Geospatial Transportation Information Section
Program Planning & Administration Division
Division of Highways
West Virginia Department of Transportation
Bldg. 5, Rm. A-816
1900 Kanawha Blvd., E
Charleston, WV 25305
Historically the West Virginia Department of Transportation (WVDOT) has been utilizing geospatial (GIS, Remote Sensing, & GPS) technology for planning, analysis, and mapping purposes ever since the technology became available.

In 2005 the WVDOT GIS Section was created to meet the growing needs for geospatial data and services in transportation.

In 2007 the GIS Section was reorganized as the GIS Unit and merged with the Highway Data Services (HDS) Unit, a program responsible for processing roadway additions, changes, or abandonment requests from the Districts, and the update and maintenance of the Roadway Inventory Log. The two units together formed the current Geospatial Transportation Information (GTI) Section.
GTI’S OFFERING

- Public
  - GTI Portal
  - GTIHelpDesk@wv.gov

- WVDOT
  - GTI Portal
  - Continuously Operating Reference Stations (CORS)
  - Fleet Management
  - GIS Portal
  - Videolog Viewer
  - Straight Line Diagram Viewer
  - WVDOH District GIS Coordinator Network
  - GIS/GPS Training
  - Other Services (Transportation GIS User Group, etc.)
Welcome to the West Virginia Department of Transportation’s Geospatial Transportation Information (GTI) main page.

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Now the GTI Section is composed of 22 full time professionals and located within the Division of Highways (WVDOT) Program Planning and Administrative Division.

Please use the links on the left to further explore our site.
DATA CATALOG

- Road by Sign/County/District
- WVDOT Fueling Locations
- WVDOT Facilities
- Airports
- Ports
- Rest Areas
- Park & Rides
- Etc.

http://www.transportation.wv.gov/highways/programplanning/gti/GIS/Pages/DataCatalog.aspx
**GIS SERVICES**

- ESRI ArcGIS Server
- REST & SOAP APIs
- UTM & Web Mercator
- Future GeoData Services
- Future Image Services
- Future Data Exchange Network

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ArcGIS Services Directory

**Home**

**Folder: /**

**Current Version:** 10.0

**Folders:**

- Transport
- UTM
- WM
- WVNG_COP

**Services:**

- ARRA_Base (MapServer)
- County_Posture (MapServer)
- CRS_Base (MapServer)
- FEDSTIP09 (MapServer)
- ParkNRide (MapServer)
- Riverports (MapServer)
- SRIC (MapServer)
- WVAirports (MapServer)
- WVDOTFuelLocations (MapServer)
- WVNG_FD_Military_Assets (MapServer)

**Supported Interfaces:** REST SOAP Sitemap Geo Sitemap

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http://www.transportation.wv.gov/highways/programplanning/gti/GIS/Pages/WebMapServices.aspx
MAPS

- State General Highway Maps
- State Functional Classification Map
- General Highway County Maps (55)
- State Highway Base Map
- City Maps (205)
- Urban Area Maps (26)

http://www.transportation.wv.gov/highways/programplanning/gti/GIS/MAPS/Pages/default.aspx
WEB MAPPING APPLICATIONS

- WVDOT Facility Locations
- WVDOT Statewide Transportation Improvement Program
- WVDOT River Port Locations
- WVDOT Airport Locations
- WVDOT Snow Removal & Ice Control (SRIC)
- WV American Recovery and Reinvestment (ARRA) Reporting
- WVDOT Coal Resource Transportation System (CRTS)

http://www.transportation.wv.gov/highways/programplanning/gti/GIS/Pages/MappingApplications.aspx
WVDOT SNOW REMOVAL AND ICE CONTROL
HDS UNIT WEB RESOURCES

- Procedures & Guidelines
  - Additions & Changes
  - Roadway Abandonment
- Data Resources
  - Annual Roadway Inventory Statistics 2008-2010
  - West Virginia Federal Aid Roads 2008-2010
- District Status Reports
  - Pending District Addition/Change Request Status Report
  - Pending District Abandonment Request Status Report
  - Current Reserved Route Listing
- Annual Highway Performance Monitoring System (HPMS) Data Profile

http://www.transportation.wv.gov/highways/programplanning/gti/Highway_Data_Services/Pages/default.aspx
WVDOT CORS & VRS
Newest Station
NRAO in Green Bank, West Virginia

2011
22 WV STATIONS INSTALLED

35 STATIONS TRANSMITTING TO NETWORK
169 Subscriptions
109 Organizations
187 Users
### Cooperative Effort
- Site Owners
- Include
- USCOE
- NRAO
- WVDNR
- WVDEP
- WVRJA
- WVU, MU, FSU,
- SCTC, EWVTC,
- Marshall, Braxton,
- and Wirt County
- Schools

### Partnerships – Surrounding States
- Ohio
- Kentucky
- Pennsylvania
- Virginia
INFRASTRUCTURE ENABLED APPLICATIONS

- Precision Agriculture
- Bridge and Damn Deformation monitoring
- Scientific/engineering research
- Surveying
- Mine rescue
- Construction
- Machine control
- Marine navigation and positioning
- Mapping and GIS
WVDOT FLEET MANAGEMENT
Benefits

- Fleet Productivity
- Fuel Reduction
- Driver Safety
- Environmental Impact
- Asset Utilization
- Diagnostics & Messaging
- NMEA GPS Data Feed
- NMEA WiFi Data Feed

Current Web Site
http://telvistar.com
Features

• Real-time location
• Map View - View the real-time status and locations
• Exception alerting - Includes speeding, idle time, battery
• Configurable Dashboards
• Vehicle Diagnostics - Fuel, carbon, odometer and fault codes
• Landmarks (GeoFence) - 20 unique types
• Vehicle Maintenance Schedule Notifications
• PTO and Temperature Sensor Connection
• Data integration to existing systems

• On-line self paced user training
GIS PORTAL, VIDEOLOG VIEWER, & STRAIGHT LINE DIAGRAM VIEWER
CURRENT & FUTURE MAJOR PROJECTS

- ERP/Asset Management
- CORS
- HPMS Portal
- Fleet Management
- WV National Guard (WVNG) Flood Emergency Management
- Enterprise GIS Framework Enhancement
  - Transportation GIS Data Model
  - Statewide Road Centerline Dataset
- GIS Portal & Straight Line Diagram Viewer
- Video Log Viewer
- Highway Map Production
- Web Mapping Applications
- Transportation GIS Data Collection
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Email</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hussein Elkhansa</td>
<td>Section Head</td>
<td><a href="mailto:Hussein.S.Elkhansa@wv.gov">Hussein.S.Elkhansa@wv.gov</a></td>
<td>(304) 558-9657</td>
</tr>
<tr>
<td>Janet Lemon</td>
<td>HDS Unit Leader</td>
<td><a href="mailto:Janet.L.Lemon@wv.gov">Janet.L.Lemon@wv.gov</a></td>
<td>(304) 558-9599</td>
</tr>
<tr>
<td>Yueming Wu</td>
<td>GIS Unit Leader</td>
<td><a href="mailto:Yueming.Wu@wv.gov">Yueming.Wu@wv.gov</a></td>
<td>(304) 558-7437</td>
</tr>
<tr>
<td>Marshall Burgess</td>
<td>Database Administrator</td>
<td><a href="mailto:Marshall.L.Burgess@wv.gov">Marshall.L.Burgess@wv.gov</a></td>
<td>(304) 558-9528</td>
</tr>
<tr>
<td>Larry Douglas</td>
<td>Project Manager</td>
<td><a href="mailto:Lawrence.A.Douglas@wv.gov">Lawrence.A.Douglas@wv.gov</a></td>
<td>(304) 558-7402</td>
</tr>
<tr>
<td>Kyle Weatherholt</td>
<td>District GIS Coordinator</td>
<td><a href="mailto:Kyle.S.Weatherholt@wv.gov">Kyle.S.Weatherholt@wv.gov</a></td>
<td>(304) 558-7434 or 528-5936</td>
</tr>
<tr>
<td>Michelle Frame</td>
<td>GIS Training Liaison</td>
<td><a href="mailto:Michelle.L.Frame@wv.gov">Michelle.L.Frame@wv.gov</a></td>
<td>(304) 558-9588</td>
</tr>
</tbody>
</table>
For those of you still awake, thanks for listening and have a great day.

Quote for the Day......

“Thanks to the Interstate Highway System, it is now possible to travel across the country from coast to coast without seeing anything.” - Charles Kuralt