



Photo courtesy of Jessica Burch

D.D.A.C.T.S.

Data Driven Approaches to Crime and Traffic Safety

IS

- **A Policing Model**
- **Intelligence-Led Policing**
 - **A Force Multiplier**
 - **Best when used with**
non-traditional resources

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A Policing Model

DDACTS does not replace the concepts of problem-solving policing

As an intelligence-led policing method it builds on these concepts

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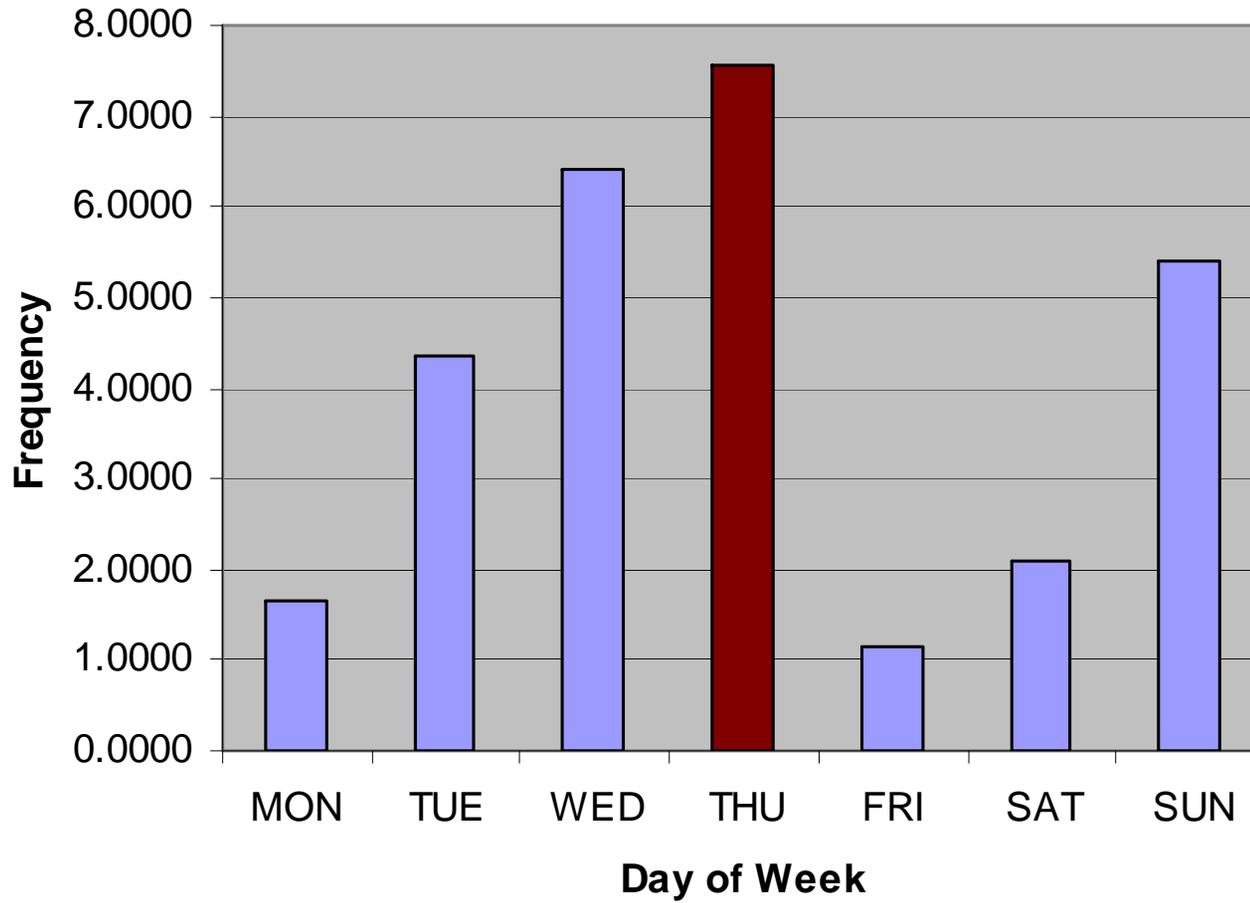
Intelligence Led Policing

Intelligence-Led Policing

Data + Analysis = Intelligence

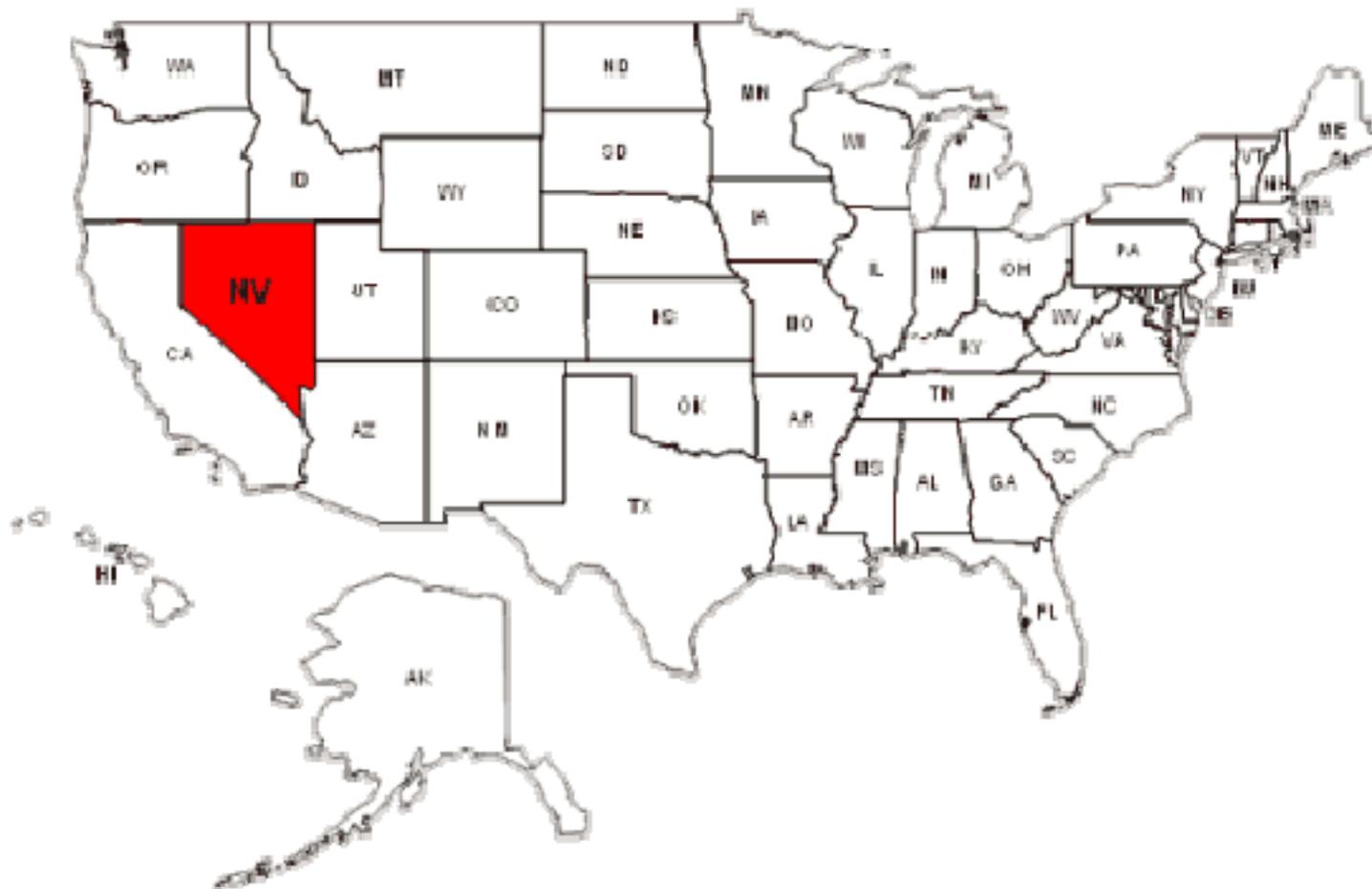
- “Data” refers simply to raw information that that has been collected but has not yet been analyzed.
- **Intelligence** is the product of careful evaluation and analysis of all of the data collected.

**Beat 4 (Spanish Springs)
Property Crimes
Day of Week
AUG 2009**



Intelligence Cycle





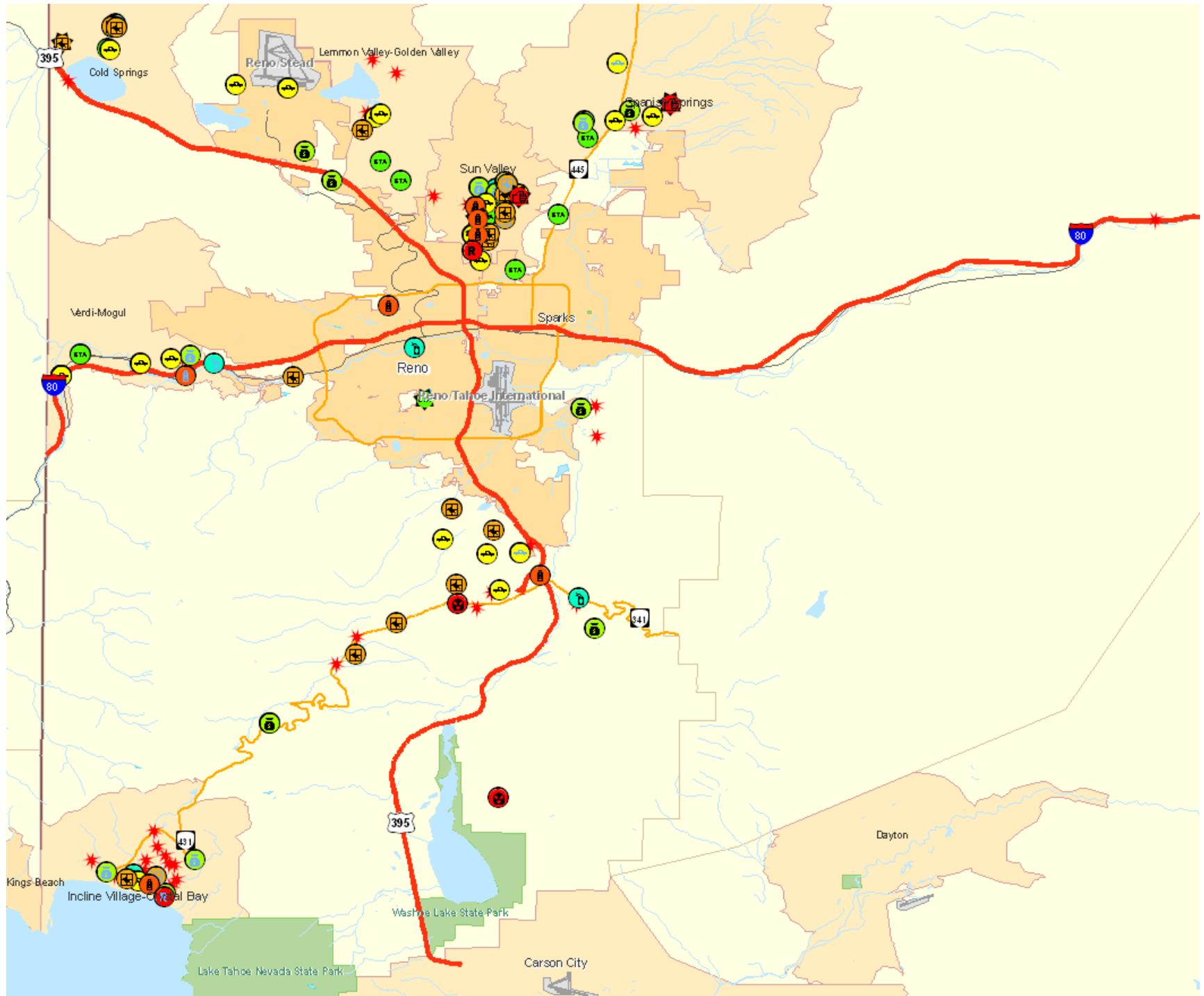


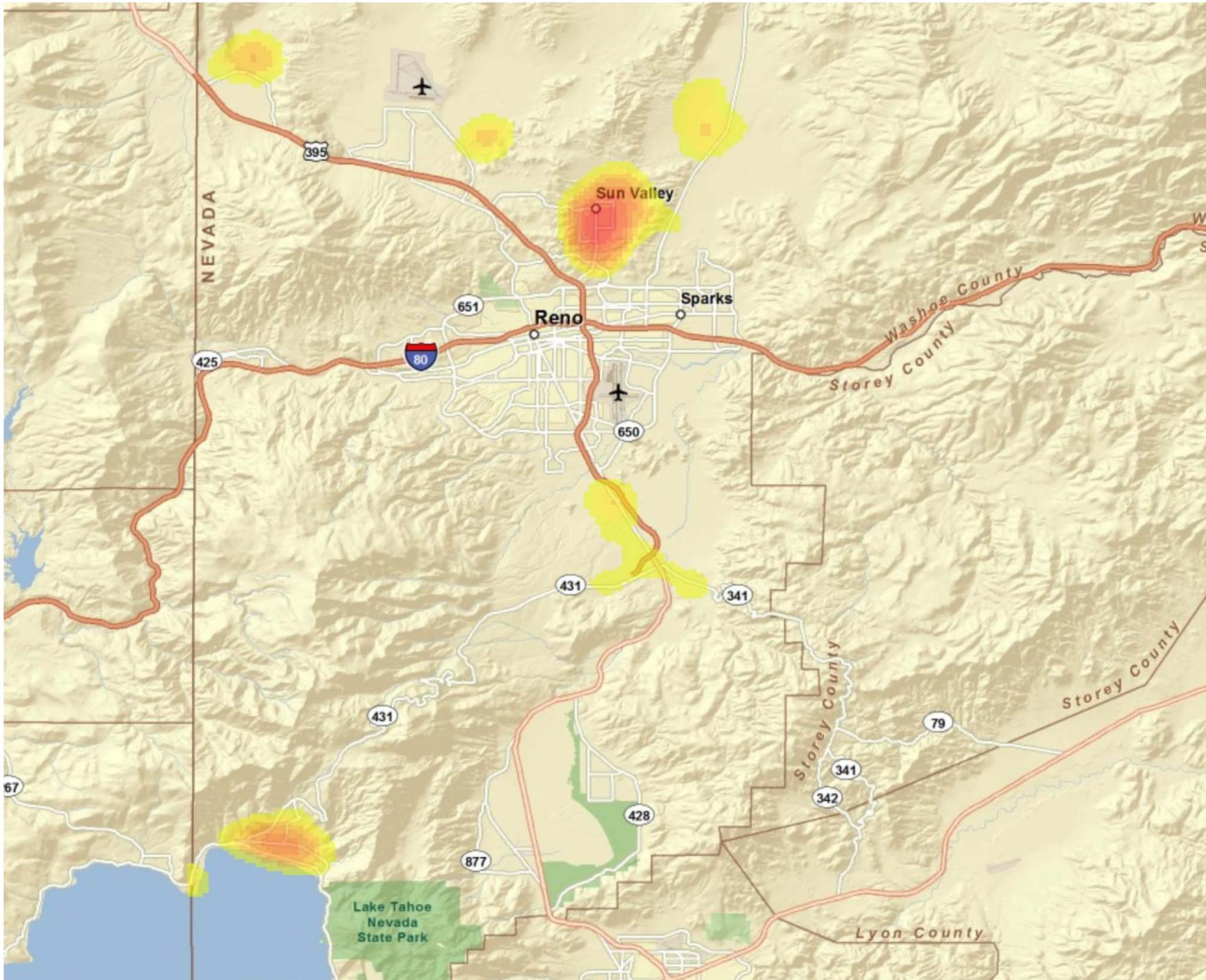
WASHOE

Nevada

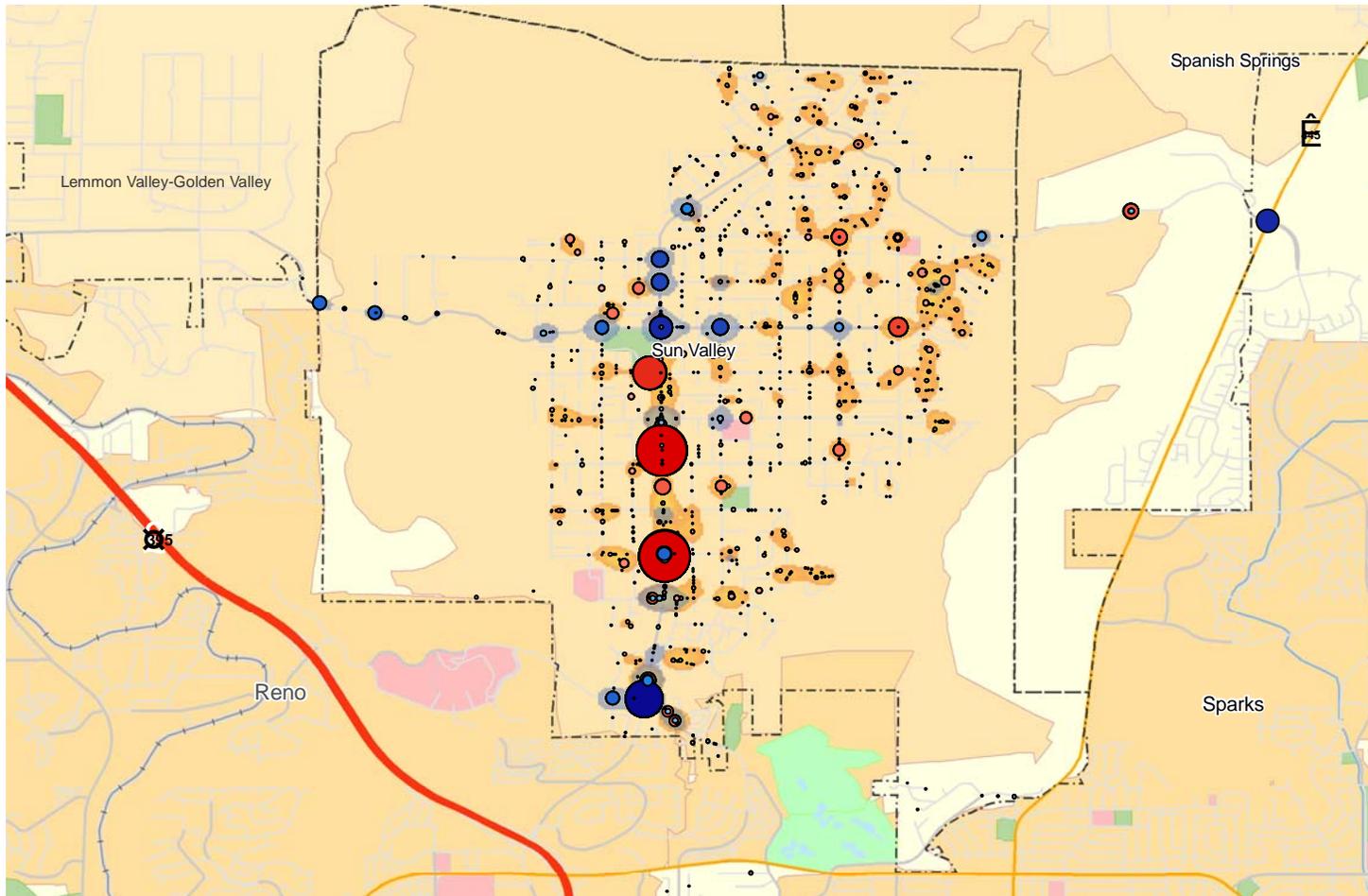
The Agency

- **About 788 positions in the organization**
- **720 filled due to budget**
 - 427 commissioned, 335 non-sworn
 - Operations Bureau has 220 members (155 sworn)
 - Detention Bureau has 407 members (269 sworn)
 - Administrative Bureau has 93 members (25 sworn)

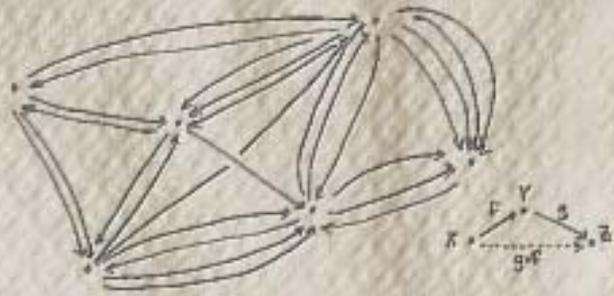




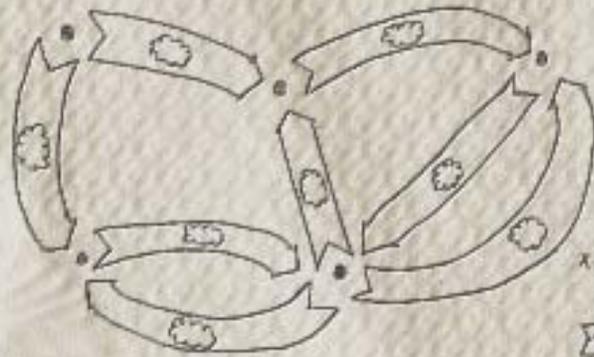
4-Year Hot Spots



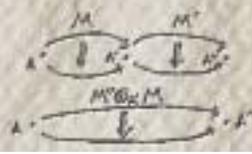
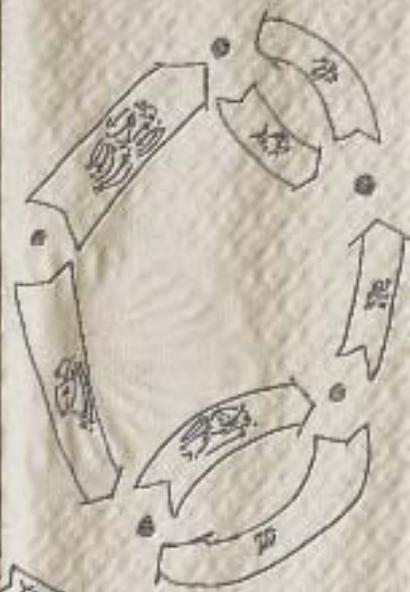
Category



Enriched Category



Bicategory



Non-Traditional Resources

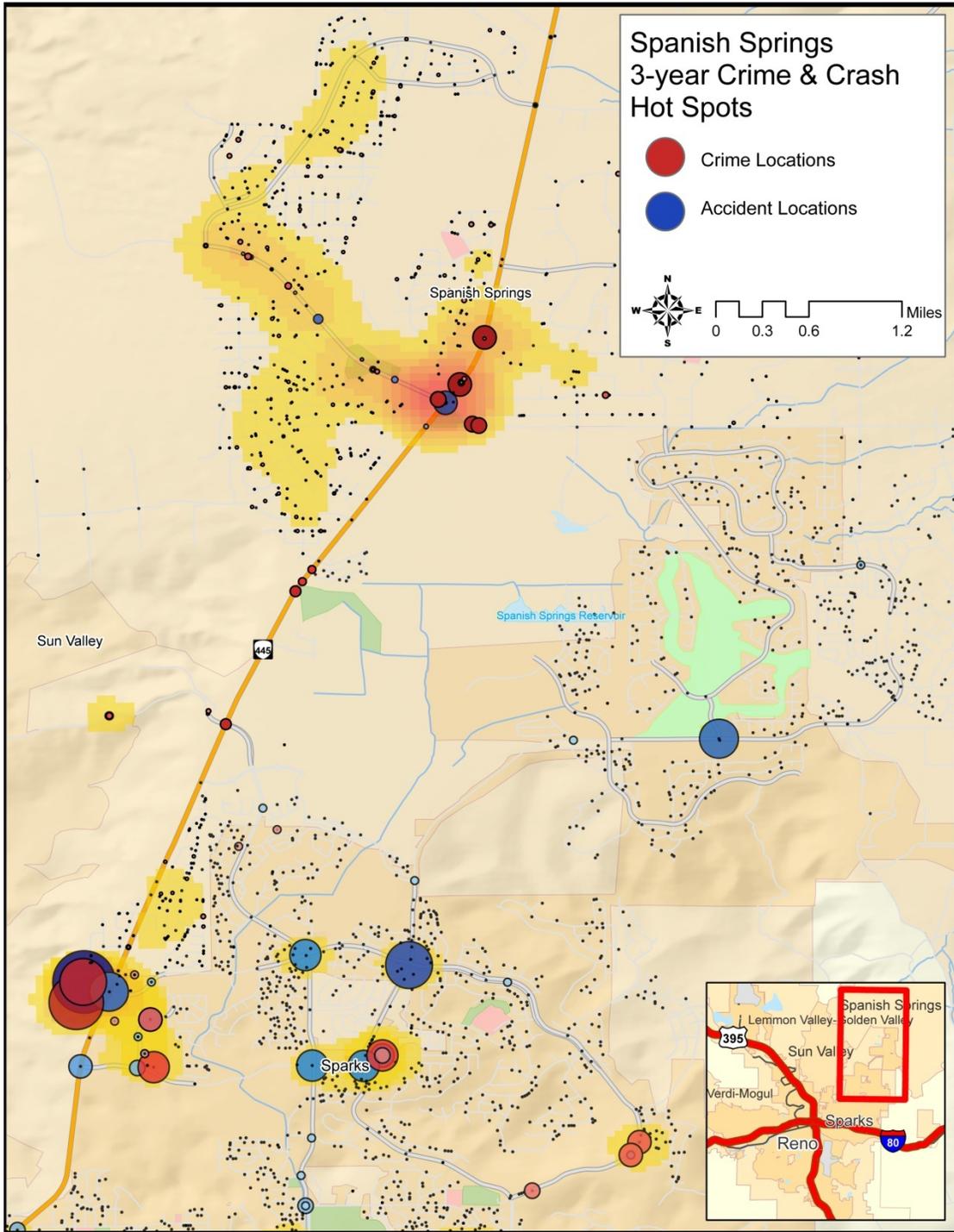


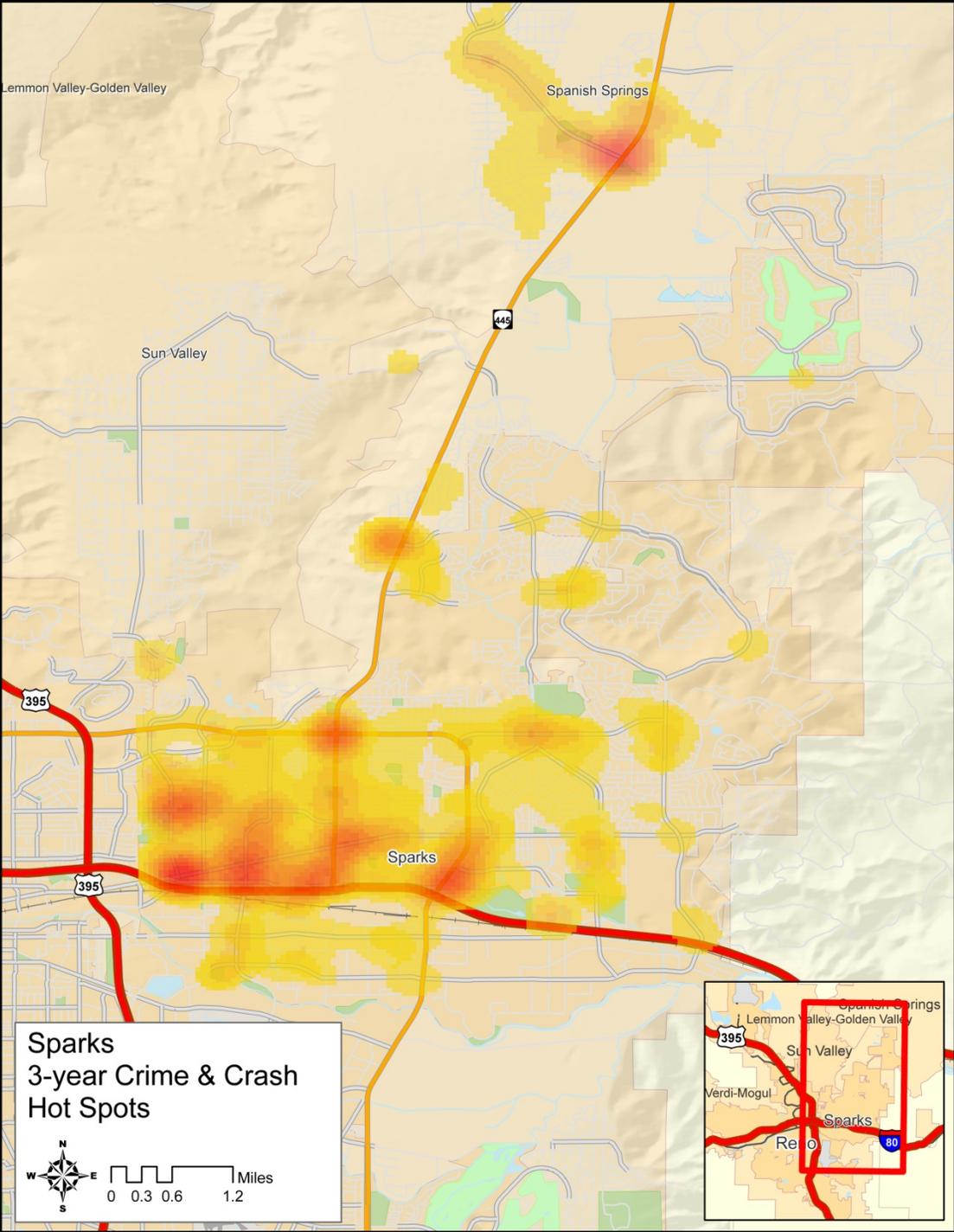
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A Force Multiplier





Spanish Springs Deployments

Spanish Springs DDACTS

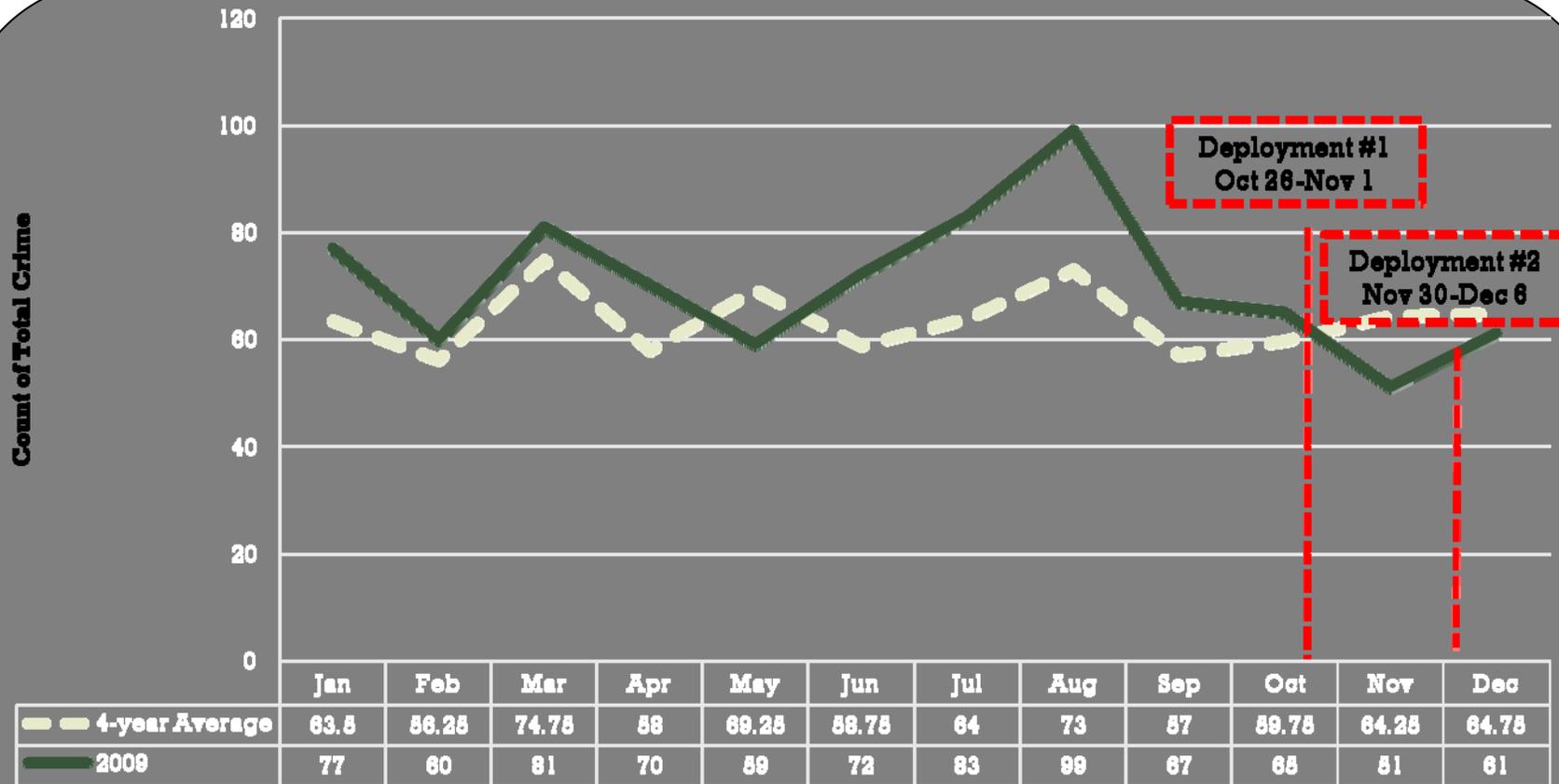


Figure 4

Outcomes

Effectiveness of DDACTS

Change in Crime for 90-Day Period Comparing 2009 with the 4-year Average*

	Sun Valley #1 May 25-31	Sun Valley #2 Sep 28-Oct 4	Incline Village #1 Jun 29-Jul 5	Spanish Springs #1** Oct 26-Nov 1	Spanish Springs #2*** Nov 30-Dec 6	Total Target Areas	Total Rest of County	Total Countywide
Part I Crime								
4-year Average	116.75	124.25	54	40.75	25.25	361	1498	1859
2009 (DDACTS)	114	93	51	24	11	293	1291	1584
% change	-2.41%	-33.60%	-5.88%	-69.79%	-129.55%	-23.21%	-16.03%	-17.36%
Part II Crime								
4-year Average	355.25	348.5	261.25	88.25	39.5	1092.75	4110.25	5203
2009 (DDACTS)	293	265	125	88	50	821	3535	4356
% change	-21.25%	-31.51%	-109.00%	-0.28%	21.00%	-33.10%	-16.27%	-19.44%
Total Crime								
4-year Average	472	472.75	315.25	129	64.75	1453.75	5608.75	7062.5
2009 (DDACTS)	407	358	176	112	61	1114	4826	5940
% change	-15.97%	-32.05%	-79.12%	-15.18%	-6.15%	-30.50%	-16.22%	-18.90%

* 90 day period following DDACTS deployment.

** 60 days of data.

*** 30 days of data.

Table 1

Outcomes

Effectiveness of DDACTS

Change in Crashes for 90-Day Period Comparing 2009 with the 4-year Average*

	Sun Valley #1 May 25-31	Sun Valley #2 Sep 28-Oct 4	Incline Village #1 Jun 29-Jul 5	Spanish Springs #1** Oct 26-Nov 1	Spanish Springs #2*** Nov 30-Dec 6	Total Target Areas	Total Rest of County	Total Countywide
Crashes								
4-year Average	32.5	29.75	32.25	12.75	7	114.25	316.5	430.75
2009 (DDACTS)	22	23	22	17	7	91	232	323
% change	-47.73%	-29.35%	-46.59%	25.00%	0.00%	-25.55%	-36.42%	-33.36%

* 90 day period following DDACTS deployment.

** 60 days of data.

*** 30 days of data.

Table 2

Conclusions

Evidence of Program Effects

- ◎ In Washoe County, corresponding with the national trend, crime rates experienced a downward trend throughout 2009, accelerating over the final quarter of the year
 - Part I Crime is down 8.70% over the previous 4-year average
 - Part II Crime is down 9.11%
- ◎ Possible local contributing factors to this trend are:
 - The introduction of the ACES CompStat-style, intelligence-led policing model is allowing for the identification of crime trends and facilitating timely responses to these trends
 - Washoe County's population has fallen by almost 2% since 2008, which may have some correlation to the decrease in the crime rate
 - The realignment of Washoe County into a North-South command structure

Conclusions

- In areas of DDACTS deployments, the statistical outcome measures of both Part I and Part II crimes were significantly higher
- Target areas had a **7.18% greater reduction in Part I crimes** than the rest of the County
- **16.83% greater reduction in Part II crimes**
- **14.28% greater overall reduction in crime in target areas**

	Total Target Areas	Total Rest of County
Part I Crime		
4-year Average	361	1498
2009 (DDACTS)	293	1291
% change	-23.21%	-16.03%
Part II Crime		
4-year Average	1092.75	4110.25
2009 (DDACTS)	821	3535
% change	-33.10%	-16.27%
Total Crime		
4-year Average	1453.75	5608.75
2009 (DDACTS)	1114	4826
% change	-30.50%	-16.22%



DDACTS