

Suppression of colonies of *Reticulitermes* spp. using the Sentricon® termite colony elimination system: A case study in Chatsworth, CA



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- Residential condominiums
 - Incorporated Feb 1969
- Ten Construction phases
 - 1969-1979
- 90 acre property
- 140 structures
 - 132 residential
 - 739 units
 - over 2600 people
- 1.5 million sq. ft. under roof
- 11.3 miles of perimeter linear feet

- **Commercial installation**
- **Sentricon™ in-ground (few above ground)**
- **Installation October-December 2001**
 - 134 structures
 - 7327 initially installed stations
- **Prolinx™ database maintained**
 - Dolphin scanner
- **Switch to ESP™ in September 2002**

Data Collection and Management

- One technician responsible for site inspections
- Stations baited with active ingredient once termites observed
- Monthly service tickets and Prolinx™ summaries
- Manage data as GIS project

ArcView GIS 3.2a



File Edit View Theme Analysis Surface Image Analysis Graphics Window Help



Scale 1: 7,712

1,942,685.88
584,600.82

View1

Stations2.shp

Vegetation.shp

Roads2.shp

Roads.shp

Stations.shp

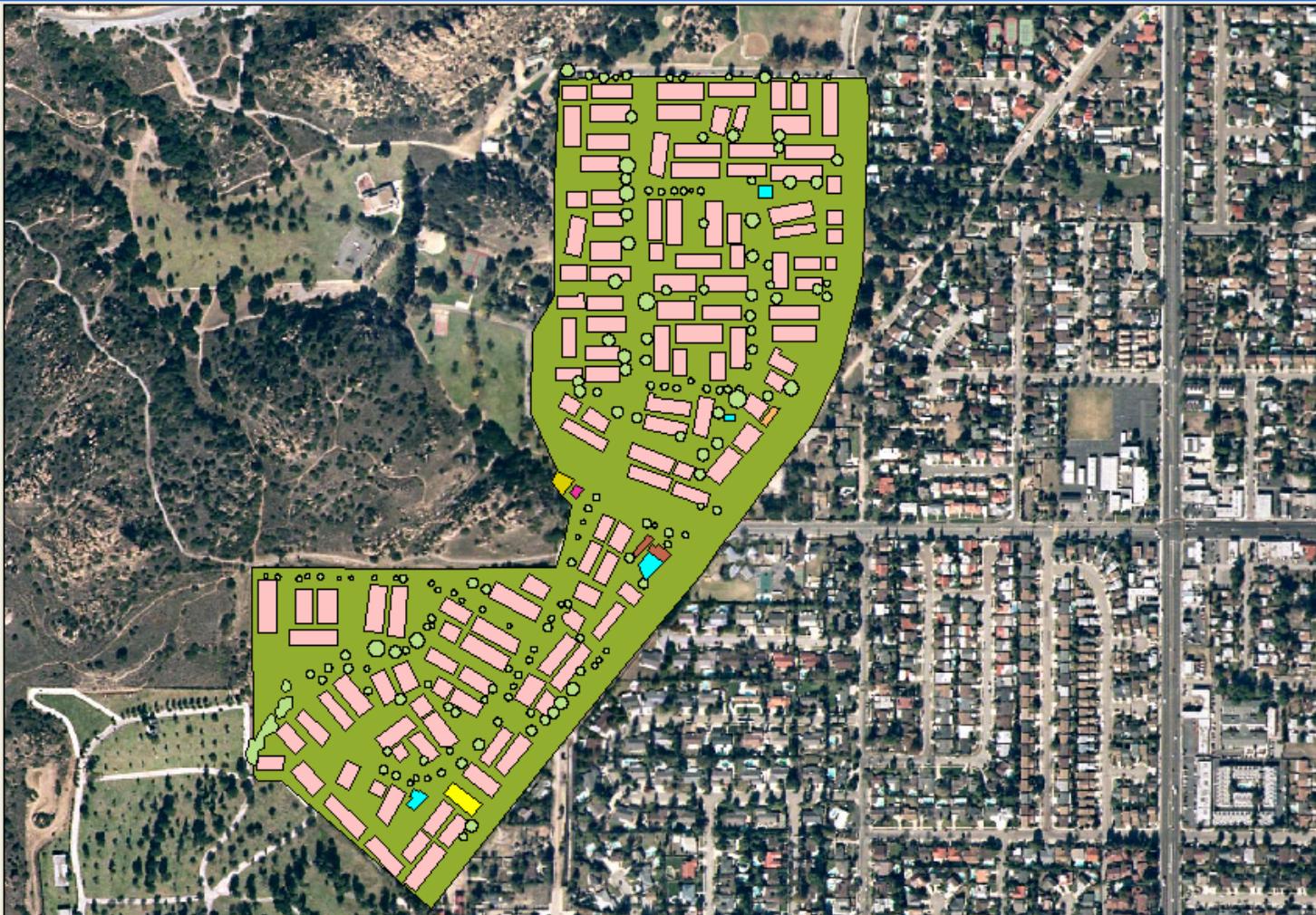
Project.shp

Clubhouse
Condo
Main. Yard
Nur. Shed
Office
Open/Road
Pool

Development Phase

1969
1970
1971
1972
1973
1974
1975
1976
1977
1978

Solek_chatsworth.tif



WITHIN ONE YEAR OF INSTALL

Total no. buildings w/stations 134

Total no. buildings with
active termites in stations 130
(95%)

WITHIN ONE YEAR OF INSTALL

Total no. stations installed	7327
Total no. auxillaries installed	418

WITHIN ONE YEAR OF INSTALL

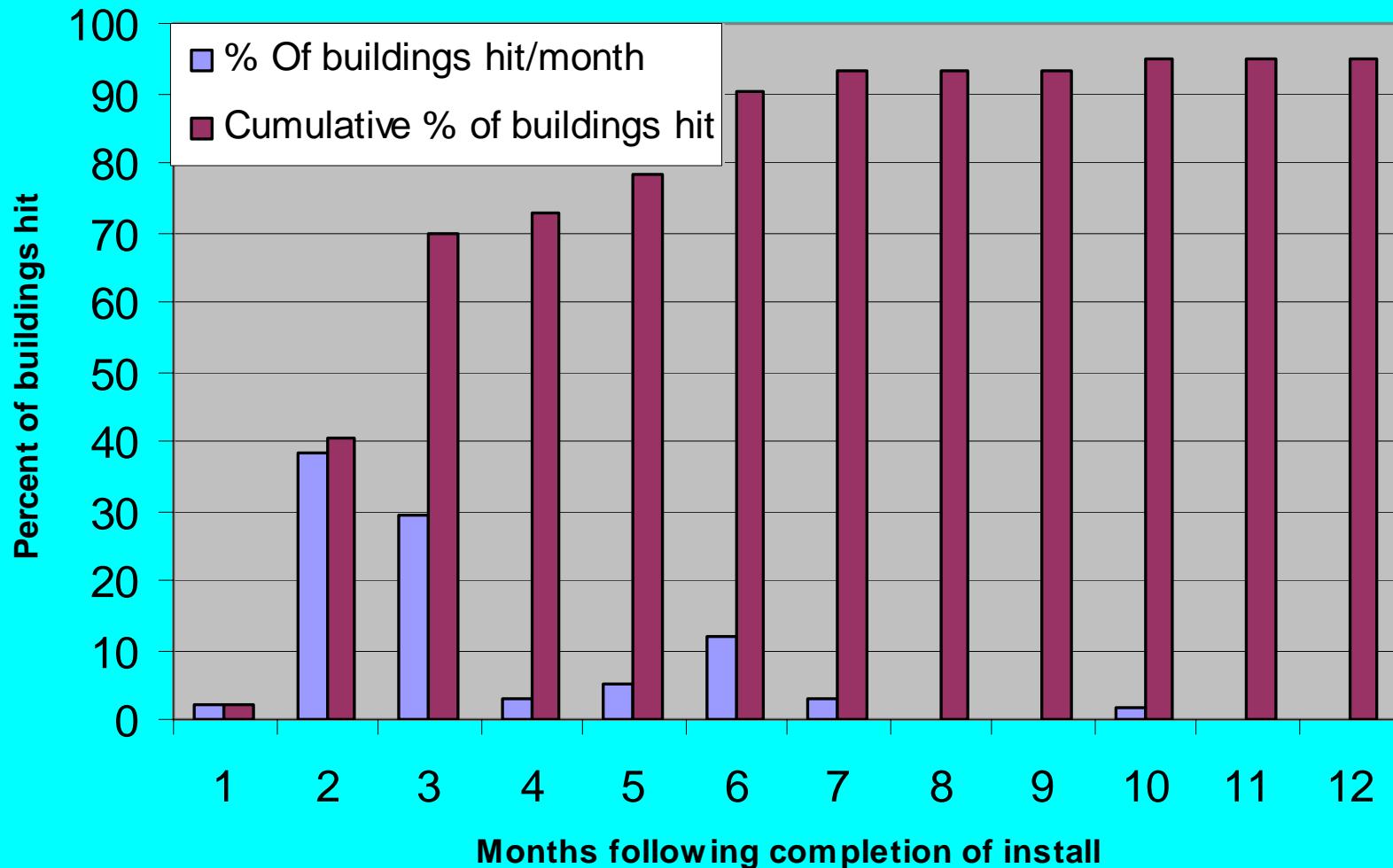
Total no. stations with termites
present/baited
878 (12%)

Mean/median days to station first
active
153/105 days

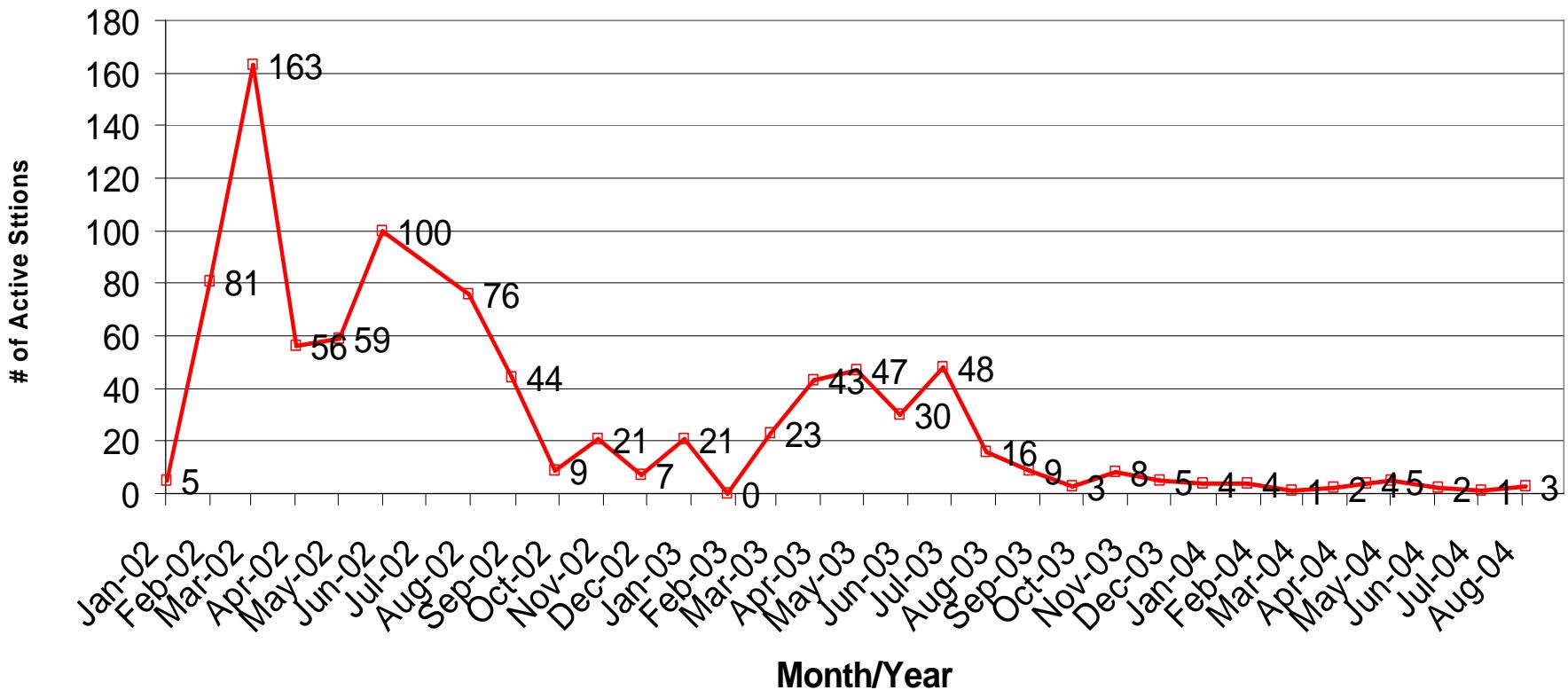
WITHIN ONE YEAR OF INSTALL

No. "Successfully Baited"	727 (83%)
No. Multiple Baitings (re-hits)	120 (14%)
No. of Abandonments	53 (6%)
Mean/Median Days to Elimination	127/102 days

Building Hit Progression at the RockPointe Condominium Complex



RockPointe-New Active Stations/Month



RockPointe Condominium Complex

Chatsworth, CA

■ Bldg. not recorded
in database

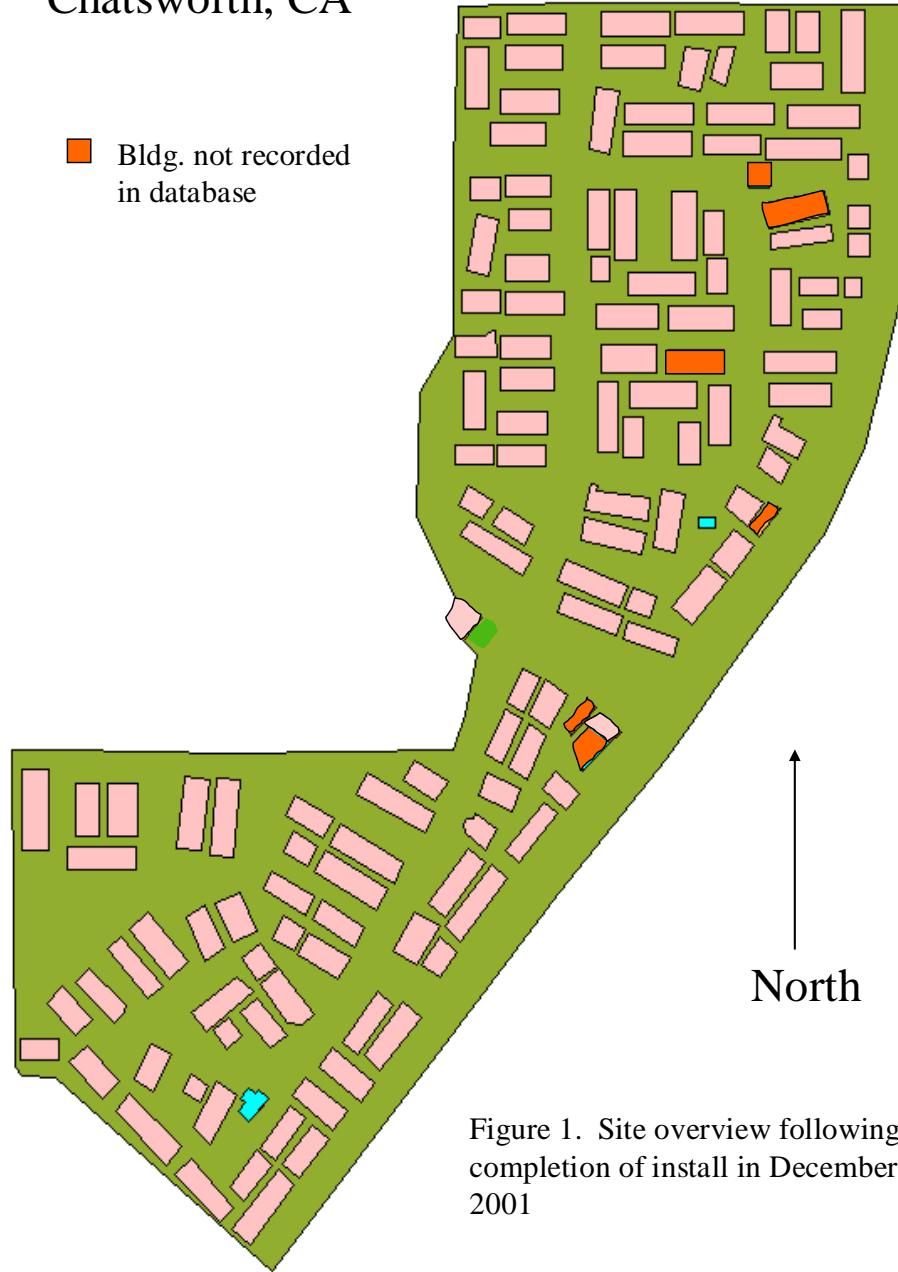


Figure 1. Site overview following completion of install in December 2001

RockPointe Condominium Complex Chatsworth, CA

■ Bldg. not recorded
in database

■ New hit

■ Prior hit

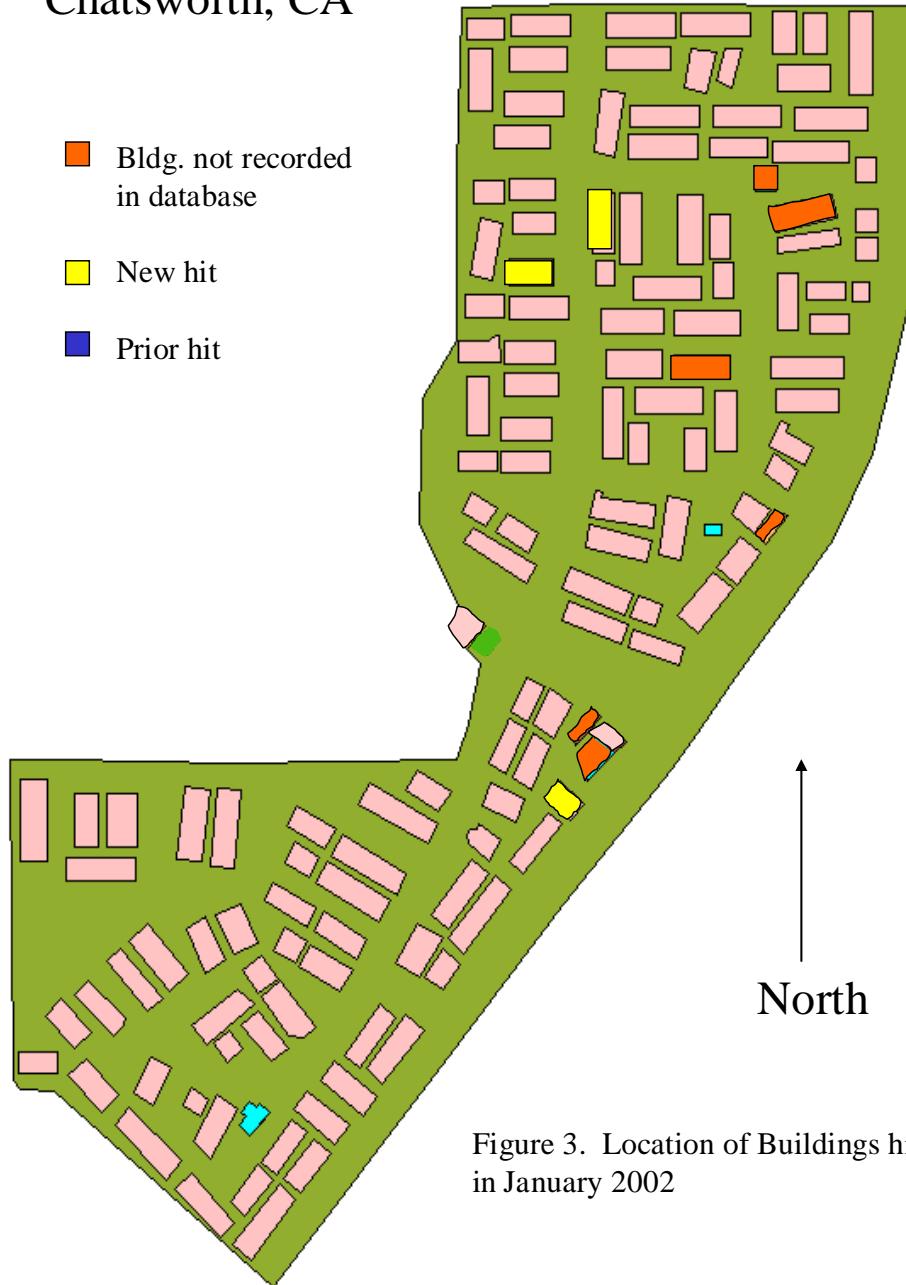
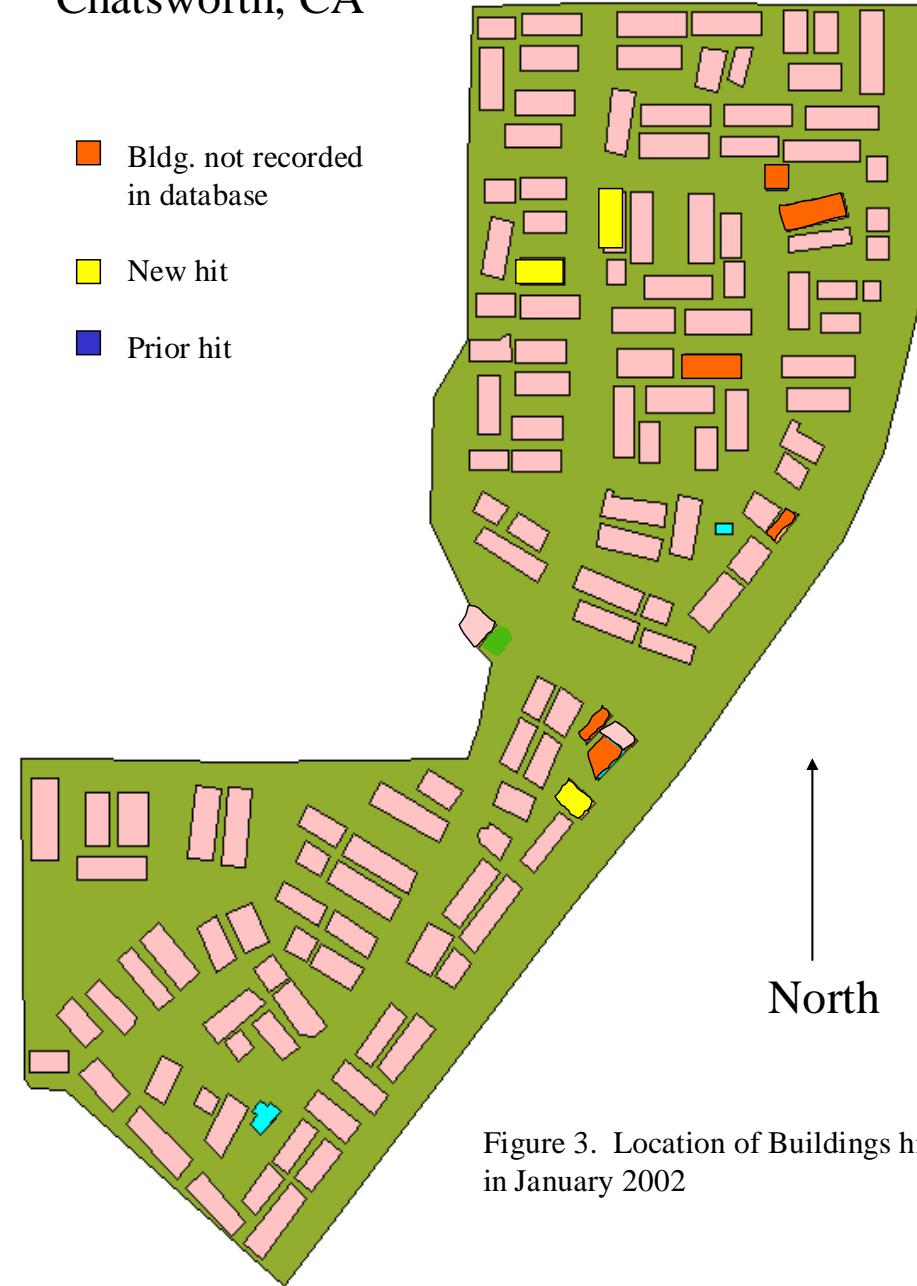


Figure 3. Location of Buildings hit
in January 2002

RockPointe Condominium Complex

Chatsworth, CA

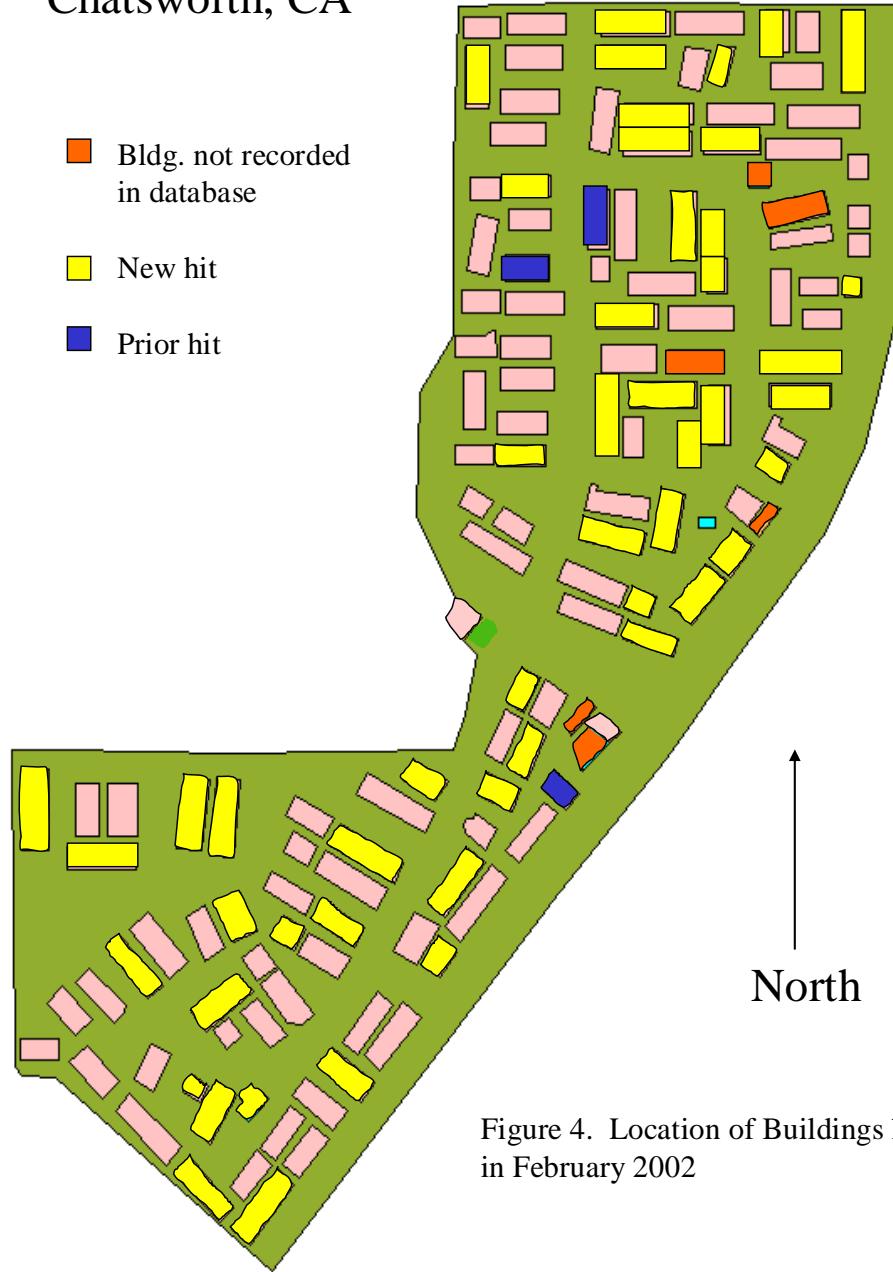


RockPointe Condominium Complex Chatsworth, CA

■ Bldg. not recorded
in database

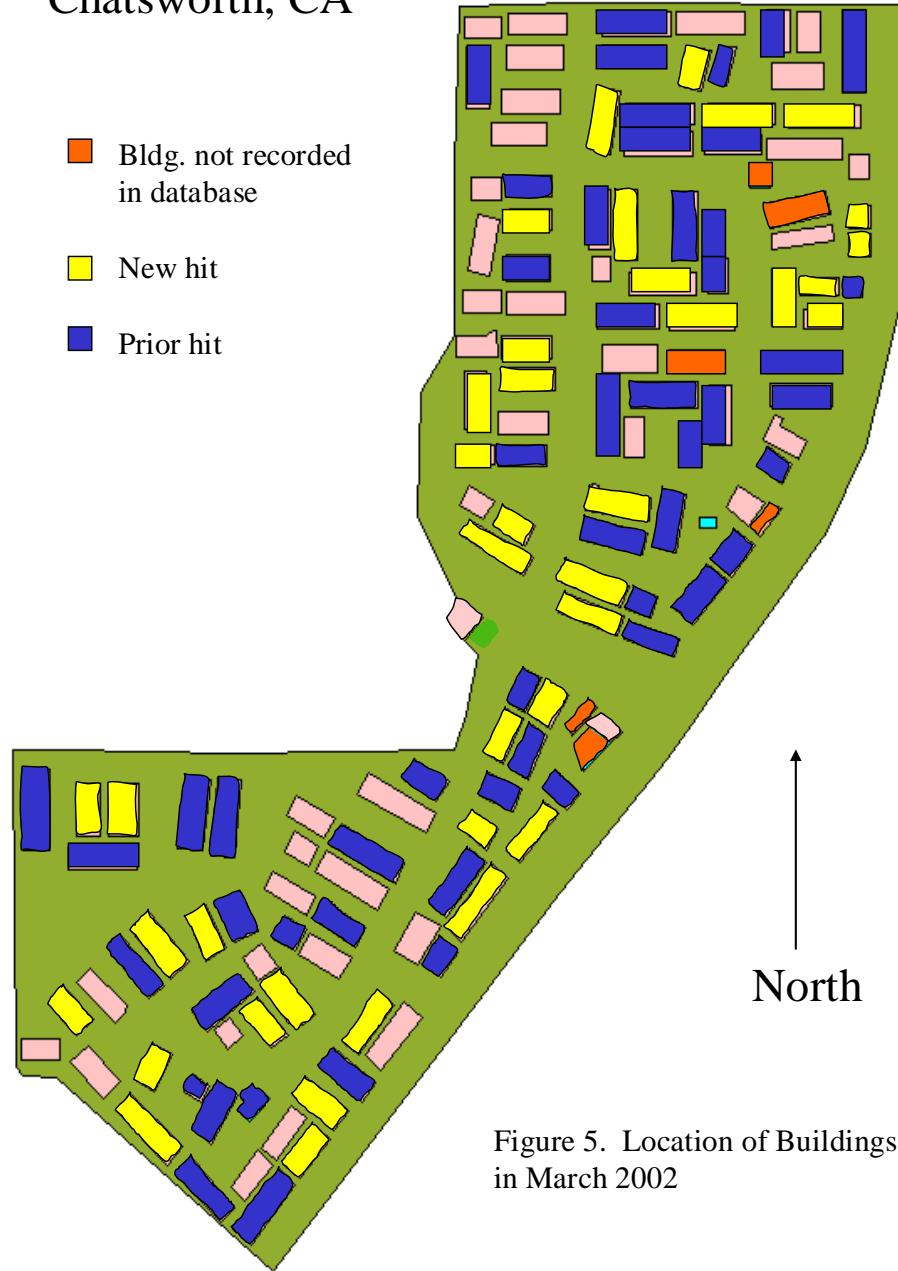
■ New hit

■ Prior hit



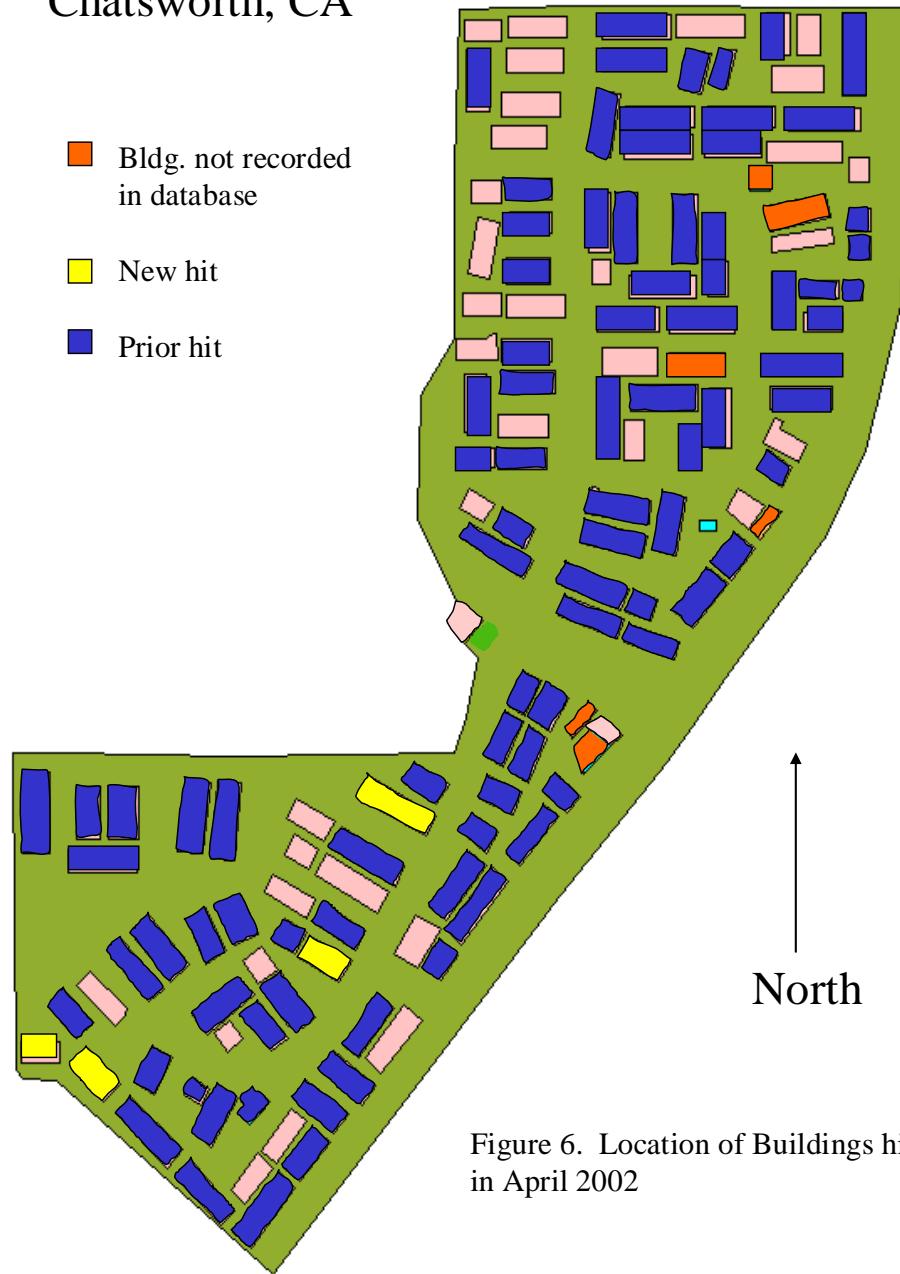
RockPointe Condominium Complex Chatsworth, CA

- Bldg. not recorded
in database
- New hit
- Prior hit

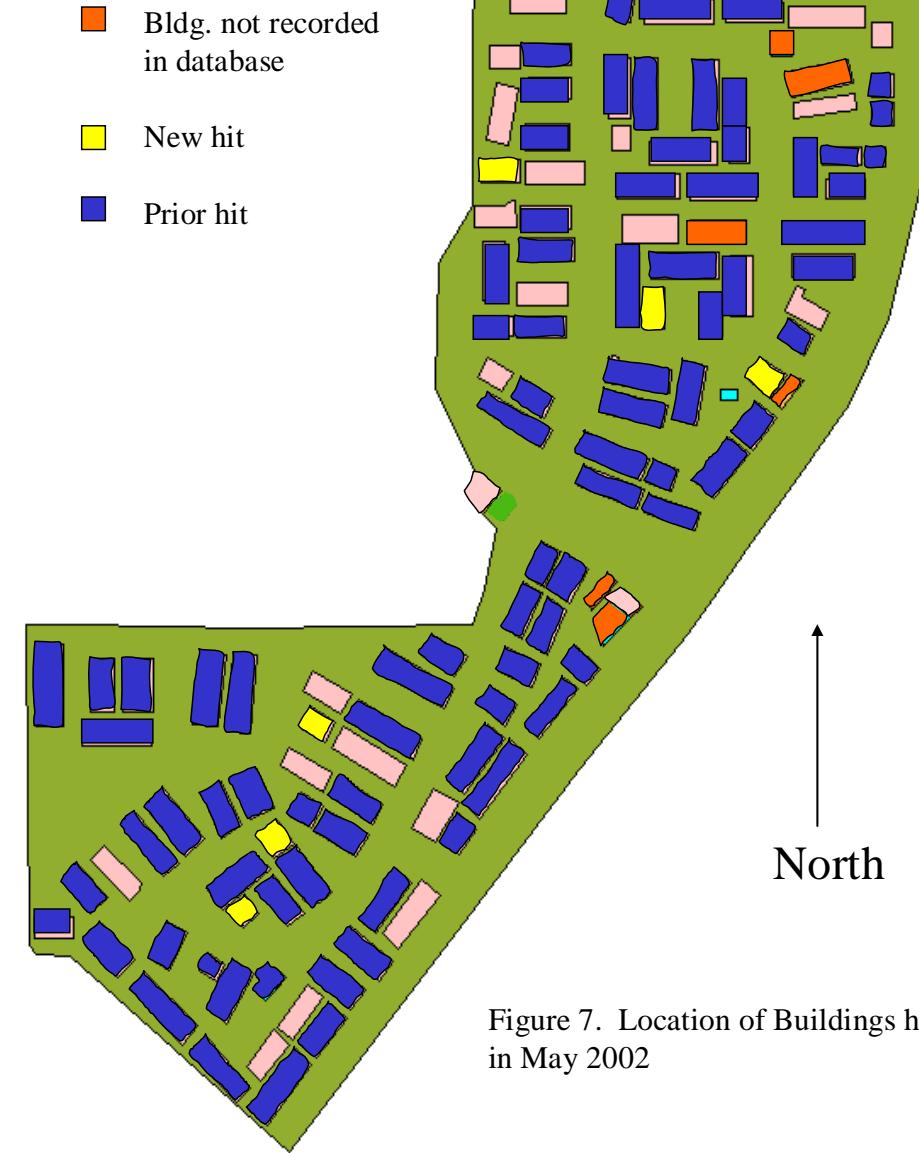


RockPointe Condominium Complex Chatsworth, CA

- Bldg. not recorded
in database
- New hit
- Prior hit



RockPointe Condominium Complex Chatsworth, CA



RockPointe Condominium Complex

Chatsworth, CA

- Bldg. not recorded in database
- New hit
- Prior hit

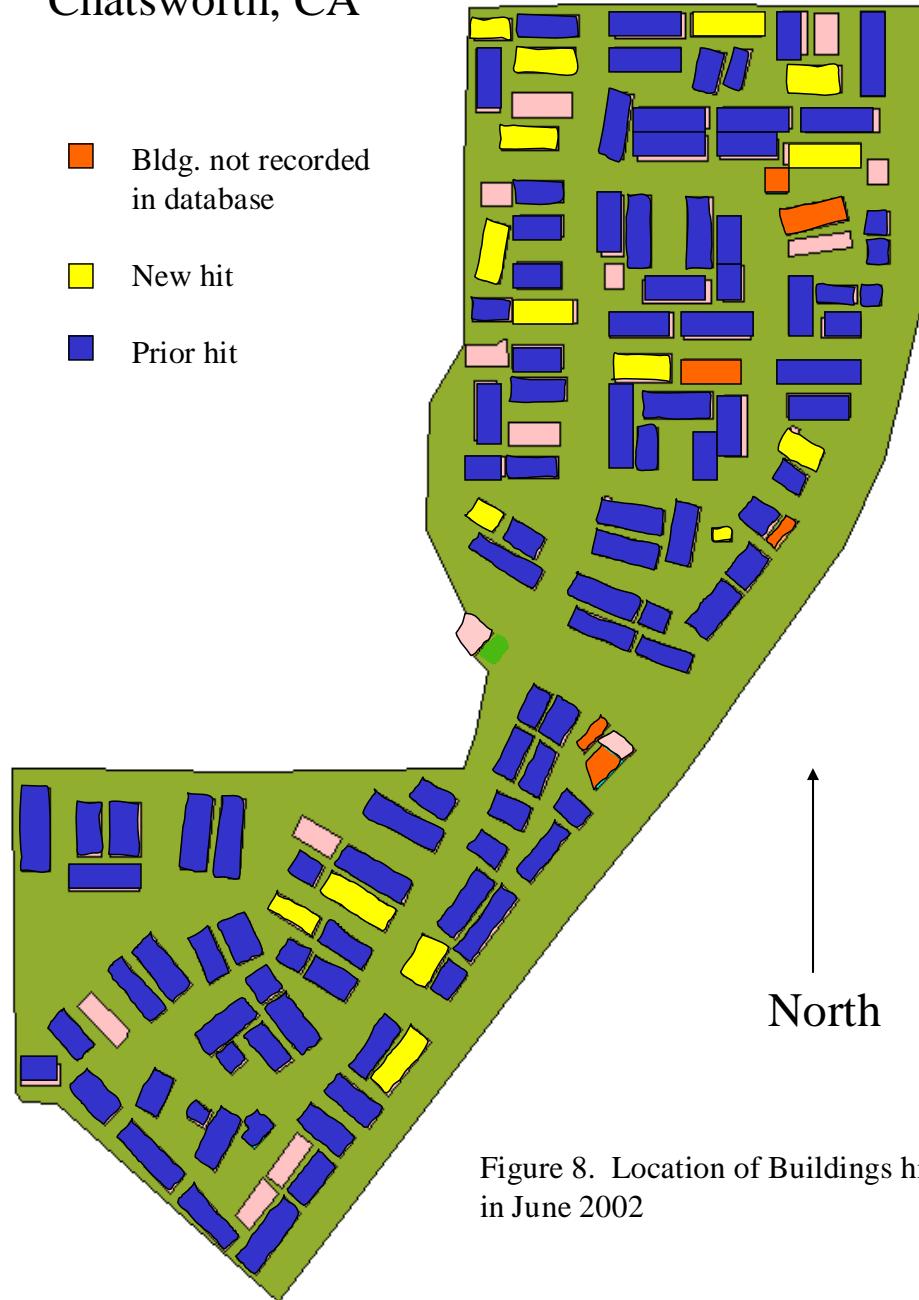
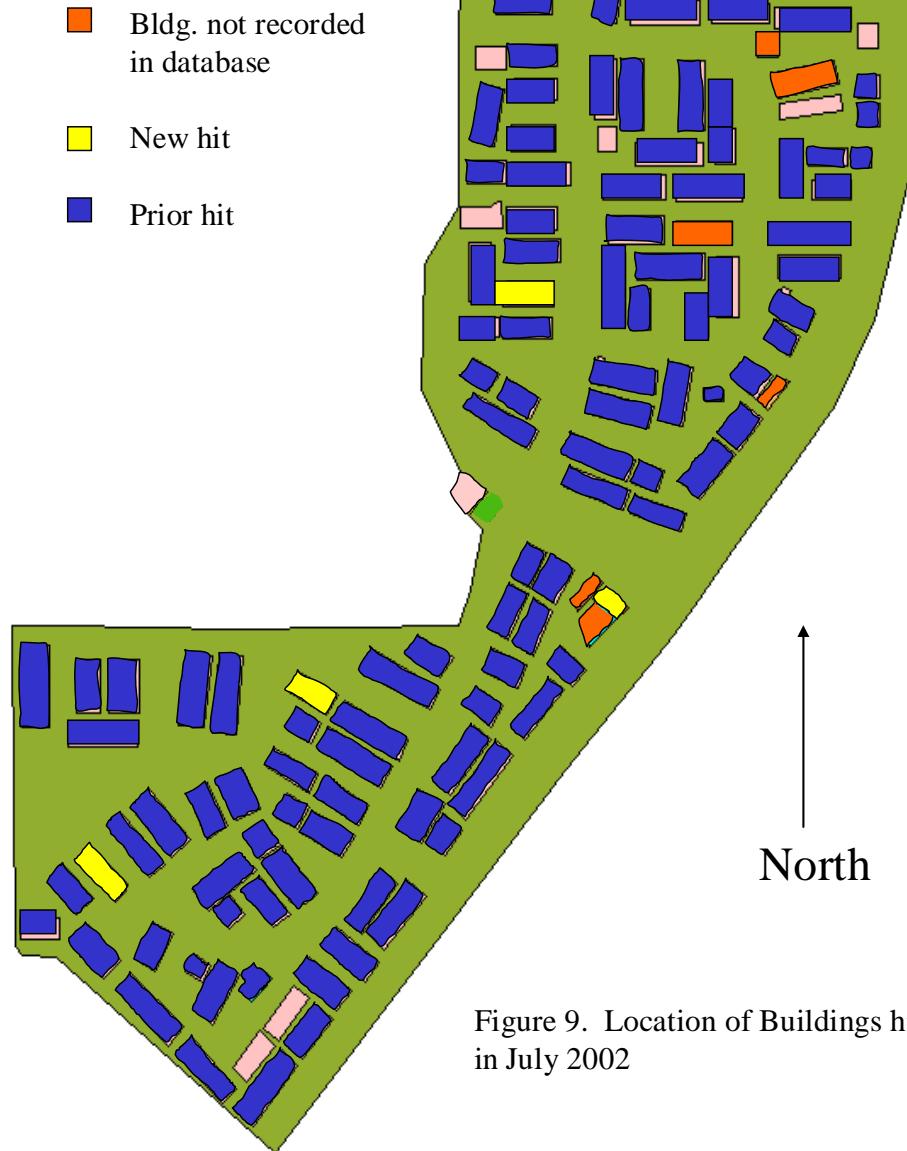


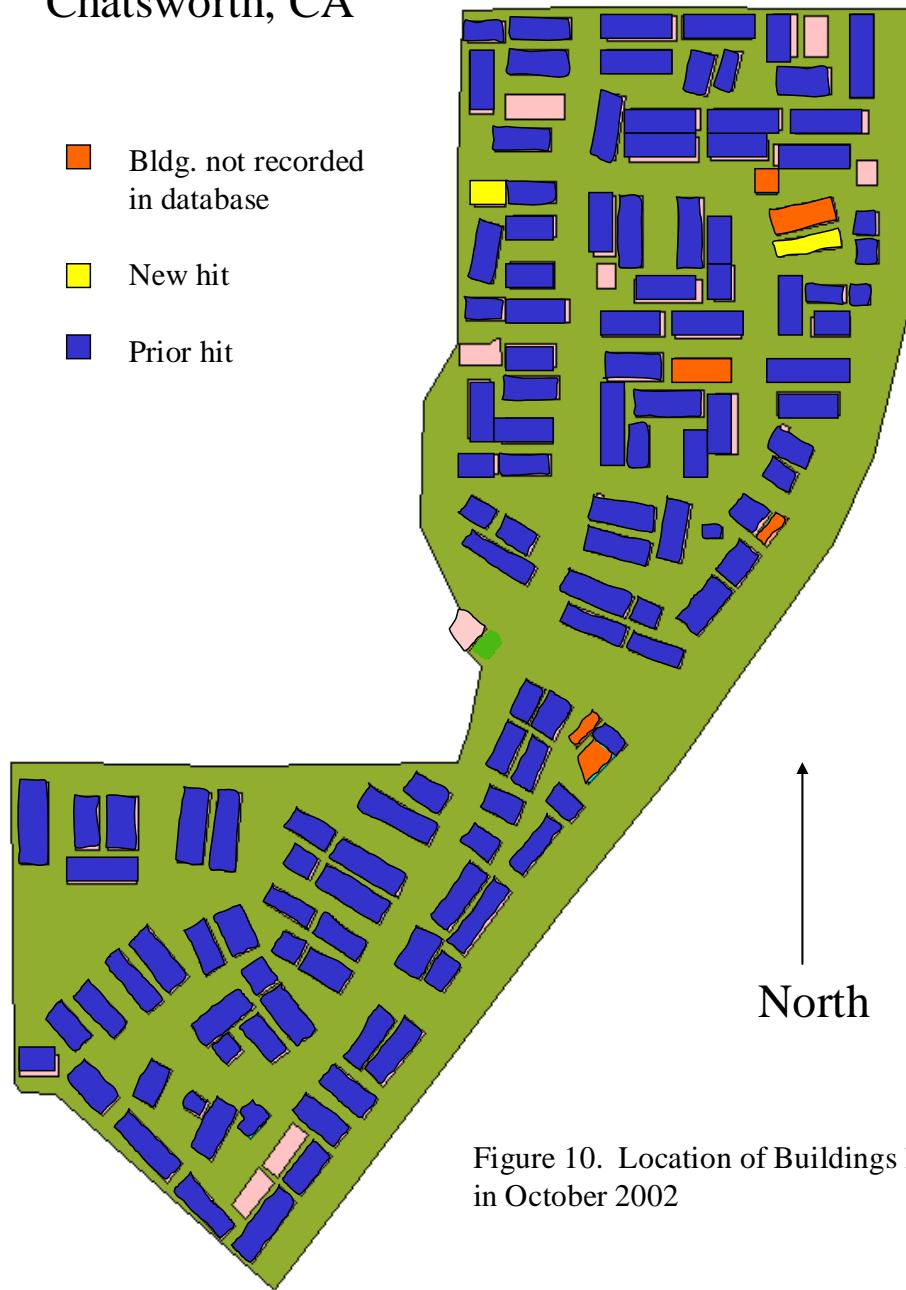
Figure 8. Location of Buildings hit in June 2002

RockPointe Condominium Complex Chatsworth, CA



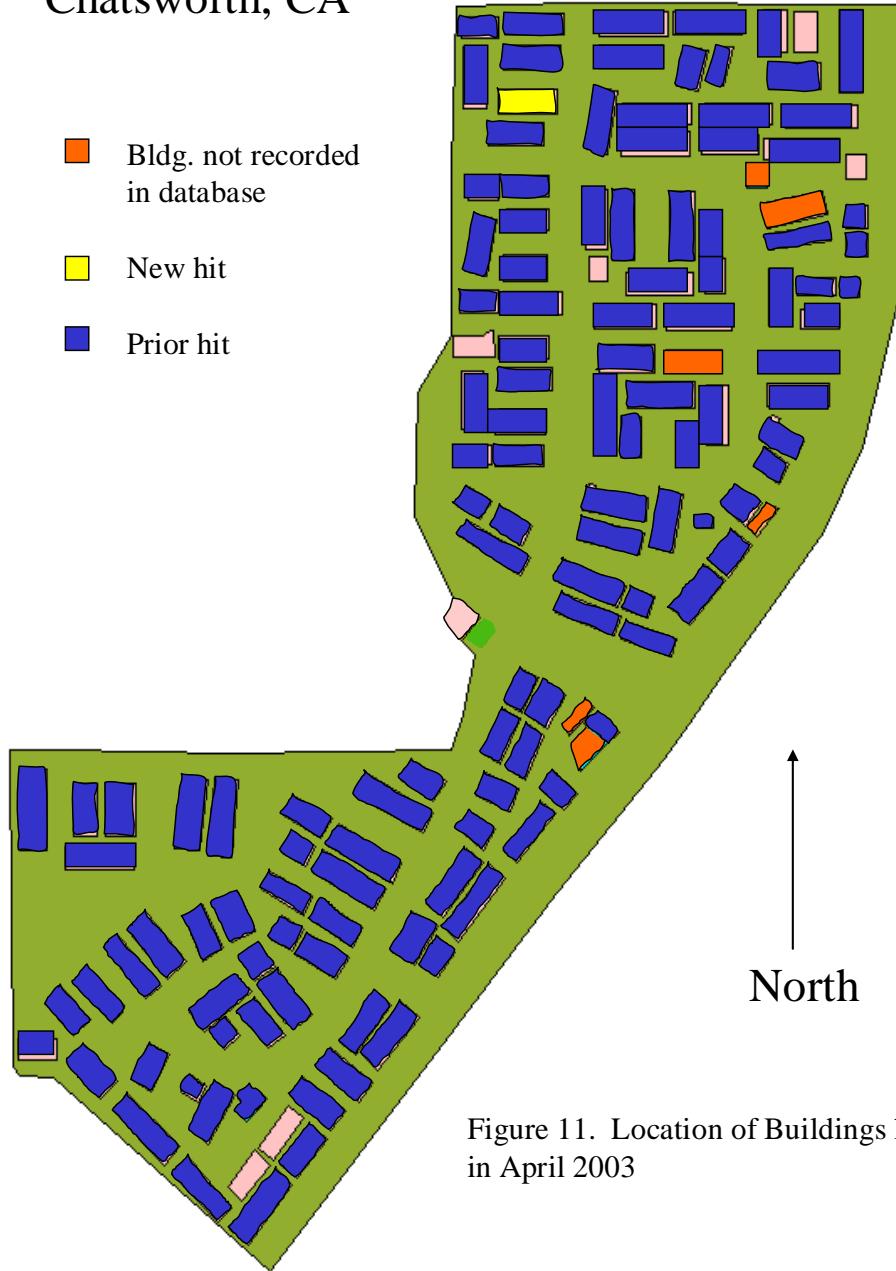
RockPointe Condominium Complex Chatsworth, CA

- Bldg. not recorded
in database
- New hit
- Prior hit



RockPointe Condominium Complex Chatsworth, CA

- Bldg. not recorded
in database
- New hit
- Prior hit



RockPointe Condominium Complex Chatsworth, CA

■ Bldg. not recorded in database

■ New hit

■ Prior hit

Building recorded as hit but
no hit date recorded

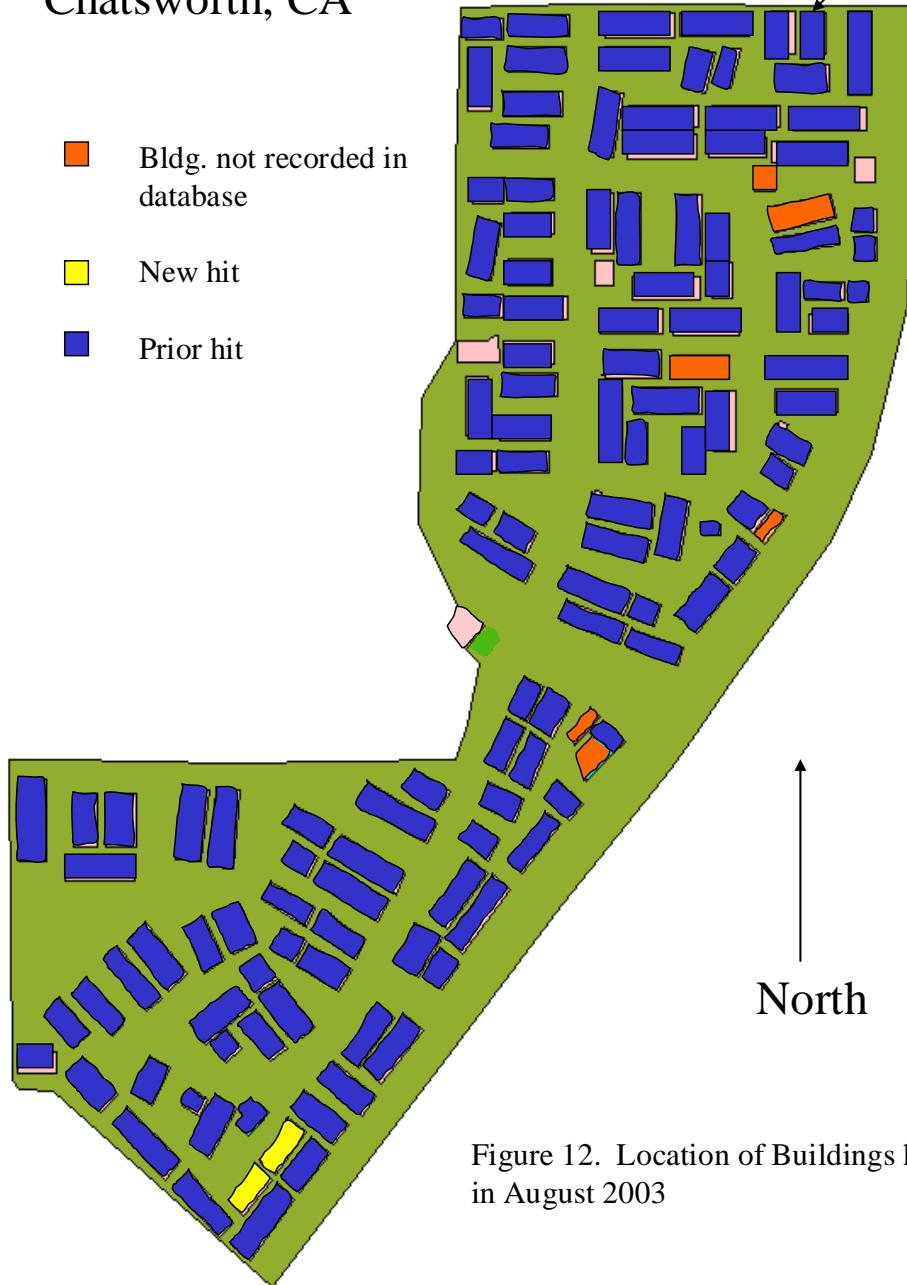
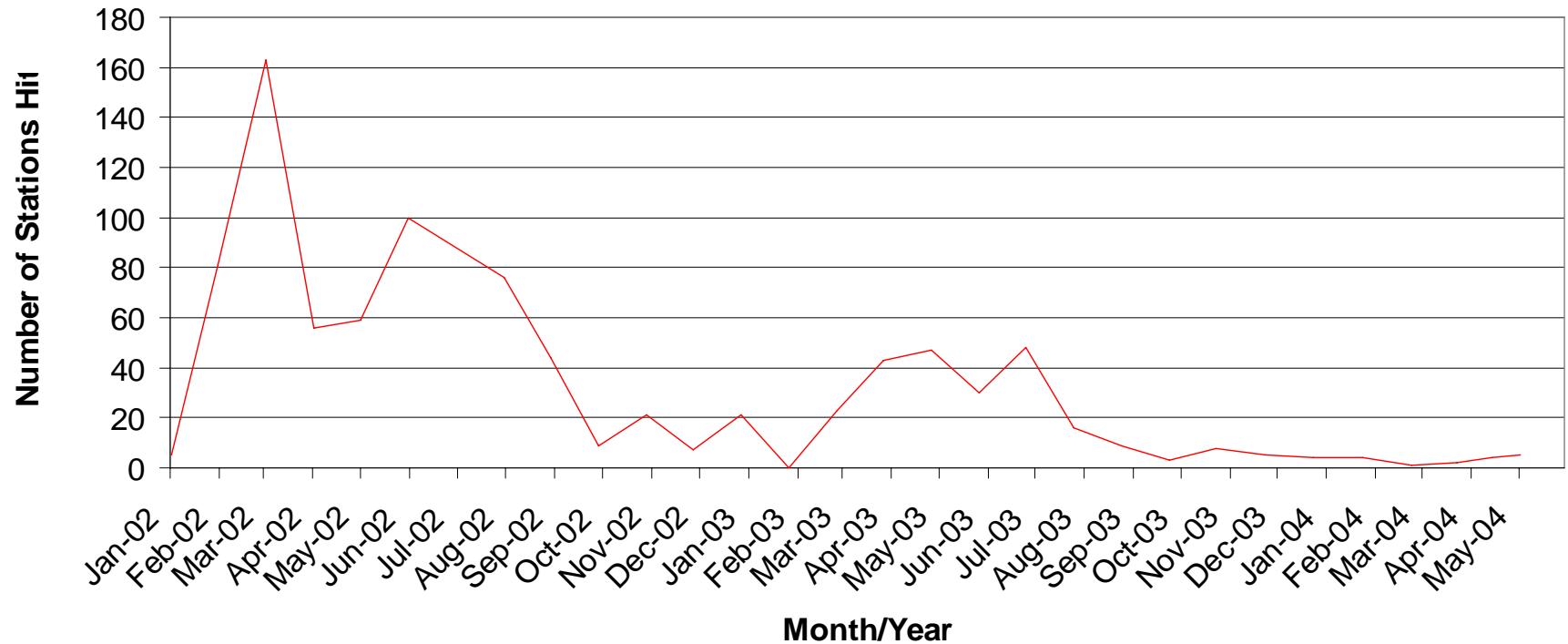


Figure 12. Location of Buildings hit
in August 2003

RockPointe-New Hits/Month



Auxillaries

- As of May 2004
- 888 Primary Stations active for a 12% rate
- 54 of 423 auxillary stations active for a 13% rate

Homeowner Termite Complaints

- Before Baiting
 - Average of 15-20 complaints per month
- Post Baiting
 - Complaints mid 2003 only 5-7 calls per month
 - Current calls average less than 1 per month
 - Alate flights are down considerably to date

Thank you

- Questions can be directed to
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