



BOULDER COUNTY COOPERATIVE MOSQUITO CONTROL PROGRAM

MONTHLY REPORT: MAY 31, 2008

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Larval Control Operations at Full Speed

May Cooler and Drier than Normal

According to the National Weather Service, regional conditions finished slightly cooler and somewhat drier than normal. Mean temperatures fell 1.4 degrees below than normal and precipitation was lower by 0.76 inches. While drier conditions led to dry larval habitat in the beginning part of the month, late month rains helped to add water in some locations. Additionally, cooler temperatures in the high country have decreased runoff leading to a slow start to the irrigation season.

Larval site inspections and treatments continued at a rapid pace through the month. Technicians have been working diligently to inspect and treat existing sites and keep their eyes out for new potential development sites.

Larval production did increase slightly through the end of the month and flood irrigation in June will also add to the spike in both larval *Aedes* and *Culex* mosquitoes. Please see the attached Larval Data Summary for specific results year to date.

Will West Nile Virus Cases Drop in 2008 ?

No one knows for sure if West Nile will strike in large numbers again in 2008 like it did in 2007. In 2007 Colorado was first in the US in human cases, seeing over 576 cases and fourth in human deaths with 7. With 5 years of observation and study under our belt here in Colorado, weather patterns and the associated *Culex* mosquito populations seem to be the best WNV predictors. At least right now the spring 2008 weather pattern does not fit with past WNV outbreak years. The weather patterns in 2003 and 2006, the two most prolific West Nile human disease years in Colorado saw hot and dry weather as the indicative weather pattern for the emergence of WNV human disease in significant numbers. However, remember these patterns can change very quickly.

Researchers continue to study the virus and the ecological variables that may lead to more accurate predictions. Currently the CHPHE (CO Dept. of Public Health and Environment), County Health Departments and Colorado Mosquito Control are cooperating in a state-wide Sentinel Mosquito-borne Disease Surveillance System. This is currently the only "Early-Warning" System in place in Colorado.

2008 Boulder County Cooperating Municipalities & Other Entities:

Boulder County MCD
 City of Lafayette
 City of Longmont
 City of Louisville
 Town of Superior
 Boulder County Recycling Center

Wear Your Repellent!

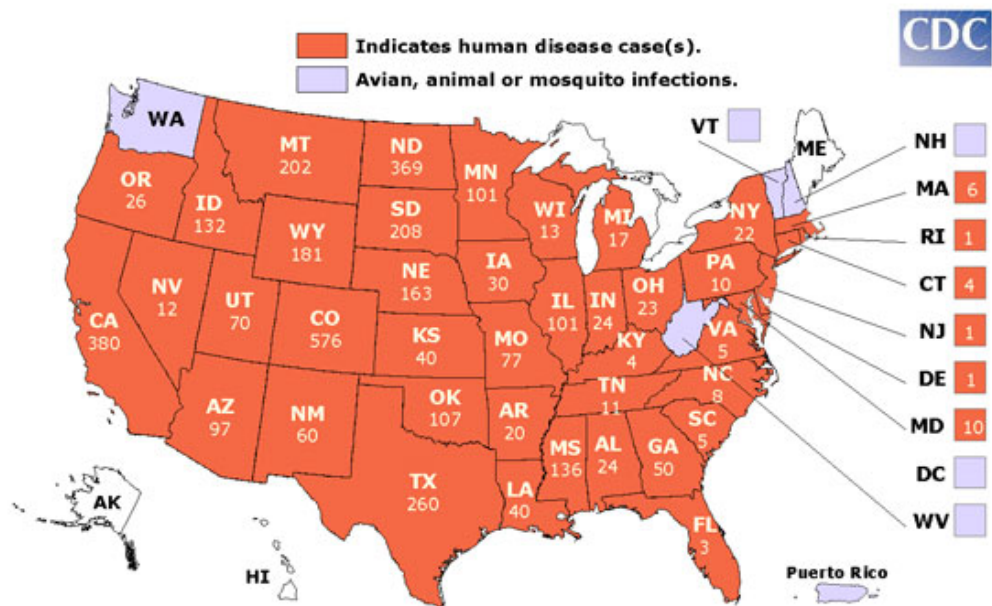
- CDC recently came out with new repellent recommendations, visit our website for a link & more information.

- Studies have shown that most human cases of WNV were preventable. Most people infected did not take precautions such as wearing long sleeves and using repellents.

- The most effective repellents contain 10%-35% DEET (N,N-diethyl-meta-toluamide).

- DEET in high concentrations, above 50%, provides no additional protection

Final 2007 West Nile Virus Activity in the United States



Even with the wet spring and up and down temperatures, relatively high *Culex* population percentages have been seen to date. Please see the attached Light Trap Data Reports for more information.

Thus far in 2008, in the US 6 human cases have been confirmed as of May 31 from Arizona, Mississippi (3), Texas and Tennessee. 16 wild bird positives and 12 positive mosquito pools have been reported from California, Texas and South Carolina.

Mosquito Population Surveillance

Due to cool overnight temperatures, highly variable weather patterns, and lack of adult mosquito activity, trapping effectiveness and efficiency is very low this time of year and has not been deemed necessary to this point.

Following CDPHE recommendations, full-scale trap surveillance operations will begin on June 1, weather permitting, in all areas.

Adult Control Operations

Due to lack of adult mosquito activity no adulticide applications were necessary in May.



Larvicide Data Summary

	Total Site Inspections	No. Wet Sites	Percentage Wet Sites	No Sites Treated	Percentage Breeding*	Total Acres Treated
Boulder County Recycle	5	1	20 %	5	100 %	4.2
Boulder County-MCD	775	100	13 %	102	100 %	146.9
Lafayette, City of	76	3	4 %	5	100 %	4.4
Longmont, City of	170	16	9 %	17	100 %	15.0
Louisville, City of	46	4	9 %	4	100 %	0.5
Superior, Town of	35	2	6 %	1	50 %	0.3

* (Sites Treated/Wet Sites)