

**Breakout Summary:
Vector Management Programs
and
West Nile Virus Responses**

- **Purpose - Review operational aspects of WN surveillance - response programs**
 - **Initiating and maintaining an integrated vector control program - J. Miller**
 - **Trigger events for mosquito adulticide applications in 2001 - B. Matyas**
 - **Planning for the arrival of WN virus. V. Kramer**

Initiating and maintaining an integrated vector control program - J. Miller

- **Degradation of NYC's program since 1970**
- **Development of program since 1999**
 - **Budget Sources**
 - **Personnel**
 - **Contractual services**
 - **Communication activities**
 - **Data management**

Initiating and maintaining an integrated vector control program - J. Miller

- **Regulatory environment**
 - Pesticide controversy
 - Integrate DEP into activities
 - Environmental Impact Statement - Worth the cost
- **Recommendation**
 - Invest in efforts to gain public confidence
 - Pesticide health effects

Trigger events for mosquito adulticide applications in 2001 - B. Matyas

- **Adulticide decision local unless public health emergency**
- **Controversy - Adulticide use, not other activities**
- **First year of WNV response**
 - **Aggressive (adulticide 2 mi. radius around event)**

Trigger events for mosquito adulticide applications in 2001 - B. Matyas

- **Second WNV year response**
 - More conservative, require more evidence to support adulticide decision
 - Based on EEE plan and 2001 WNV guidelines
 - Risk categories - defined indicators
 - Flexible - allow local interpretation
 - Triggers in plan not met in towns with horse/human cases
- **Recommendation**
 - Refine surveillance indicators as new information accumulated
 - Expand surveillance/response into Fall, beyond traditional adulticide windows.

Planning for the arrival of WNV virus.

V. Kramer

- **California system - 30 years of accumulated surveillance data.**
- **Existing components enhanced to deal with WNV**
 - **Sentinel chickens**
 - **Mosquito surveillance**
 - **Human case surveillance**
 - **Veterinary (horse) surveillance**
 - **Dead bird surveillance added**
 - **WNV preparedness workshop - for health agencies**
- **Anticipate effect of WNV on system**
 - **Enhance lab capacity**
 - **Algorithm for bird testing**
 - **Refine public outreach to facilitate bird reporting/collecting**

Planning for the arrival of WN virus.

V. Kramer

- **California Encephalitis Program**
 - Human encephalitis of unknown etiology
 - Extra testing for WNV
- **Quantified arbovirus risk model developed, being evaluated**
 - WEE, SLE

Discussion / Recommendations

- **Involve / inform primary civic leaders**
- **Involve / inform public**
- **Refine surveillance tools - accumulated experience**
- **Improve lab turnaround time**
 - Required for adequate response
- **Have a plan, develop flexible adulticide triggers**
- **Anticipate effect of WNV on entire system**
- **Maintain appropriate levels of interest in WNV and related health effects**
 - What can health agencies do to maintain support for surveillance?

Discussion / Recommendations

- **Personal Protection message**
 - How do we communicate?
 - How do we know if it is working?
- **Rely on advice from professionals**
 - Public health, mosquito control
 - Politically unfavorable recommendations
- **Control efforts must include efficacy monitoring**
 - Do control efforts, particularly adulticiding, perform adequately?
 - Burden of accountability on control programs to document effectiveness
- **Basic research needed**
 - Transmission ecology - vector biology
 - Predictive models
 - Intervention effectiveness