



## *Day-to-day Perspectives on Emergency Response*

April, 2009

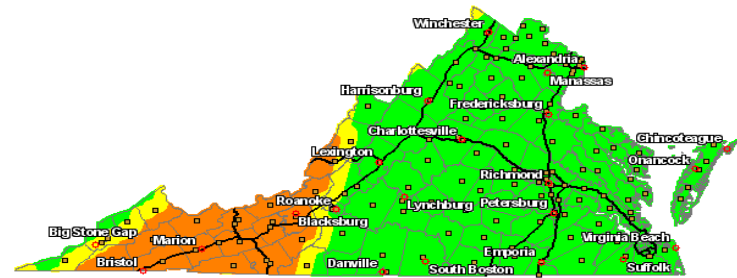
**Perry Cogburn**  
Manager, TEOC

## Introduction

- **RWIS**
  - Weather Forecasting
  - Environmental Sensor Sites
- **Mobile Video Data Platforms (MVDP)**
- **Incident Management**
  - Safety Service Patrols
  - After Action Reports
- **Central Office Duty Officers**
- **VaTraffic**

# RWIS

## Precipitation Forecast Map



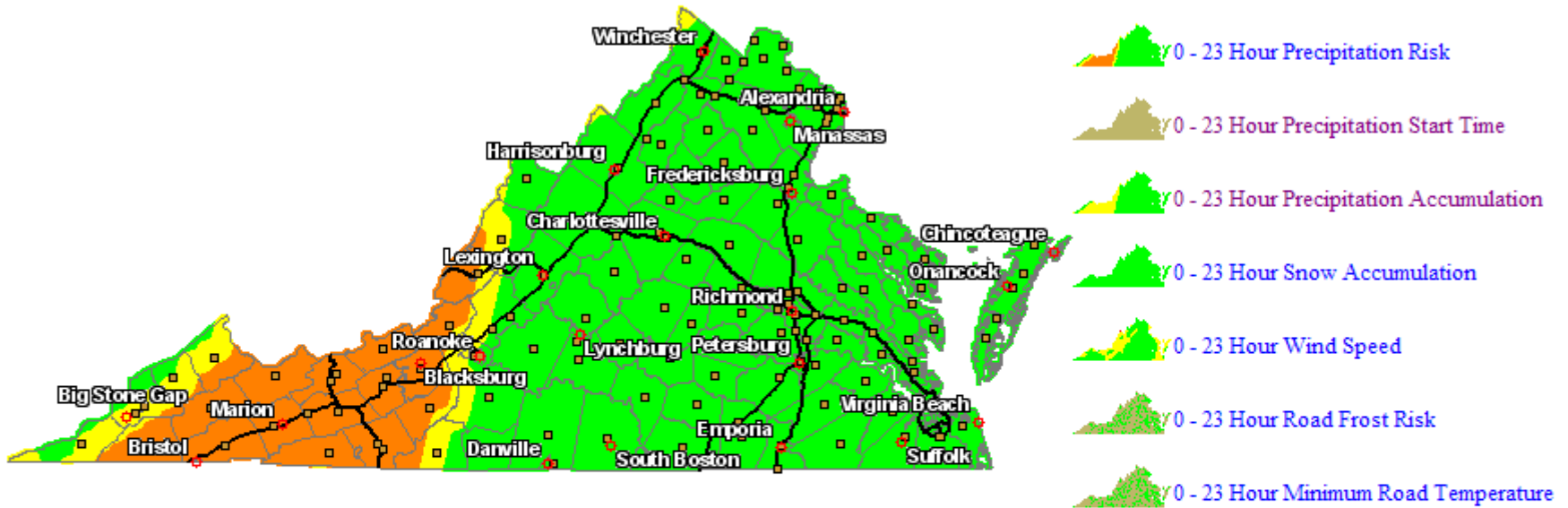
Includes both ESS components and forecasting

STATION	DATE/TIME
<a href="#">Rt 66 @ Rosslyn</a>	04/23/2009 03:37 PM
<a href="#">Dulles Toll Rd E Plaza</a>	04/23/2009 03:50 PM
<a href="#">Dulles Toll Road @ MP2.5</a>	04/23/2009 03:49 PM
<a href="#">7 @ 287 Leesburg</a>	04/23/2009 03:43 PM
<a href="#">I-66 @ Haymarket</a>	04/23/2009 03:47 PM
<a href="#">Rt 9 @ WV Line</a>	04/23/2009 03:39 PM
<a href="#">Rt 7 @ 601 Purcellville</a>	04/23/2009 03:45 PM
<a href="#">Rt 50 @ Paris Mnt</a>	04/23/2009 03:46 PM

# Weather Forecasting

0 - 23 Hour Precipitation Risk

Valid: 3 PM - 2 PM EDT Fri, Apr 24



None   Slight   Chance   Good Chance   Likely

Forecast published at 2009-04-23 14:46 EDT.

**Summary:**

High pressure will continue dry conditions across the entire state through tonight. There will be a slight chance of isolated thunderstorms Friday afternoon mainly in the west. Chances for scattered thunderstorms will return Saturday afternoon and possibly linger into the evening across much of the state.

- ▶ Regional
- ▶ National
- ▶ Satellite
- ▶ Regional
- ▶ National
- ▶ Weather Observations
- ▶ RWIS
- ▶ Regional
- ▶ National
- ▶ NWS Forecasts/Alerts
  - NWS Zone Forecasts
  - NWS Alerts

Time (EDT)	Pavement Temp (° F)	Pavement Cond	Pavement Frost Prob (%)	Deck Temp (° F)	Deck Cond	Deck Frost Prob (%)	Air Temp (° F)	Dew Point (° F)	Rel Humidity (%)	Wind Dir	Wind Speed (mph)	Wind Gust (mph)	Wind Chill (° F)	Precip Type	Precip Prob (%)	Precip Rate (in/hr)	Precip Accum (in)	Snow Rate (in/hr)	Snow Accum (in)	Sky	Visibility (miles)	Vis Obsrn	Time (EDT)
Thu 15:00	104	Dry	0	98	Dry	0	69	25	19	→W	10	23			0	0.00	0.00	0.0	0.0	☀ MClr	10.00		Thu 15:00
Thu 16:00	102	Dry	0	96	Dry	0	70	25	18	→W	10	21			0	0.00	0.00	0.0	0.0	☀ MClr	10.00		Thu 16:00
Thu 17:00	97	Dry	0	92	Dry	0	69	25	19	↖WNW	10	19			0	0.00	0.00	0.0	0.0	☀ MClr	10.00		Thu 17:00
Thu 18:00	88	Dry	0	85	Dry	0	68	25	20	↖NW	8	15			0	0.00	0.00	0.0	0.0	☀ MClr	10.00		Thu 18:00
Thu 19:00	78	Dry	0	76	Dry	0	64	25	23	↖NNW	8				0	0.00	0.00	0.0	0.0	☀ MClr	10.00		Thu 19:00
Thu 20:00	69	Dry	0	69	Dry	0	60	29	31	↓N	7				0	0.00	0.00	0.0	0.0	☀ Clr	10.00		Thu 20:00
Thu 21:00	64	Dry	0	64	Dry	0	55	32	41	↓N	7				0	0.00	0.00	0.0	0.0	☀ Clr	10.00		Thu 21:00
Thu 22:00	61	Dry	0	61	Dry	0	53	32	45	○VRB	3				0	0.00	0.00	0.0	0.0	☀ Clr	10.00		Thu 22:00
Thu 23:00	58	Dry	0	58	Dry	0	50	31	48	↖NE	5				0	0.00	0.00	0.0	0.0	☀ Clr	10.00		Thu 23:00
Fri 00:00	56	Dry	0	55	Dry	0	48	32	54	↖ENE	7				0	0.00	0.00	0.0	0.0	☀ Clr	10.00		Fri 00:00
Fri 01:00	54	Dry	0	53	Dry	0	48	33	56	↖ENE	5				0	0.00	0.00	0.0	0.0	☀ Clr	10.00		Fri 01:00
Fri 02:00	53	Dry	0	52	Dry	0	48	33	56	↖E	5				0	0.00	0.00	0.0	0.0	☀ Clr	10.00		Fri 02:00
Fri 03:00	51	Dry	0	50	Dry	0	47	35	63	↖ENE	8				0	0.00	0.00	0.0	0.0	☀ Clr	10.00		Fri 03:00
Fri 04:00	51	Dry	0	49	Dry	0	48	37	66	↖ENE	6				0	0.00	0.00	0.0	0.0	☀ Clr	10.00		Fri 04:00
Fri 05:00	50	Dry	0	48	Dry	0	46	39	77	↖E	6				0	0.00	0.00	0.0	0.0	☀ Clr	10.00		Fri 05:00
Fri 06:00	49	Dry	0	47	Dry	0	46	39	77	↖ESE	5				0	0.00	0.00	0.0	0.0	☀ Clr	10.00		Fri 06:00
Fri 07:00	50	Dry	0	47	Dry	0	47	40	77	↖ESE	5				0	0.00	0.00	0.0	0.0	☀ Clr	10.00		Fri 07:00
Fri 08:00	58	Dry	0	55	Dry	0	52	42	69	↖ESE	5				0	0.00	0.00	0.0	0.0	☀ Clr	10.00		Fri 08:00
Fri 09:00	70	Dry	0	67	Dry	0	57	42	57	↖SE	6				0	0.00	0.00	0.0	0.0	☀ Clr	10.00		Fri 09:00
Fri 10:00	82	Dry	0	79	Dry	0	63	40	43	↖SSE	6				0	0.00	0.00	0.0	0.0	☀ Clr	10.00		Fri 10:00
Fri 11:00	94	Dry	0	89	Dry	0	68	37	32	↖ESE	7				0	0.00	0.00	0.0	0.0	☀ Clr	10.00		Fri 11:00
Fri 12:00	103	Dry	0	97	Dry	0	72	36	27	↖SSE	8				0	0.00	0.00	0.0	0.0	☀ Clr	10.00		Fri 12:00
Fri 13:00	109	Dry	0	103	Dry	0	75	34	22	↖SSE	8				0	0.00	0.00	0.0	0.0	☀ MClr	10.00		Fri 13:00
Fri 14:00	112	Dry	0	106	Dry	0	77	36	23	↖S	9				0	0.00	0.00	0.0	0.0	☀ MClr	10.00		Fri 14:00
Fri 15:00	112	Dry	0	106	Dry	0	77	37	24	↖SSE	9				0	0.00	0.00	0.0	0.0	☀ MClr	10.00		Fri 15:00
Fri 16:00	110	Dry	0	105	Dry	0	78	40	26	↖S	9				0	0.00	0.00	0.0	0.0	☀ MClr	10.00		Fri 16:00
Fri 17:00	105	Dry	0	101	Dry	0	77	42	29	↖SSE	9				0	0.00	0.00	0.0	0.0	☀ MClr	10.00		Fri 17:00
Fri 18:00	96	Dry	0	93	Dry	0	75	42	31	↖SSE	8				0	0.00	0.00	0.0	0.0	☀ MClr	10.00		Fri 18:00
Fri 19:00	85	Dry	0	84	Dry	0	72	41	33	↖SE	10				0	0.00	0.00	0.0	0.0	☀ PCldy	10.00		Fri 19:00
Fri 20:00	77	Dry	0	77	Dry	0	68	45	44	↖ESE	10				0	0.00	0.00	0.0	0.0	☀ PCldy	10.00		Fri 20:00
Fri 21:00	73	Dry	0	73	Dry	0	65	50	58	↖SE	10				0	0.00	0.00	0.0	0.0	☀ PCldy	10.00		Fri 21:00
Fri 22:00	71	Dry	0	71	Dry	0	64	49	58	↖SSE	7				0	0.00	0.00	0.0	0.0	☀ PCldy	10.00		Fri 22:00
Fri 23:00	69	Dry	0	69	Dry	0	63	50	63	↖SSE	8				0	0.00	0.00	0.0	0.0	☀ PCldy	10.00		Fri 23:00
Sat 00:00	67	Dry	0	68	Dry	0	63	51	65	↖SSE	11				0	0.00	0.00	0.0	0.0	☀ PCldy	10.00		Sat 00:00
Sat 01:00	66	Dry	0	67	Dry	0	63	53	70	↖S	10				0	0.00	0.00	0.0	0.0	☀ PCldy	10.00		Sat 01:00
Sat 02:00	65	Dry	0	66	Dry	0	64	54	70	↖S	10				0	0.00	0.00	0.0	0.0	☀ PCldy	10.00		Sat 02:00
Sat 03:00	65	Dry	0	65	Dry	0	64	55	73	↖SSW	12				0	0.00	0.00	0.0	0.0	☀ PCldy	10.00		Sat 03:00
Sat 04:00	64	Dry	0	64	Dry	0	63	56	78	↖S	10				0	0.00	0.00	0.0	0.0	☀ PCldy	10.00		Sat 04:00
Sat 05:00	64	Dry	0	63	Dry	0	62	57	84	↖SW	9				0	0.00	0.00	0.0	0.0	☀ PCldy	10.00		Sat 05:00
Sat 06:00	63	Dry	0	62	Dry	0	62	57	84	↖SSW	8				0	0.00	0.00	0.0	0.0	☀ PCldy	10.00		Sat 06:00
Sat 07:00	63	Dry	0	62	Dry	0	61	57	87	↖SSW	8				0	0.00	0.00	0.0	0.0	☀ PCldy	10.00		Sat 07:00
Sat 08:00	69	Dry	0	69	Dry	0	64	59	84	↖S	8				0	0.00	0.00	0.0	0.0	☀ PCldy	10.00		Sat 08:00

# ESS

VDOT: Springfield Interchange  
Exit 166 I-95 North @ Fairfax

2008-11-12 EST 17:00:01



## Observation @ 11/12/2008 04:52 PM

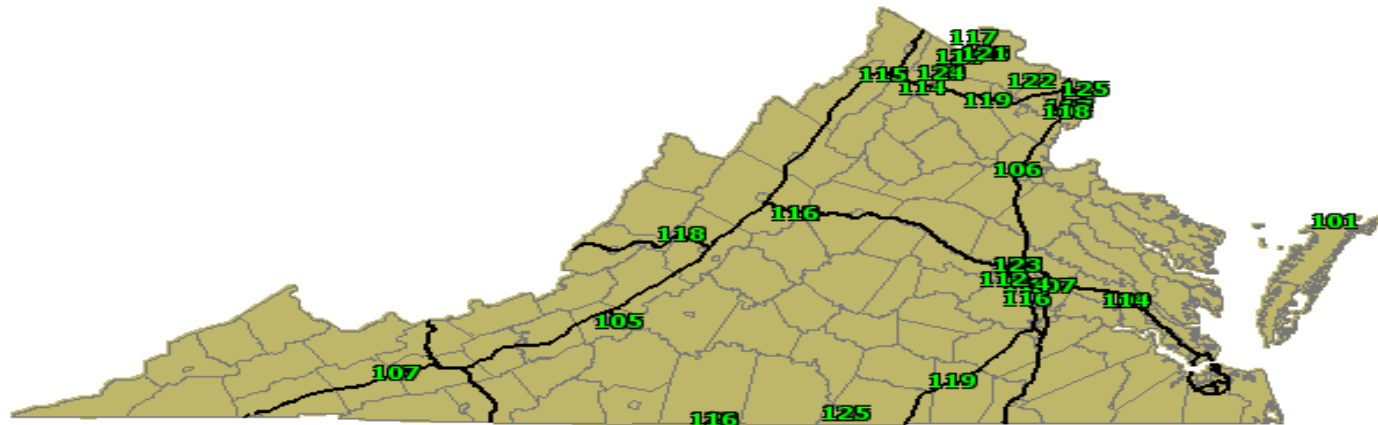
Air T	49.6 °F
RH	57 %
Dew	35.1 °F
Vis	6561.7 ft
Precip St	light
Wind Dir	S
Wind Sp	3.6 mph
PR1H	0.0 in
RI	0.0 in/h
Precip Ttl	0.0 in
WSM	6.0 mph
WDM	186 °
Surface T	°F
Surf State	dry
Grip	0.82
Water Tkns	0.00 mm
Ice Tkns	0.00 mm
Snow Tkns	0.00 mm

# ESS Sites

Static Image

**RWIS Pavement Temperature (F)**  
Valid: 04-27-2009 17:00 EDT

Meridian  
Environmental Technology Inc.



- Log Out
- Reload
- Home
- Print
- Expand
- Collapse

- Meridian Forecasts
- Radar
- Satellite
- Weather Observations
  - RWIS
    - State RWIS Maps
      - Air Temp
      - Dew point
      - Humidity
      - Wind Speed
      - Precip Type
      - Road Temp
      - Road Frost Index Current
      - Road Conditions
      - Bridge Temp
      - Bridge Frost Index
      - Bridge Conditions
      - Sub-Sfc Temp
    - RWIS Site Data
    - Regional
    - National
- NWS Forecasts/Alerts

## Mobile Video and Data Platform

Wireless Communication

Real Time Video

Traffic Counter

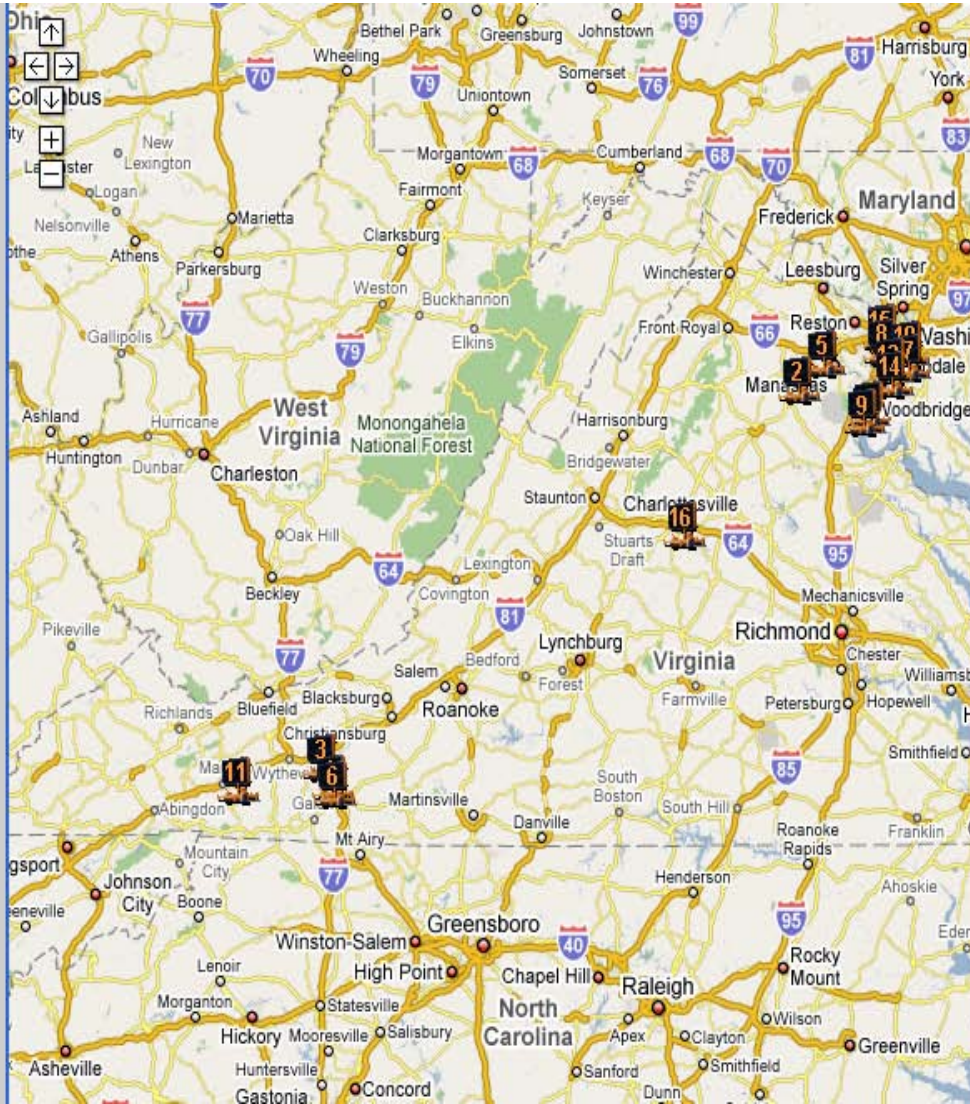
Traffic Speeds

Weather Data





# Mobile Video Data Platforms



Cam 1 @ I77 SB Exit 24 in Austinville



CAM2 @ Rt29/15/17S in Warrenton



Cam 3 @ I81 Exit 81 in Locust Hill



CAM4 @ Rt1 S & Dumfries Rd.



Cam 5 @ I66W MM41.7 in Gainesville



Cam 6 @ I77 NB south of Exit 24 in Austinville

## Incident Management

- **Incident Management**
  - Developing SOP
  - Developing training in concert with ER initiative
- **After Action Reports**
  - Developing a template
  - Creating a newsletter
  - SOP



## Duty Officers

- **Central Office personnel made up Maintenance and OSD personnel**
- **Provide information to VDOT Executives during major events**

## VaTraffic

- **Replacement for the Virginia Operational Information System (VOIS)**
- **Captures incident, weather and planned events and post to 511 IVR and web site**
- **Deployed in August of 2008**
- **Winter Weather Module included in November 2008**
- **Reports**

# VaTraffic Incident Screen

[Add new incident](#) | [Export to CSV](#) | [Add/Remove Columns](#) | [Show filters](#)

Page #: **1**  
 Displaying items 1 - 22 of 22

ID	Status	Type	Region	District	Jurisdiction	Road	Priority	Point of Contact	Start Date	End Date
INEA2032558-04272009	Open	Congestion/Delay	Eastern	Hampton Roads	Hampton (City)	Hampton Roads Bridge Tunnel East	High Profile	HRTOC	2009-04-27	
INSW2032589-04272009	Open	Vehicle Accident	Southwest	Salem	Roanoke (County)	US-220N	Major	T. Stafford/Salem TOC	2009-04-27	
INSW2032559-04272009	Open	Vehicle Accident	Southwest	Salem	Carroll (County)	I-77S	Major	T. Stafford/Salem TOC	2009-04-27	
INNO2032597-04272009	Open	Disabled Vehicle	Northern	Northern Virginia	Fairfax (County)	I-495N	Major	Eressa Harris	2009-04-27	
INEA2032543-04272009	Open	Congestion/Delay	Eastern	Hampton Roads	Norfolk (City)	Downtown Tunnel West	Major	Connie Tucker	2009-04-27	
INEA2032568-04272009	Open	Congestion/Delay	Eastern	Hampton Roads	Chesapeake (City)	High Rise Bridge	Major	HRTOC	2009-04-27	
INEA2032596-04272009	Open	Vehicle Accident	Eastern	Hampton Roads	Virginia Beach (City)	VA-225S (S Independence Bl)	Major	HRTOC	2009-04-27	
INCE2032594-04272009	Open	Vehicle Accident	Central	Richmond	Henrico (County)	I-64E	Major	Catherine Thurston	2009-04-27	
INEA2032578-04272009	Open	Vehicle Accident	Eastern	Hampton Roads	Greensville (County)	I-95S	Minor	Catherine Thurston	2009-04-27	
INNW2031435-04222009	Open	Mudslide	Northwest	Staunton	Rockbridge (County)	VA-39W (Maury River Rd)	High Profile	Gary Johnson	2009-04-22	
INEA2032544-04272009	Open	Congestion/Delay	Eastern	Hampton Roads	Norfolk (City)	Midtown Tunnel West	Major	Andrew Smith	2009-04-27	
INEA2032530-04272009	Open	Congestion/Delay	Eastern	Hampton Roads	Norfolk (City)	Hampton Roads Bridge Tunnel West	High Profile	HRTOC	2009-04-27	
INNO2032575-04272009	Open	Congestion/Delay	Northern	Northern Virginia	Prince William (County)	I-95S	High Profile	Tyrone Young	2009-04-27	
INNO2032593-04272009	Open	Congestion/Delay	Northern	Northern Virginia	Fairfax (County)	I-95S	High Profile	Tyrone Young	2009-04-27	
INNO2032572-04272009	Open	Congestion/Delay	Northern	Northern Virginia	Fairfax (County)	I-395S	High Profile	Tyrone Young	2009-04-27	
INNO2032592-04272009	Open	Disabled Vehicle	Northern	Fredericksburg	Stafford (County)	I-95N	Minor	Robert Fregoso	2009-04-27	
INNW2032590-04272009	Open	Vehicle Accident	Northwest	Culpeper	Albemarle (County)	VA-20S (Stony Point Rd)	High Profile	Mary Wright	2009-04-27	
INNO2032579-04272009	Open	Congestion/Delay	Northern	Northern Virginia	Fairfax (County)	I-66W	Major	Christopher Pumphrey	2009-04-27	
INNW2032588-04272009	Open	Congestion/Delay	Northwest	Culpeper	Charlottesville (City)	BUS US-250E	Major	Mary Wright	2009-04-27	
INNO2032585-04272009	Open	Vehicle Accident	Northern	Northern Virginia	Fairfax (County)	VA-193E (Georgetown Pi)	High Profile	Christopher Pumphrey	2009-04-27	
INCE2032586-04272009	Open	Vehicle Accident	Central	Richmond	Dinwiddie (County)	I-85S	Major	Larry DeBose	2009-04-27	
INCE2011368-01152009	Open	Other Traffic	Central	Richmond	Henrico (County)	VA-156N (Willis Church Rd)	Major	Leonore Nadler	2009-01-15	

Thank you for your attention!!!!

Questions????????