Equine West Nile Virus
2005 Surveillance Summary

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CA. Dept. of Health Services
Equine WNV Surveillance

- **Neurological Horse**
  - Head, brain
  - Head, sera, tissues
  - Rabies testing

- **PH lab**
  - Necropsy, PCR, IgM Capture ELISA

- **CAHFS**
  - Reportable disease to CDFA
  - Case confirmation, questionnaire

- **CDFA**
  - Update state database, report address, onset to local agencies

- **DHS**
  - Update state database, report address, onset to local agencies

- **LHD**

- **MVCD**
Outreach Efforts

- Veterinarians
- Feed Stores
- Breeders
- Trainers
- Horse Associations
- ~90,000 flyers, 60,000 brochures (5,000 Spanish), 21,500 posters
- DHS and CDFA websites
- San Joaquin DVD distribution
- WNV hotline

West Nile Virus is Here!

Protect your horse!

Vaccinate today!

California became the focus for West Nile Virus (WNV) in 2002 with 2 clinical equine cases. Over 40 percent of clinically affected horses died. In 2004, WNV was detected in all California counties.

The virus has already been detected in 2005 in numerous counties; Disease Control and Prevention has predicted that California will sustain WNV for years to come.

WNV is a mosquito-borne disease. Minimizing exposure to mosquitoes applying insect repellent, and eliminating sources of standing water are effective ways to prevent your horse from being exposed to WNV.

Once WNV is introduced into an area, the disease is likely to spread. WNV vaccination is crucial to ensure your horse’s health. Existing guidelines are as follows: an initial series of two WNV vaccines followed by annual boosters. Horses are not fully protected until they have had and are up to date with booster vaccinations. The number of vaccinations may vary depending on seasonal climate and exposure to the virus.

For more information on West Nile Virus (WNV) in horses, call Information line 1-800-338-7378.
Publications

May

-7 Trade Magazines ran an WNV information Article

June

-5 Trade Magazines printed WNV flyer

CVMA articles
## 2005 CA. Data Summary

<table>
<thead>
<tr>
<th>Confirmed Equine Cases</th>
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<tbody>
<tr>
<td>Total Cases</td>
<td>454</td>
</tr>
<tr>
<td>Total Horses Tested</td>
<td>1,188</td>
</tr>
<tr>
<td>Euthanized or Dead</td>
<td>199</td>
</tr>
<tr>
<td>Completely Vaccinated</td>
<td>19</td>
</tr>
<tr>
<td>Median Age</td>
<td>13 years</td>
</tr>
<tr>
<td>Age Range</td>
<td>4 mo-40 yrs</td>
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<tr>
<td>Mares</td>
<td>51%</td>
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2005 Equine West Nile Surveillance Results

447 WNV confirmed cases as of October 20, 2005

Legend
- Confirmed Case Location
- Equine Tested 1 or more Positive
- Equine Tested Negative/Pending
- No Equine Tested

Source: California Animal Health and Food Safety Laboratory
Surveillance Successes

- Faster notification to local health departments and vector control agencies (1-3 days average)
- Enhanced outreach to veterinarians and industry
Surveillance Challenges

- Utility of equids for WNV surveillance as more become vaccinated
- Underreporting issues
Questions?

- Dr. James Glover
- Dr. Ben Sun
- Dr. Katie Weatherall