

NEVADA DEPARTMENT OF PUBLIC SAFETY – OFFICE OF TRAFFIC SAFETY

**HIGHWAY SAFETY GRANT
REQUEST FOR FUNDING
FEDERAL FISCAL YEAR 2010
October 1, 2009 -- September 30, 2010**

SAMPLE APPLICATION

AGENCY INFORMATION SHEET

GRANT TITLE: Nevada County Sheriff's Office – Data-Driven Approaches to Crime and Traffic Safety – D.D.A.C.T.S.

PROGRAM AREA (Mark one only "X")

| | | | | | |
|--------------------------|--------------------|--------------------------|----------------------------|-------------------------------------|---------------------------------|
| <input type="checkbox"/> | Impaired Driving | <input type="checkbox"/> | Occupant Protection | <input checked="" type="checkbox"/> | Speed Mgt & Police Traffic Svc) |
| <input type="checkbox"/> | Pedestrian Safety | <input type="checkbox"/> | Bicycle Safety | <input type="checkbox"/> | Motorcycle Safety |
| <input type="checkbox"/> | Community Programs | <input type="checkbox"/> | Emergency Medical Services | <input type="checkbox"/> | Traffic Records |

APPLICANT INFORMATION

Agency Name: Nevada County Sheriff's Office _____

Mailing Address: 321 Rodeo Rd _____

City/Zip Code: Rodeo, NV 89000 _____ Federal Tax ID# 000-0000000 _____

PROJECT DESCRIPTION (100 words or less)

To deploy the NHTSA/BJA initiative Data Driven Approaches to Crime and Traffic Safety (DDACTS). Using data already collected by NCSO and Officers with vehicles already at the agency, DDACTS analyzes the data to deploy resources to high crash and traffic problem areas to reduce crashes and traffic issues. A certified Analyst would be used to accurately analyze the data, coordinate with other jurisdictions and fully implement/ evaluate the DDACTS program.

AMOUNT OF FEDERAL FUNDS REQUESTED

FFY 2010: \$ 104,594.39 FFY 2011: \$ 110,094.47 FFY 2012: \$ 117,613.33

AUTHORIZING OFFICIAL FOR AGENCY

Name: Jon Doe _____ Title: Sheriff _____

Phone: 775-987-6543 _____ Fax: 775-123-4567 _____ E-Mail: jdoe@nevada.ots _____

Signature Authority (Circle one): Yes No

Signature (Required): _____

GRANT MANAGER FOR PROJECT

Name: Jane Applicant _____ Title: Sergeant _____

Phone: 775-123-4567 _____ Fax: _____ E-Mail: japplicant@nevada.ots _____

Signature Authority (Circle one): Yes No

Signature (Required): _____

FISCAL OFFICER

Name: Bob Applicant _____ Title: Fiscal Compliance Officer _____

Phone: 775-328-2884 _____ Fax: 775-000-0000 _____ E-Mail: bapplicant@nevada.ots _____

Signature Authority (Circle one): Yes No

Signature (Required): _____

Primary Contact for this Application/Grant: ___ Authorizing Official ___ Grant Manager Fiscal Officer

**NEVADA DEPARTMENT OF PUBLIC SAFETY - OFFICE OF TRAFFIC SAFETY
APPLICATION GUIDELINES
FEDERAL GRANT - FISCAL YEAR 2010**

Project Title: Nevada County Sheriff's Office -Data-Driven Approaches to Crime and Traffic Safety – D.D.A.C.T.S.

General Overview:

The National Highway Traffic Safety Administration (NHTSA) and Bureau of Justice Administration (BJA) have joined efforts in an the initiative entitled Data Driven Approaches to Crime and Traffic Safety (DDACTS) integrates location-based traffic data and lays it over crime data to establish effective and efficient methods for deploying law enforcement and other resources. Using geomapping, a process wherein data is extracted into a digital map to populate incident locations and identify hot spots, DDACTS uses traffic enforcement strategies that play a dual role in reducing crashes and traffic violations as well as fighting crime. Drawing on the deterrent of highly visible traffic enforcement and the knowledge that crimes often involve the use of motor vehicles, the goal of DDACTS is to reduce the incidence of crashes, crime and traffic violations across the country.

Using data already collected by Nevada County Sheriffs Office (NCSO) and law enforcement personnel and equipment already at the agency, DDACTS analyzes the data to deploy resources to high crash and traffic problem areas to reduce crashes and traffic issues. A full time analyst and related expenses would be used to accurately analyze the data and coordinate with other jurisdictions to fully implement/ evaluate the DDACTS program.

Problem Statement / Identification:

1. There are a large number of drivers who routinely operate there vehicles at speeds higher than 15 mph above the posted speed limit within various residential areas throughout Washoe County.
2. These speeds involve vehicles operated in areas where children and other pedestrians may be present.
3. In 2008, the Nevada County Sheriff's Office wrote 5962 citations for speed alone. Of those, 2562 citations were issued to drivers traveling 11 to 15 mph or more above the limit within residential areas. Another 3108 were issued for 1 to 10 mph above the limit. Many citation violations are reduced at the time of issuance by the citing deputy. Nearly 41% of all citations issued were for speed related issues in 2008; 45% in 2007.

See attachment A

4. In 2008, the Nevada County Sheriff's Office recorded 594 crash reports. Of those, 7 persons were killed and another 157 were injured. This represents a 21% increase in crash reports over the 468 taken in 2007 and a 57% increase in fatalities.

See attachment B

5. Of the 594 crashes reported by NCSO in 2008, nearly 200 cannot have a factor attributed to them. However, at least 174 of the 594 cases did have attributing factors relating to speed and careless/reckless/aggressive driving.

See attachment C

6. The Sheriff's Office continues to experience a 2.18% increase in the certified crime rate for the jurisdiction over the past three annual reports – 2005, 2006, 2007.

See attachment D – 1, 2, and 3

7. The agency does not have a dedicated traffic crash analyst to analyze all of the data from not only NCSO, but other partnering agencies in the jurisdiction for directed deployment of resources.

Problem Solution:

Deploying law enforcement resources to an identified traffic problem area, in an organized and tactical manner with measured outcomes will result in the most efficient use and allocation of those resources. The DDACTS model utilizes the Intelligence-Led Policing practice to rely on the accurate analysis of factual data for proper deployment of enforcement efforts.

Project Goal(s):

Due to Nevada County Sheriff's Office (NCSO) aggressive data collection and reporting efforts, NCSO has been selected as one of seven pilot sites nation-wide to participate in the Data-Driven Approaches to Crime and Traffic Safety (DDACTS) initiative created by NHTSA and BJA. DDACTS integrates location-based traffic data to establish effective and efficient methods for deploying law enforcement and other resources. Using geo-mapping to identify areas that have high incidences of crashes, traffic violations and surrounding crime data, DDACTS uses traffic enforcement strategies that play a dual role in reducing crashes and traffic violations as well as deterring crime.

Drawing on the deterrent of highly visible traffic enforcement and the knowledge that crimes often involve the use of motor vehicles, the goal of DDACTS is to reduce collision related fatalities, crashes, traffic violations and the incidence of crime.

Project Objective(s):

1. To analyze the traffic citation, crash and crime data to determine the specific areas that have high incidents of traffic violations, crashes and crime, ongoing throughout the funding period.
2. To identify partnering agencies and non-traditional resources for data collection and location enforcement within the first month of project implementation.
3. To reduce high-speed related violations of 16mph and faster on the identified roadway by 35% by September 30, 2010.
4. To reduce high-speed related violations of 11 to 15mph on the identified roadway by 25% by September 30, 2010.
5. To reduce speed related violations of 1 to 10mph on the identified roadway by 15% by September 30, 2010.
6. To reduce injury crash incidents in the specified areas by 20% by September 30, 2010.
7. To reduce fatalities in the DDACTS deployment areas by 15%.
8. To provide a press release to local media which contains the project overview, goal, objectives, funding source, expected outcome(s), impact on quality of life for the community, and any other information deemed appropriate.

9. To track, account for and report all in-kind contributions pertaining to the project. Vehicle operation and maintenance, in addition to officer/supervisor salaries/benefits when not in a grant overtime mode, can be used as in-kind contribution.
10. To submit quarterly progress reports detailing the status of each objective on January 15, April 15, July 15, and September 15 of each grant year, and to include with the progress reports copies of any reports, documents, press releases, print media coverage related to the grant project.

Activities:

1. Recruit one full time Analyst to work solely on the DDACTS initiative for the region.
2. Lease one vehicle for the grant period for the use of the Analyst to attend meetings/trainings and for covert data collection on pre and post deployment at identified incident areas.
3. Purchase one RADAR unit for covert data collection on pre and post deployment at identified incident areas.
4. Collaborate with partnering agencies and non-traditional resources for the collection, analysis and interpretation of the data.
5. Identify specific areas for deployment of resources and saturation enforcement activities.
6. Issue a media release describing the project prior to conducting the first event of this grant. The release will explain the purpose of the program, the amount of the grant awarded and the source of the funds (...a federally funded traffic/pedestrian safety grant from the Department of Public Safety, Nevada Office of Traffic Safety).
7. Submit the Saturation Patrol/STEP Initiative data reports to the Nevada Office of Traffic Safety within 15 days of each event.
8. Submit quarterly report form to the Nevada Office of Traffic Safety by January 15, 2010, April 15, 2010, July 15, 2010 and October 15, 2010.
9. Attend training relating to traffic analysis, traffic safety and DDACTS initiative.
10. Provide overtime expenses related to DDACTS project implementation, planning and deployment.

Evaluation Plan:

The project's success will be evaluated in the following manner:

1. Comparison of speeds and driver behavior within the targeted areas, before and following enforcement, by utilizing personnel in an unmarked vehicle in the specified deployment area. Personnel will accurately record vehicle speeds via use of RADAR and also record unusual or erratic driver behavior.
2. Examine available citation data both prior to and following enforcement.

3. Examine available crime data both prior to and following enforcement.
4. Review complaints lodged by citizens, both prior and following enforcement.
5. Examine available crash data to determine success of program.

Budget:

DDACTS Analyst and project implementation

1. Personnel salary and benefits, including overtime pay.
 - DDACTS Traffic, Crash and Crime Analyst salary @ \$59,030.00 per year plus benefits
 - Overtime for DDACTS project implementation, planning and deployment calculated at estimated 10 hours per a pay period.
2. Equipment necessary for implementation of the program.
 - Vehicle lease and insurance for term of grant for project implementation, meetings, planning and deployment. \$400 per month X 12 months = \$4800.00
 - RADAR unit for deployment. \$1500.00
3. Travel/Training
 - Project personnel travel/training \$5,000.00
4. Matching funds will be:
 - One sergeant as Project Manager
 - One Motor Sergeant as enforcement supervisor: 18 hours per deployment (3 days per deployment, 6 hours per day)
 - Eight Motor Deputies for enforcement: 18 hours per deployment
 - One Investigative Assistant as data collector/evaluator: 8 hours per deployment and varied DDACTS tasks as assigned
 - Office computer equipment, peripherals and supplies
 - Office space
 - Fuel for vehicle

Sustainment:

The Nevada County Sheriff's Office is committed to serving the citizens of Washoe County and making the community safer to live in. With the purchase and installation of the above equipment items, the Nevada County Sheriff's Office would be responsible for any corresponding maintenance, operation and replacement expenses that may occur after the project period of the grant. NCSO is committed to maintaining the operational methods of the DDACTS model for resource deployment after the grant cycle due to the efficiencies that the program proposes to create. Upon completion of the grant cycle, efforts would be made to retain personnel dependant upon available funding. The R&D unit is committed to review next generation technology in the hopes of continued improvement with superior response to criminal and traffic investigations.

Budget:*October 1, 2009 to September 30, 2010*

| Category | Federal Funds 75% | Matching Funds 25% | Total Project Cost 100% |
|-----------------|----------------------|-----------------------|----------------------------|
| Personnel | \$93,294.39 | | \$93,294.39 |
| Equipment | \$6,300.00 | | \$6,300.00 |
| Travel/Training | \$5,000.00 | | \$5,000.00 |
| Total Expenses | \$104,594.39 | \$26,148.60 | \$130,742.99 |

Budget:*October 1, 2010 to September 30, 2011*

| Category | Federal Funds 75% | Matching Funds 25% | Total Project Cost 100% |
|-----------------|----------------------|-----------------------|----------------------------|
| Personnel | \$100,291.47 | | \$100,291.47 |
| Equipment | \$4,800.00 | | \$4,800.00 |
| Travel/Training | \$5,000.00 | | |
| Total Expenses | \$110,091.47 | \$27,522.87 | \$137,614.34 |

Budget:*October 1, 2011 to September 30, 2012*

| Category | Federal Funds 75% | Matching Funds 25% | Total Project Cost 100% |
|-----------------|----------------------|-----------------------|----------------------------|
| Personnel | \$107,813.33 | | \$107,813.33 |
| Equipment | \$4,800.00 | | \$4,800.00 |
| Travel/Training | \$5,000.00 | | |
| Total Expenses | \$117,613.33 | \$29,403.33 | \$147,016.66 |

Personnel Calculated at:

| | |
|--|-------------|
| Base Pay - Full time analyst | \$59,030.00 |
| PERS at 21.5% | \$12,691.45 |
| Group Insurance (varies on chosen plan) | \$9,717.00 |
| Medicare at 1.45% | \$855.94 |
| Overtime at 1.5 = \$42.57/hr x approx 10 hrs per a pay period (26) | \$11,000.00 |

| | |
|---|--------------------|
| Total Personnel Cost for 12 months | \$93,294.39 |
|---|--------------------|

Step Increase at 5% and COLA at 2.5% per a year

APPLICATION CHECKLIST

Please check each box, as appropriate, and include the completed checklist in your application, immediately following the Agency Information Sheet. *Have You Included?*

- Completed Agency Information Sheet, with signatures?
- Completed copy of this Checklist?
- General Overview?
- Problem Statement?
- Problem Solution?
- Project Goal (s)?
- Project Objectives?

Be sure to include the three required objectives described in the application packet.

- To provide a press release to local media which contains the project overview, goal, objectives, funding source, expected outcome(s), impact on quality of life for the community, and any other information deemed appropriate.
 - To track, account for and report all in-kind contributions pertaining to the project. Vehicle operation and maintenance, in addition to officer/supervisor salaries/benefits when not in a grant overtime mode, can be used as in-kind contribution.
 - To submit quarterly progress reports detailing the status of each objective on January 15, April 15, July 15, and September 15 of each grant year, and to include with the progress reports copies of any reports, documents, press releases, print media coverage related to the grant project.
- Project Activities?
 - Project Evaluation?
 - Budget Information?

Submit electronic applications by April 1, 2009 to: tsafety@dps.state.nv.us

Surface applications must be received no later than April 1, 2009:

Department of Public Safety
Office of Traffic Safety
555 Wright Way, Carson City, NV 89711-0002

*Nevada County Sheriff
Citation Detail Report*

3/26/2009

Date Range Reported: 01/01/2007 to 12/31/2007

| <u>Category</u> | <u>Citations</u> | <u>Violations</u> |
|------------------------------|------------------|-------------------|
| Total | 13899 | 18952 |
| Violations (Unique) | - | 282 |
| Total Hazardous | 5 | 5 |
| Total Non Hazardous | 13894 | 18947 |
| Total Radar Citations | 4867 | - |
| Other Non-Hazard | 22 | 22 |
| Child Restraint | 25 | 25 |
| Drivers License Violation | 1323 | 1334 |
| Equipment Violation | 730 | 774 |
| Failure to Yield | 170 | 172 |
| Financial Responsibility | 2109 | 2113 |
| Juvenile | 260 | 268 |
| Motorcycle/Bicycle Violation | 92 | 104 |
| Alcohol/Juvenile Violations | 128 | 128 |
| Other Misdemeanor | 395 | 478 |
| Unsafe Turning | 355 | 357 |
| Parking Citation | 138 | 147 |
| Pedestrian Violation | 2 | 2 |
| Registration Violation | 1585 | 1616 |
| Safety Belt | 12 | 12 |
| Signs and Signals | 327 | 327 |
| Speed | 6301 | 6345 |
| Unknown Violation | 3909 | 4160 |
| Other Hazard | 558 | 568 |

Settings Used for Query:

Date Range Reported: 01/01/2007 to 12/31/2007

Nevada County Sheriff Collisions by Injury

Date Range Reported: 01/01/2007 to 12/31/2007

| Injury Category | Number of Collisions |
|---------------------------------|-----------------------------|
| Property | 376 |
| Injury | 89 |
| Fatal | 3 |
| ----- | |
| Number Injured | 125 |
| Number Killed | 3 |
| | |
| Total Injured and Killed | 128 |
| | |
| Total Collisions | 468 |

Settings Used for Query:

Date Range Reported: 01/01/2007 to 12/31/2007

Nevada County Sheriff Collisions by Injury

Date Range Reported: 01/01/2008 to 12/31/2008

| Injury Category | Number of Collisions |
|---------------------------------|-----------------------------|
| Property | 468 |
| Injury | 120 |
| Fatal | 6 |
| ----- | |
| Number Injured | 157 |
| Number Killed | 7 |
| | |
| Total Injured and Killed | 164 |
| | |
| Total Collisions | 594 |

Settings Used for Query:

Date Range Reported: 01/01/2008 to 12/31/2008

Nevada County Sheriff Vehicle Factor Breakdown

Date Range Reported: 01/01/2008 to 12/31/2008

| <u>Collisions</u> | <u>Number of Collisions</u> |
|------------------------------|-----------------------------|
| Unknown | 194 |
| Fail To Yield Right Of Way | 60 |
| Disregard Control Device | 13 |
| Too Fast For Conditions | 103 |
| Exceeding Speed Limit | 39 |
| Wrong Way Or Direction | 6 |
| Mechanical Defect | 86 |
| Drove Left of Center | 31 |
| Fail To Maintain Lane | 75 |
| Aggressive Reckless Careless | 32 |
| Ran Off Road | 135 |
| Hit And Run | 95 |
| Road Defect | 2 |
| Object Avoidance | 19 |
| Driverless Vehicle | 33 |
| Following Too Close | 48 |
| Unsafe Lane Change | 7 |
| Made Improper Turn | 24 |
| Over Correct Steering | 18 |
| | |
| Total Collisions | <u>594</u> |
| <u>Vehicles</u> | <u>Number of Vehicles</u> |
| Unknown | 195 |
| Fail To Yield Right Of Way | 60 |
| Disregard Control Device | 13 |
| Too Fast For Conditions | 106 |
| Exceeding Speed Limit | 39 |
| Wrong Way Or Direction | 6 |
| Mechanical Defect | 86 |
| Drove Left of Center | 31 |
| Fail To Maintain Lane | 76 |
| Aggressive Reckless Careless | 32 |
| Ran Off Road | 135 |
| Hit And Run | 95 |
| Road Defect | 2 |
| Object Avoidance | 19 |
| Driverless Vehicle | 36 |
| Following Too Close | 48 |
| Unsafe Lane Change | 7 |
| Made Improper Turn | 24 |
| Over Correct Steering | 18 |
| | |
| Total Vehicles | <u>923</u> |

Settings Used for Query:

Date Range Reported: 01/01/2008 to 12/31/2008

Attachment D

1. Page 27: (*APPROPRIATE WEB-SITE OR LOCATION*)
2. Page 27: (*APPROPRIATE WEB-SITE OR LOCATION*)
3. Page 27: (*APPROPRIATE WEB-SITE OR LOCATION*)