

Vector Disease Control, Inc.

Mosquito Surveillance and Control Report

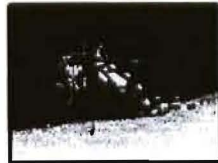
for the

**City of Jonesboro**

June 2009

2221 N. Church St. Jonesboro, AR 72401

T-870.933.6939 F- 870.933.0122





## **City of Jonesboro Activity Report**

**June 2009**

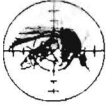
Vector Disease Control, Inc. (VDCI) provides a proven, scientific approach to mosquito control for the city of Jonesboro. VDCI's operations include larval and adult mosquito surveillance followed by the application of larvicides and adulticides. In addition, our office responds to service requests from 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 **12** mosquitoes per trap night (**511** total mosquitoes) during this time. There have been a total of **4** mosquito species collected, with *Aedes vexans* being the most predominant species. With an average trap count of **73**, the Ridgepointe 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, **36** site inspections found the presence of mosquito larvae. As a result of these inspections, **208** ounces (**13** pounds) of Aquabac 400g, **244** ounces (**15.25** pounds) of Aquabac 200g, and **2** Altosid SR 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 **12** truck nights for this reporting period. All **12** adulticide ULV applications were made with truck-mounted ULV units equipped with GPS-enabled monitors. During this report period, a total of **1,341** spray miles (**48,761** acres) were treated with a total of **173** gallons of Permanone 30-30 adulticide in residential and recreational areas. In addition to routine truck spraying, VDCI has responded to **13** service requests and adulticided all parks and any special events during this period.

### **Summary**

During the month of June, 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.



## Adult Mosquito Surveillance Report

Start Date: 6/1/2009

End Date: 6/30/2009

### Jonesboro

Trap Location	Date Set	Trap Type	Species	No. Collected
<b>Zone 1 Collections</b>				
Shady Lane	6/3/2009	NJ Light Trap	<i>No Mosquitoes</i>	0
Shady Lane	6/24/2009	NJ Light Trap	<i>Psorophora columbiae</i>	2
Shady Lane	6/30/2009	NJ Light Trap	<i>Anopheles quadrimaculatus</i>	10
			<i>Psorophora columbiae</i>	1
				<b>Trap total: 13 (Avg: 4)</b>
Sugar Ridge	6/3/2009	NJ Light Trap	<i>Aedes vexans</i>	7
			<i>Psorophora columbiae</i>	14
Sugar Ridge	6/24/2009	NJ Light Trap	<i>Psorophora columbiae</i>	2
			<i>Anopheles quadrimaculatus</i>	1
Sugar Ridge	6/30/2009	NJ Light Trap	<i>Psorophora columbiae</i>	2
			<i>Anopheles quadrimaculatus</i>	8
				<b>Trap total: 34 (Avg: 11)</b>
<b>Zone 10 Collections</b>				
Ashwood	6/2/2009	NJ Light Trap	<i>Aedes vexans</i>	14
Ashwood	6/10/2009	NJ Light Trap	<i>Aedes vexans</i>	14
Ashwood	6/16/2009	NJ Light Trap	<i>Anopheles quadrimaculatus</i>	1
			<i>Aedes vexans</i>	8
Ashwood	6/23/2009	NJ Light Trap	<i>No Mosquitoes</i>	0
				<b>Trap total: 37 (Avg: 9)</b>
<b>Zone 2 Collections</b>				
Strawfloor	6/3/2009	NJ Light Trap	<i>Culex restuans</i>	3
			<i>Aedes vexans</i>	9
Strawfloor	6/24/2009	NJ Light Trap	<i>Psorophora columbiae</i>	1
			<i>Aedes vexans</i>	2
Strawfloor	6/30/2009	NJ Light Trap	<i>Anopheles quadrimaculatus</i>	7
				<b>Trap total: 22 (Avg: 7)</b>
<b>Zone 3 Collections</b>				
Ridgepointe	6/2/2009	NJ Light Trap	<i>Aedes vexans</i>	40
			<i>Psorophora columbiae</i>	4
Ridgepointe	6/10/2009	NJ Light Trap	<i>Aedes vexans</i>	23

			<i>Anopheles quadrimaculatus</i>	2
			<i>Culex restuans</i>	3
			<i>Psorophora columbiae</i>	1
Ridgepointe	6/16/2009	NJ Light Trap	<i>Aedes vexans</i>	9
			<i>Anopheles quadrimaculatus</i>	1
Ridgepointe	6/23/2009	NJ Light Trap	<i>Anopheles quadrimaculatus</i>	12
			<i>Aedes vexans</i>	4
			<i>Psorophora columbiae</i>	1
<b>Trap total: 100</b>				(Avg: 25)

#### Zone 4 Collections

Partridge	6/2/2009	NJ Light Trap	<i>Aedes vexans</i>	14
			<i>Psorophora columbiae</i>	1
Partridge	6/10/2009	NJ Light Trap	<i>Aedes vexans</i>	10
Partridge	6/16/2009	NJ Light Trap	<i>Anopheles quadrimaculatus</i>	1
			<i>Anopheles crucians</i>	1
			<i>Aedes vexans</i>	14
Partridge	6/23/2009	NJ Light Trap	<i>Psorophora columbiae</i>	9
			<i>Anopheles quadrimaculatus</i>	4
			<i>Aedes vexans</i>	2
<b>Trap total: 56</b>				(Avg: 14)

#### Zone 5 Collections

Frog Pond	6/2/2009	NJ Light Trap	No Mosquitoes	0
Frog Pond	6/10/2009	NJ Light Trap	<i>Aedes vexans</i>	9
			<i>Psorophora columbiae</i>	1
Frog Pond	6/16/2009	NJ Light Trap	<i>Aedes vexans</i>	7
			<i>Psorophora columbiae</i>	2
Frog Pond	6/23/2009	NJ Light Trap	<i>Anopheles quadrimaculatus</i>	1
			<i>Psorophora columbiae</i>	5
<b>Trap total: 25</b>				(Avg: 6)

#### Zone 6 Collections

Oakhill	6/3/2009	NJ Light Trap	<i>Aedes vexans</i>	9
			<i>Psorophora columbiae</i>	6
Oakhill	6/24/2009	NJ Light Trap	<i>Anopheles quadrimaculatus</i>	4
			<i>Aedes vexans</i>	2
			<i>Psorophora columbiae</i>	5
Oakhill	6/30/2009	NJ Light Trap	<i>Anopheles quadrimaculatus</i>	13
			<i>Aedes vexans</i>	1
			<i>Psorophora columbiae</i>	1
<b>Trap total: 41</b>				(Avg: 13)
Pleasantview	6/3/2009	NJ Light Trap	<i>Aedes vexans</i>	24
Pleasantview	6/24/2009	NJ Light Trap	<i>Psorophora columbiae</i>	1

Pleasantview	6/30/2009	NJ Light Trap	<i>Anopheles quadrimaculatus</i>	10
			<i>Aedes vexans</i>	10
			<i>Aedes vexans</i>	8
			<i>Anopheles quadrimaculatus</i>	10
			<b>Trap total: 63</b>	(Avg: 21)

**Zone 8 Collections**

Briarcrest	6/2/2009	NJ Light Trap	<i>Aedes vexans</i>	6
Briarcrest	6/10/2009	NJ Light Trap	<i>Aedes vexans</i>	7
Briarcrest	6/16/2009	NJ Light Trap	<i>Aedes vexans</i>	5
Briarcrest	6/23/2009	NJ Light Trap	<i>Aedes vexans</i>	2
			<i>Anopheles quadrimaculatus</i>	4
			<b>Trap total: 24</b>	(Avg: 6)

Gerald's (Race St)	6/2/2009	NJ Light Trap	<i>Aedes vexans</i>	5
Gerald's (Race St)	6/10/2009	NJ Light Trap	<i>Aedes vexans</i>	8
			<i>Psorophora columbiae</i>	1
Gerald's (Race St)	6/16/2009	NJ Light Trap	No Mosquitoes	0
Gerald's (Race St)	6/23/2009	NJ Light Trap	<i>Anopheles quadrimaculatus</i>	3
			<i>Aedes vexans</i>	3
			<i>Psorophora columbiae</i>	2
			<b>Trap total: 22</b>	(Avg: 5)

Washington	6/3/2009	NJ Light Trap	<i>Aedes vexans</i>	10
Washington	6/24/2009	NJ Light Trap	<i>Aedes vexans</i>	2
			<i>Anopheles quadrimaculatus</i>	4
Washington	6/30/2009	NJ Light Trap	<i>Aedes vexans</i>	2
			<i>Anopheles quadrimaculatus</i>	4
			<b>Trap total: 22</b>	(Avg: 7)

**Zone 9 Collections**

Cottage Home	6/2/2009	NJ Light Trap	<i>Aedes vexans</i>	12
			<i>Psorophora columbiae</i>	9
Cottage Home	6/10/2009	NJ Light Trap	<i>Psorophora columbiae</i>	1
			<i>Aedes vexans</i>	7
			<i>Anopheles quadrimaculatus</i>	1
Cottage Home	6/16/2009	NJ Light Trap	<i>Psorophora columbiae</i>	1
			<i>Anopheles quadrimaculatus</i>	1
			<i>Aedes vexans</i>	4
Cottage Home	6/23/2009	NJ Light Trap	<i>Psorophora columbiae</i>	9
			<i>Anopheles quadrimaculatus</i>	8
			<b>Trap total: 53</b>	(Avg: 13)





## Service Request Adulticide Applications

Start Date: 6/1/2009

End Date: 6/30/2009

Date	Location	Chemical	Mix Ratio	Ounces Sprayed
<b>Zone: 10a</b>				
				Jonesboro
6/1/2009	1908 catherine circle	permanone 30/30	1:04	10
				<i>Total applied: 0</i>
<b>Zone: 2b</b>				
				Jonesboro
6/5/2009	1813 Kenwood	permanone 30/30	1:04	6
6/19/2009	1401 locust dr.	permanone 30/30	1:04	8
				<i>Total applied: 0</i>
<b>Zone: 3</b>				
				Jonesboro
6/19/2009	2504 tumbleweed	permanone 30/30	1:04	16
6/23/2009	3322 Woodsprings rd.	permanone 30/30	1:04	10
6/23/2009	3106 Woodsprings rd.	permanone 30/30	1:04	8
				<i>Total applied: 0</i>
<b>Zone: 4</b>				
				Jonesboro
6/15/2009	6218 sw drive	permanone 30/30	1:04	6
6/16/2009	6304 sw drive	permanone 30/30	1:04	8
				<i>Total applied: 0</i>
<b>Zone: 4a</b>				
				Jonesboro
6/23/2009	921 e. craighead forest rd.	permanone 30/30	1:04	8
				<i>Total applied: 0</i>
<b>Zone: 6</b>				
				Jonesboro
6/23/2009	5913 E. Johnson	permanone 30/30	1:04	4
				<i>Total applied: 0</i>
<b>Zone: 7</b>				
				Jonesboro
6/23/2009	2207 Greensboro road	permanone 30/30	1:04	4
				<i>Total applied: 0</i>



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6/1/2009	1315 e. nettleton	permanone 30/30	1:04	8
6/16/2009	1600 castle drive	permanone 30/30	1:04	8
				<b>Total applied: 0</b>



## Adulticide Applications

Start Date: 6/1/2009

End Date: 6/30/2009

Month	Date	Municipality	Chemical	Mix Ratio	Spray Miles	Spray Acres	Gallons Sprayed
<b>Zone: 1</b>							Jonesboro
June	6/1/2009		Permanone 30-30	1:04	52	0	5
							<i>Total applied: 5</i>
<b>Zone: 10a</b>							Jonesboro
June	6/15/2009		Permanone 30-30	1:04	38	0	6
June	6/23/2009		Permanone 30-30	1:04	65	0	7
							<i>Total applied: 13</i>
<b>Zone: 10b</b>							

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							Jonesboro	
June	6/26/2009	Permanone 30-30	1:04	56	0	0	8	
							<i>Total applied: 8</i>	

**Zone: 11**

							Jonesboro	
June	6/26/2009	Permanone 30-30	1:04	43	0	0	3	
							<i>Total applied: 3</i>	

**Zone: 2b**

							Jonesboro	
June	6/5/2009	Permanone 30-30	1:04	46	0	0	6	
June	6/19/2009	Permanone 30-30	1:04	53	0	0	5	
							<i>Total applied: 11</i>	

**Zone: 3**

							Jonesboro	
June	6/2/2009	Permanone 30-30	1:04	58	0	0	8	

June	6/11/2009	Permanone 30-30	1:04	53	0	0	5
June	6/26/2009	Permanone 30-30	1:04	68	0	0	7

**Total applied: 20**

**Zone: 4a**

Jonesboro

June	6/5/2009	Permanone 30-30	1:04	39	0	0	5
June	6/19/2009	Permanone 30-30	1:04	49	0	0	5
June	6/30/2009	Permanone 30-30	1:04	57	0	0	5

**Total applied: 15**

**Zone: 4b**

Jonesboro

June	6/5/2009	Permanone 30-30	1:04	62	0	0	9
June	6/15/2009	Permanone 30-30	1:04	52	0	0	5
June	6/29/2009	Permanone 30-30	1:04	48	0	0	8

**Total applied: 22**

**Zone: 5a**

Jonesboro

June	6/18/2009	Permanone 30-30	1:04	32	0	0	5
							<i>Total applied: 5</i>

**Zone: 5B**

Jonesboro

June	6/2/2009	Permanone 30-30	1:04	41	0	0	5
							<i>Total applied: 5</i>

**Zone: 5b**

Jonesboro

June	6/22/2009	Permanone 30-30	1:04	51	0	0	7
June	6/30/2009	Permanone 30-30	1:04	43	0	0	7
							<i>Total applied: 14</i>

**Zone: 6**

Jonesboro

June	6/5/2009	Permanone 30-30	1:04	50	0	0	7
June	6/18/2009	Permanone 30-30	1:04	45	0	0	4

*Total applied: 11*

**Zone: 7**

Jonesboro

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June	6/23/2009	Permanone 30-30	1:04	53	0	0	9
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*Total applied: 9*

**Zone: 8a**

Jonesboro

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June	6/5/2009	Permanone 30-30	1:04	34	0	0	9
June	6/30/2009	Permanone 30-30	1:04	51	0	0	10

*Total applied: 19*

**Zone: 8b**

Jonesboro

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June	6/29/2009	Permanone 30-30	1:04	56	0	0	6
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*Total applied: 6*

**Zone: 9**

Jonesboro

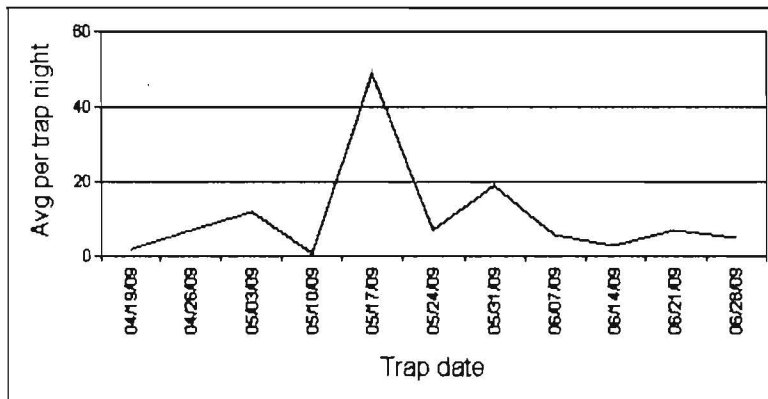
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June	6/1/2009	Permanone 30-30	1:04	46	0	0	7
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**Total applied: 7**



## Adult Mosquito Surveillance Summary





**Zone: 4a**

Jonesboro

6/11/2009	Pickering Dr.	ditch	1-10	Aquabac 400 G	8
					<b>Total applied: 8</b>

**Zone: 5b**

Jonesboro

6/12/2009	Willow Rd.	ditch	1-10	Aquabac 200G (62637-3)	8
6/12/2009	Richardson Rd.	ditch	1-10	Altosid SR (2724-446)	2
6/12/2009	Richardson Rd.	ditch	1-10	Aquabac 200G (62637-3)	16
6/17/2009	Gladys Rd	ditch	11-50	Aquabac 200G (62637-3)	3
6/17/2009	Richardson	ditch	11-50	Aquabac 200G (62637-3)	32
6/17/2009	Ingels	ditch	11-50	Aquabac 200G (62637-3)	52
6/17/2009	Colony	ditch	11-50	Aquabac 200G (62637-3)	36
6/17/2009	Industrial	ditch	11-50	Aquabac 200G (62637-3)	21
					<b>Total applied: 170</b>

**Zone: 6**

Jonesboro

6/15/2009	Scotchwood Dr.	ditch	1-10	Aquabac 400 G	4
6/15/2009	Minga Lane	ditch	1-10	Aquabac 400 G	8
6/15/2009	Joy Lane	ditch	1-10	Aquabac 400 G	8
6/18/2009	Lake Dr.	ditch	1-10	Aquabac 200G (62637-3)	4
6/18/2009	Old Bridger Rd.	ditch	1-10	Aquabac 200G (62637-3)	16
6/18/2009	Oriole Dr.	ditch	1-10	Aquabac 200G (62637-3)	16
6/18/2009	Thomas Greene	ditch	1-10	Aquabac 200G (62637-3)	32
					<b>Total applied: 88</b>

**Zone: 7**

Jonesboro

6/15/2009	Harmony	ditch	1-10	Aquabac 400 G	16
6/15/2009	N. Culberhouse	ditch	1-10	Aquabac 400 G	16
					<b>Total applied: 32</b>

**Zone: 8a**

Jonesboro

6/1/2009	Haltom	ditch	1-10	Aquabac 400 G	8
					<b>Total applied: 8</b>

**Zone: 9**

Jonesboro

6/29/2009	Morris Drive	ditch	1-10	Aquabac 400 G	8
6/29/2009	Maurice St.	ditch	1-10	Aquabac 400 G	8
					<b>Total applied: 16</b>

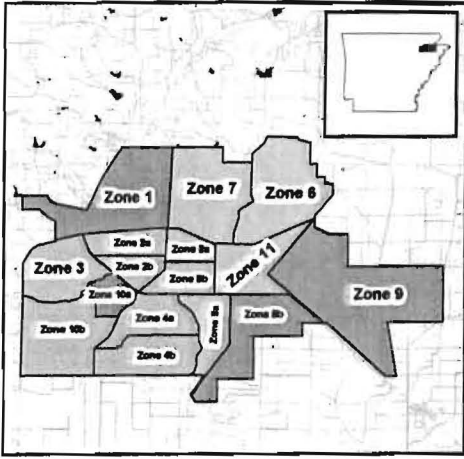


## Larvicide Applications

Start Date: 6/1/2009

End Date: 6/30/2009

Date	Location	Habitat	No. of Larvae	Larvicide	Amount Applied (oz.)
<b>Zone: 1</b>					
					Jonesboro
6/16/2009	N. Culberhouse	ditch	1-10	Aquabac 400 G	16
6/16/2009	Hathcoat	ditch	1-10	Aquabac 400 G	8
6/16/2009	County Jail	ditch	1-10	Aquabac 400 G	8
6/16/2009	Myette	ditch	1-10	Aquabac 400 G	8
					<i>Total applied: 40</i>
<b>Zone: 10b</b>					
					Jonesboro
6/1/2009	Flemon Rd.	ditch	1-10	Aquabac 400 G	8
					<i>Total applied: 8</i>
<b>Zone: 11</b>					
					Jonesboro
6/2/2009	Conveyor St.	ditch	11-50	Aquabac 400 G	8
6/2/2009	Cain St.	ditch	1-10	Aquabac 400 G	4
6/2/2009	Spence Cir.	ditch	1-10	Aquabac 400 G	8
6/30/2009	Airport Rd.	ditch	1-10	Aquabac 400 G	16
6/30/2009	Clark St.	ditch	1-10	Aquabac 400 G	8
					<i>Total applied: 44</i>
<b>Zone: 2a</b>					
					Jonesboro
6/16/2009	Cottonbelt	ditch	1-10	Aquabac 200G (62637-3)	8
					<i>Total applied: 8</i>
<b>Zone: 2b</b>					
					Jonesboro
6/18/2009	Sims Ave.	ditch	1-10	Aquabac 400 G	8
					<i>Total applied: 8</i>
<b>Zone: 3</b>					
					Jonesboro
6/1/2009	Lacoste	ditch	1-10	Aquabac 400 G	4
6/8/2009	strawfloor rd.	ditch	1-10	Aquabac 400 G	16
6/9/2009	strawfloor rd.	ditch	1-10	Aquabac 400 G	4
					<i>Total applied: 24</i>



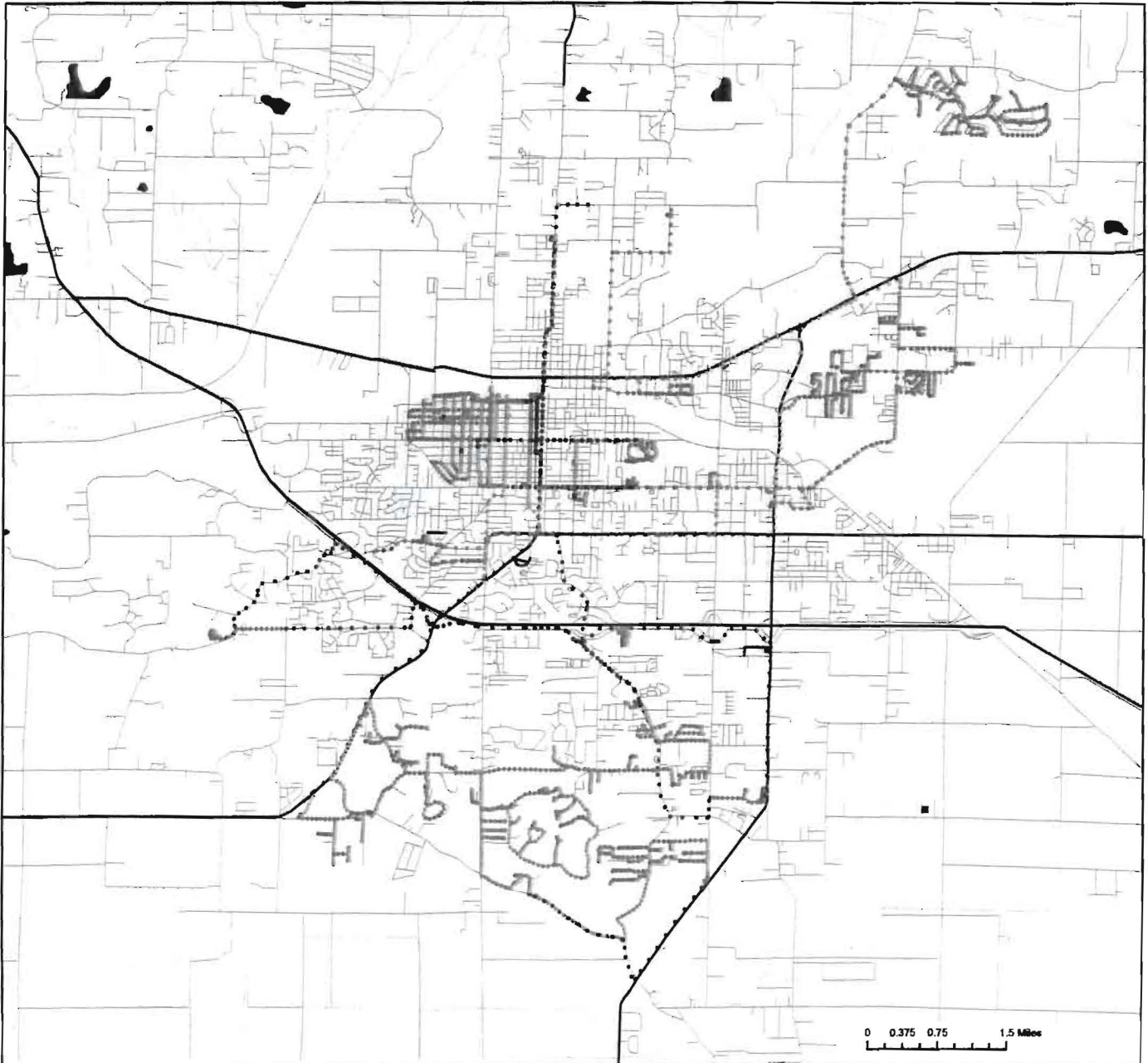
# The City of Jonesboro, Arkansas

## Ground Adulticide Application Date: June 5, 2009

### Sprayer Status

- Spray Off
- Spray On

Chemical: Permanone 30-30  
 Quantity Used: 27.7 gal  
 Miles Treated: 94.7  
 Acres Treated: 3,436.0



0 0.375 0.75 1.5 Miles



Vector Disease Control, Inc.  
 PO Box 566  
 DeWitt, AR 72042

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# The City of Jonesboro, Arkansas

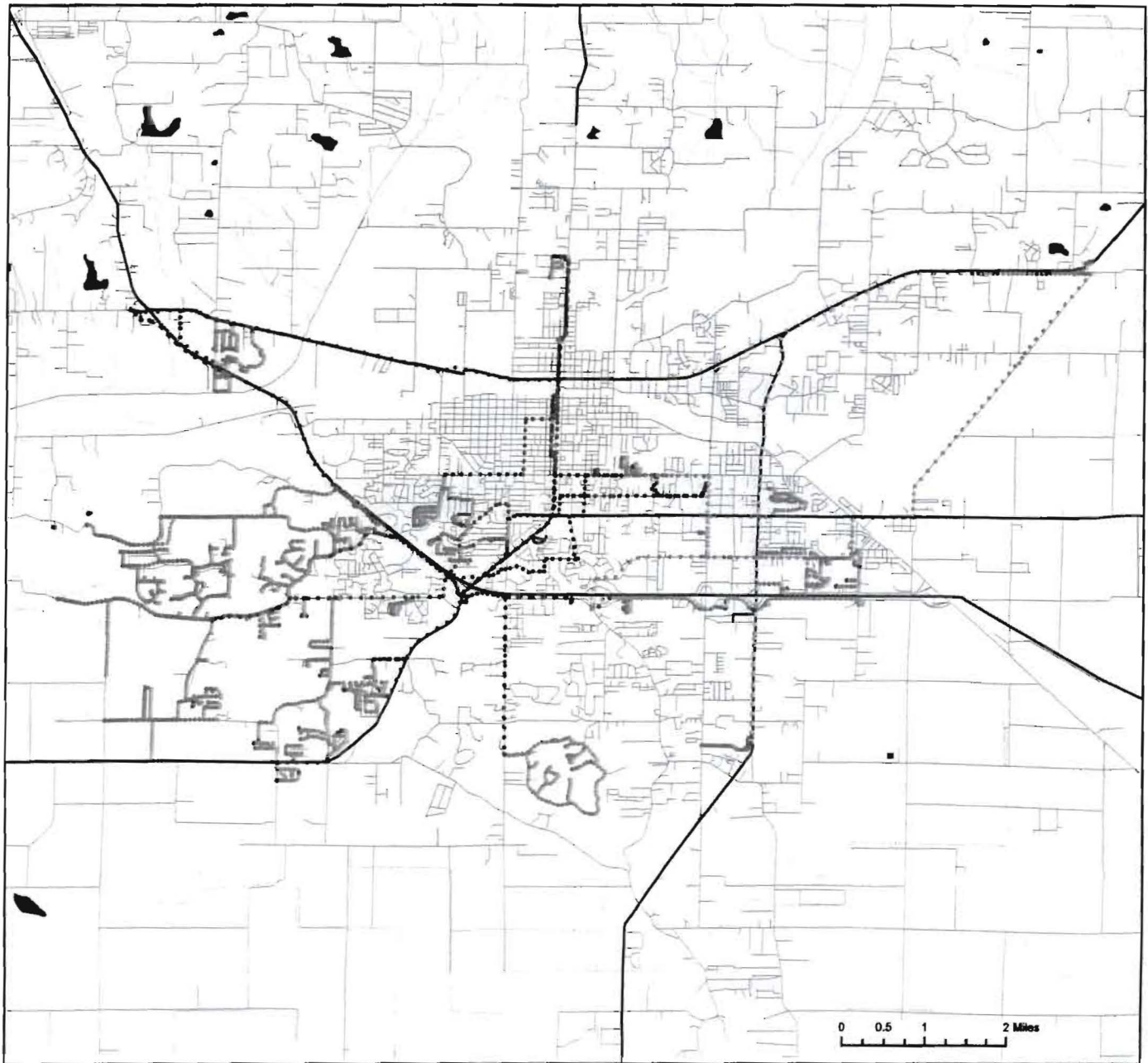
## Ground Adulticide Application Date: June 26, 2009



### Sprayer Status

- Spray Off
- Spray On

Chemical: Permanone 30-30  
 Quantity Used: 23.8 gal  
 Miles Treated: 104.4  
 Acres Treated: 3,798.0

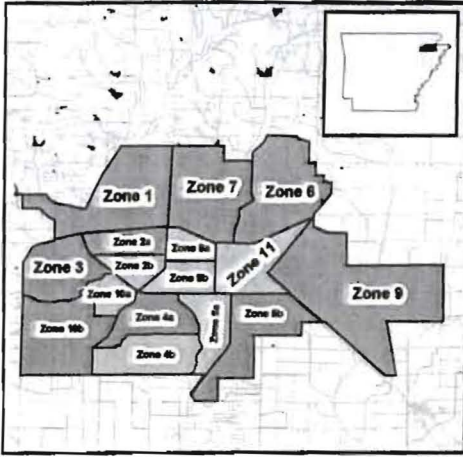


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 DeWitt, AR 72042

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# The City of Jonesboro, Arkansas

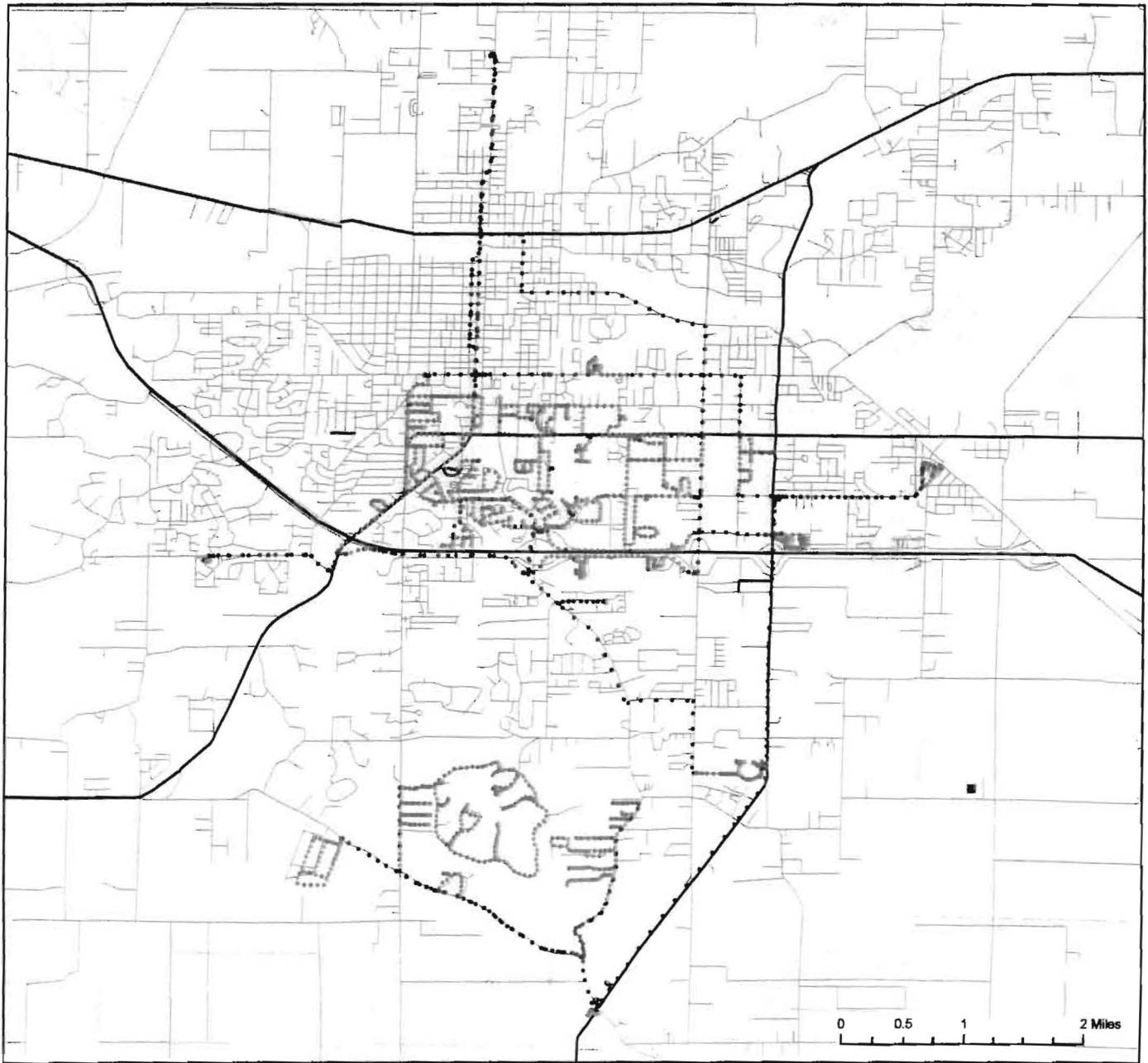
Ground Adulticide Application Date:  
June 29, 2009



## Sprayer Status

- Spray Off
- Spray On

Chemical: Permanone 30-30  
Quantity Used: 16.9 gal  
Miles Treated: 60.3  
Acres Treated: 2,187.0



Vector Disease Control, Inc.  
PO Box 566  
DeWitt, AR 72042

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