



Vector Disease Control, Inc.

Mosquito Surveillance and Control Report

for the

City of Jonesboro

April and May 2008

2221 N. Church St. Jonesboro, AR 72401

T-870.933.6939 F- 870.933.0122





City of Jonesboro Activity Report

April and May 2008

Vector Disease Control, Inc. (VDCI) provides a proven, scientific approach to mosquito control for the city of Jonesboro. VDCI's operations include larval and adult mosquito surveillance followed by the application of larvicides and adulticides. In addition, our office responds to service requests from the public.

Mosquito Surveillance

VDCI has utilized a total of thirteen (13) New Jersey light traps placed in residential and recreational areas throughout Jonesboro during this reporting period. These traps collected an average of 5.7 mosquitoes per trap night (221 total mosquitoes) during this time. There have been a total of 2 mosquito species collected, with *Aedes vexans* being the most predominant species. With an average trap count of 16.7, the Pleasantview trap has consistently collected the most mosquitoes.

Larval Control Activity

Permanent water, flood water, artificial containers, and drainage system sites are inspected for larval mosquito breeding on a regular basis. In total, 24 site inspections found the presence of mosquito larvae. As a result of these inspections, 432 ounces (27 pounds) of granular BTI (Aquabac 400g); 10.5 ounces of liquid Aquabac XT; 61 Altosid briquettes and 2 Altosid XR briquettes were applied to these mosquito breeding sites. Additionally, VDCI is continuing to eliminate breeding habitats for artificial container mosquitoes by targeting bird baths, buckets, tires, etc.



Adult Mosquito Control Activity

In response to community events and mosquito surveillance data, VDCI applied the adulticide Permanone 30-30 on ten (10) truck nights for this reporting period. All ten adulticide ULV applications were made with truck-mounted ULV units equipped with GPS-enabled monitors. During this report period, a total of 661 spray miles (24,037 acres) were treated with a total of 119 gallons of Permanone 30-30 adulticide in residential and recreational areas. In addition to routine truck spraying, VDCI has responded to 27 service requests and adulticided for all parks and any special events, including softball and soccer tournaments, during this month.

Summary

During the months of April and May, VDCI has continued to provide exceptional control of larval and adult mosquito populations. VDCI will remain diligent in our surveillance and control activities to prevent a significant increase in the mosquito population. Based on recent weather conditions VDCI expects the trend of routine adulticiding and larviciding to continue. However, if VDCI detects a significant rise in the mosquito population we will increase larval and adult control. As always, VDCI welcomes residents with any mosquito-related questions or concerns to contact VDCI's Jonesboro office directly at 870.933.6939.



Larvicide Applications

Start Date: 4/15/2008 End Date: 5/31/2008

Jonesboro

Date	Location	Habitat	No. of Larvae	Larvicide	Amount Applied (oz.)
Zone 1 Applications					
5/16/2008	1604 Winchester	ditch	1-10	Altosid SR (2724-446)	5.00
5/28/2008	Joe Mack	ditch	1-10	Altosid SR (2724-446)	2.00
	Joe Mack	ditch	1-10	Altosid SR (2724-446)	2.00
	On Target	ditch	1-10	Altosid SR (2724-446)	2.00
<i>Total Ounces Applied:</i>					<i>11.00</i>
5/28/2008	Joe Mack	ditch	1-10	Altosid XR (2724-421)	2.00
<i>Total Ounces Applied:</i>					<i>2.00</i>
5/28/2008	On Target	ditch	0	Aquabac 400G	80.00
<i>Total Ounces Applied:</i>					<i>80.00</i>
<i>Total Larvicide Applied in Zone 1:</i>					<i>93.00</i>
Zone 2 Applications					
5/21/2008	Gee/Matthews	ditch	1-10	Altosid SR (2724-446)	6.00
5/30/2008	Christian Creek Apts.	ditch	1-10	Altosid SR (2724-446)	8.00
	College St.	ditch	1-10	Altosid SR (2724-446)	3.00
<i>Total Ounces Applied:</i>					<i>17.00</i>
5/21/2008	Gee/Matthews	ditch	1-10	Aquabac 400G	16.00
<i>Total Ounces Applied:</i>					<i>16.00</i>
<i>Total Larvicide Applied in Zone 2:</i>					<i>33.00</i>
Zone 4 Applications					
5/5/2008	4520 Stinnett	ditch	1-10	Aquabac 400G	32.00
5/9/2008	1304 Hidden Valley Dr.	ditch	1-10	Aquabac 400G	32.00
<i>Total Ounces Applied:</i>					<i>64.00</i>
5/9/2008	1304 Hidden Valley Dr.	ditch	1-10	Aquabac XT (62637-1)	3.50

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Date	Location	Habitat	No. of Larvae	Larvicide	Amount Applied (oz.)
<i>Total Ounces Applied:</i>					3.50
<i>Total Larvicide Applied in Zone 4:</i>					67.50
Zone 5 Applications					
5/22/2008	Parker Rd	ditch	1-10	Aquabac 400G	32.00
	Richardson/Wise Rd	ditch	1-10	Aquabac 400G	32.00
	Richardson/Limestone	ditch	1-10	Aquabac 400G	48.00
<i>Total Ounces Applied:</i>					112.00
<i>Total Larvicide Applied in Zone 5:</i>					112.00
Zone 6 Applications					
5/16/2008	2909 Scotchwood	ditch	1-10	Altosid SR (2724-446)	3.00
5/30/2008	201 Carter Dr.	ditch	1-10	Altosid SR (2724-446)	2.00
	4309 Sage Meadows	ditch	1-10	Altosid SR (2724-446)	4.00
<i>Total Ounces Applied:</i>					9.00
5/16/2008	2909 Scotchwood	ditch	1-10	Aquabac 400G	32.00
5/30/2008	201 Carter Dr.	ditch	1-10	Aquabac 400G	16.00
<i>Total Ounces Applied:</i>					48.00
<i>Total Larvicide Applied in Zone 6:</i>					57.00
Zone 7 Applications					
5/16/2008	Thomas Greene		1-10	Altosid SR (2724-446)	6.00
<i>Total Ounces Applied:</i>					6.00
5/16/2008	Thomas Greene	ditch	1-10	Aquabac 400G	32.00
<i>Total Ounces Applied:</i>					32.00
<i>Total Larvicide Applied in Zone 7:</i>					38.00
Zone 8 Applications					
5/16/2008	Concord	ditch	1-10	Altosid SR (2724-446)	3.00
	Greenbriar	ditch	1-10	Altosid SR (2724-446)	3.00
	Spence Cir.	ditch	1-10	Altosid SR (2724-446)	4.00
<i>Total Ounces Applied:</i>					10.00
5/16/2008	Greenbriar	ditch	1-10	Aquabac XT (62637-1)	7.00

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Date	Location	Habitat	No. of Larvae	Larvicide	Amount Applied (oz.)
<i>Total Ounces Applied:</i>					7.00
<i>Total Larvicide Applied in Zone 8:</i>					17.00
Zone 10 Applications					
5/29/2008	Shasta Drvie	ditch	1-10	Altosid SR (2724-446)	3.00
<i>Total Ounces Applied:</i>					3.00
<i>Total Larvicide Applied in Zone 10:</i>					3.00
Zone 11 Applications					
5/27/2008	3521 Airport	ditch	1-10	Altosid SR (2724-446)	1.00
	E. Highland	ditch	1-10	Altosid SR (2724-446)	2.00
	Fair Park Blvd.	ditch	1-10	Altosid SR (2724-446)	2.00
<i>Total Ounces Applied:</i>					5.00
4/29/2008	Mary Jane	ditch	1-10	Aquabac 400G	32.00
5/27/2008	3521 Airport Rd	ditch	1-10	Aquabac 400G	16.00
	Bittle/Nettleton	ditch	1-10	Aquabac 400G	16.00
	Fair Park Blvd.	ditch	1-10	Aquabac 400G	16.00
<i>Total Ounces Applied:</i>					80.00
<i>Total Larvicide Applied in Zone 11:</i>					85.00
<i>Overall Total Ounces Applied</i>					505.50



Ground Adulticide Applications

Start Date: 4/15/2008 End Date: 5/31/2008

Jonesboro

Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
Zone 1 Adulticide Applications								
April 2008	4/25/2008	specials	Permanone 30-30 (432-1235)	1:12	0.0	45.0	1636.0	3.0
<i>Total Permanone 30-30 (432-1235) Applied:</i>								3.0
Zone 1 Totals:					0.0	45.0	1,636.0	3.0
Zone 2 Adulticide Applications								
May 2008	5/6/2008	specials	Permanone 30-30 (432-1235)	1:12	0.0	51.0	1855.0	6.0
	5/31/2008	B	Permanone 30-30 (432-1235)	1:12	0.0	46.0	1673.0	6.0
<i>Total Permanone 30-30 (432-1235) Applied:</i>								12.0
Zone 2 Totals:					0.0	97.0	3,528.0	12.0
Zone 3 Adulticide Applications								
May 2008	5/20/2008		Permanone 30-30 (432-1235)	1:12	0.0	28.0	1018.0	7.0
<i>Total Permanone 30-30 (432-1235) Applied:</i>								7.0
Zone 3 Totals:					0.0	28.0	1,018.0	7.0
Zone 4 Adulticide Applications								
May 2008	5/9/2008		Permanone 30-30 (432-1235)	1:12	0.0	36.0	1309.0	8.0
	5/16/2008		Permanone 30-30 (432-1235)	1:12	0.0	38.0	1382.0	7.0
	5/21/2008		Permanone 30-30 (432-1235)	1:12	0.0	32.0	1164.0	7.0

Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
May 2008	5/23/2008	B	Permanone 30-30 (432-1235)	1:12	0.0	38.0	1382.0	11.0
	5/31/2008	A	Permanone 30-30 (432-1235)	1:12	0.0	39.0	1418.0	8.0
<i>Total Permanone 30-30 (432-1235) Applied:</i>								41.0
Zone 4 Totals:					0.0	183.0	6,655.0	41.0
Zone 6 Adulticide Applications								
May 2008	5/8/2008	specials	Permanone 30-30 (432-1235)	1:12	0.0	38.0	1382.0	4.0
	5/9/2008		Permanone 30-30 (432-1235)	1:12	0.0	44.0	1600.0	8.0
	5/23/2008		Permanone 30-30 (432-1235)	1:12	0.0	38.0	1382.0	9.0
<i>Total Permanone 30-30 (432-1235) Applied:</i>								21.0
Zone 6 Totals:					0.0	120.0	4,364.0	21.0
Zone 7 Adulticide Applications								
May 2008	5/16/2008		Permanone 30-30 (432-1235)	1:12	0.0	39.0	1418.0	7.0
<i>Total Permanone 30-30 (432-1235) Applied:</i>								7.0
Zone 7 Totals:					0.0	39.0	1,418.0	7.0
Zone 8 Adulticide Applications								
May 2008	5/6/2008	specials	Permanone 30-30 (432-1235)	1:12	0.0	39.0	1418.0	7.0
<i>Total Permanone 30-30 (432-1235) Applied:</i>								7.0
Zone 8 Totals:					0.0	39.0	1,418.0	7.0
Zone 10 Adulticide Applications								
May 2008	5/9/2008		Permanone 30-30 (432-1235)	1:12	0.0	47.0	1709.0	7.0
<i>Total Permanone 30-30 (432-1235) Applied:</i>								7.0
Zone 10 Totals:					0.0	47.0	1,709.0	7.0

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Month	Date	Municipality	Chemical	Mix Ratio	Trip Miles	Spray Miles	Spray Acres	Gallons Sprayed
Zone 11 Adulticide Applications								
May 2008	5/20/2008		Permanone 30-30 (432-1235)	1:12	0.0	28.0	1018.0	7.0
	5/27/2008	9 and 11	Permanone 30-30 (432-1235)	1:12	0.0	35.0	1273.0	7.0
					<i>Total Permanone 30-30 (432-1235) Applied:</i>			<i>14.0</i>
Zone 11 Totals:					0.0	63.0	2,291.0	14.0
Grand Totals:					0.0	661.0	24,037.0	119.0



Service Request Adulticide Applications

Start Date: 4/15/2008 End Date: 5/31/2008

Jonesboro

Date	Location	Chemical	Mix Ratio	Ounces Sprayed
Zone 2 Adulticide Applications				
5/27/2008	907 Wilmar	Permanone 30-30 (432-1235)	1:12	12.0
5/31/2008	1701 Dupwe	Permanone 30-30 (432-1235)	1:12	16.0
Total Permanone 30-30 (432-1235) Applied:				28.0 (0.2 gals)
5/22/2008	1824 Rosemond	Scourge RTU	Neat	10.0
5/30/2008	1701 Dupwe	Scourge RTU	Neat	8.0
5/30/2008	671 W. Elm	Scourge RTU	Neat	10.0
Total Scourge RTU Applied:				28.0 (0.2 gals)
Zone 3 Adulticide Applications				
5/8/2008	3120 Woodsprings Rd.	Permanone 30-30 (432-1235)	1:12	15.0
Total Permanone 30-30 (432-1235) Applied:				15.0 (0.1 gals)
Zone 4 Adulticide Applications				
5/8/2008	Winterhaven	Permanone 30-30 (432-1235)	1:12	15.0
5/30/2008	5915 Crowley's Ridge Rd.	Permanone 30-30 (432-1235)	1:12	10.0
Total Permanone 30-30 (432-1235) Applied:				25.0 (0.2 gals)
5/7/2008	601 Old Canyon Rd.	Scourge RTU	Neat	6.0
5/20/2008	708 Utnage	Scourge RTU	Neat	10.0
Total Scourge RTU Applied:				16.0 (0.1 gals)
Zone 5 Adulticide Applications				
4/23/2008	1349 Medallion Dr.	Permanone 30-30 (432-1235)		10.0
5/8/2008	2305 Fox Meadow Lane	Permanone 30-30 (432-1235)	1:12	15.0
5/27/2008	5715 King's Point Lane	Permanone 30-30 (432-1235)	1:12	16.0
Total Permanone 30-30 (432-1235) Applied:				41.0 (0.3 gals)
5/22/2008	3401 Colony Park	Scourge RTU	Neat	8.0
Total Scourge RTU Applied:				8.0 (0.1 gals)
Zone 6 Adulticide Applications				

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Date	Location	Chemical	Mix Ratio	Ounces Sprayed
5/16/2008	208 Karen Ct.	Permanone 30-30 (432-1235)	1:12	22.0
5/21/2008	1002 Kimberly	Permanone 30-30 (432-1235)	1:12	16.0
<i>Total Permanone 30-30 (432-1235) Applied:</i>				38.0 (0.3 gals)
5/16/2008	208 Karen Ct.	Scourge RTU	Neat	16.0
<i>Total Scourge RTU Applied:</i>				16.0 (0.1 gals)
Zone 7 Adulticide Applications				
5/21/2008	909 Sylvan Hills	Scourge RTU	Neat	8.0
5/30/2008	909 Sylvan Hills	Scourge RTU	Neat	8.0
<i>Total Scourge RTU Applied:</i>				16.0 (0.1 gals)
Zone 8 Adulticide Applications				
5/6/2008	3029 Martinbrook Dr.	Permanone 30-30 (432-1235)	1:12	8.0
<i>Total Permanone 30-30 (432-1235) Applied:</i>				8.0 (0.1 gals)
5/23/2008	505 Mallard	Scourge RTU	Neat	8.0
5/29/2008	1001 Union St.	Scourge RTU	Neat	8.0
5/30/2008	1415 Hidden Cove	Scourge RTU	Neat	14.0
<i>Total Scourge RTU Applied:</i>				30.0 (0.2 gals)
Zone 9 Adulticide Applications				
5/19/2008	2208 Commerce	Permanone 30-30 (432-1235)	1:12	25.0
<i>Total Permanone 30-30 (432-1235) Applied:</i>				25.0 (0.2 gals)
Zone 10 Adulticide Applications				
5/6/2008	3626 Flemon	Permanone 30-30 (432-1235)	1:12	12.0
<i>Total Permanone 30-30 (432-1235) Applied:</i>				12.0 (0.1 gals)
Zone 11 Adulticide Applications				
5/8/2008	2205 Sutton	Permanone 30-30 (432-1235)	1:12	8.0
<i>Total Permanone 30-30 (432-1235) Applied:</i>				8.0 (0.1 gals)
5/12/2008	3808 Griffin	Scourge RTU	Neat	4.0
<i>Total Scourge RTU Applied:</i>				4.0 (0.0 gals)
Grand Totals				318.0 (2.5 gals)



Adult Mosquito Surveillance Report

Start Date: 4/15/2008 End Date: 5/31/2008

Jonesboro

Trap Location	Date Trap Set	Trap Type	Mosquito Species	No. Collected
Zone 1 Collections				
Shady Lane	4/30/2008	NJ Light Trap	<i>No Mosquitoes</i>	0
Shady Lane	5/13/2008	NJ Light Trap	<i>Aedes vexans</i>	14
Shady Lane	5/21/2008	NJ Light Trap	<i>Aedes vexans</i>	3
Trap Total				17 (Avg. 5.7)
Sugar Ridge	4/30/2008	NJ Light Trap	<i>Aedes vexans</i>	6
Sugar Ridge	5/13/2008	NJ Light Trap	<i>Aedes vexans</i>	4
Sugar Ridge	5/21/2008	NJ Light Trap	<i>Aedes vexans</i>	2
Trap Total				12 (Avg. 4)
Zone 2 Collections				
Strawfloor	4/30/2008	NJ Light Trap	<i>Aedes vexans</i>	4
Strawfloor	5/13/2008	NJ Light Trap	<i>Aedes vexans</i>	7
Strawfloor	5/21/2008	NJ Light Trap	<i>Aedes vexans</i>	3
Trap Total				14 (Avg. 4.7)
Zone 3 Collections				
Ridgepointe	5/8/2008	NJ Light Trap	<i>Aedes vexans</i>	11
Ridgepointe	5/19/2008	NJ Light Trap	<i>Aedes vexans</i>	2
Ridgepointe	5/27/2008	NJ Light Trap	<i>Aedes vexans</i>	2
Trap Total				15 (Avg. 5)
Zone 4 Collections				
Partridge	5/8/2008	NJ Light Trap	<i>Aedes vexans</i>	2
			<i>Aedes vexans</i>	18
Partridge	5/19/2008	NJ Light Trap	<i>Aedes vexans</i>	7
Partridge	5/27/2008	NJ Light Trap	<i>Aedes vexans</i>	5
Trap Total				32 (Avg. 10.7)
Zone 5 Collections				

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Trap Location	Date Trap Set	Trap Type	Mosquito Species	No. Collected
Frog Pond	5/8/2008	NJ Light Trap	<i>Aedes vexans</i>	3
Frog Pond	5/19/2008	NJ Light Trap	<i>Aedes vexans</i>	6
Frog Pond	5/27/2008	NJ Light Trap	<i>Aedes vexans</i>	2
			<i>Psorophora columbiae</i>	1
Trap Total				12 (Avg. 4)

Zone 6 Collections

Oakhill	4/30/2008	NJ Light Trap	<i>Aedes vexans</i>	7
Oakhill	5/13/2008	NJ Light Trap	<i>Aedes vexans</i>	11
Oakhill	5/21/2008	NJ Light Trap	<i>Aedes vexans</i>	3
Trap Total				21 (Avg. 7)
Pleasantview	4/30/2008	NJ Light Trap	<i>Aedes vexans</i>	20
Pleasantview	5/13/2008	NJ Light Trap	<i>Aedes vexans</i>	22
Pleasantview	5/21/2008	NJ Light Trap	<i>Aedes vexans</i>	8
Trap Total				50 (Avg. 16.7)

Zone 8 Collections

Briarcrest	5/8/2008	NJ Light Trap	<i>Aedes vexans</i>	2
Briarcrest	5/19/2008	NJ Light Trap	<i>Aedes vexans</i>	3
Briarcrest	5/27/2008	NJ Light Trap	<i>Aedes vexans</i>	5
Trap Total				10 (Avg. 3.3)
Gerald's	5/8/2008	NJ Light Trap	No Mosquitoes	0
Gerald's	5/19/2008	NJ Light Trap	<i>Aedes vexans</i>	3
Gerald's	5/27/2008	NJ Light Trap	No Mosquitoes	0
Trap Total				3 (Avg. 1)
Jefferson	4/30/2008	NJ Light Trap	<i>Aedes vexans</i>	1
Jefferson	5/13/2008	NJ Light Trap	No Mosquitoes	0
Jefferson	5/21/2008	NJ Light Trap	<i>Aedes vexans</i>	4
Trap Total				5 (Avg. 1.7)

Zone 9 Collections

Cottag Home	5/19/2008	NJ Light Trap	No Mosquitoes	0
Cottag Home	5/27/2008	NJ Light Trap	<i>Aedes vexans</i>	1
Trap Total				1 (Avg. 0.5)

Trap Location	Date Trap Set	Trap Type	Mosquito Species	No. Collected
Cottage Home	5/8/2008	NJ Light Trap	<i>Aedes vexans</i>	6
<i>Trap Total</i>				6 (Avg. 6)

Zone 10 Collections

Ashwood	5/8/2008	NJ Light Trap	<i>Aedes vexans</i>	11
Ashwood	5/19/2008	NJ Light Trap	<i>Aedes vexans</i>	10
Ashwood	5/27/2008	NJ Light Trap	<i>Aedes vexans</i>	2
<i>Trap Total</i>				23 (Avg. 7.7)

<i>Overall Trap Total</i>	221
<i>Overall Trap Average</i>	5.7



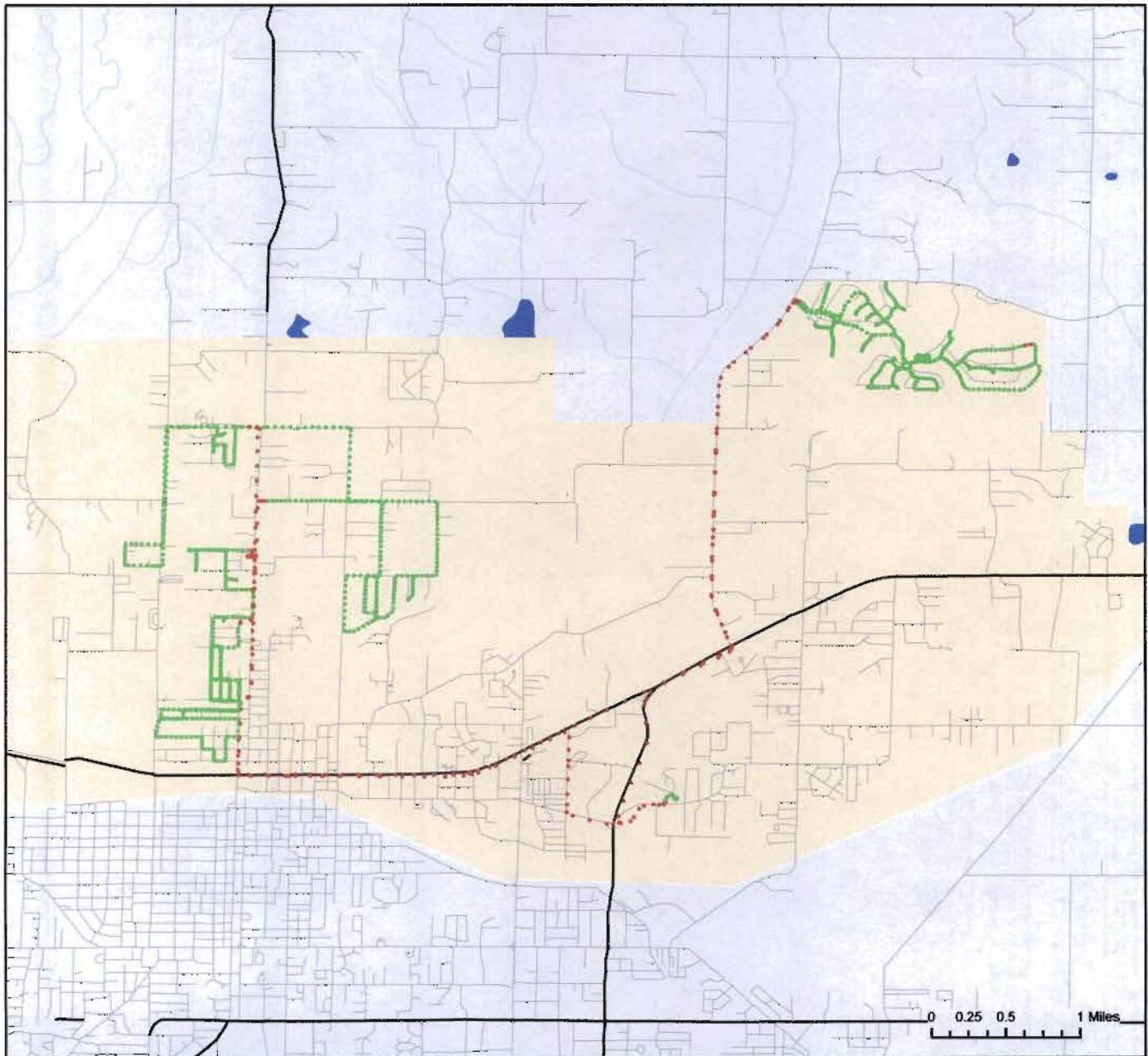
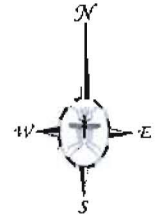
The City of Jonesboro, Arkansas

Ground Adulticide Application Date:
May 16, 2008

Sprayer Status

- Spray Off
- Spray On

Chemical: Permanone 30-30
Quantity Used: 7.5 gal
Miles Treated: 25.3
Acres Treated: 918.0



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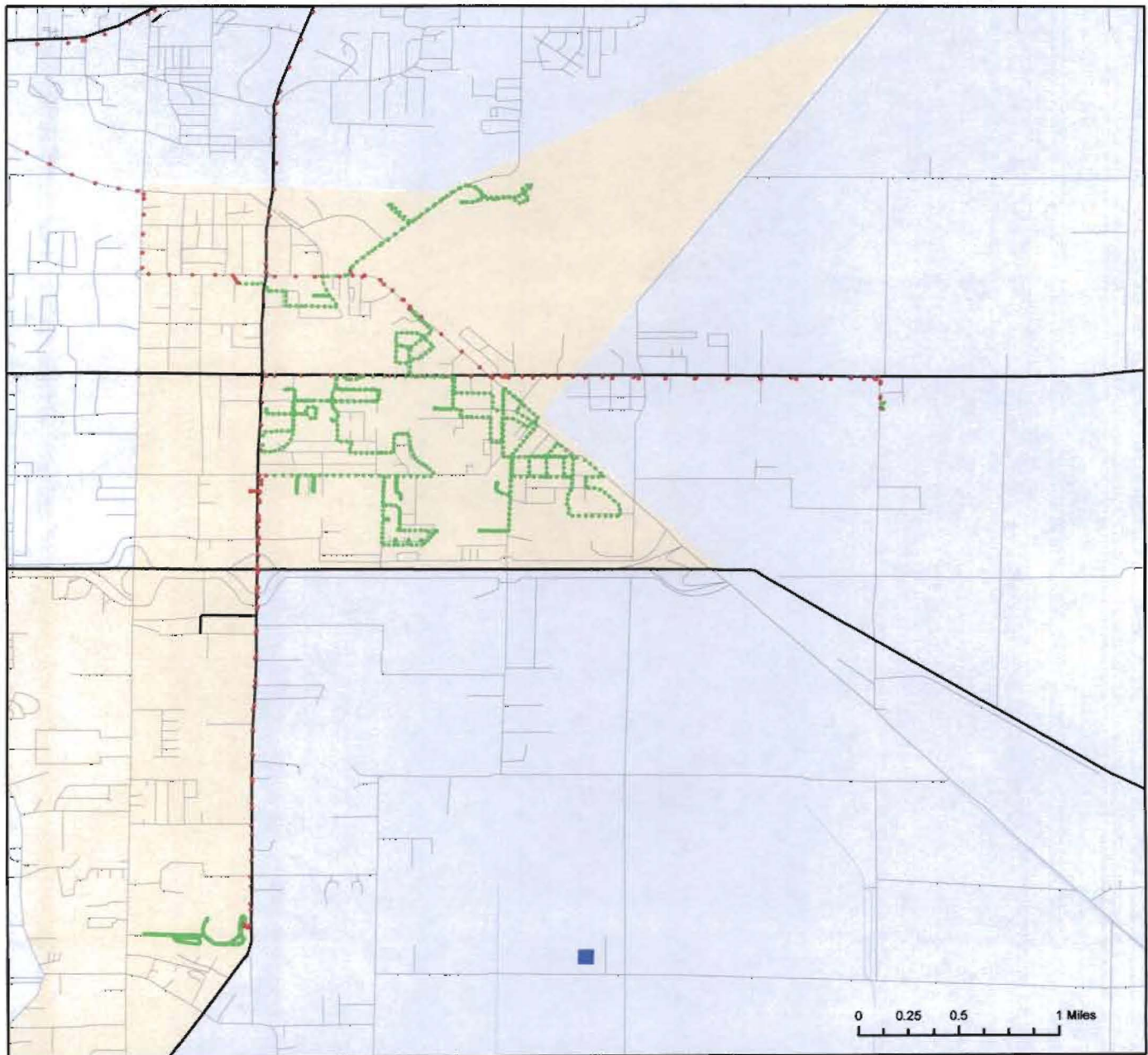
The City of Jonesboro, Arkansas

Ground Adulticide Application Date: May 20, 2008

Sprayer Status

- Spray Off
- Spray On

Chemical: Permanone 30-30
 Quantity Used: 6.9 gal
 Miles Treated: 18.4
 Acres Treated: 667.0



0 0.25 0.5 1 Miles

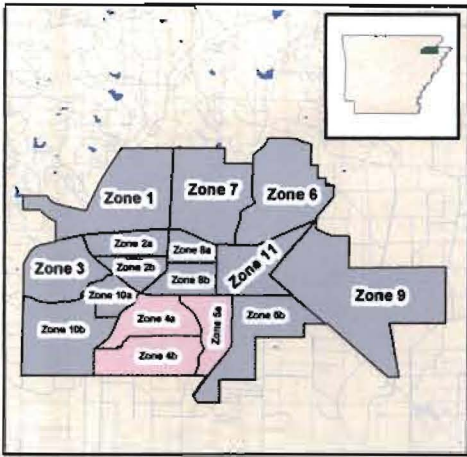


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The City of Jonesboro, Arkansas

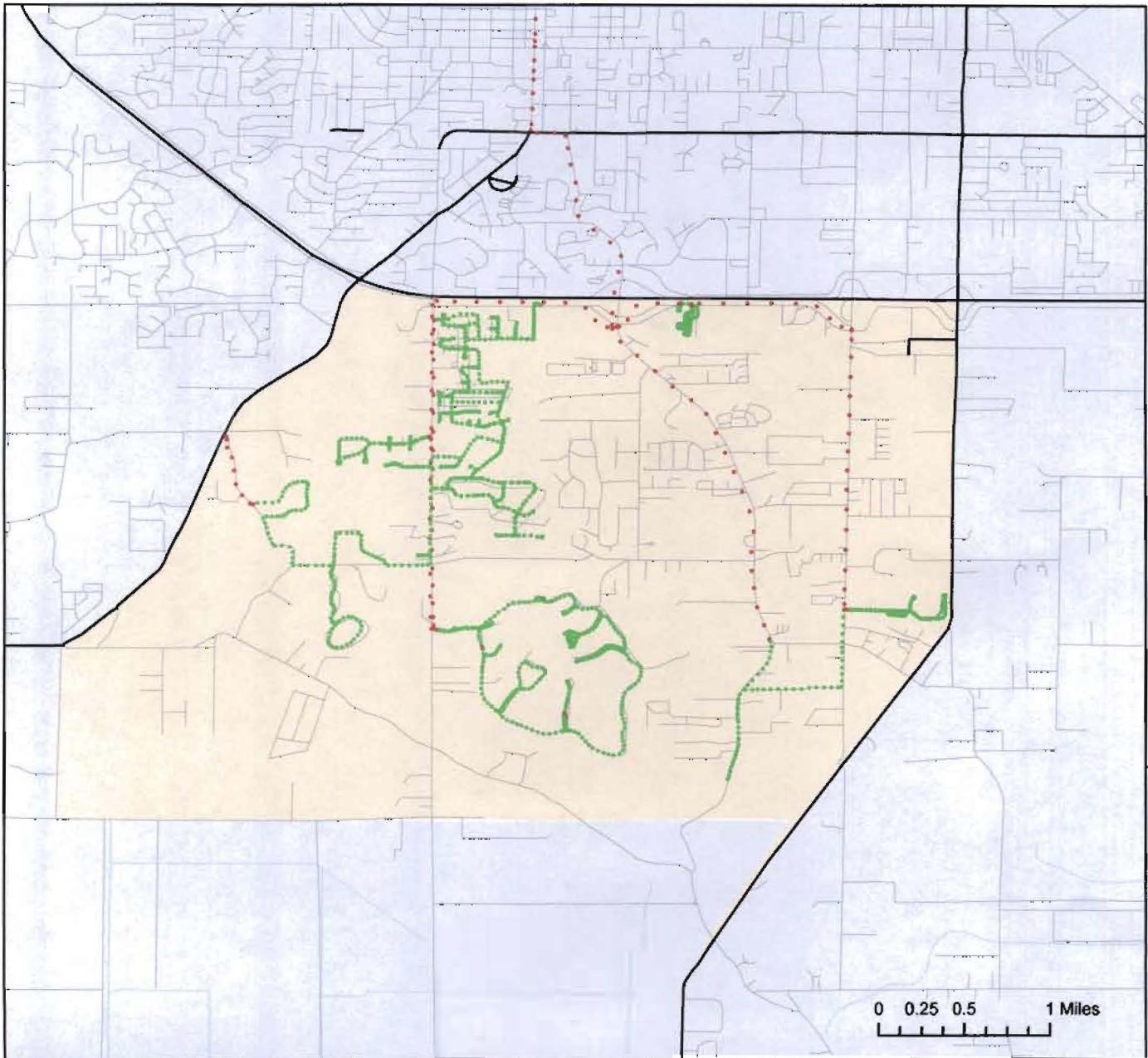
Ground Adulticide Application Date:
May 31, 2008



Sprayer Status

- Spray Off
- Spray On

Chemical: Permanone 30-30
Quantity Used: 9.6 gal
Miles Treated: 29.1
Acres Treated: 1,055.0



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