

Internet Crime Mapping: From Conception to Release and Beyond

THE 9th CRIME MAPPING RESEARCH CONFERENCE

March 28-31, 2007
Pittsburgh, PA

Workshop Topics

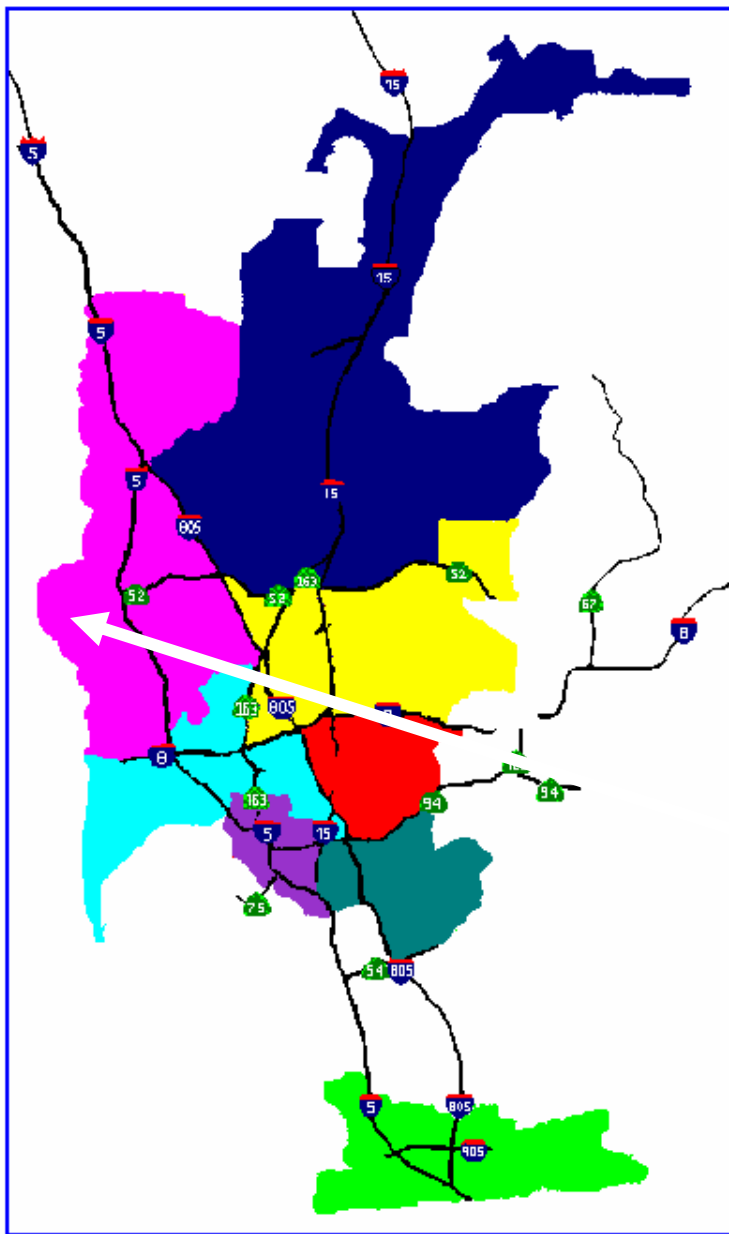
- ▶ Implementation of an Internet crime mapping application (Crime MAPS)
- ▶ Advantages and Challenges of public Internet crime mapping
- ▶ Differences between public and LE only
- ▶ Resources

How many people here...

- Have crime maps on their agency web pages? Static? Interactive?
- How many put crime information on their pages?
- Who is currently planning/discussing the implementation of a crime mapping web site?

Crime Mapping on the Web Evolution

- ▶ Late 1995/early 1996, 1st sites
- ▶ Technology changes
 - Big advancement
- ▶ Policing and Public changes
 - Little advancement
- ▶ Today... about 115 sites around the world



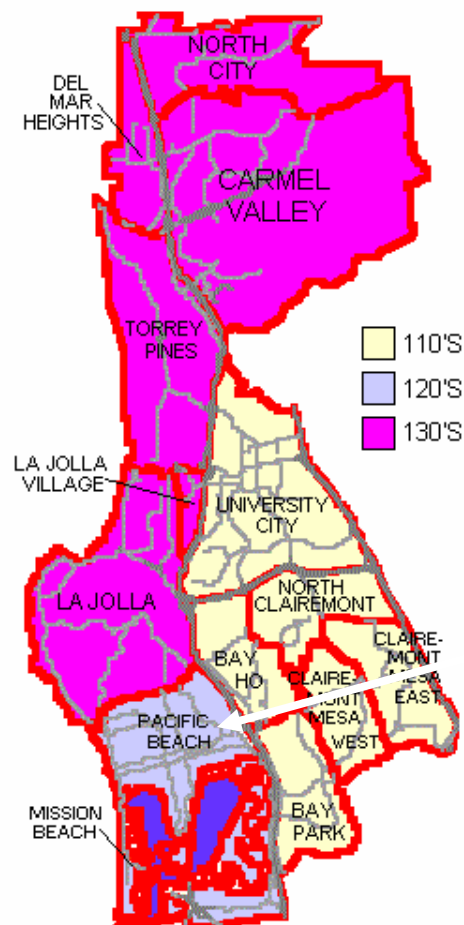
- [Northern](#)
- [Northeastern](#)
- [Eastern](#)
- [Southeastern](#)
- [Central](#)
- [Western](#)
- [Southern](#)
- [Mid-City](#)

*San Diego PD's
8 Divisions and
major freeways*

I think I live somewhere
around here.

Let's click on the fuchsia
division to get a closer look...

NORTHERN DIVISION



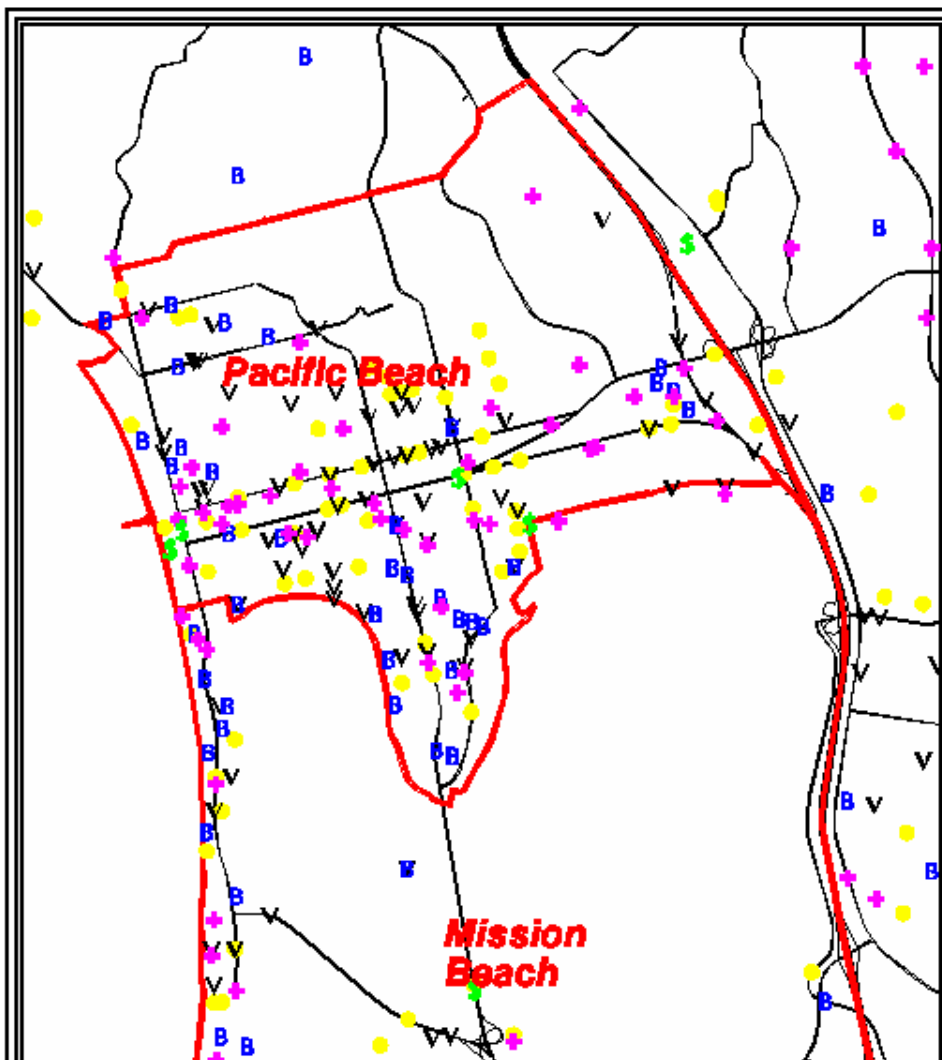
Pacific Beach, that's it,
that's the name of my
neighborhood...

*Click on the appropriate
shaded area.*

If you are unable to use the links on the maps, Service Area
Crime Maps for Northern Division are available through the
following links [110](#), [120](#), and [130](#).

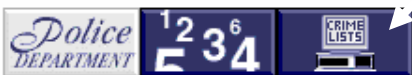
Beaches Service Area

Selected Crimes - October 1998



- M** MURDER
- R** RAPE
- \$** ROBBERY
- +** ASSAULT
- B** BURGLARY
- V** AUTO THEFT
- CAR PROWL

Let's see some specifics by clicking on the Crime List icon.



Holy smokes, I didn't know Better yet, I think I'll mobilize my neighbors and do some problem solving! 😊😊

COMMERCIAL ROBBERY - Pacific Beach

Date Range	Time	Location
10/10/1998-10/11/1998	2358-0020	1800 GRAND AV
10/31/1998-10/31/1998	1150-1150	4400 MISSION BL

STREET/RESIDENTIAL ROBBERY - Pacific Beach

Date Range	Time	Location
10/15/1998-10/15/1998	0040-0050	2100 PACIFIC BEACH DR
10/22/1998-10/22/1998	0120-0120	700 GRAND AV

COMMERCIAL BURGLARY - Pacific Beach

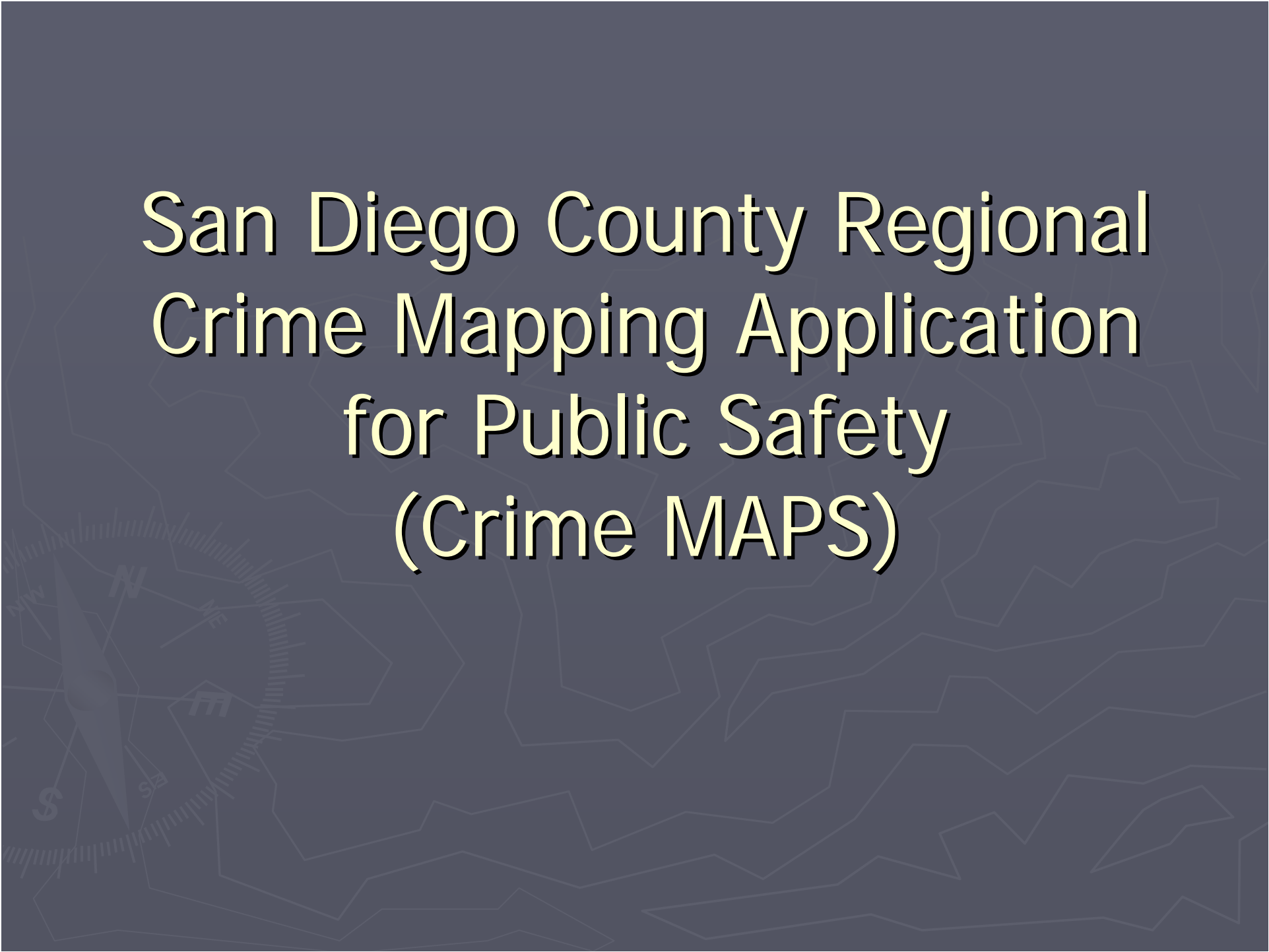
Date Range	Time	Location
10/06/1998-10/06/1998	0238-0238	900 TURQUOISE ST
10/09/1998-10/09/1998	0213-0215	3400 INGRAHAM ST
10/11/1998-10/11/1998	1645-1645	4200 INGRAHAM ST
10/06/1998-10/14/1998	1100-1000	600 CHALCEDONY ST
10/28/1998-10/28/1998	0130-0130	2700 GARNET AV

RESIDENTIAL BURGLARY - Pacific Beach

Date Range	Time	Location
10/01/1998-10/01/1998	1400-1630	800 DIAMOND ST
10/05/1998-10/05/1998	0900-1900	4000 INGRAHAM ST
10/06/1998-10/06/1998	1230-1515	3800 SHASTA ST
10/05/1998-10/06/1998	1900-0730	1400 GRAHAM ST
10/07/1998-10/07/1998	0630-1900	4600 LAMONT ST



Who is doing Crime Mapping on the web?

The background is a dark blue-grey color with a faint, light-colored graphic. On the left side, there is a compass rose with a needle pointing towards the top-left. The cardinal directions are labeled with 'N' for North, 'E' for East, 'S' for South, and 'W' for West. To the right of the compass rose, there is a faint outline of a map, possibly representing the state of California, with various irregular shapes representing counties or regions.

San Diego County Regional Crime Mapping Application for Public Safety (Crime MAPS)

Life before Crime MAPS...

- ▶ San Diego Police Department web site
 - 1996, static maps updated monthly, city only
- ▶ ARJIS Interactive Mapping Application (IMA)
 - 1999, Countywide multi-jurisdictional – public only
 - 2001, Independent evaluation - public input
 - 2002, Enhancements and IMA2 requirements

San Diego County Regional Crime MAPS Objectives

- ▶ Web-based, user-friendly (two sites: public and law enforcement only)
- ▶ Search:
 - For crimes, arrests, field interviews (fi's), probation conditions, outstanding warrants
 - By address, beat/neighborhood, school, park, landmark
 - By date, day of week and time ranges
- ▶ Data:
 - 2 years for law enforcement
 - 1 year for public

Public Site Enhancements

▶ Data

- Additional crime types
- Extended date parameters

▶ Enhanced functionality

- Easier to use – more intuitive
- Better symbols
- Crime and arrest comparison on the same map
- More customizable
- Printed Reports with legends

Application Implementation Steps

- ▶ Assessing Needs
- ▶ Writing Requirements
- ▶ Reviewing What Exists
 - Technology
 - Applications of other jurisdictions
- ▶ Picking a Vendor
 - Issuing an RFP/RFI/RFQ (or sole source if you're lucky)
 - Evaluating the Responses

Application Development

- ▶ Committees – User, Technical, Policy
- ▶ Technical
 - Data, Data, Data
 - Size, Shape and Stability
- ▶ User
 - From colors to crime groups
 - From symbology to site structure
 - From queries to questions (FAQs)
- ▶ Testing... Modifying... Testing

So... what does it look like
and how does it work???

<http://mapping.arjis.org>



ARJIS

Automated Regional Justice
Information Systems

Crime MAPS

Mapping Application
for Public Safety



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To proceed through this site, you must acknowledge that you have read this disclaimer and that you understand that the information is being provided for informational purposes only.

Accept

Decline



ARJIS

Automated Regional Justice
Information Systems

[Go To
Mapping](#)

Crime MAPS

Mapping Application
for Public Safety



About San Diego County Regional Crime MAPS

This page provides background information about this website and should be read by all first-time users. This is the initial version (1.0.13) of Crime MAPS and was released to the public on July 17th, 2006. Please check back frequently as changes and additions to the site will continually be released. If you have already read this, you can go directly to the first screen by clicking the "Go To Mapping Application" at the bottom of this page.

The following topics are covered on this page:

- Origin of the Crime MAPS incident data
- Location options
- Types of incidents available for mapping
- Time periods of the incident data
- Incident attributes
- Incident locations on the map
- Comparison with incident descriptions in the media
- Comparison with published law enforcement agency data
- Different results on different days
- School and shopping center data
- Help file
- Contact information

Origin of Crime MAPS incident data

The primary local law enforcement agencies in San Diego County take reports for all crime cases, arrests, citations and some traffic collisions. The reports are entered into the Automated Regional Justice Information System (ARJIS), which provides the incident data for Crime MAPS. Agencies that provide data to ARJIS include the San Diego County Sheriff, all city police departments in San Diego County, the San Diego Harbor Police, the

Regional Crime MAPS



**San Diego
County**

[About Crime MAPS](#)



Location

Select a Location

[Prev](#)

[Next](#)

[Selection Summary](#)

[Help](#)

Where do you want to look for incidents? This screen allows you to choose the jurisdiction (unincorporated area in the county, city, neighborhood or political district) and location of interest. The location can be a school, hospital, ZIP code, neighborhood, tourist attraction, major shopping center, address, or intersection.

[Show Map of Jurisdictions](#)



Incidents



Time Period



JURISDICTION

- Political Districts
- Carlsbad
- Chula Vista
- Coronado
- County Unincorporated
- Del Mar
- El Cajon
- Encinitas
- Escondido
- Imperial Beach
- La Mesa
- Lemon Grove
- National City
- Oceanside
- Poway
- San Diego
- San Marcos
- Santee

Done

Regional Crime MAPS

**San Diego
County**

[About Crime MAPS](#)



Location



Incidents



Time Period



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[Selection Summary](#)

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- San Diego
- San Marcos
- Santee

ESCONDIDO

- Schools
- Hospitals
- ZIP Codes
- Tourist Attractions
- Major Shopping Centers
- Address
- Intersection

Select a location type from the list above. Based on your choice, you will be presented with a list of specific locations to choose from or input boxes for entering address information.

Some location types allow the selection of a radius around the selected location that will generate a shaded area on the results map. When this option is available, a list

Done



Location



Incidents



Time Period



Map

Select a Location

Prev

Next

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SCHOOLS

- Classical Academy
- Coastal Academy
- Conway
- Del Dios
- Escondido Adult
- Escondido Adventist
- Escondido Apostolic
- Escondido Charter
- Escondido High**
- Felicita
- Glen View
- Grace Lutheran

Select up to 3 Schools. Multiple Schools can be selected by holding the control or shift key while clicking a name.

Radius for shaded area around the selected location:

- 1/4 mile
- 500 feet
- 1000 feet
- 1/4 mile
- 1/2 mile
- 1 mile



Location



Incidents



Time Period



Map

Select the Incidents

Prev

Next

Selection Summary

Help

What type of information are you interested in? This screen allows you to select the type of incident by clicking the incident name or the box next to the incident name. To select or deselect all the incident types in a category, click the folder next to the category name.

INCIDENT TYPES

MAP SYMBOLS AND INCIDENT DEFINITIONS

- Crimes
 - Aggravated Assault (non-DV)
 - Arson
 - Commercial Burglary
 - Homicide
 - Malicious Mischief/Vandalism
 - Rape
 - Residential Burglary
 - Robbery
 - Sex Crimes (Other)
 - Simple Assault (non-DV)
 - Theft
 - Vehicle Break-in
 - Vehicle Theft
- Arrests and Citations
 - Curfew Violation
 - Deadly Weapons
 - Drunk in Public
 - Narcotics

Crimes

- Aggravated Assault (non-DV):* Attack on a person to commit severe/aggravated injury, usually involves a weapon. Does not include Domestic Violence (DV).
- Arson:* Willful, malicious burning of structure, vehicle, or personal property.
- Commercial Burglary:* Unlawful entry of a commercial structure to commit a theft or other felony.
- Homicide:* Unlawful killing of one person by another.
- Malicious Mischief/Vandalism:* Willful, malicious destruction, damage, or defacement of property.
- Rape:* Carnal knowledge of a female forcibly and against her will.
- Residential Burglary:* Unlawful entry of a residential



Location



Incidents



Time Period



Map

Select the Incidents

Prev

Next

Selection Summary

Help








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Location



Incidents



Time Period



Map

Select a Time Period

Prev

Next

Selection Summary

Help

What is the time period of interest? This screen allows you to choose a date range, time range, and the days of the week. Incidents are available for the last 12 months. To select a date, navigate the calendar using Prev/Next or choose a month from the drop down list, then click on a date to select it.

DATE RANGE

Start date: 7/1/2006

<Prev	July	2006	Next>			
Sun	Mon	Tue	Wed	Thu	Fri	Sat
25	26	27	28	29	30	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

End date: 9/30/2006

<Prev	September	2006	Next>			
Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
1	2	3	4	5	6	7

TIME RANGE AND DAYS OF WEEK

From time: 12 : 00 AM

To time: 11 : 59 PM

Select or deselect a day of the week by clicking the box next to its description

- Days:
- Monday
 - Tuesday
 - Wednesday
 - Thursday
 - Friday
 - Saturday
 - Sunday

Predefined days:

- All Days
- Weekdays
- Weekends
- Clear Selected

Current date range: 92 days

Current time range: 24 hours

About Crime MAPS



Location



Incidents

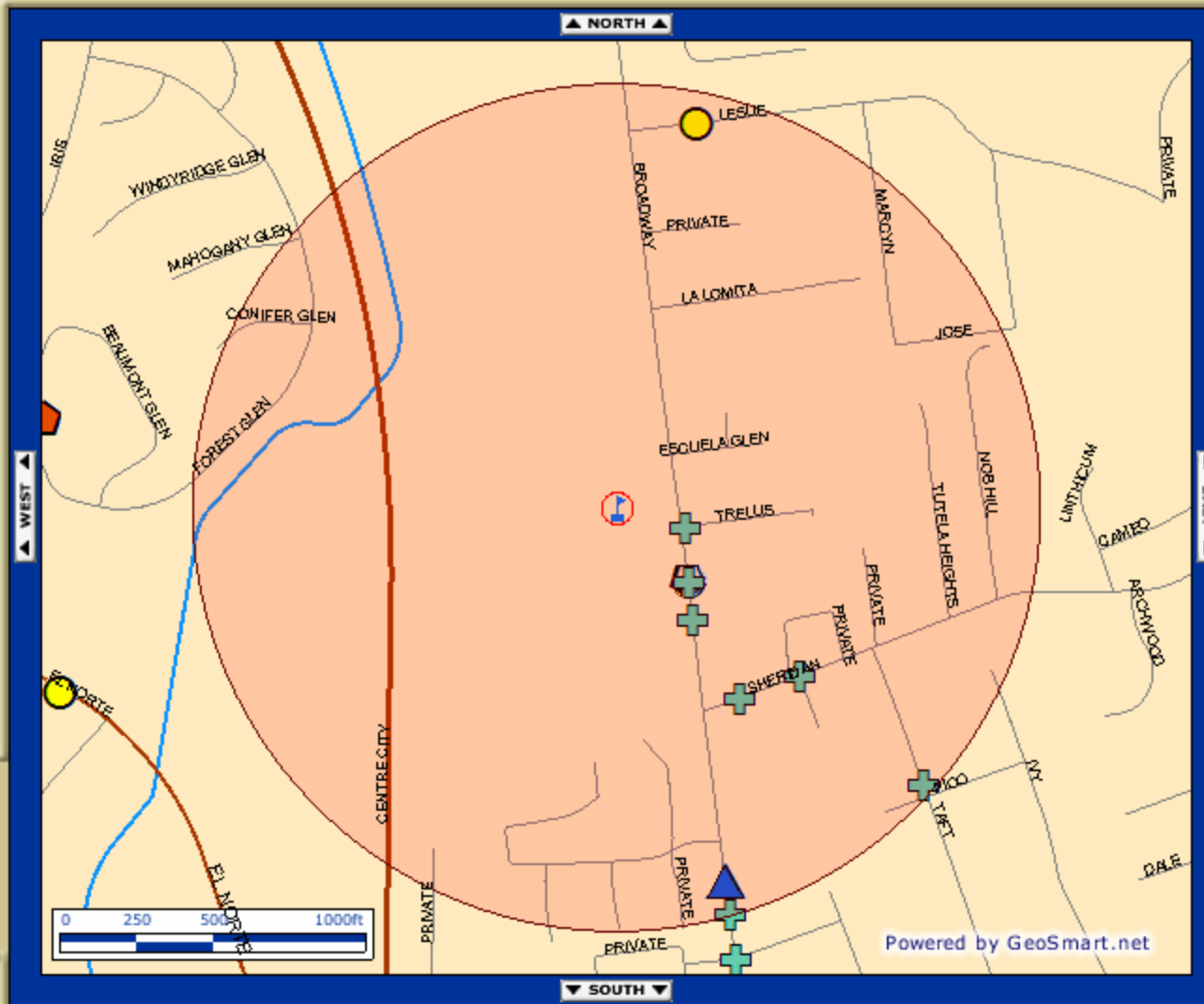


Time Period



Map

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Current Tool: Zoom In By Envelope

x=6305750.87, y=1996418.03

Navigation

- Zoom In
- Zoom Out
- Pan
- Previous
- Initial Map

Information

- Identify
- Totals
- Create PDF
- Report
- Summary
- Help

Windows

- County Map
- Legend



Location



Incidents



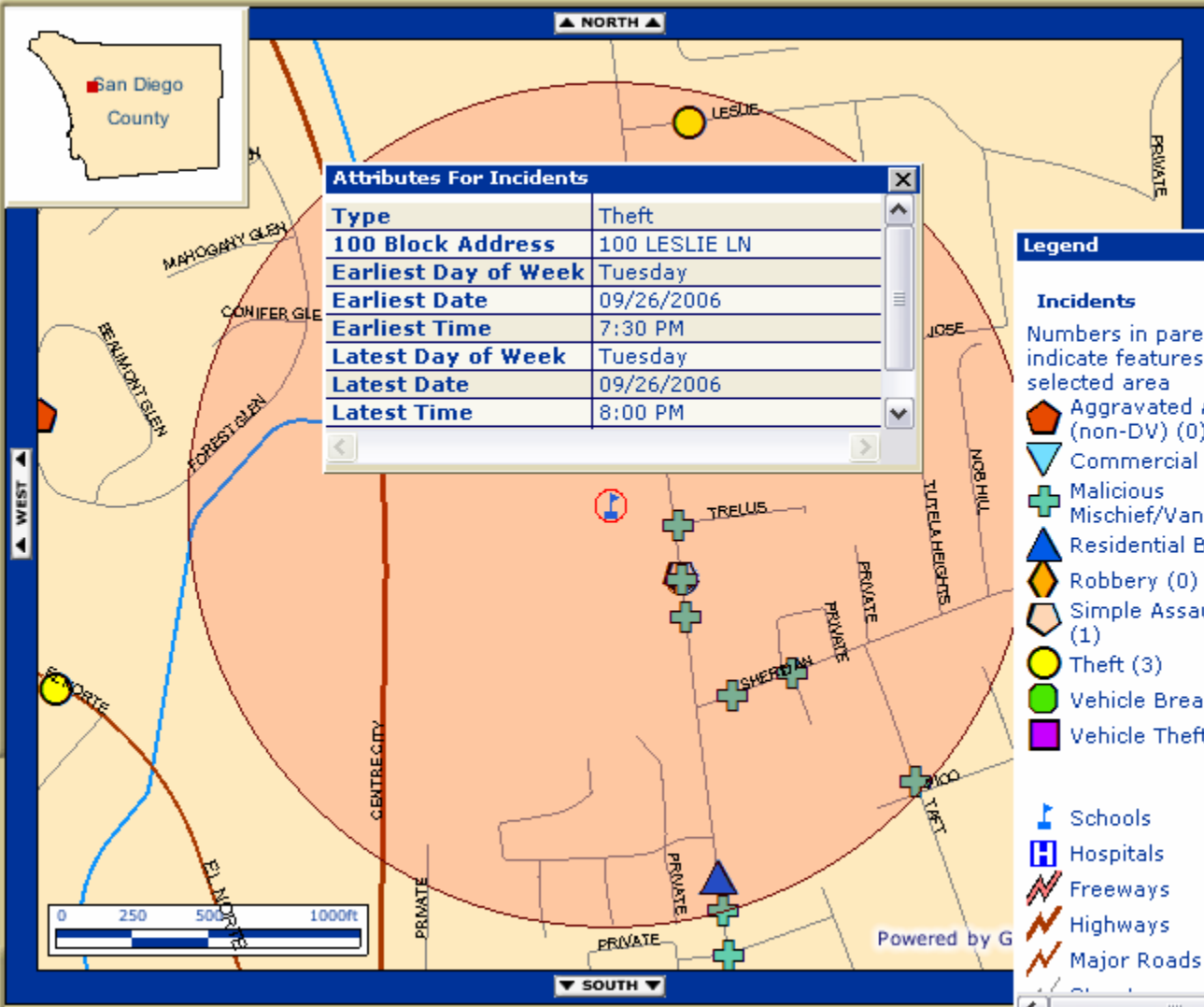
Time Period



Map



San Diego County



Attributes For Incidents	
Type	Theft
100 Block Address	100 LESLIE LN
Earliest Day of Week	Tuesday
Earliest Date	09/26/2006
Earliest Time	7:30 PM
Latest Day of Week	Tuesday
Latest Date	09/26/2006
Latest Time	8:00 PM

Navigation

- Zoom In
- Zoom Out
- Pan
- Previous

Legend

- Incidents**
Numbers in parentheses indicate features inside the selected area
- Aggravated Assault (non-DV) (0)
 - Commercial Burglary (0)
 - Malicious Mischief/Vandalism (8)
 - Residential Burglary (1)
 - Robbery (0)
 - Simple Assault (non-DV) (1)
 - Theft (3)
 - Vehicle Break-in (2)
 - Vehicle Theft (0)
- Schools
 - Hospitals
 - Freeways
 - Highways
 - Major Roads



Powered by G

Current Tool: Identify All

1/2 mile around Escondido HS

July - Sept 2006



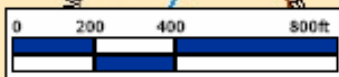
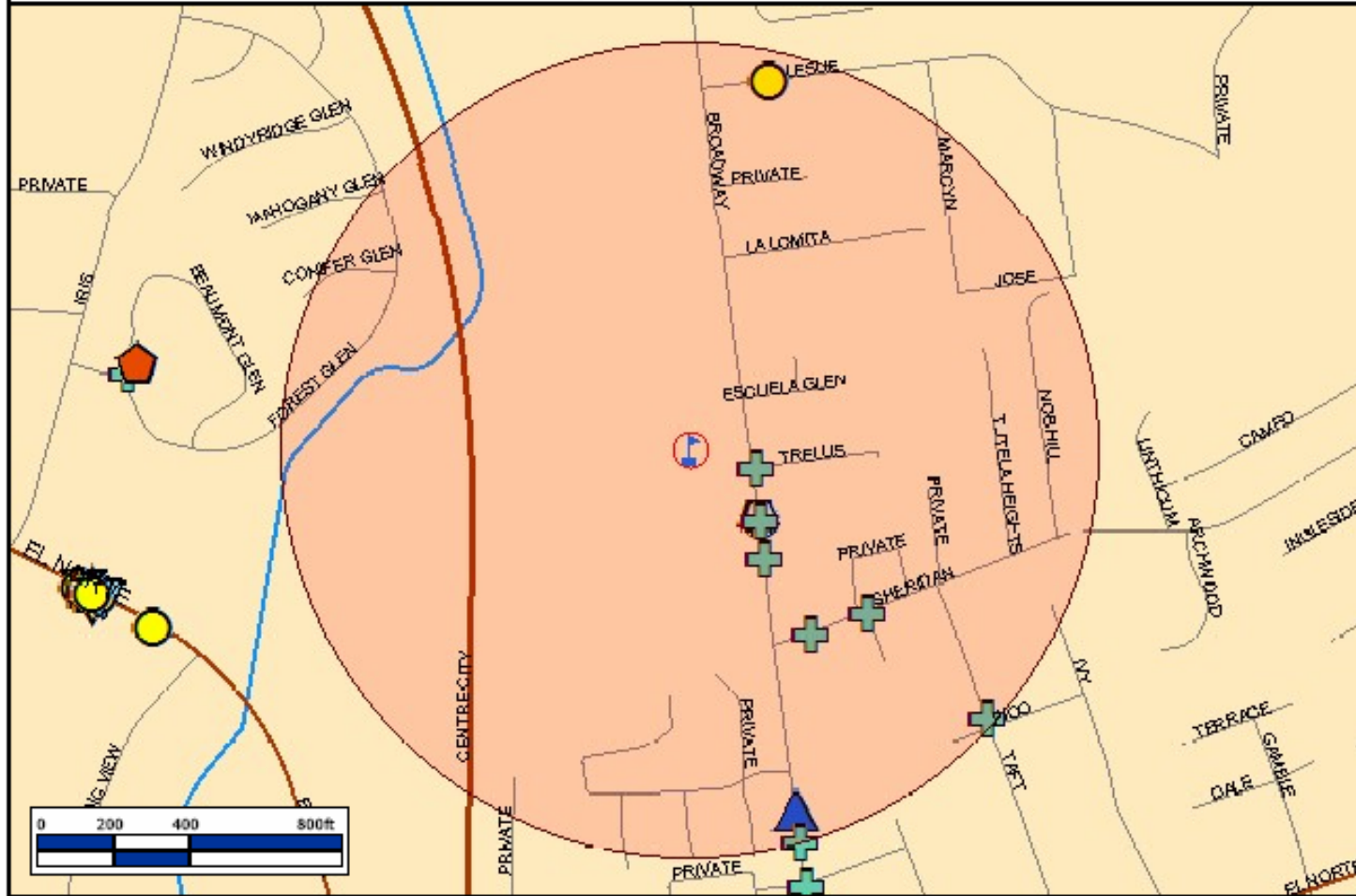
ARJIS
Advanced Regional Justice
Information System



Legend

Incidents

- Aggravated Assault (non-DV)
- Commercial Burglary
- Maltreat/Mischief/Vandalism
- Residential Burglary
- Robbery
- Simple Assault (non-DV)
- Theft
- Vehicle Break-in
- Vehicle Theft
- Schools
- Hospitals
- Freeways
- Highways
- Major Roads
- Streets
- Railroads
- Water
- Parks



Printed: 11/14/2006 7:30:08 PM

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WARNING: This map does not meet the national map accuracy standards.

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**San Diego
County
Regional
Grime MAPS**



Crime MAPS Incident Report



[Sort Options](#)

[Print Report](#)

[Close Window](#)

Sorted By: Date ascending, Time ascending

#	Incident	100 Block Address	Day	Date	Time
1	Malicious Mischief/Vandalism	1400 TAFT AV	Tuesday	07/25/2006	4:50 PM
2	Malicious Mischief/Vandalism	100 SHERIDAN AV	Sunday	07/30/2006	9:00 PM
3	Residential Burglary	1400 N BROADWAY	Saturday	08/12/2006	09:00 AM
4	Malicious Mischief/Vandalism	200 SHERIDAN AV	Sunday	08/13/2006	3:00 PM
5	Malicious Mischief/Vandalism	1400 N BROADWAY	Sunday	08/13/2006	3:40 PM
6	Theft	1500 N BROADWAY	Friday	08/25/2006	11:00 AM
7	Malicious Mischief/Vandalism	1500 N BROADWAY	Saturday	08/26/2006	9:49 PM
8	Malicious Mischief/Vandalism	100 TRELIS LN	Sunday	08/27/2006	01:30 AM
9	Vehicle Break-in	1500 N BROADWAY	Tuesday	09/05/2006	4:00 PM
10	Malicious Mischief/Vandalism	1500 N BROADWAY	Tuesday	09/05/2006	4:00 PM
11	Vehicle Break-in	1500 N BROADWAY	Wednesday	09/06/2006	12:40 PM
12	Theft	1500 N BROADWAY	Monday	09/11/2006	2:50 PM
13	Simple Assault (non-DV)	1500 N BROADWAY	Wednesday	09/20/2006	2:20 PM
14	Theft	100 LESLIE LN	Tuesday	09/26/2006	7:30 PM
15	Malicious Mischief/Vandalism	1500 N BROADWAY	Wednesday	09/27/2006	10:30 AM

***Note: Day, Date and Time represent the earliest recorded values for each incident.

Report Parameters

Location: Escondido - Schools: Escondido High, Shaded radius: 1/4 mile

Incidents: Aggravated Assault (non-DV), Arson, Commercial Burglary, Homicide, Malicious Mischief/Vandalism, Rape, Residential Burglary, Robbery, Sex Crimes (Other), Simple Assault (non-DV), Theft, Vehicle Break-in, Vehicle Theft

Time Period: 7/1/2006 - 9/30/2006, 12:00 AM - 11:59 PM, All days of the week

Some Stats

- ▶ 1st 7 months (July 17, 2006 – Feb 20, 2007)
 - 219,011 visitors
 - Average visit duration – just under 12 minutes
 - Most active – Tues, 3pm-4pm
 - Least active – Sat, 3am-4am
 - Repeat visitors
 - ▶ 17% of visitors have visited more than once
 - ▶ .2% have visited more than 9 times
 - Average visitors per day Jul-Aug 2006 – 2,979
 - Average visitors per day Jan-Feb 2007 - 622

Technical Mumbo Jumbo

- ▶ ARJIS mainframe extract
 - Already geocoded
- ▶ Imported into SQL server
 - A bit of data manipulation (hundred block, crime category)
- ▶ ArcIMS and ArcSDE from ESRI
- ▶ GeoSmart from Moosepoint
- ▶ App works in IE, Firefox, Netscape & Safari

**For more detailed technical, let me know and I'll find out for you.*

A Unique, New Crime-related Page

- ▶ Washington Coalition to Reduce Underage Drinking
 - Washington State Dept of Social & Health Services
 - Washington State Liquor Control Board
 - Washington Traffic Safety Commission
- ▶ Alcohol Beverage Control data
- ▶ Looking Glass Analytics
 - Development
 - Evaluation



Washington State Coalition
To Reduce Underage Drinking



[Home](#) | [About This Site](#) | [Tutorial](#) | [Support](#) | [Can't find a licensee?](#) | [Links](#)

USER ID LOGIN

PASSWORD

ENTER



Washington State
Department of Social
& Health Services

Division of Alcohol and Substance Abuse
www1.dshs.wa.gov/dasa



Washington State
Liquor Control Board



Washington Traffic
Safety Commission

LOOKING GLASS
ANALYTICS

Please be aware that you may experience slower performance in our web services today or any day where NCAA basketball tournament games are being streamed live. Worldwide internet performance suffered last year at this time and the potential exists again this year. If you experience difficulty generating a report, please try refreshing the report window or simply re-try the request.

If you have an urgent need for a report and have trouble producing it using the web service, please call Bill Luchansky (360) 570-7532. We apologize for any inconvenience you may experience.

Welcome to www.WArud.net!

www.warud.net is an easy-to-use mapping and data query tool that offers analytic access and geographic display of data related to underage drinking. While there are many factors that influence youth and young adults to drink before they are of legal age, this web site centers on one often cited factor: liquor licensees who sell alcohol to minors.

Additional features of this web site include:

- statewide mapping of liquor licensees by license type and recent liquor law violations
- full history of compliance checks and premise checks conducted by Liquor Control Board enforcement officers at individual establishments
- full history of violations at individual establishments
- measures of community-level density of liquor licenses, and
- other contextual data including local demographics, treatment centers, etc.



Washington State Coalition
To Reduce Underage Drinking



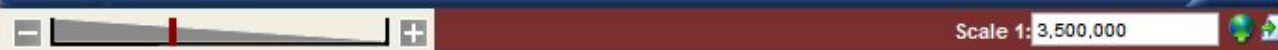
Tools Zoom to your area of interest! Data current through March 9, 2007 X = 1524389 Y = 362339

Navigation

Selection

Zoom to ZIP Code:

ZOOM



Layers

Liquor Licenses

- Liquor Licenses
 - License Type

License Type

 - State Liquor Store
 - On-Site Consumption Only
 - Off-Site Consumption Only
 - On Site and Off Site Consumption
 - Non-Retail
 - Other
 - On-Site Consumption Detail
 - Off-Site Consumption Detail
 - Non-Retail Detail
 - Business Names
- LCB Enforcement Activity**
 - Enforcement Activity
 - Compliance Checks In Past Year

Query/Search

Saved Views

Map Markup

Help



Washington State Coalition
To Reduce Underage Drinking



Powered by
MapOptix™

Tools

Zoom to your area of interest!

Data current through March 9, 2007

X = 1181523 Y = 809308

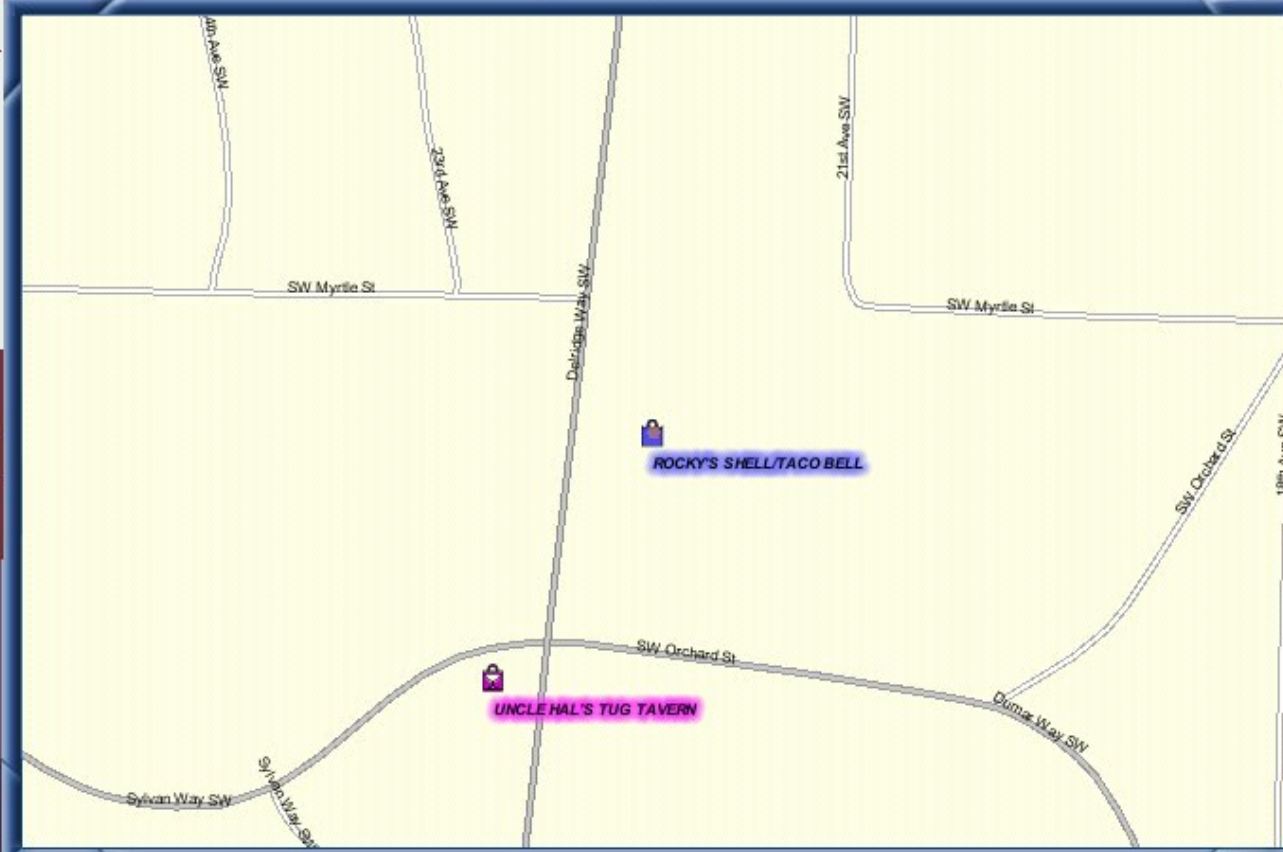
Layers

Navigation

Selection

Zoom to
ZIP Code:

ZOOM



Scale 1:2,801



Liquor Licenses

- Liquor Licenses
 - License Type
 - State Liquor Store
 - On-Site Consumption Only
 - Off-Site Consumption Only
 - On Site and Off Site Consumption
 - Non-Retail
 - Other

- On-Site Consumption Detail
- Off-Site Consumption Detail
- Non-Retail Detail
- Business Names

LCB Enforcement Activity

- Enforcement Activity
- Compliance Checks In Past Year

Query/Search

Saved Views

Map Markup

Help



ROCKY'S SHELL/TACO BELL

7132 DELRIDGE WAY SW
SEATTLE, WA 98106

Liquor License: 072642

Business Id: 6006349300020002

Privileges: GROCERY STORE - BEER/WINE

Check Type	Date	Check Outcome
Premises	Jan 24, 2007	
Premises	Aug 17, 2006	
Premises	Aug 17, 2006	
Compliance	Aug 17, 2006	NO SALE
Premises	Jun 30, 2006	
Premises	Jun 30, 2006	
Premises	Mar 16, 2006	
Compliance	Mar 16, 2006	NO SALE
Premises	Nov 3, 2005	
Premises	Nov 3, 2005	
Premises	Oct 26, 2005	
Compliance	Oct 26, 2005	SALE
SALE/FURNISHING TO PERSON(S) UNDER 21 YOA		
Disposition: Written Warning Issued		

Benefits for the Public

- ▶ Easily accessible crime information
- ▶ Increase knowledge about...
 - Crime trends and patterns in your neighborhood
 - Police activity
- ▶ Get informed for community meetings
- ▶ Quick and free (viewed from any Internet-accessible computer... even a Mac!)

Benefits for Law Enforcement

- ▶ Increase knowledge about...
 - Crime trends and patterns in your neighborhood
 - Who the bad guys are on your beat
 - Problem solving
- ▶ Stay informed for community meetings/enhance community relations
- ▶ Less inquiries from the public
- ▶ Quick (you don't have to wait for your analyst to make maps for you!), easy and accessible from any ARJISNet computer

What are the Issues?

- ▶ Politics
- ▶ Legality
- ▶ Data
- ▶ Cartography

Maximizing the Use of Your Page

▶ Community

- Organized Groups
- Residents/Businesses
- People moving to your City
- Non-LE agencies applying for funding

▶ Law Enforcement

- Your own Department
- Other Agencies

Resources

- ▶ NIJ MAPS web site
(www.ojp.usdoj.gov/nij/maps)
- ▶ Privacy in the Information Age publication
(free from NCJRS – www.ncjrs.gov)
- ▶ List of other public crime mapping web sites
(let me know and I'll email it to you)