1	oz.	500	perennial and annual weeds	training day for Keith C. -- .50 hr All hardscapes of City hall, City annex, Key center, Police station
09/22/23	2.0	Randy Dean	106161G	Trail	Other (see notes)	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	ounce	2	gal.	12	oz.	600	perennial and annual weeds	Landscape beds and tree rings
09/22/23	2.0	Randy Dean	106161G	Trail	Other (see notes)	Basagram T/O Herbicide	Sodium salt of bentazon	7969-88-82	Caution	herbicide	Backpack	0.75	oz.	ounce	2	gal.	1.5	oz.	2000	perennial and annual weeds	Landscape beds and tree rings
09/28/23	7.0	Rob Mathes	82119G	Park	Washington	Glyphosate 5.4	Glyphosate 53.8%	81927-8	Caution	herbicide	Backpack	2.00	oz.	gallon	24	gal.	48	oz.	22000	woody plants (bush honeysuckle, multiflora rose); viney siltanthus	training day for Steve Gaines -- 3 hours total training (2 backpack sprayers); site location is the wooded area between upper and
09/28/23	7.0	Rob Mathes	82119G	Park	Washington	Triclopyr 4 Ester	Triclopyr 61.6%	10404-119	Caution	herbicide	Backpack	1.00	oz.	gallon	24	gal.	24	oz.	22000	woody plants (bush honeysuckle, multiflora rose); viney siltanthus	training day for Steve Gaines -- 3 hours total training (2 backpack sprayers); site location is the wooded area between upper and
09/28/23	1.0	Rob Mathes	82119G	Park	Washington	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	0.50	oz.	ounce	8	oz.	4	oz.	100	approx. 30 trees of varying size (all < 4" diam)	training day for Steve Gaines -- 1 hours total training (2 backpack sprayers); site location is the wooded area between upper and
10/27/23	2.0	Chris Gensic	130173T	Trail	Other (see notes)	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	4	gal.	8	oz.	3000	numerous perennia	Location: rip rap section of Moore's Creek near Route 20 bridge
09/22/23	1.0	Keith Cecchinelli		Buildings	Other (see notes)	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	1	gal.	6	oz.	1000	annual/perennial weeds and invasives	greenhouse lot and office beds
09/22/23	1.0	Keith Cecchinelli	167723T	Buildings	Other (see notes)	Basagram T/O Herbicide	Sodium salt of bentazon	7969-88-82	Caution	herbicide	Backpack	0.75	oz.	gallon	1	gal.	0.75	oz.	1000	annual/perennial weeds and invasives	greenhouse lot and office beds
09/25/23	0.5	Randy Dean	106161G	ROW	Preston Ave	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	0.5	gal.	1	oz.	250	perennial and annual weeds	Sidewalks, curbs, and stairs
09/25/23	3.0	Randy Dean	106161G	ROW	Preston Ave	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	3.5	gal.	21	oz.	3500	perennial and annual weeds	landscape beds
09/25/23	3.0	Randy Dean	106161G	ROW	Preston Ave	Basagram T/O Herbicide	Sodium salt of bentazon	7969-88-82	Caution	herbicide	Backpack	0.75	oz.	gallon	3.5	gal.	2.65	oz.	3500	perennial and annual weeds	landscape beds

09/29/23	2.0	Randy Dean	106161G	Trail	Other (see notes)	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	3	gal.	18	oz.	3000	perennial and annual weeds	landscape beds along John Warner Parkway/Rescue Squad
09/29/23	2.0	Randy Dean	106161G	Trail	Other (see notes)	Basagram T/O Herbicide	Sodium salt of bentazon	7969-88-82	Caution	herbicide	Backpack	0.75	oz.	gallon	3	gal.	2.25	oz.	3000	perennial and annual weeds	landscape beds along John Warner Parkway/Rescue Squad
10/02/23	1.0	William Atwell	101629G	ROW	Other (see notes)	Eco-mazapyr 2 SL	Isopropylamine salt of Imazapyr 27.8%	81927-22	Caution	herbicide	Backpack	2.00	oz.	gallon	10	oz.	14	oz.		woody stumps	Dairy Rd. banks
10/05/23	1.0	Keith Cecchinelli	167723T	ROW	250 Bypass	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	1	gal.	6	oz.	1000	annual/perennial weeds and invasives	Linear beds-training for Keith
10/05/23	1.0	Keith Cecchinelli	167723T	ROW	250 Bypass	Basagram T/O Herbicide	Sodium salt of bentazon	7969-88-82	Caution	herbicide	Backpack	0.75	oz.	gallon	1	gal.	0.75	oz.	1000	annual/perennial weeds and invasives	Linear beds- training for Keith
10/05/23	1.0	Randy Dean	106161G	ROW	250 Bypass	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	1	gal.	6	oz.	1000	annual/perennial weeds and invasives	linear beds- training for Theo
10/05/23	1.0	Randy Dean	106161G	ROW	250 Bypass	Basagram T/O Herbicide	Sodium salt of bentazon	7969-88-82	Caution	herbicide	Backpack	0.75	oz.	gallon	1	gal.	0.75	oz.	1000	annual/perennial weeds and invasives	linear beds- training for Theo
10/09/23	2.0	Randy Dean	106161G	ROW	250 Bypass	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	2.5	gal.	7.5	oz.	2500	annual/perennial weeds and invasives	park st ramps landscaping- training for Theo
10/09/23	2.0	Randy Dean	106161G	ROW	250 Bypass	Basagram T/O Herbicide	Sodium salt of bentazon	7969-88-82	Caution	herbicide	Backpack	0.75	oz.	gallon	2.5	gal.	1.825	oz.	2500	annual/perennial weeds and invasives	park st ramps landscaping- training for Theo
10/12/23	5.0	Keith Cecchinelli	167723T	Park	Multiple locations	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	7	gal.	42	oz.	7000	annual/perennial weeds and invasives	Washington park, Jenkins Park, and Jordan Park- All landscapng and playgrounds- Training for Keith
10/12/23	5.0	Keith Cecchinelli	167723T	Park	Multiple locations	Basagram T/O Herbicide	Sodium salt of bentazon	7969-88-82	Caution	herbicide	Backpack	0.75	oz.	gallon	7	gal.	5.25	oz.	7000	annual/perennial weeds and invasives	Washington park, Jenkins Park, and Jordan Park- All landscapng and playgrounds- Training for Keith
10/27/23	1.0	Randy Dean	106161G	Park	Vietnam Memorial	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	2	gal.	12	oz.	2000	annual/perennial weeds and invasives	landscape beds
10/27/23	1.0	Randy Dean	106161G	Park	Vietnam Memorial	Basagram T/O Herbicide	Sodium salt of bentazon	7969-88-82	Caution	herbicide	Backpack	0.75	oz.	gallon	2	gal.	1.5	oz.	2000	annual/perennial weeds and invasives	landscape beds
11/07/23	5.0	Randy Dean	106161G	Park	Multiple locations	Spectracide Weed & Grass Killer	Diquat Dibromide 2.3%	9688-293-8845	Warning	herbicide	Backpack	6.00	oz.	gallon	3.5	gal.	21	oz.	3500	annual/perennial weeds and invasives	All landscape beds in Market St Park, Court Square Park, McGuffey Park bank
11/07/23	5.0	Randy Dean	106161G	Park	Multiple locations	Basagram T/O Herbicide	Sodium salt of bentazon	7969-88-82	Caution	herbicide	Backpack	0.75	oz.	gallon	3.5	gal.	3	oz.	3500	annual/perennial weeds and invasives	All landscape beds in Market St Park, Court Square Park, McGuffey Park bank
11/07/23	2.0	Randy Dean	106161G	Park	Multiple locations	Fusilade II	Fluazifop-P-butyl	100-1084	Danger	herbicide	Backpack	0.50	oz.	gallon	1.5	gal.	0.75	oz.	1500	Volunteer miscanthus and bermuda grass	Market St. Park and Buford school
11/07/23	2.0	Randy Dean	106161G	Park	Multiple locations	Vantage	Sethoxydim	7969-326	Caution	herbicide	Backpack	3.00	oz.	gallon	1.5	gal.	4.5	oz.	1500	Volunteer miscanthus and bermuda grass	Market St. Park and Buford school