

Comparison of New Jersey Light Traps and EVS Traps for Surveillance of *Culex tarsalis* populations

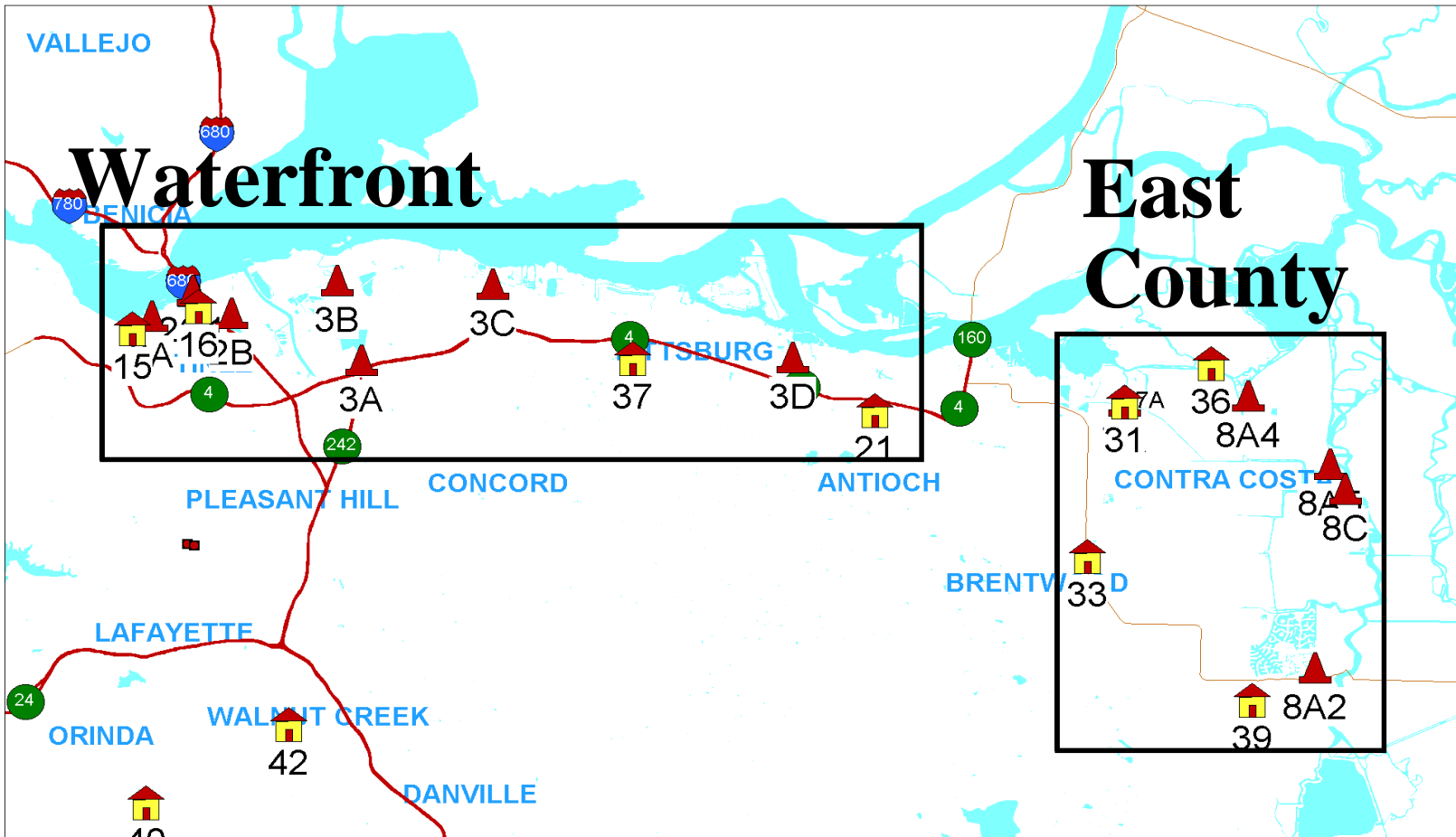


Steven Schutz
Contra Costa Mosquito &
Vector Control District
155 Mason Circle
Concord, CA

NJLT

EVS

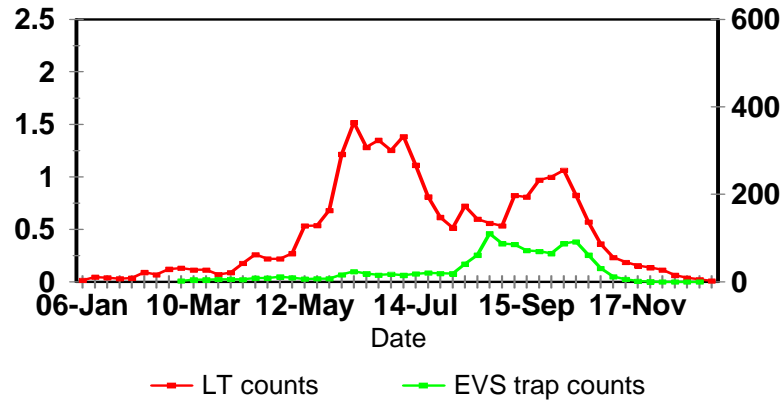
Initial cost	High	Moderate
Operating cost	Low	High
Labor	Low	High
Location	Limited	Unlimited
Catch	Low, night	High
Live catch?	No	Yes
Attractant	Visual/line of sight	Olfactory/downwind
Operation	Nightly/continuous	Weekly/intermittent



©1996 Thomas Bros. Maps

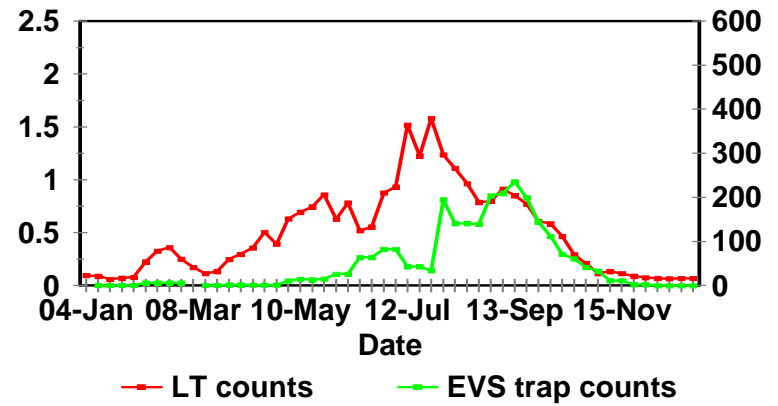
LT vs. CO2 trap counts 1994

avg. all traps



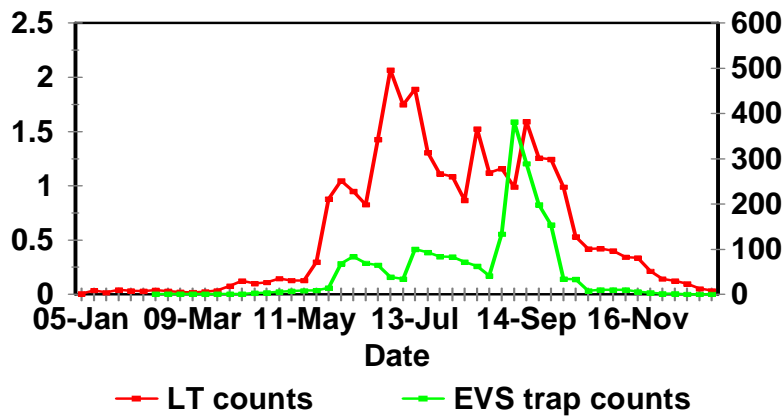
LT vs. CO2 trap counts 1996

avg. all traps



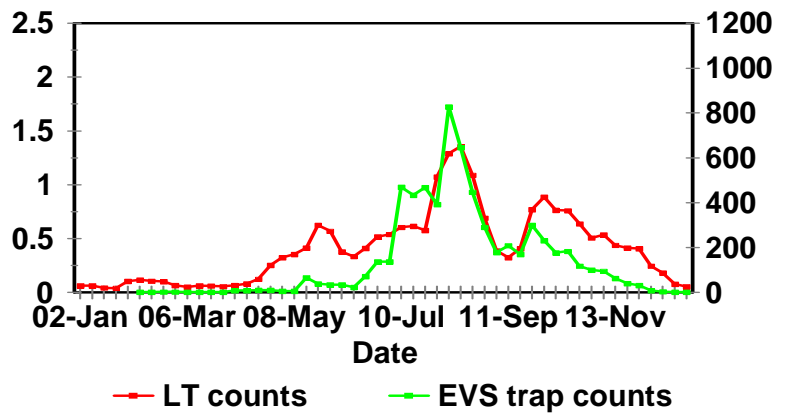
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avg. all traps



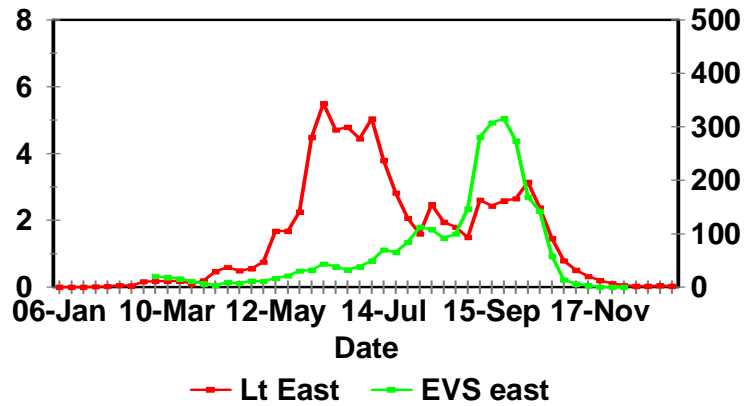
LT vs. CO2 trap counts 1997

avg. all traps



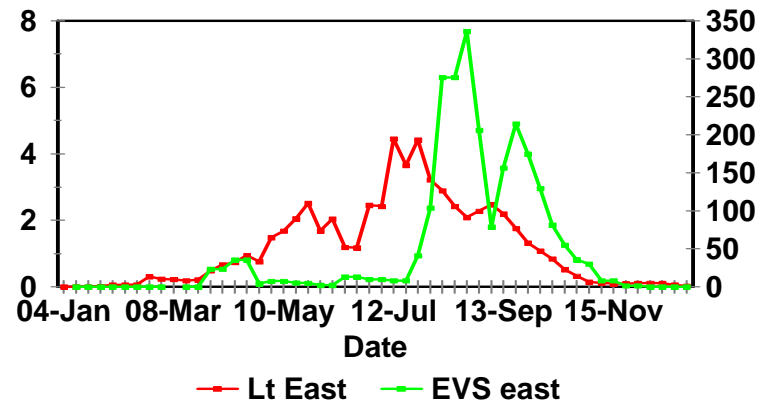
LT vs. CO2 trap counts 1994

avg. east county



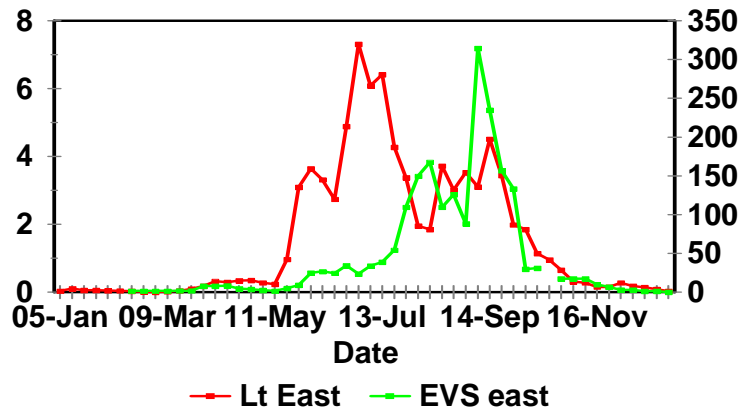
LT vs. CO2 trap counts 1996

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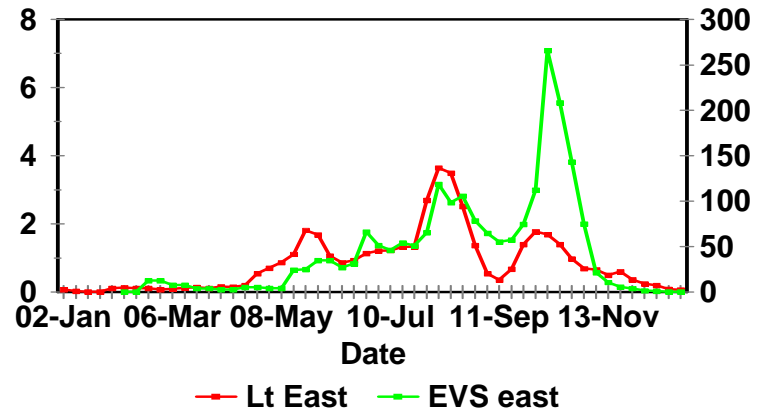
LT vs. CO2 trap counts 1995

avg. east county



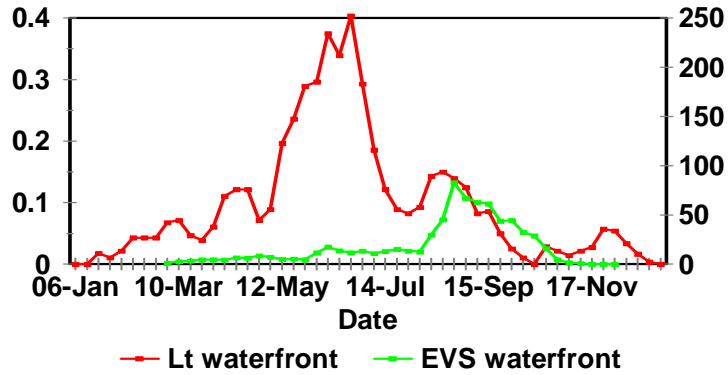
LT vs. CO2 trap counts 1997

avg. east county



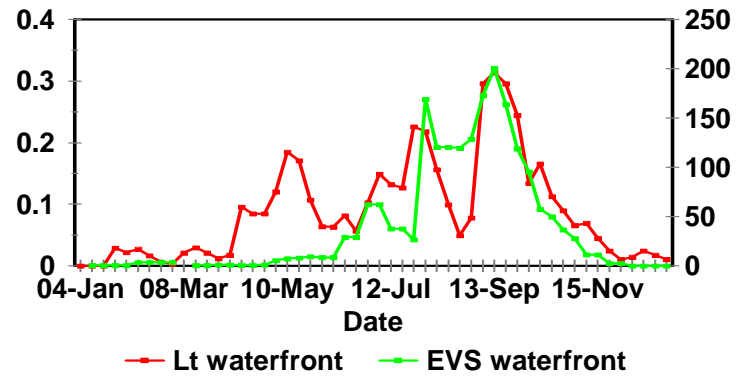
LT vs. CO2 trap counts 1994

avg. waterfront



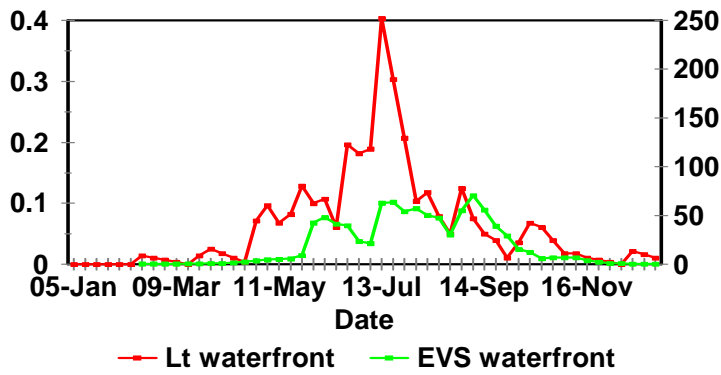
LT vs. CO2 trap counts 1996

avg. waterfront



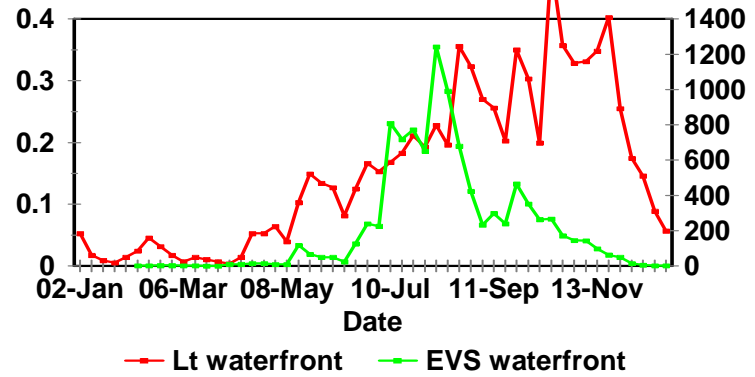
LT vs. CO2 trap counts 1995

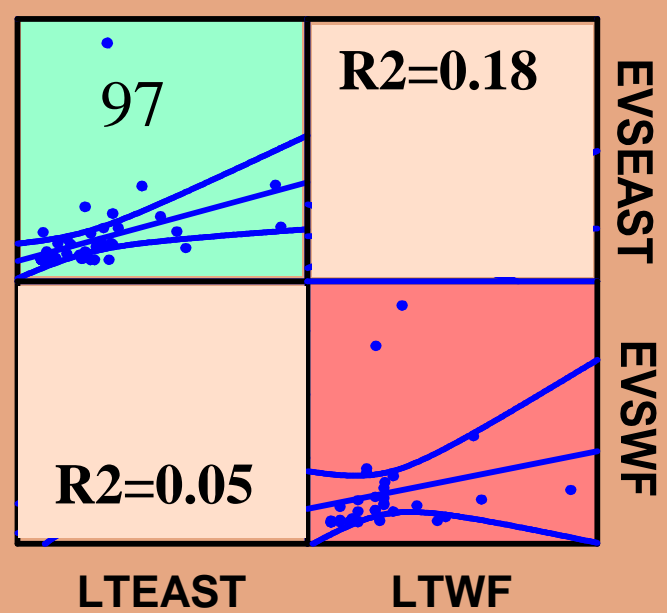
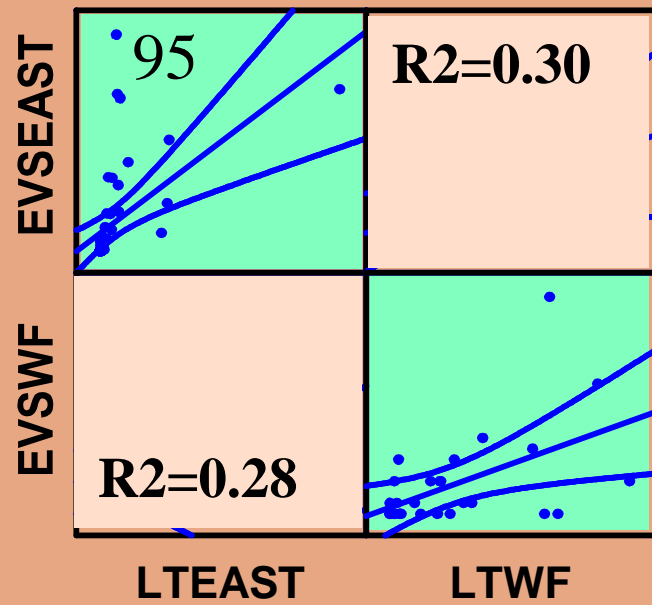
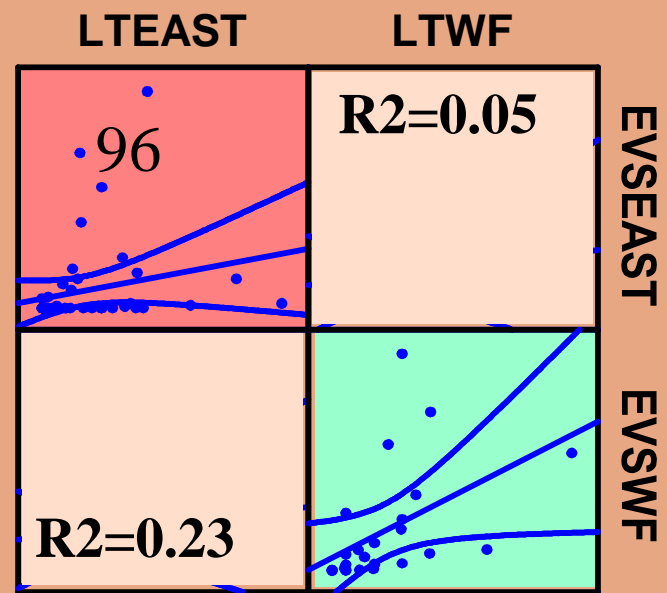
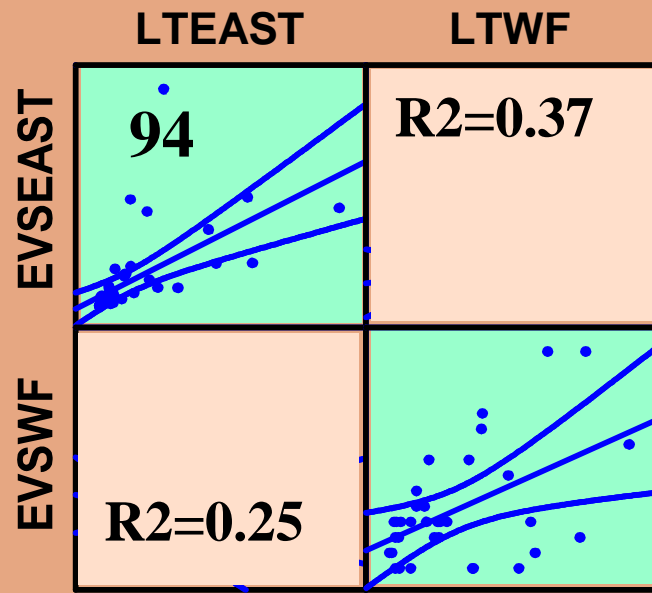
avg. waterfront



LT vs. CO2 trap counts 1997

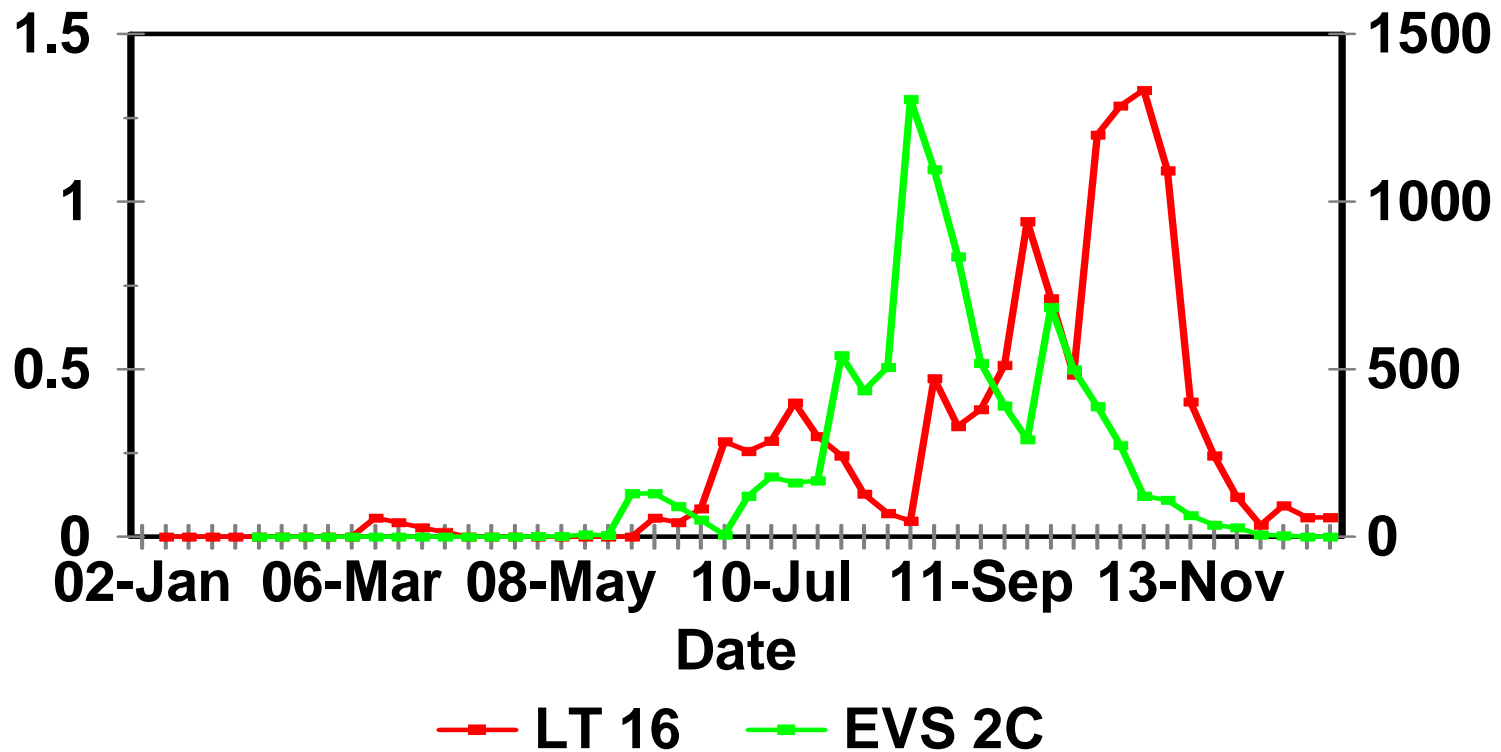
avg. waterfront





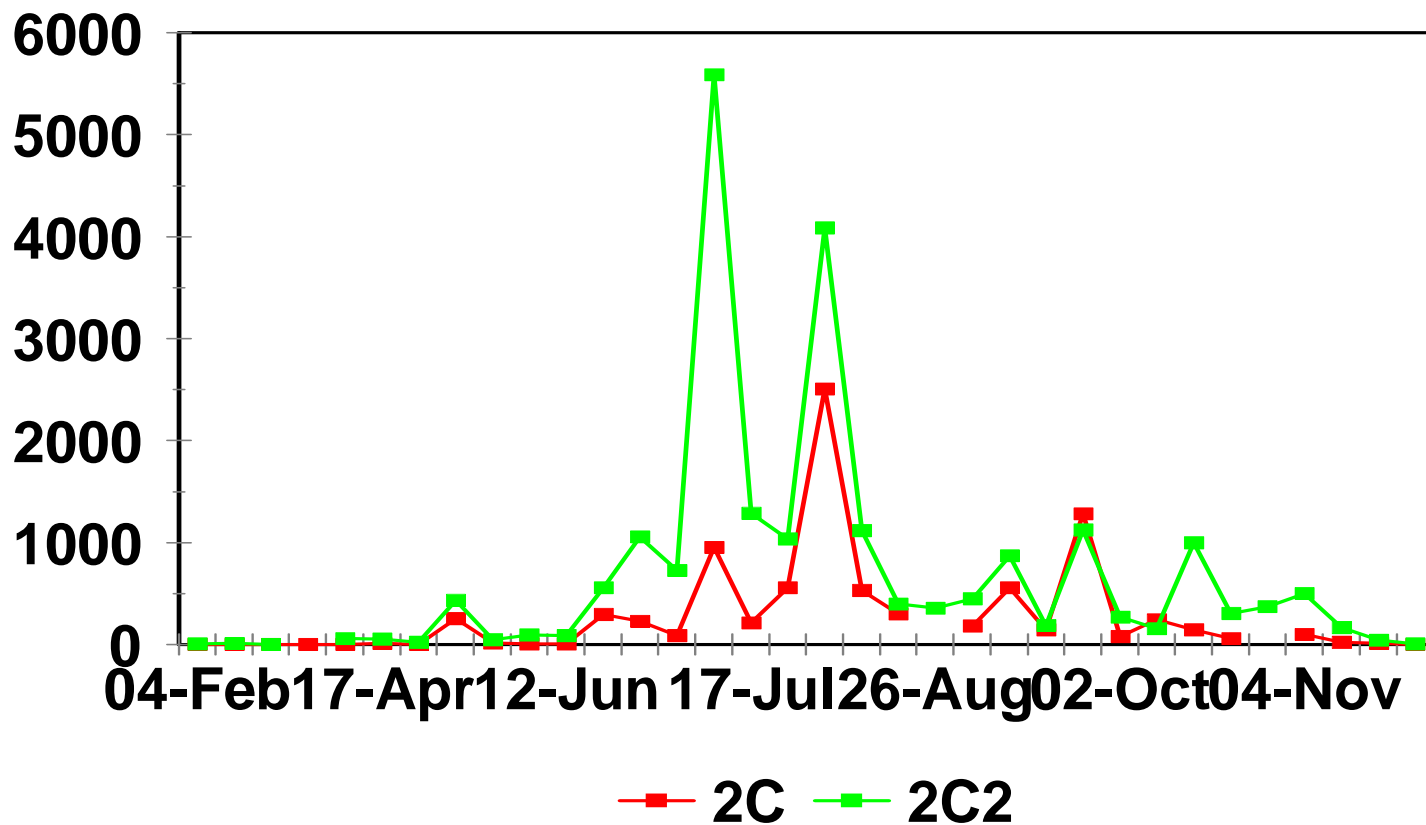
LT vs. CO2 trap counts 1997

Rhone-Poulenc, Martinez



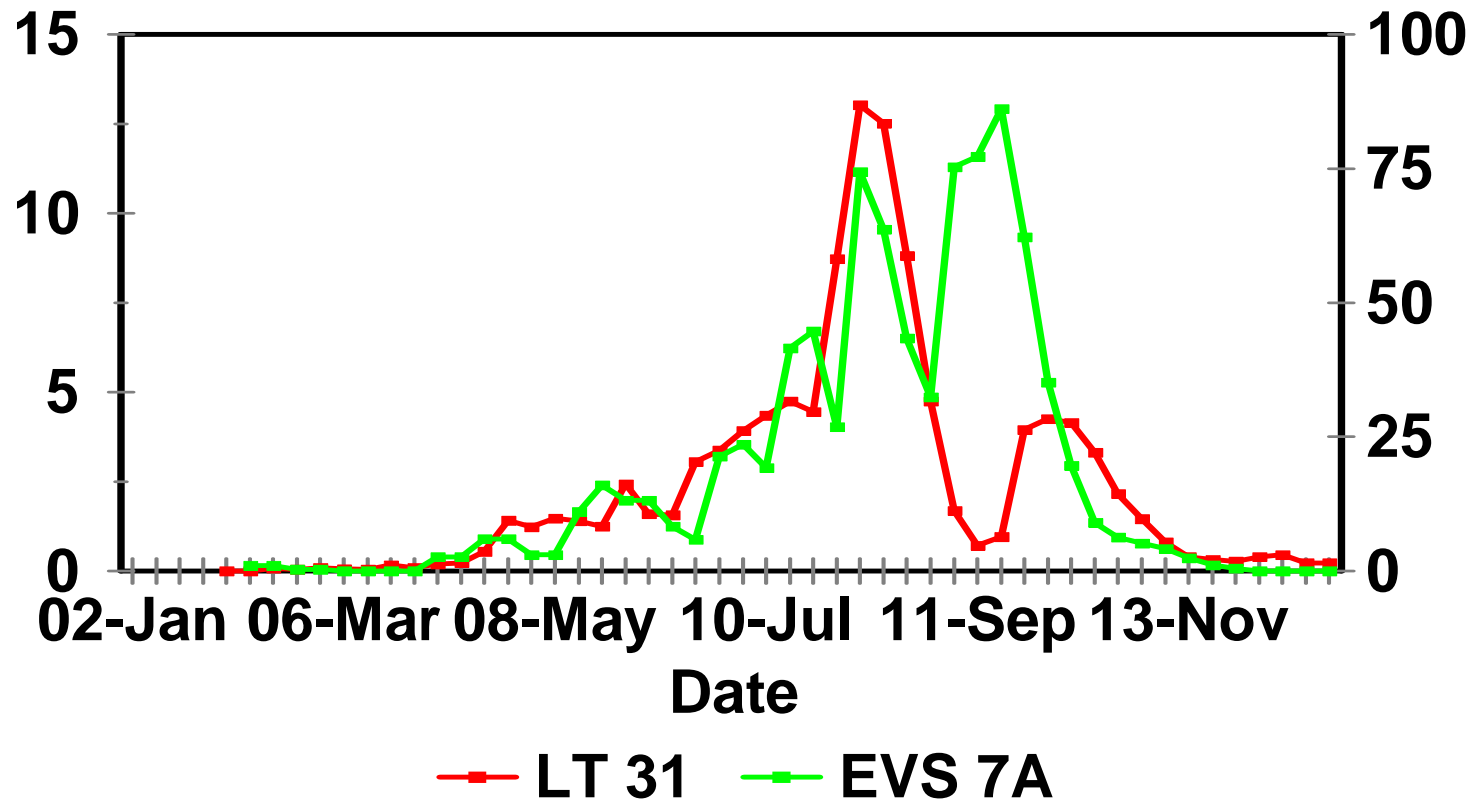
EVS:LT = 122:1

Rhone-Poulenc 1997



LT vs. CO2 trap counts 1997

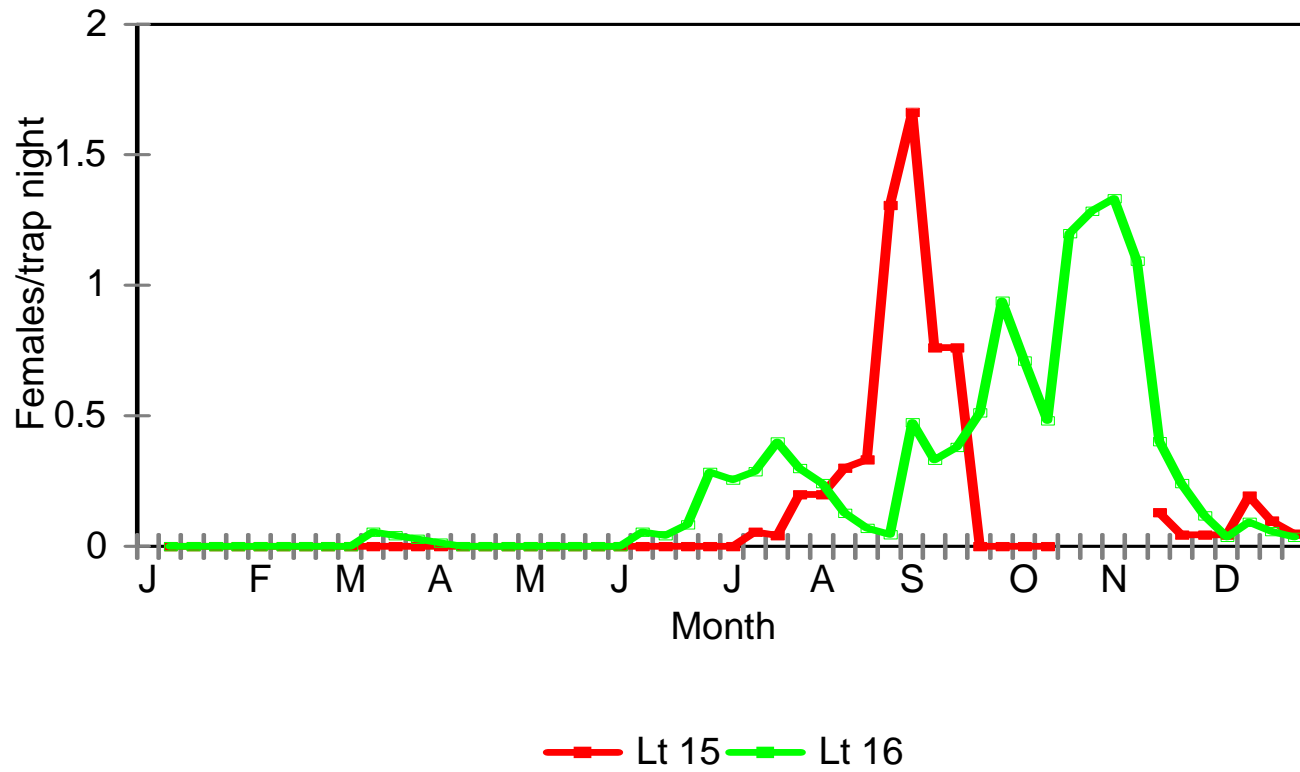
Emerson Dairy, Oakley



EVS:LT = 8.7:1

LT counts 1997

Cx. tarsalis females, trap 15, 16



NJLT

- Low cost
- Low effort
- Good indicator of long-term trends
- Revealed early season peaks
- Continuous surveillance

EVS trap

- Higher cost
- High effort
- Good indicator of short-term trends
- Missed early season peaks
- Live catch for virus surveillance
- “Snapshot” effect

Rodent Pilot Project 1997

