

CANYON COUNTY MOSQUITO ABATEMENT DISTRICT  
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Members: IMVCA, ECA of Idaho,  
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Division of Health  
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### **2010 West Nile Virus Surveillance Report**

Canyon County Mosquito Abatement District took no CDC grant funds in 2010 to conduct WNV surveillance. Trapping and Surveillance activity began on June 24 and ended on September 3. CCMAD utilized the R.A.M.P. system for testing for WNV. CCMAD also followed the testing protocol as set up by the Idaho Bureau of Laboratories in 2007.

- $\leq 49.9$  units=negative (no RT-PCR)
- $\geq 50.0$  but less than 299.9 units = equivocal(RT-PCR\_confirmation)
- $\geq 300$  units = positive (no RT=PCR)

The total number of RAMP tests (pools): 416  
The total number of RAMP tests sent to B.O.L.: 36

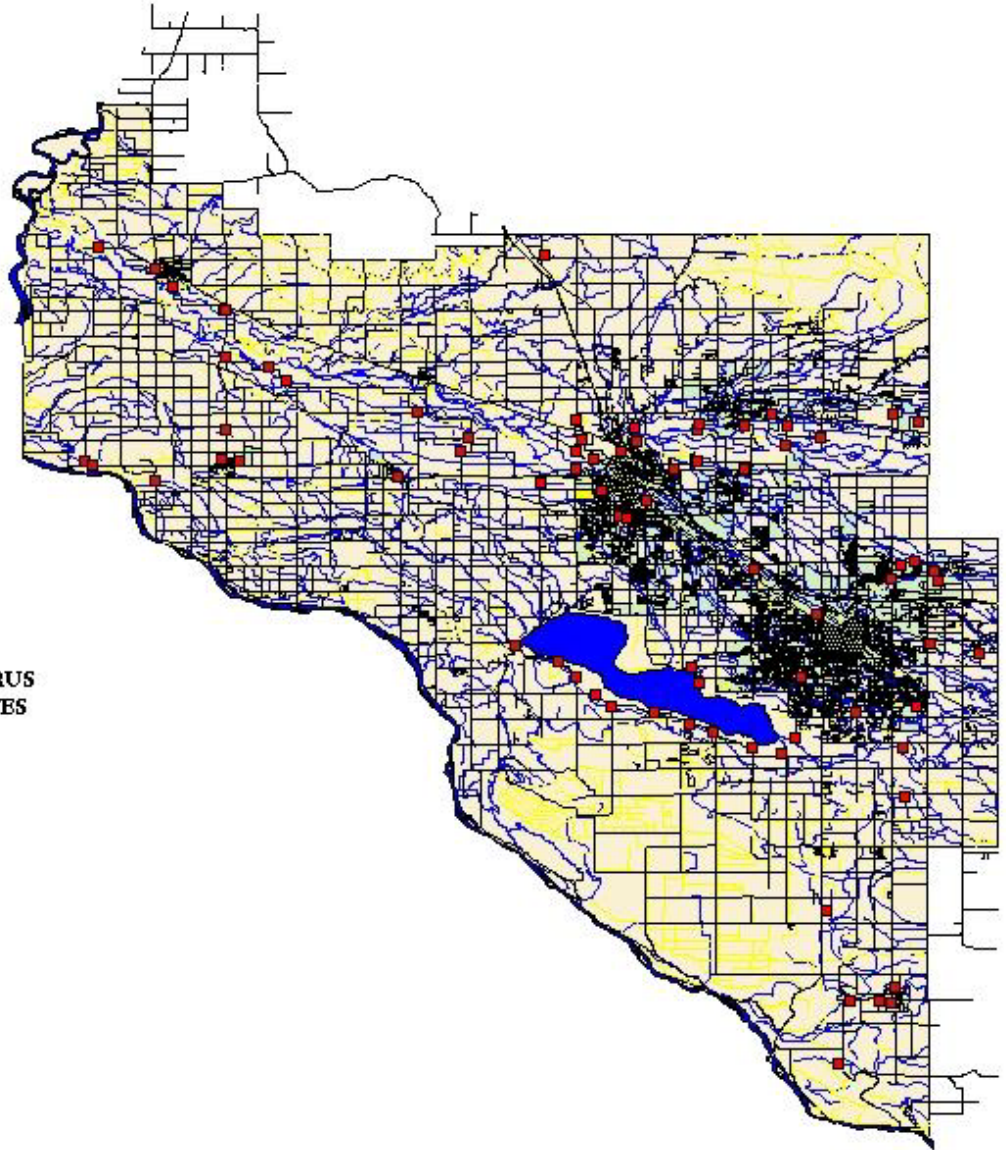
**Equivocal RAMP Values Submitted to B.O.L. for Confirmation**

<b>Species</b>	<b>Pool Number</b>	<b>RAMP Value</b>
Cx t	060802A	59.3
Cx t/Cx p	060806A	67.9
Cx t/Cx p	060924B	53.7
Cx	060920B	56.9
Cx t	061506A	79.2
Cx t	061511A	63.2
Cx t	061512A	74.0
Cx	061806D	61.0
Cx t	062915A	53.9
Cx t	062916A	65.7
Cx t	062919A	237.4
Cx t	062921A	151.7
Cx t	070729A1	50.8
Cx p	080618A	67.5
Cx	08093A	62.5
Cx t	081720Ap1	75.5
Cx t	080701A	114.6
Cx t	081720Ap3	90.5
Cx p	081901p1	84.7
Cx	081905A	94.2
Cx	081924	71.1
Cx p	081925p1	80.1
Cx p	081925p2	46.2
Cx p	082017p1	126.2
Cx p	082017p2	96.6
Cx p	082018p1	103.3
Cx p	082020p1	147.1
Cx t	082020p2	144.6
Cx p	082515Bp3	69.5
Cx t	082521Bp2	58.5
Cx p	082626Cp1	70.1
Cx p	082626Cp2	83.1
Cx p	082626Cp3	57.1
Cx eryth	090121Bp1	61.8
Cx eryth	090121Bp4	58.8
Cx p	090330p1	57.3

**No equivocal RAMP values confirmed positive by RT-PCR test.**

**Map of Canyon County showing GPS locations of Trap Sites**

**2010 WEST NILE VIRUS  
SURVEILLANCE SITES**

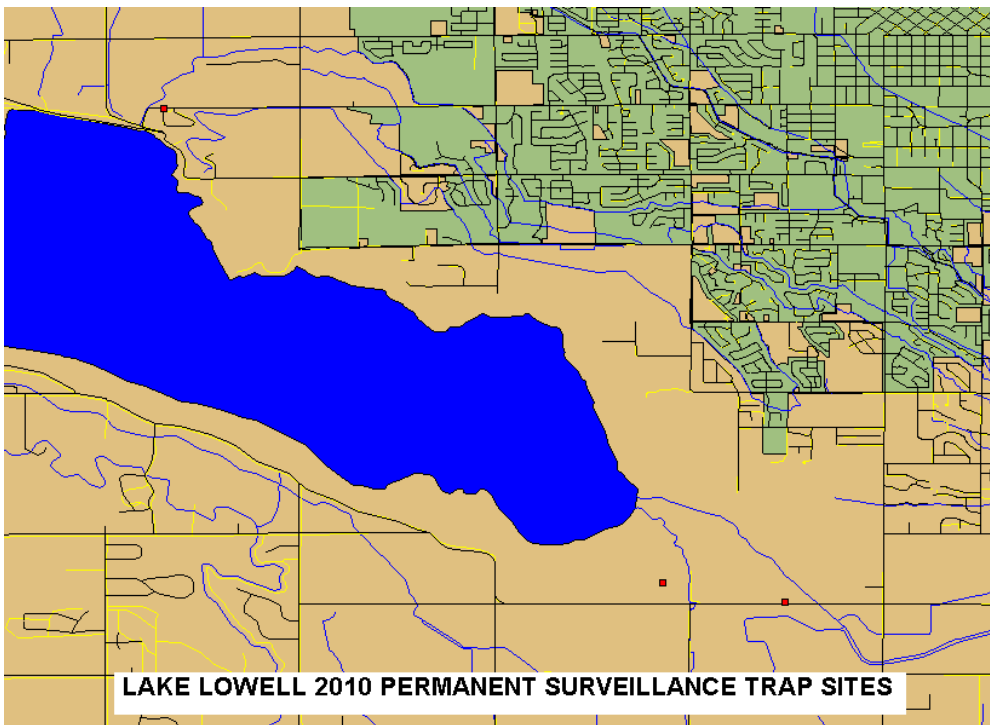
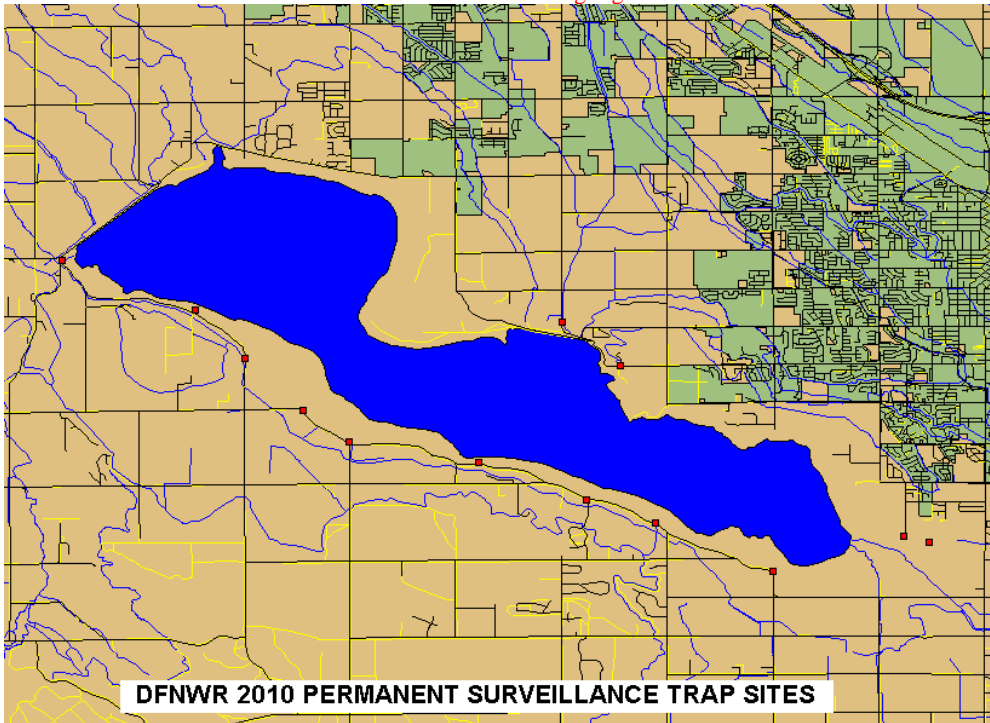


**Canyon County map shows the overall coverage  
of WNV surveillance.**

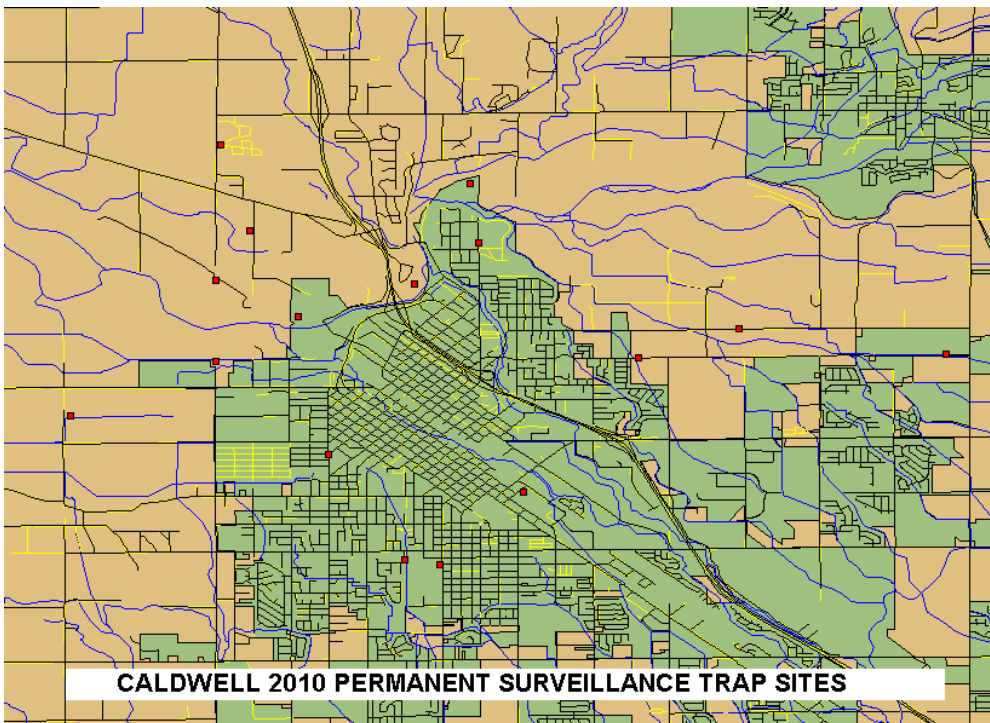
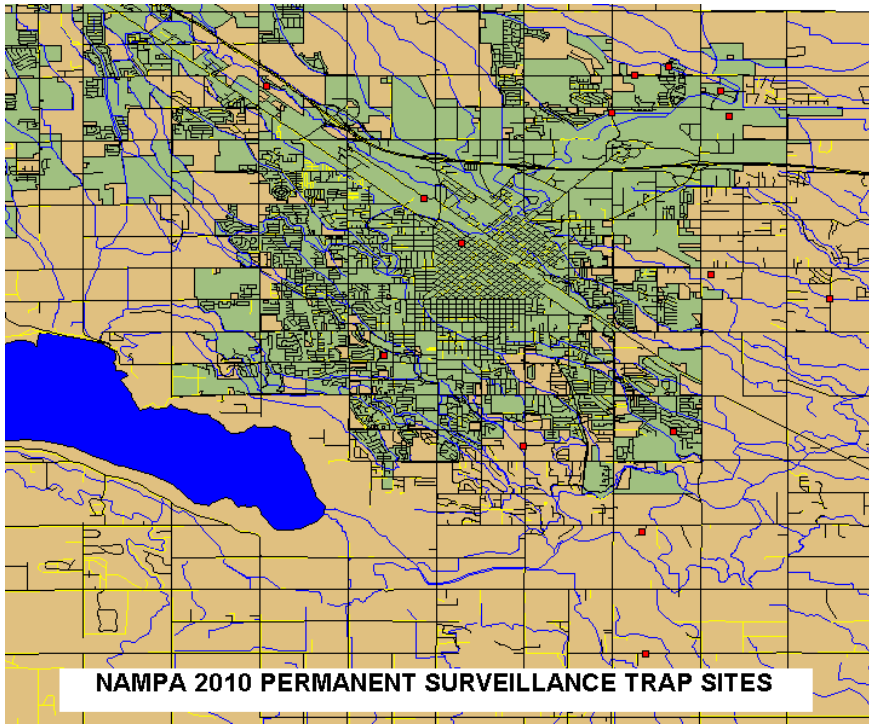


**Location of CCMAD Surveillance Traps by Control Sector**

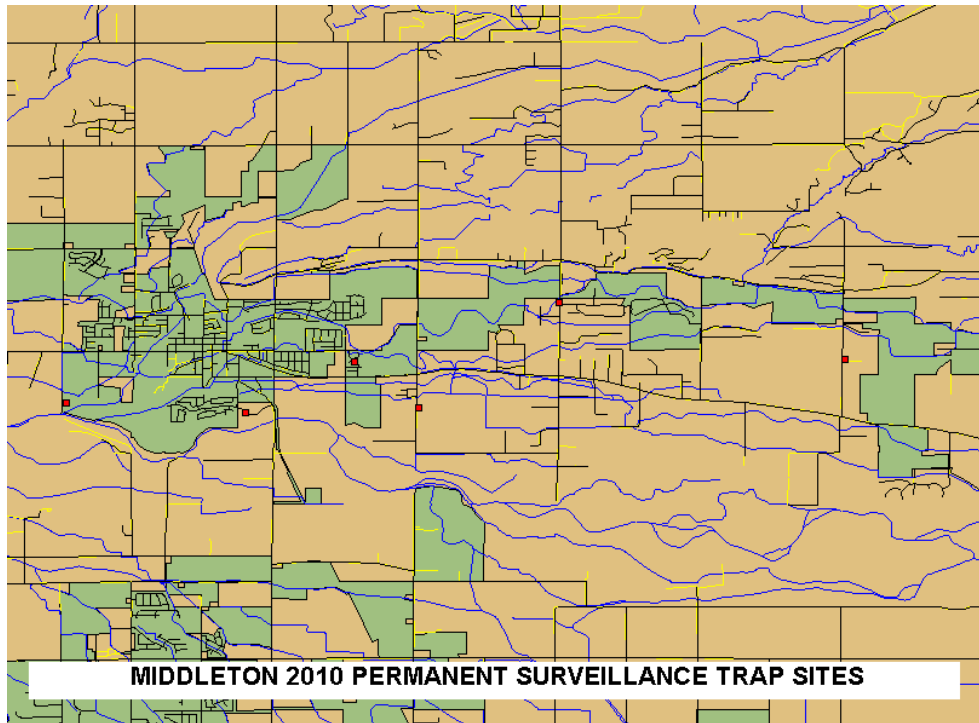
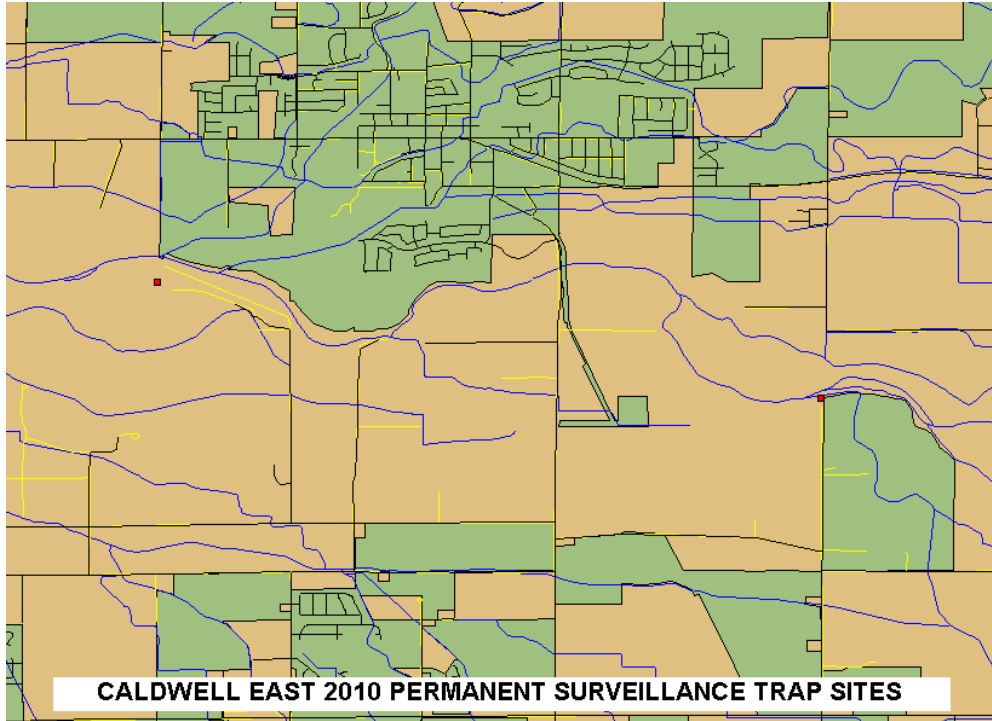
Surveillance Location Sites are Highlighted in RED



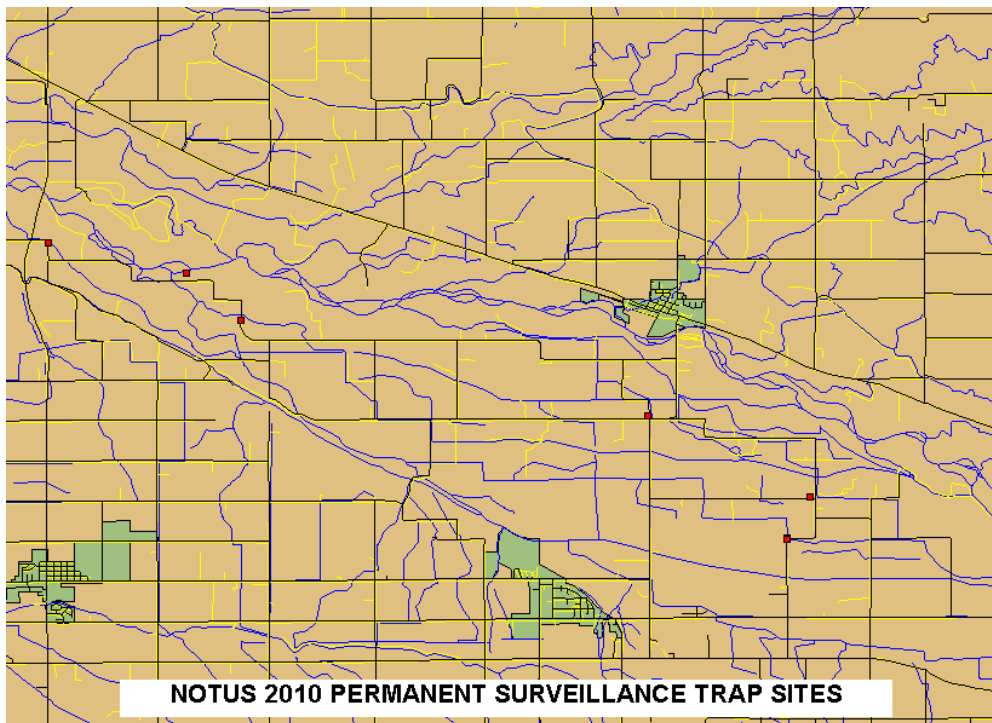
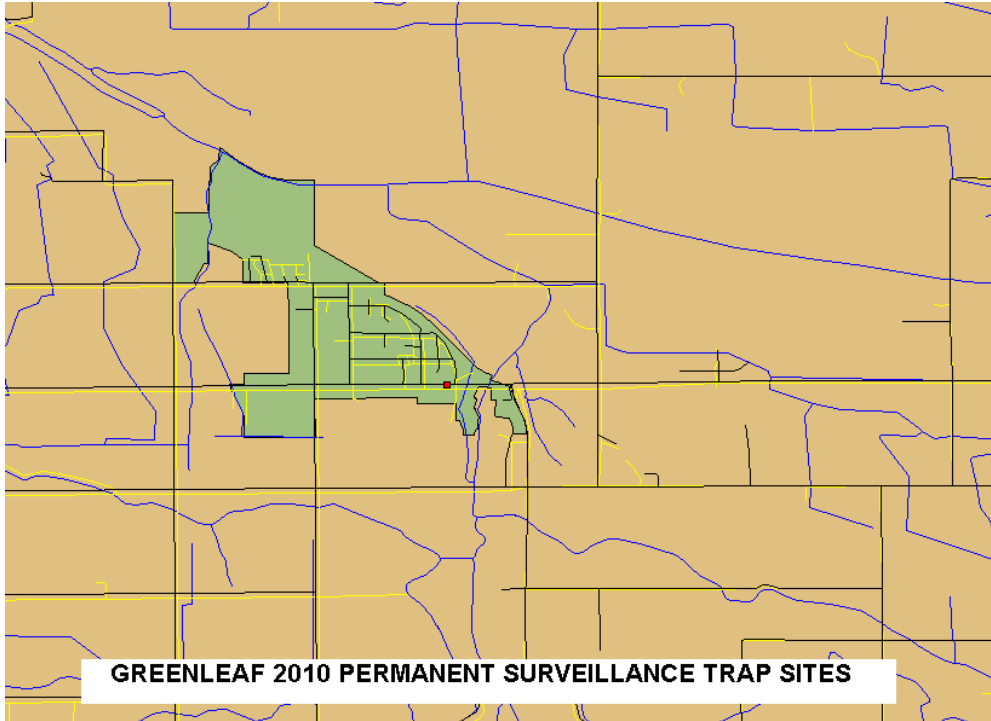
**Sector Maps cont'**



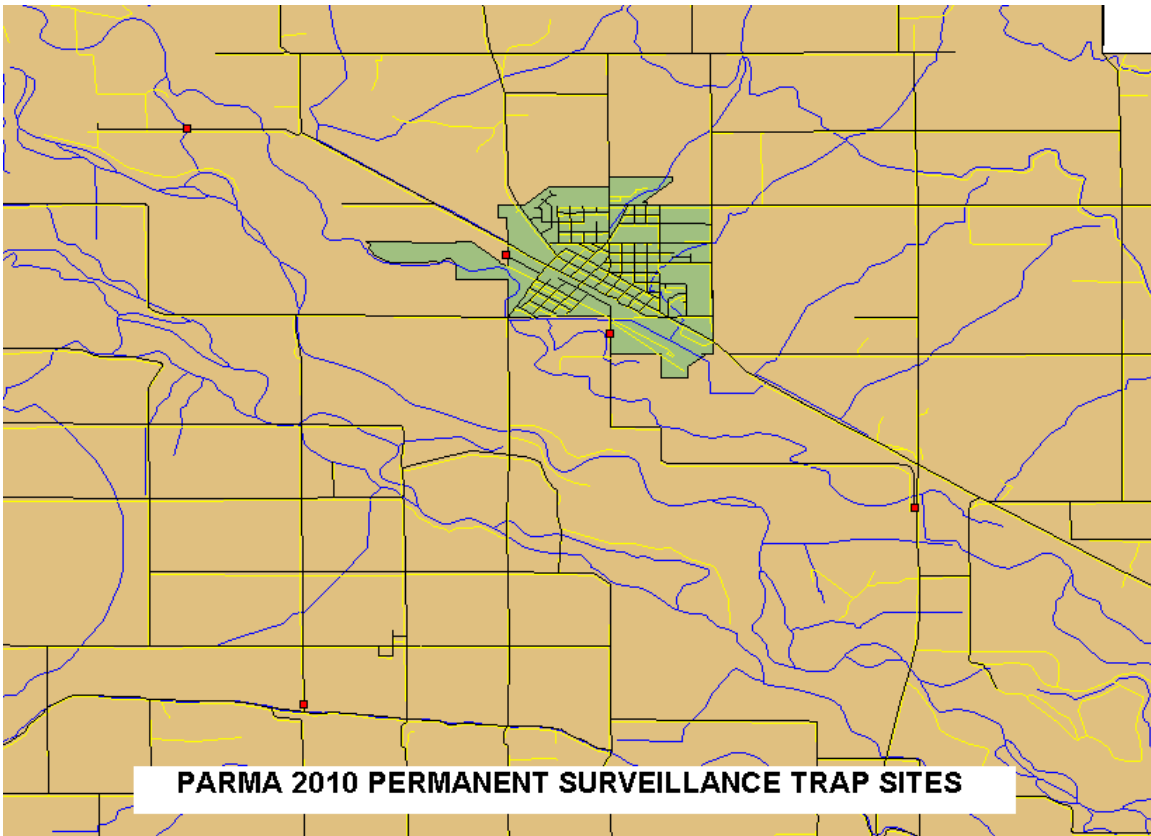
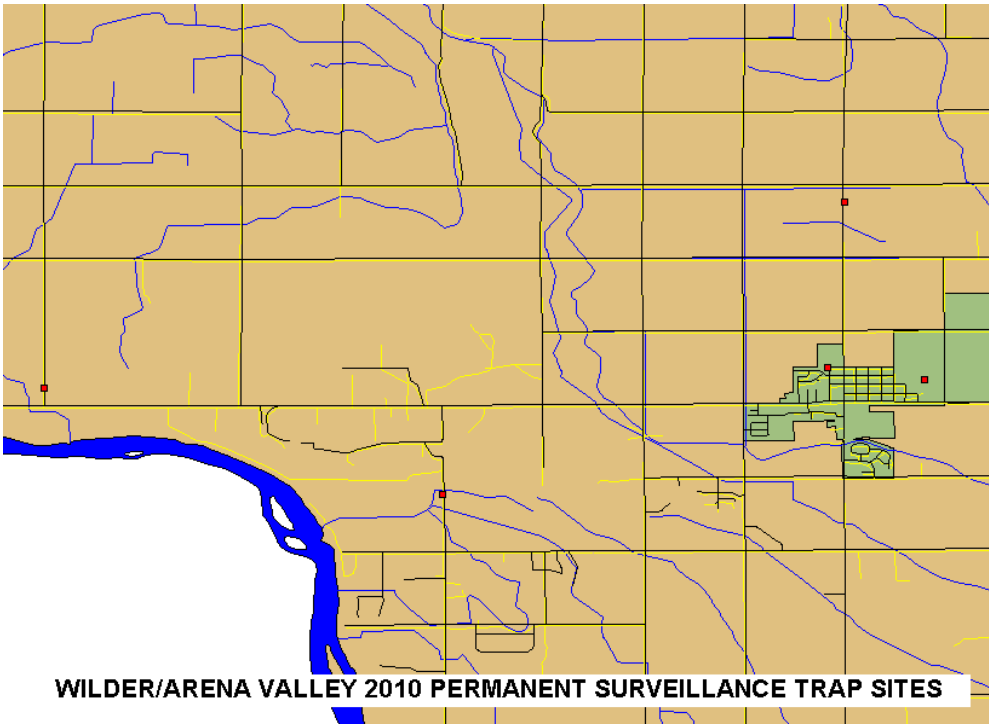
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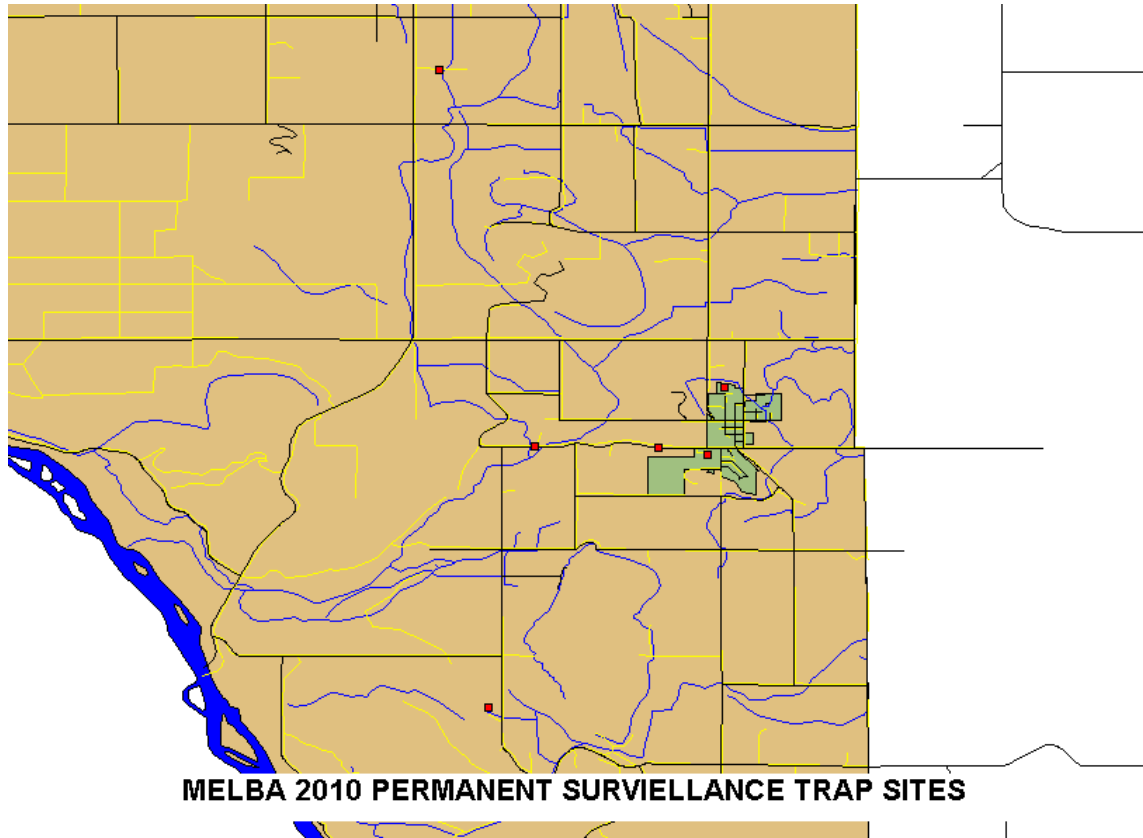
**Sector Maps cont'**



**Sector Maps cont'**



## Sector Maps cont'



### Below are tables for CCMAD Surveillance Sites and GPS Coordinates.

<b>Caldwell Sector surveillance sites</b>				
297 TL162	Caldwell Campground	Town circle/Old hwy 30	Caldwell	43.6833 -116.6867
303 TL168	Chicago @ Fountainpath	Caldwell Rotary Ponds	Caldwell	43.67899 -116.7022
322 TL187	Curtis Park	Channel Rd	Caldwell	43.69658 -116.6794
345 TL208	Willow Brook	Lateral	Caldwell	43.64677 -116.6881
346 TL209	Montana & Linden	Syringa Middle School	Caldwell	43.64613 -116.6834
591 TL450	Caldwell Ponds		Caldwell	43.69033 -116.7086
658 TL518	Valley Air Service	Hubbler Ln	Caldwell	43.69561 -116.6431
686 TL546	Simplot Plant	Simplot Rd	Caldwell	43.66586 -116.7323
773 TL633	Canyon Hill Cemetary		Caldwell	43.68873 -116.6782
783 TL643	1301 Palo Alto		Caldwell	43.66078 -116.6981
812 TL702	Look Ln		Caldwell	43.68709 -116.7159
785 TL645	R & M Steel	Farmway/Hwy 44	Caldwell	43.67315 -116.713
1009 NSZ899	Organic	3323 Marblefront	Caldwell	43.67363 -116.6571
1032 TL922	Farmway Village		Caldwell	43.70185 -116.712
1084 NSZ944	11161 Marbefront		Caldwell	43.67398 -116.6163
1207 TL1207	Wilder, Pat	4412 Lincoln	Caldwell	43.67748 -116.6437
1227 TL1227	Canyon Co. Fairgrounds		Caldwell	43.65579 -116.6723

## GPS Coordinates cont'

### Middleton Surveillance sites

1168 TL1018	William Stewart	29090 Dream Ln	Caldwell	43.6977	
598 TL458	Middleton Lakes Sub	S Crane Creek Way/	Middleton	43.6977	-116.617
621 TL481	Greenlinks Sub	Greenlinks Ave/Fairw	Middleton	43.70489	-116.6015
624 TL484	Duff Ln/Landruff Ln	Duff Ln/Landruff Ln	Middleton	43.69837	-116.5925
637 TL497	Lansing Meadows Sul	Lansing Ln/New Castl	Middleton	43.70075	-116.5178
654 TL514	Blessenger Rd	22924 Blessenger Rd	Middleton	43.7052	-116.5325
716 TL576	Sportsman Access	Lincoln/Midland	Middleton	43.68687	-116.5934
754 TL614	Wiffin Ln		Middleton	43.69899	-116.6421
1098 TL634	6820 Hwy 44		Middleton	43.69126	-116.574

### Notus Area Surveillance sites

697 TL557	Pinto Rd Pasture		Notus	43.6838	-116.7779
700 TL560	Center Point High Sch	Dixie River Rd	Notus	43.69136	-116.7737
778 TL638	Dixie Sportsman		Notus	43.7319	-116.8867
791 TL651	Boise R. Rd/Horse Club		Notus	43.7374	-116.9117
792 TL652	Notus / RR Tracks		Notus	43.68355	-116.7778
1100 TL954		24269 boise river rd	Notus	43.72331	-116.8767
1023 TL913	Howe Rd/Ode Ln		Notus	43.70602	-116.8029

### Parma Area Surveillance sites

667 TL527	Waste water treatment plant		Parma	43.78736	-116.9522
675 TL535	27924 Sand Rd	27924 Sand Rd	Parma	43.77675	-116.9415
1045 TL930	Sharp Ln		Parma	43.7997	-116.9835
1336 TL1336	Rosewell Cemetary		Parma	43.76383	-116.9122

### Wilder/Arena Valley Surveillance sites

678 TL538	21105 Arena Valley R	21105 Arena Valley R	Wilder	43.67754	-116.9917
780 TL640	Riverbend Golfcourse	18539 Fish Rd	Wilder	43.66689	-116.9519
1029 TL919	29814 PECKHAM		Wilder	43.67584	-116.9878
1030 TL920	Victory Fellowship	3rd St / Golden Gate	Wilder	43.67834	-116.9039
1031 TL921	417 Sixth St	Wilder	Wilder	43.67951	-116.9135
1034 TL924	SSI Hwy 95		Wilder	43.69608	-116.9119
1035 TL1035	TreeTop Ranch	Hwy 95	Wilder	43.76383	-116.9122
727 TL587	Greenleaf Cemetery		Greenleaf	43.66932	-116.8134

## GPS Coordinates cont'

27 TL52	Access #2	DFR South	DFWR	43.52848	-116.648
28 TL50	Access #0	DFR South	DFWR	43.5151	-116.6129
29 TL51	Access #1	DFR South	DFWR	43.52427	-116.635
30 TL37	Access #3	DFR South	DFWR	43.5357	-116.6684
31 TL38	Access #4	DFR South	DFWR	43.53944	-116.693
32 TL40	Access #5	DFR South	DFWR	43.54552	-116.7017
33 TL41	Access #6	DFR South	DFWR	43.55532	-116.7127
731 TL591	Access #7		DFWR	43.56455	-116.7221
800 TL690	Access #8	Lake Lowell	DFWR	43.57381	-116.7472
159 TL46	DFWR Maintenance	North DFR Maint. Area	DFWR	43.52157	-116.5878
40 TL40	North Refuge (80 acres)		DFWR	43.54565	-116.7011
157 TL44	North Lake Lowell	Mai Lake Ave.	DFWR	43.53199	-166.653

### DFNWR Surveillance sites

#### Melba Area Surveillance sites

796 TL656	Melba School		Melba	43.38017	-116.5311
798 TL658	Melba City Pk		Melba	43.37093	-116.5334
971 TL860	Crow Pond	3488 Crow Alley	Melba	43.42297	-116.5696
976 TL865	Baseline Marsh	8184 Baseline Rd	Melba	43.37217	-116.5568
981 TL870	Hill Rd Marsh	2851 Hill Rd	Melba	43.33675	-116.563
1102 TL955	Melba Cemetary		Melba	43.37187	-116.54

#### Nampa Surveillance sites

39	TL39	Wilson Springs Ponds	S. Powerline Rd.	Nampa	43.53535	-116.5532
213	TL82	Irrigation Pond	Lake Shore Drive	Nampa	43.51027	-116.583
253	TL119	Korn Crest Eggs	6783 Cherry Ln	Nampa	43.61937	-116.5281
254	TL120	Lyonsdale Sub R/D Ponds	17099 N Lyonsdale Pl	Nampa	43.62126	-116.5203
260	TL126	Franklin & Equine Dr	Horse Club	Nampa	43.61003	-116.5066
270	TL136	Nampa Sewer	Railroad Ave.	Nampa	43.5916	-116.5757
359	TL222	The Greens Subdivision	3730 Ridgecrest Dr/11th Av	Nampa	43.61091	-116.5333
363	TL226	River Meddows Subdivision	Locust & Happy Valley	Nampa	43.53855	-116.5191
381	TL244	CSI Campus	Can-Ada Rd.	Nampa	43.61589	-116.5084
468	TL328	Nampa Simplot	Middleton Rd	Nampa	43.61695	-116.6113
708	TL568	Happy Valley Pasture	24 S Happy Valley	Nampa	43.57415	-116.5108
709	TL569		6619 Kuna Rd	Nampa	43.4881	-116.5255
714	TL574		115 Dewey Ln	Nampa	43.56872	-116.4838
757	TL617	Secret Place	10132 Lake Shore Dr	Nampa	43.51229	-116.5956
761	TL621	9900 Aztlan Rd	Aztlan Rd/Lewis Ln	Nampa	43.51584	-116.5262
1213	TL1213	Wild Rose Sub.		Nampa	43.56104	-116.647
1310	TL1310	Iowa Elementary	Iowa Rd.	Nampa	43.55575	-116.585

Each zone was surveyed at least once per week. In zones where vector mosquito populations became elevated, zones were surveyed more often.

CCMAD commenced trapping on May 24 with the deployment of 20 traps per night over four consecutive nights. (See surveillance by trap night tables)

Traps are deployed near sundown and retrieved the next morning. Mosquito samples are immediately frozen in the field and brought back to CCMAD for identification, processing and RAMP testing.

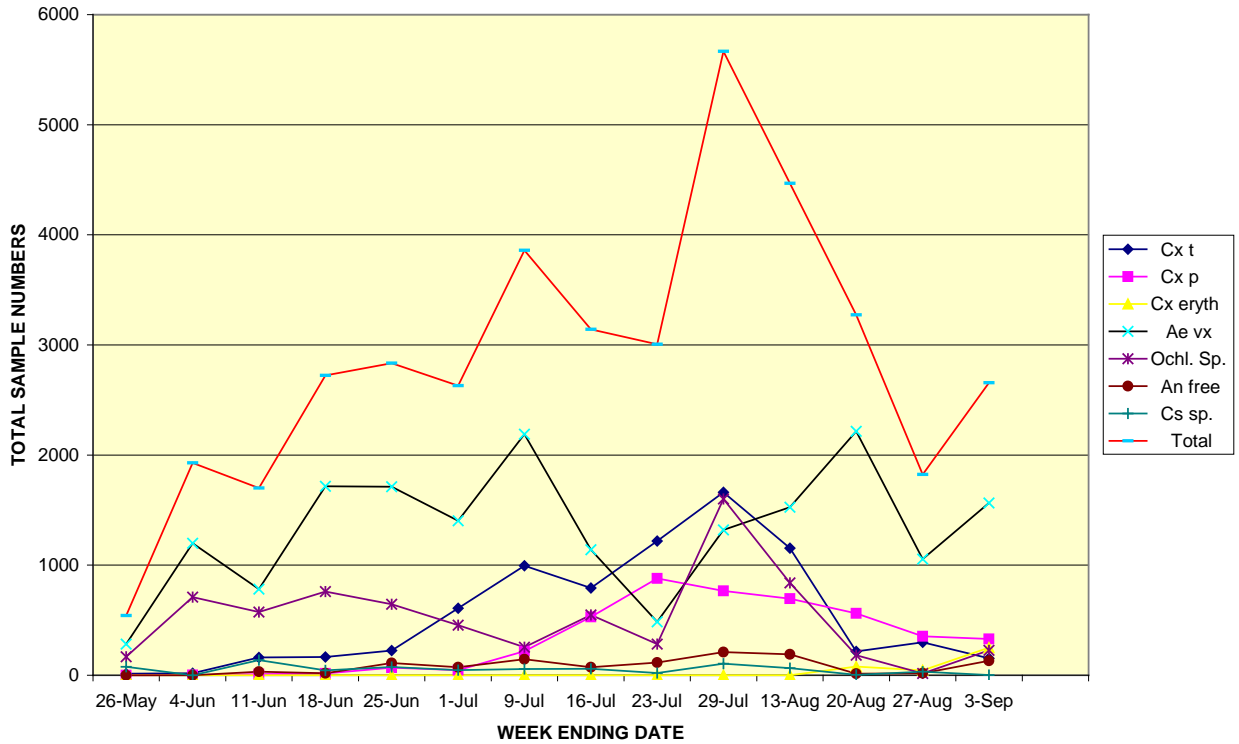
### Surveillance Results

Week Ending Date	Species							Total
	Cx t	Cx p	Cx eryth	Ae vx	Ochl sp.	An free	Cs sp.	
May 26	14	0	0	284	168	0	76	542
June 4	19	3	0	1198	709	0	0	1929
June 11	161	11	0	783	575	33	137	1700
June 18	166	17	0	1717	761	18	44	2723
June 25	224	68	0	1712	645	112	74	2835
July 1	608	47	0	1402	455	72	47	2631
July 9	995	218	0	2190	254	145	57	3859
July 16	793	529	0	1141	548	72	59	3142
July 23	1220	880	0	486	284	115	21	3006
July 29	1662	766	0	1321	1602	210	106	5667
Aug 13	1154	695	0	1526	839	190	64	4468
Aug 20	216	562	0	2215	181	15	5	3272
Aug 27	300	354	78	1056	17	19	33	1824
Sept. 3	153	329	45	1565	226	132	2	2657
<b>Total</b>	<b>7685</b>	<b>4479</b>	<b>250</b>	<b>18596</b>	<b>7264</b>	<b>1133</b>	<b>725</b>	<b>40255</b>



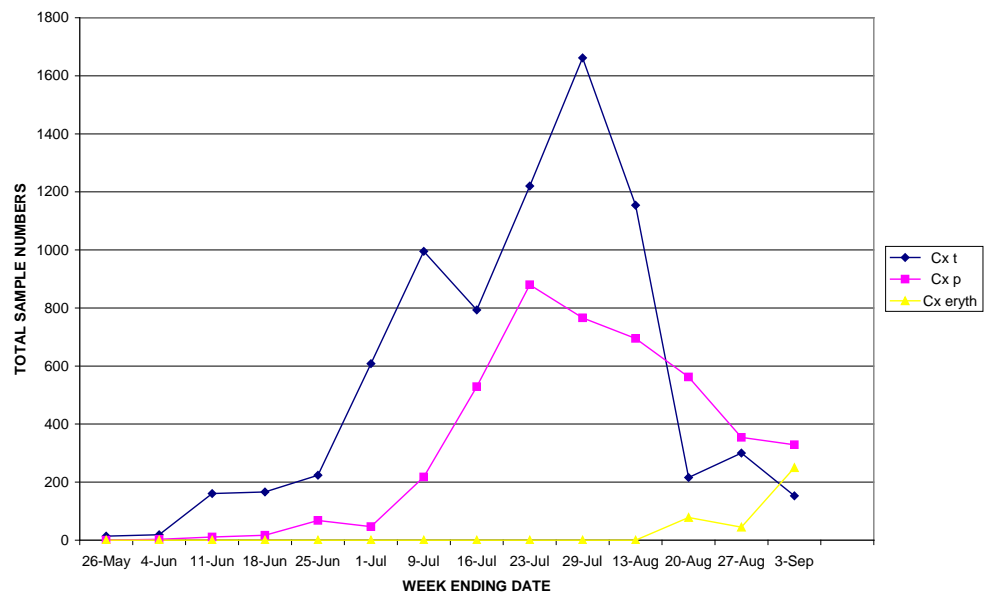
## CCMAD Surveillance Graph: Showing all species sampled

CCMAD 2010 WNV Surveillance Data



## CCMAD Surveillance Chart Showing Vector Species:

CCMAD 2010 WNV Surveillance Data



**West Nile virus Surveillance concluded the week of September 3, 2010 when Culex tarsalis and Culex pipiens complex mosquito numbers declined.**

The following documents are included in this report:

- CCMAD Surveillance by Trap Night.
- CCMAD West Nile virus test results and RAMP values.

Respectfully submitted,

Ed Burnett  
Director of Operations