



park & ride

Presented by:
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West Virginia Department of Transportation
Division of Highways

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Planning Conference, October 26-28, 2010

What is a Park and Ride?

Park and rides facilities are car parks with connections to public transportation that allows commuters wishing to travel into cities or other predetermined destinations to leave their personal vehicles in a designated location and transfer to a bus, rail system, or carpool for the rest of their trip. The vehicle is stored in the car park during the day and retrieved when the commuter returns.

Purpose of the Study:

- 1. Compile a detailed inventory of the State's Park and Ride infrastructure;*
- 2. Document the use and conditions of the existing facilities; and*
- 3. To determine the need to expand, improve, or construct new facilities to accommodate demand.*

Optimization of the Use of P & R

State of West Virginia

- The economic situation
- The environmental situation

Individuals

- SAVE \$\$ on fuel and vehicle wear
- REDUCE stressful driving
- REDUCE congestion
- REDUCE pollution
- REDUCE greenhouse gases
- REDUCE dependency on foreign oil

Type of Park and Ride Facilities

- Designated
 - *a group of parking spaces dedicated to give individuals a place to park.*
- Impromptu
 - *a non-specified location where motorist regularly drive their cars and leave them parked along a road.*
- Opportunistic or Joint Use Lots
 - *park and ride facility that shares its use with another facility (ex. church, theater, etc.).*



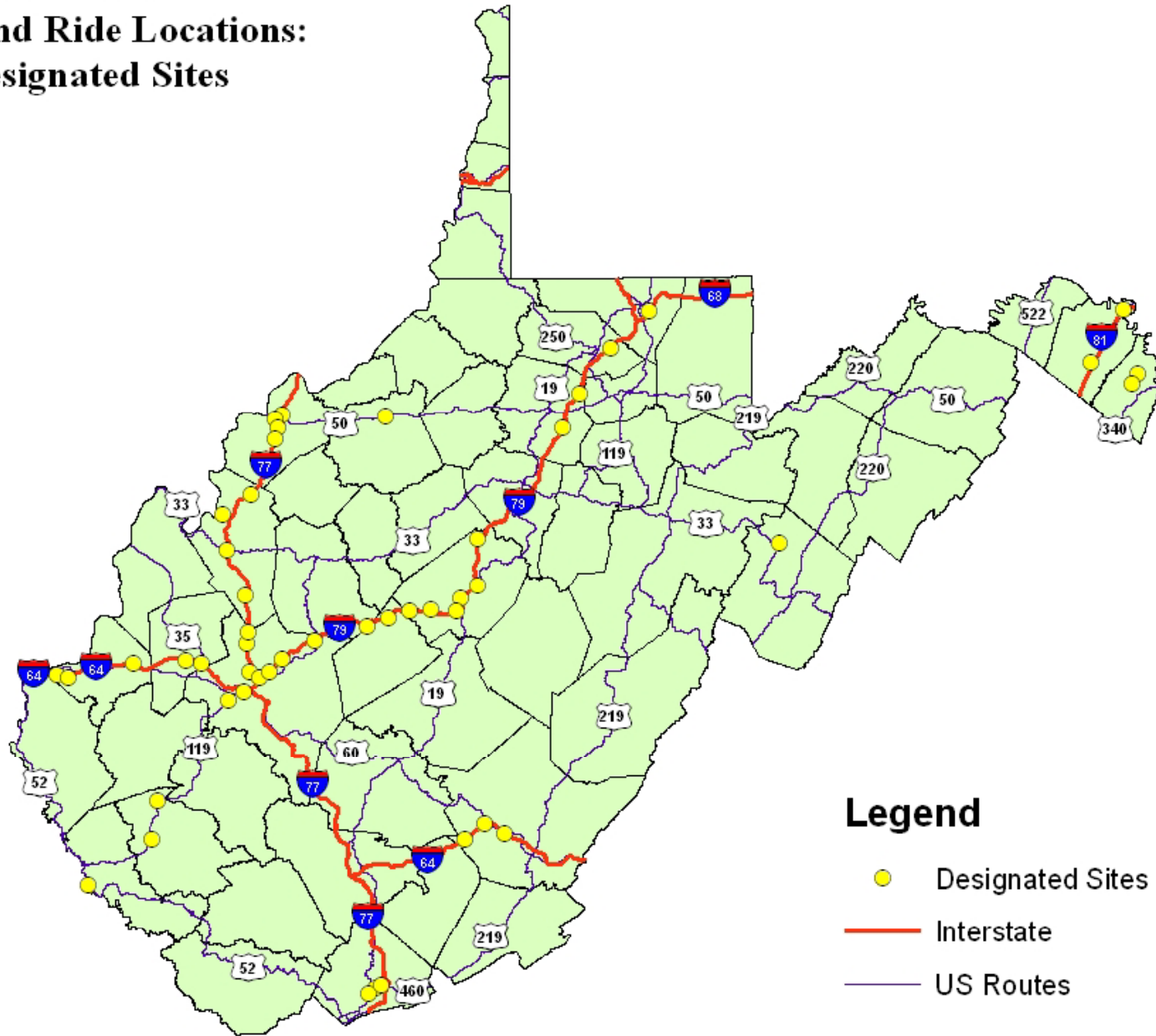
Designated Park and Rides

52

*Owned and maintained by
the WVDOH.*



Statewide Park and Ride Locations: Designated Sites



Legend

- Designated Sites
- Interstate
- US Routes

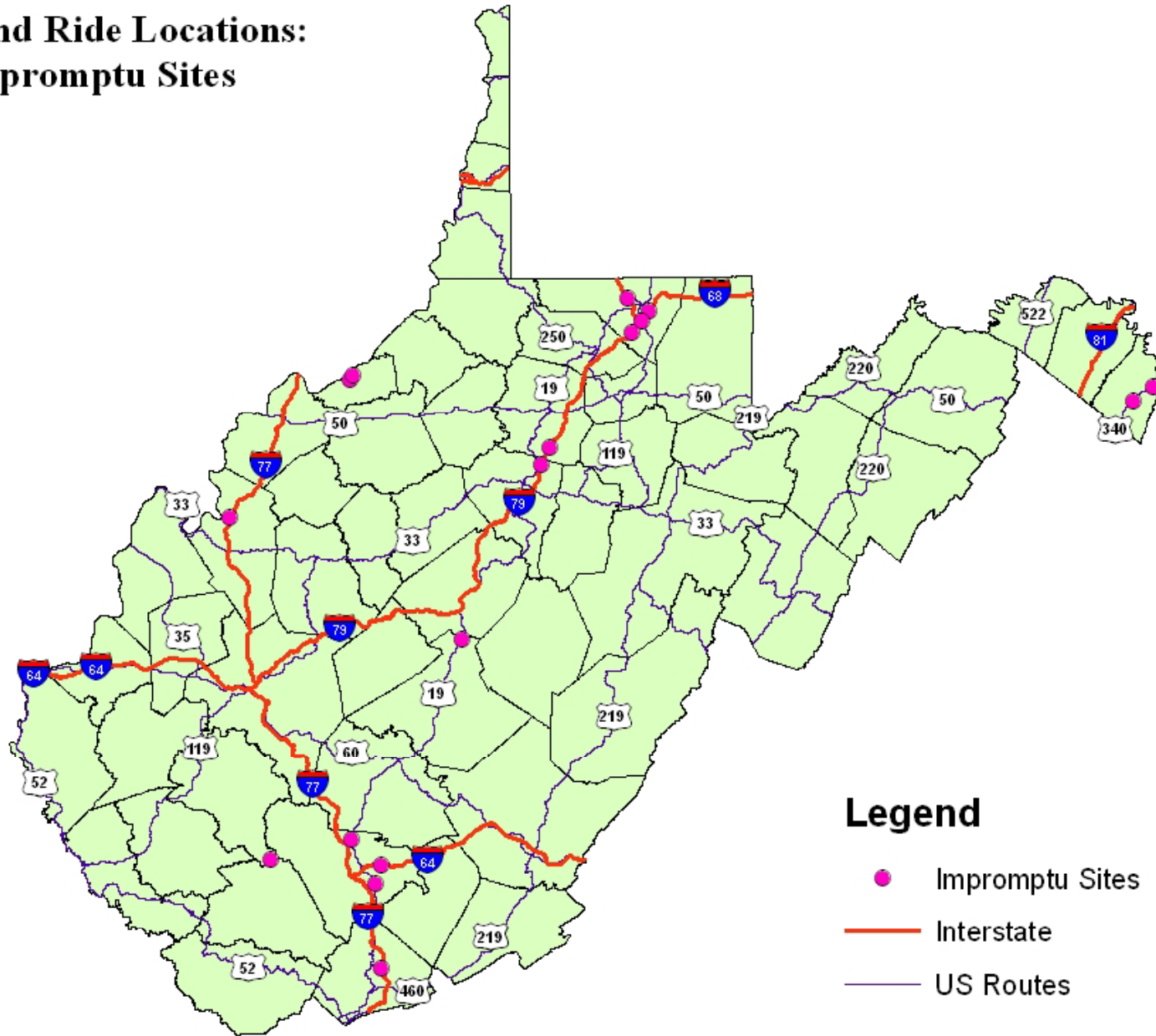
Impromptu Park and Rides

15

- *Others exist, however, our study identified/studied these.
- *Key to formation – convenient access.
- *Often at I/S of major roadways or upstream congestion points or geographic barriers to travel.



Statewide Park and Ride Locations: Impromptu Sites



P & R Usage Study

SHORT-TERM

August 10 – 14, 2009

(17 P&Rs located along I-79 & I-68)

August 17 – 21, 2009

(17 P&Rs located along I-77, I-64 & US 119)

- **Site Visit** – *Everyday during working hours 7 am and 4 pm*

LONG-TERM

Sept. 2009 – Feb. 2010

(all– 67 P&Rs)

- **Site Visit** – *Once every two weeks (on Tuesday, Wednesday, or Thursday).*

**No data was collected on Mondays or Fridays to avoid long weekends or flexible work schedules.*

Between hours of 9 am and 3 pm

Inventory of Existing Conditions

COMPLETED Existing Conditions Forms (and attached sketch).

Documented:

- Lot dimensions
- Surface type
- Number of parking stalls (if marked)
 - Width/length/angle of parking stalls
 - Driving aisle width
 - Single/double bay parking
 - Special use spaces
- Amenities (if any)
 - Guardrail
 - Site lighting
 - Security cameras
 - Fencing
 - Bike racks/lockers
 - Benches
 - Storm water control devices



Observations – Day of Site Visit

(Between 9 am and 3 pm)

Record:

- Conditions of the site
 - Environmental concerns – oil spills/leaks; trash and debris
 - Safety and security issues
 - Vandalism/crime
- Number of cars
 - Type of Cars
 - Passenger cars/light trucks/SUVs
 - Heavy duty Trucks
 - Motorcycles
 - Bicycles
- License plate numbers (and States)
- Overflow parking
 - Parking demand exceeds the available capacity of the facility and individuals are left to park along the edge of the road at the entrance or in any open space they can find.



Existing Condition Forms

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

GROUP Planning JOB NAME Park and Ride Evaluation SHEET 1 OF 3
 SUBJECT East Fairmont/Prickett Fort PREPARED BY KWS DATE 20-Jul-09
 Existing Conditions - Designated Park and Ride CHECKED BY _____ DATE _____

EXISTING CONDITIONS

WVDOH District: 4

Route ID: _____

County: Marion

Sign System: CR

Route: 33

Sub-Route: _____

Supplemental Code: _____

Mile Post: Exit 139

Facility Name: East Fairmont/Prickett Fort

Location: I-79 North Exit 139 East Fairmont

Year of Construction: 1990

Park and Ride Facility

Dimensions: 46 x 225'

Parking Space Layout:

Number of Parking Stalls:	NA
Width of Parking Stalls:	NA
Length of Parking Stalls:	NA
Angle of Parking Stalls:	NA
Driving Aisle Width:	NA
Double Bay Parking:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Single Bay Parking:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Special Use Spaces:

Compact Cars:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Motorcycles:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Surface Type: Asphalt

Guardrail:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Site Lighting:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, is it sufficient?
Security Cameras:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Fencing:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Bike Rack/Lockers:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Storm Water Controls:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, is it sufficient?

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

GROUP Planning JOB NAME Park and Ride Evaluation SHEET 2 OF 3
 SUBJECT _____ PREPARED BY _____ DATE _____
 Existing Conditions - Designated Park and Ride CHECKED BY _____ DATE _____

Is Transit Service Available: Yes No

If yes:

Agency: _____

Type: _____

Schedule: _____

Is there Room for Expansion: Yes No 40% 50' If yes, how large of an area?

Is a Bike/Pedestrian Trail Connected: Yes No

Is the Facility in the WVDOH Right-of-Way: Yes No

If yes, it is a:

Non CA RW:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
CARW:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Last Date of Resurfacing: Never

Are Park and Ride Signs Posted: Yes No

If yes, where: _____

Point of Contact

Name, Unit & Title: Norman Cunningham, I-79 Goshen Road Superintendent

Phone: (304)285-3208

Email: Norm.R.Cunningham@wv.gov

Provide the following information

1. Sketch

Lot Dimensions

Parking Space Layout with Dimensions

Location of Special Use Spaces, Bike racks/lockers, Guardrail, Fencing, Lighting, Shelter, etc.

Entrances and Exits

Flow Pattern

Nearby Routes

Adjacent Properties

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

GROUP Planning JOB NAME Park and Ride Evaluation SHEET 3 OF 3
 SUBJECT _____ PREPARED BY _____ DATE _____
 Existing Conditions - Designated Park and Ride CHECKED BY _____ DATE _____

2. Digital Photos of Site

3. Aerial Photographs (if readily available)

Comments:

Observation Forms

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

GROUP Planning JOB NAME Park and Ride Evaluation SHEET 1 OF 3
 SUBJECT East Fairmont / Pricketts Fort PREPARED BY RBM DATE 12/09/09
 Observations - Designated Park and Ride CHECKED BY _____ DATE _____

OBSERVATIONS

WVDOH District: 4

Facility Name: East Fairmont / Pricketts Fort
 Location: I-79 Exit 139 NB

Observer
 Name, Unit & Title: Dennis LeRoy, D-4 Design
 Phone: 304-842-1592
 Email: dennis.leroy@wv.gov

Date (mon/day/yr): 9-Dec-09
 Day of Week: Wednesday
 Time: 12 : 30
am X pm

Weather Conditions: 55° Sunny

Is there Off-Site Directional Signing: yes X no
 If yes, is it:
 Suitable: _____
 Condition: _____
 Recommended Changes: _____

Occupancy

Total Number of Vehicles (Cars, Trucks, Motorcycles, and Bicycles):	<u>24</u>
Passenger Cars:	<u>9</u>
Light Trucks:	<u>15</u>
Heavy Duty Trucks:	<u>-</u>
Motorcycles:	<u>-</u>
Bicycles:	<u>-</u>

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

GROUP Planning JOB NAME Park and Ride Evaluation SHEET 2 OF 3
 SUBJECT East Fairmont / Pricketts Fort PREPARED BY RBM DATE 12/09/09
 Observations - Designated Park and Ride CHECKED BY _____ DATE _____

General Site Observations

Trash Receptacles on site: X yes no
 Trash Present on Ground: X yes no
 If yes, Type of Trash Present: Minor Litter

Surface Conditions: Good

Striping Conditions: N/A

On-Site Signage Conditions: N/A

Fencing Conditions: N/A

Guardrail Conditions: Good

Site Lighting Conditions: N/A

Condition of Storm Water Control Devices: N/A

Is the Site Mowed: X yes no N/A

Is the Site Landscaped: yes X no
 If yes, what is the condition of the landscaping: _____

Signs of Erosion: yes X no

Signs of Flooding: yes X no

Signs of Ponding Water: yes X no

Are there Sight Distance Obstructions: yes X no
 Explain: _____

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

GROUP Planning JOB NAME Park and Ride Evaluation SHEET 3 OF 3
 SUBJECT East Fairmont / Pricketts Fort PREPARED BY RBM DATE 12/09/09
 Observations - Designated Park and Ride CHECKED BY _____ DATE _____

Evidence of Crime and/or Vandalism: yes X no

Evidence of Overflow Parking: X yes no
 If yes, number of vehicles: 9

Evidence of Accidents: yes X no

Evidence of Environmental Concerns (i.e. vehicles leaking fluids): X yes no
 Explain: Large Oil Spots

Evidence of Broken Down Vehicles: yes X no

Evidence of Loitering in Lot: yes X no

Comments / License Plate Numbers (and States):

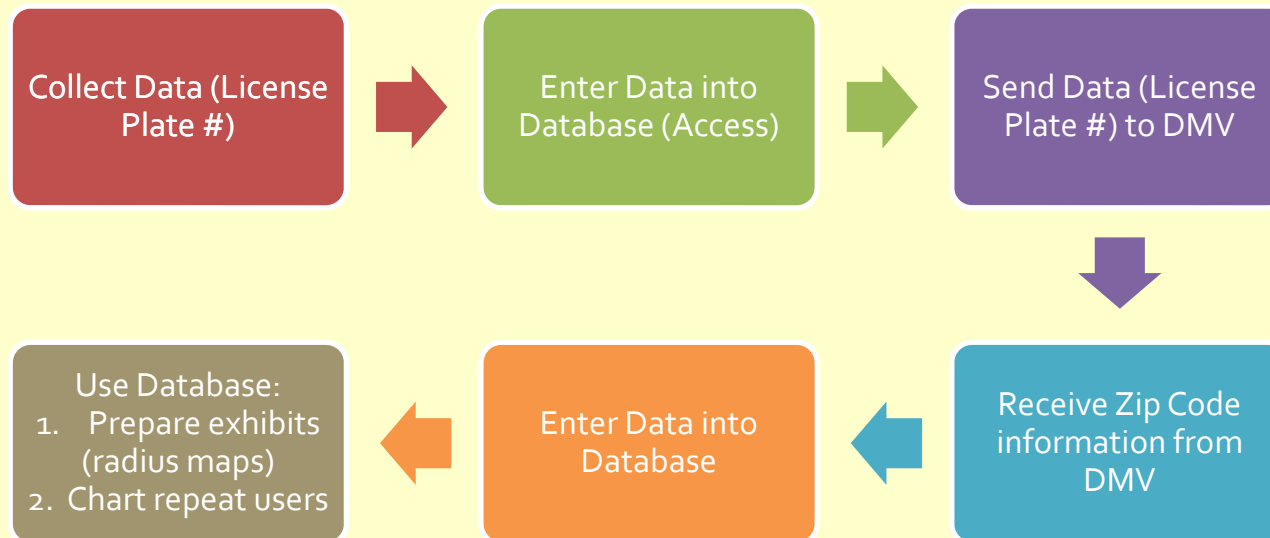
WL2 0995 (WV)	81S 636 (MD)	NLS 447 (WV)
9MZ 975 (WV)	7DR 372 (WV)	NET 550 (WV)
9NK 110 (WV)	4J8 196 (WV)	4EA 705 (WV)
4NT 147 (WV)	4MW 383 (WV)	2BH 954 (WV)
CGJ 500 (WV)	BK A 529 (WV)	6GB 663 (WV)
9V 7772 (WV)	8S2 299 (WV)	2FP 656 (WV)
5T4 356 (WV)	7PB 352 (WV)	9GD 581 (WV)
UBILL (WV)	RG4 231 (TX)	3JC 171 (WV)

OVER FLOW:

7KW 523 (WV)	EXY 0291 (PA)	1CR 804 (WV)
OTW 266 (WV)	2EY 987 (WV)	9NM 417 (WV)
1CR 804 (WV)	3LA 509 (WV)	NY 9320 (WV)

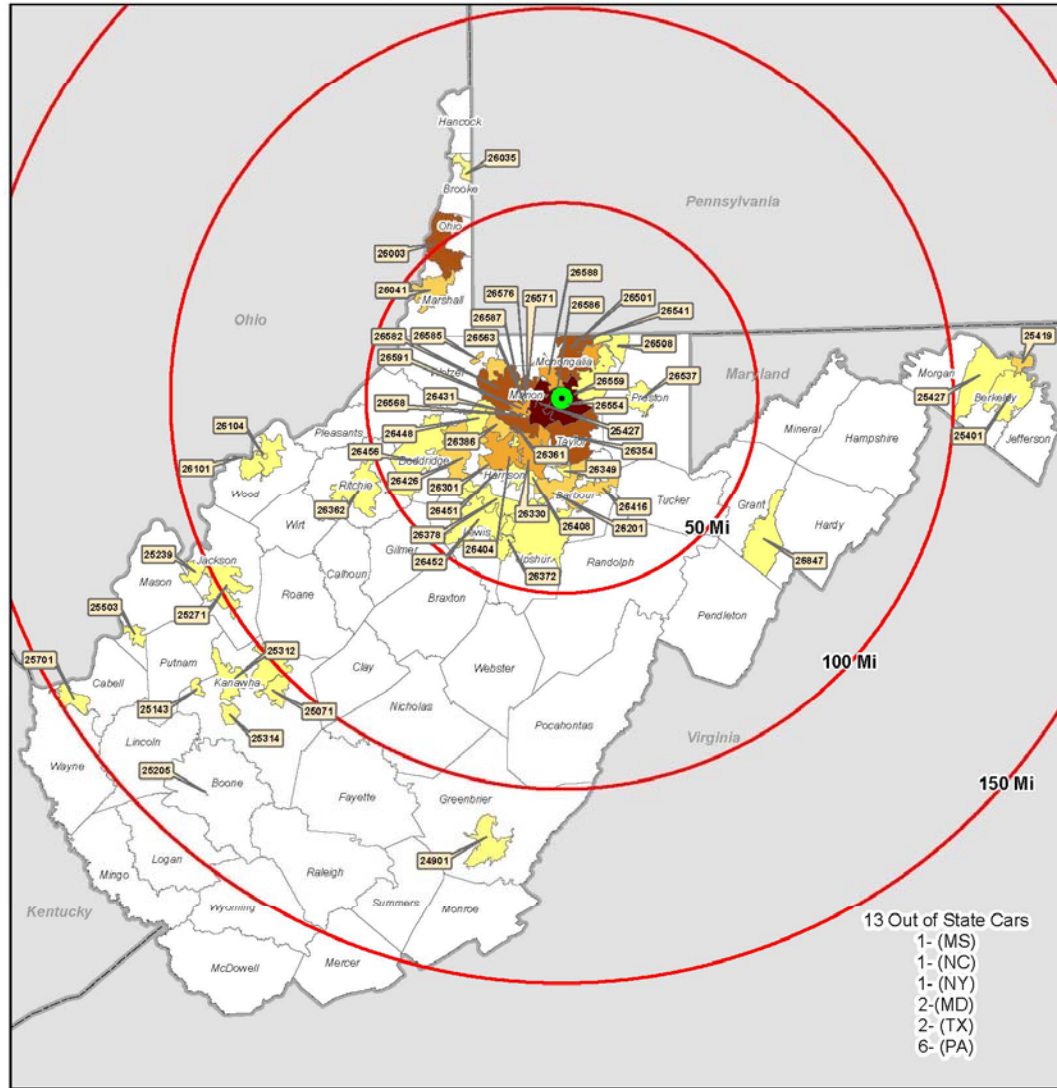
Attach
 List of License Plate Numbers (and States)

Data Processing



WVDOT Park and Ride Study

I-79 Exit 139, CR 33 East Fairmont / Pricketts Creek



0 12.5 25 50 Miles



August 2009 to February 2010

Origin of Cars Reported at Park and Ride.*

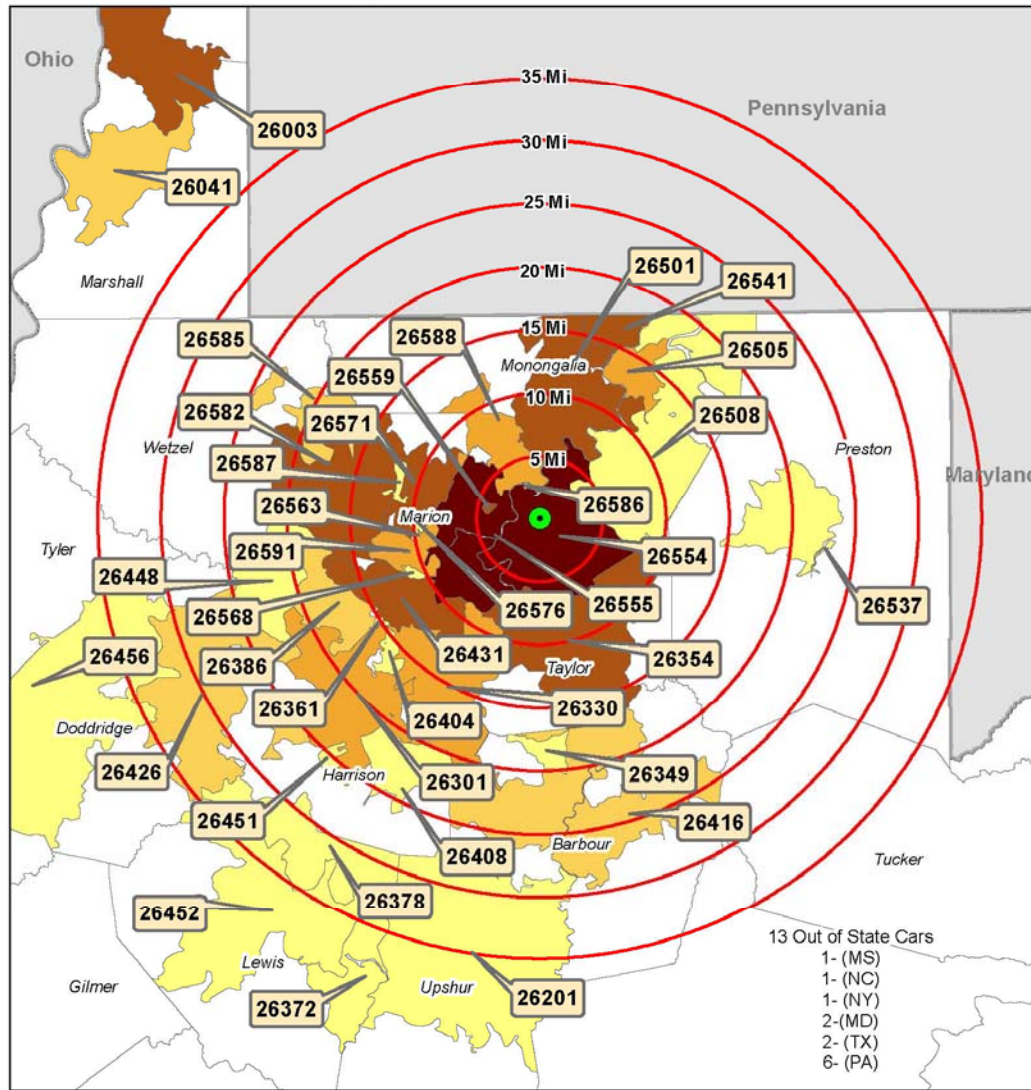
- 1 - 2
- 3 - 4
- 5 - 6
- 7 - 13
- 14 - 237

- Park and Ride Location
- Counties
- States
- Distance From Park and Ride

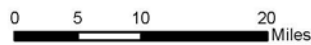
* Repeat Users were counted each time they visited the Facility.

WVDOT Park and Ride Study

I-79 Exit 139, CR 33 East Fairmont / Pricketts Creek



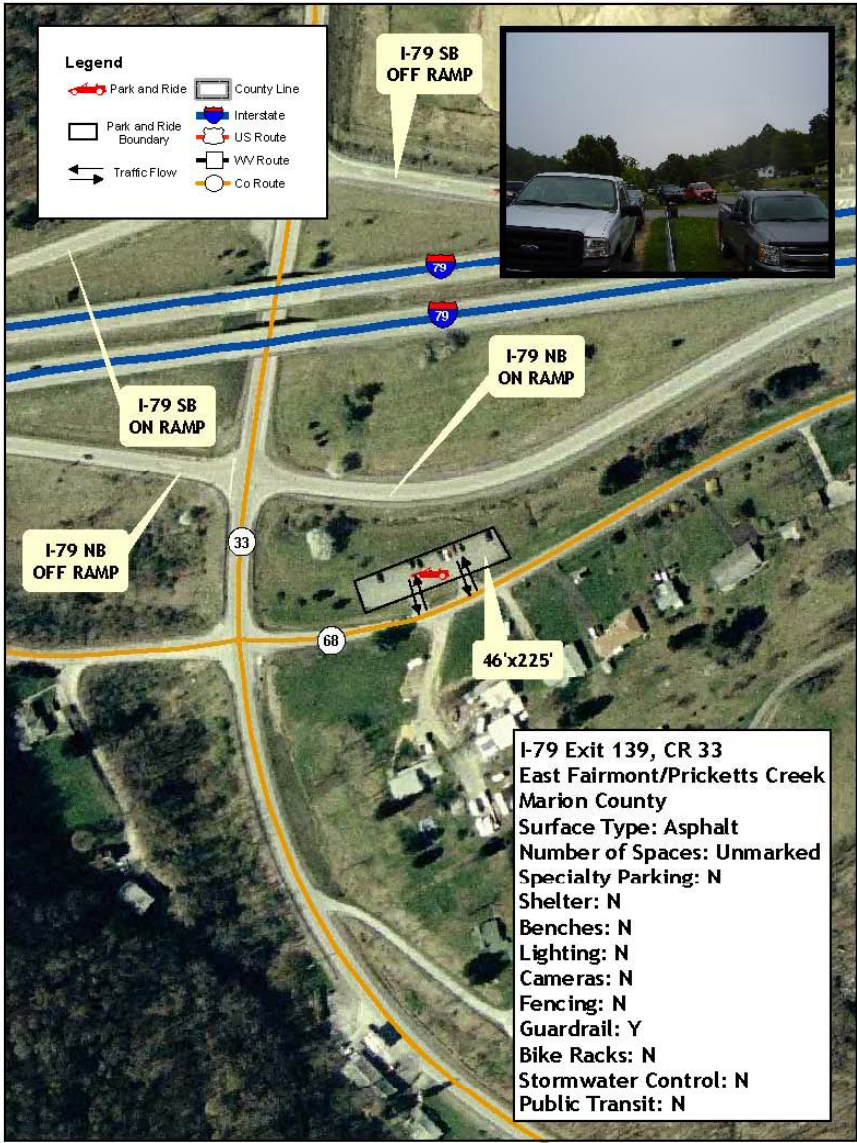
August 2009 to February 2010



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WVDOT Park and Ride Study

I-79 Exit 139, CR 33 East Fairmont/Pricketts Creek

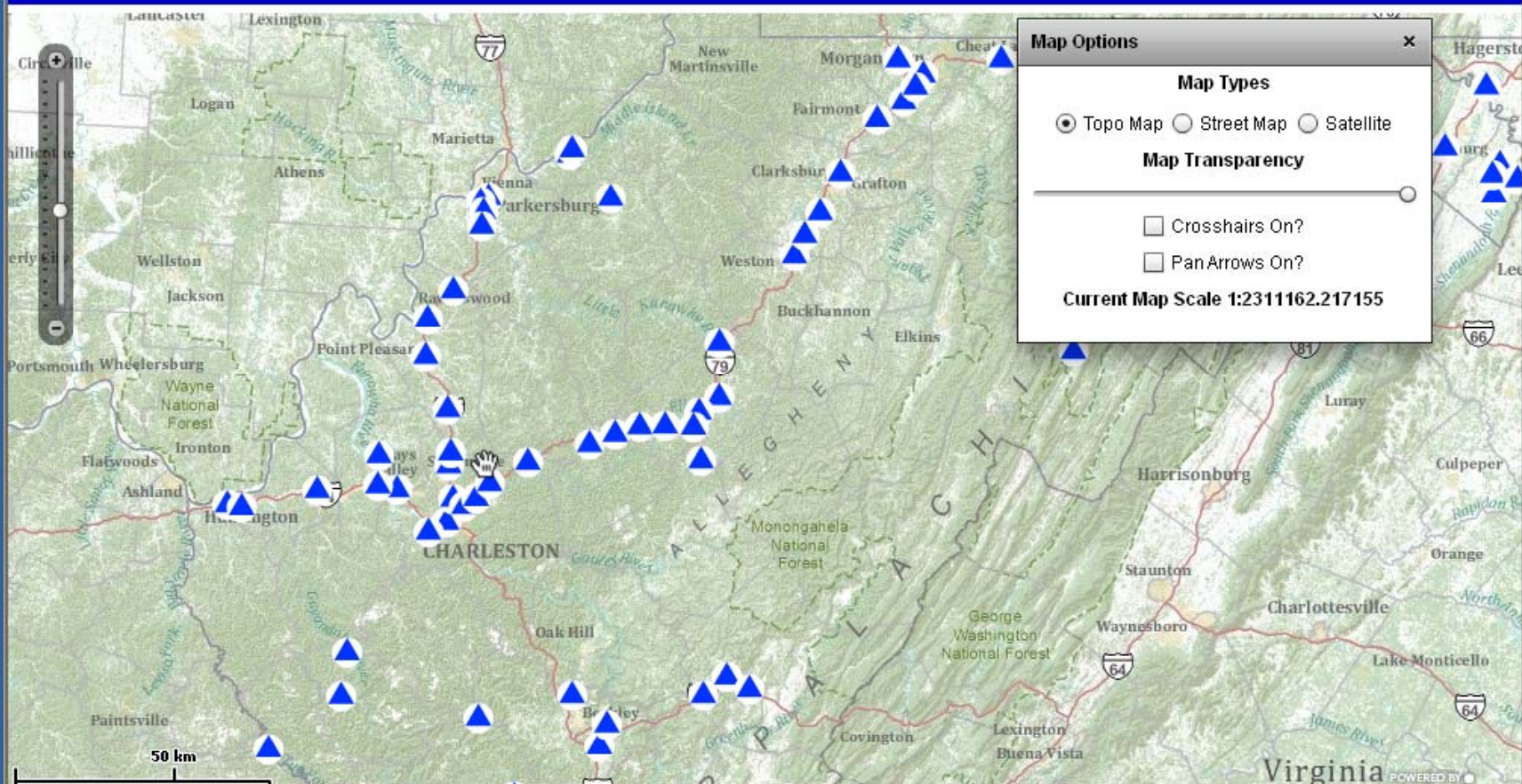


<http://gis.wvdot.com/prmap/parknride.html>

Demonstration

WVDOH Park And Rides

About Map Options



Map Options

Map Types

Topo Map Street Map Satellite

Map Transparency

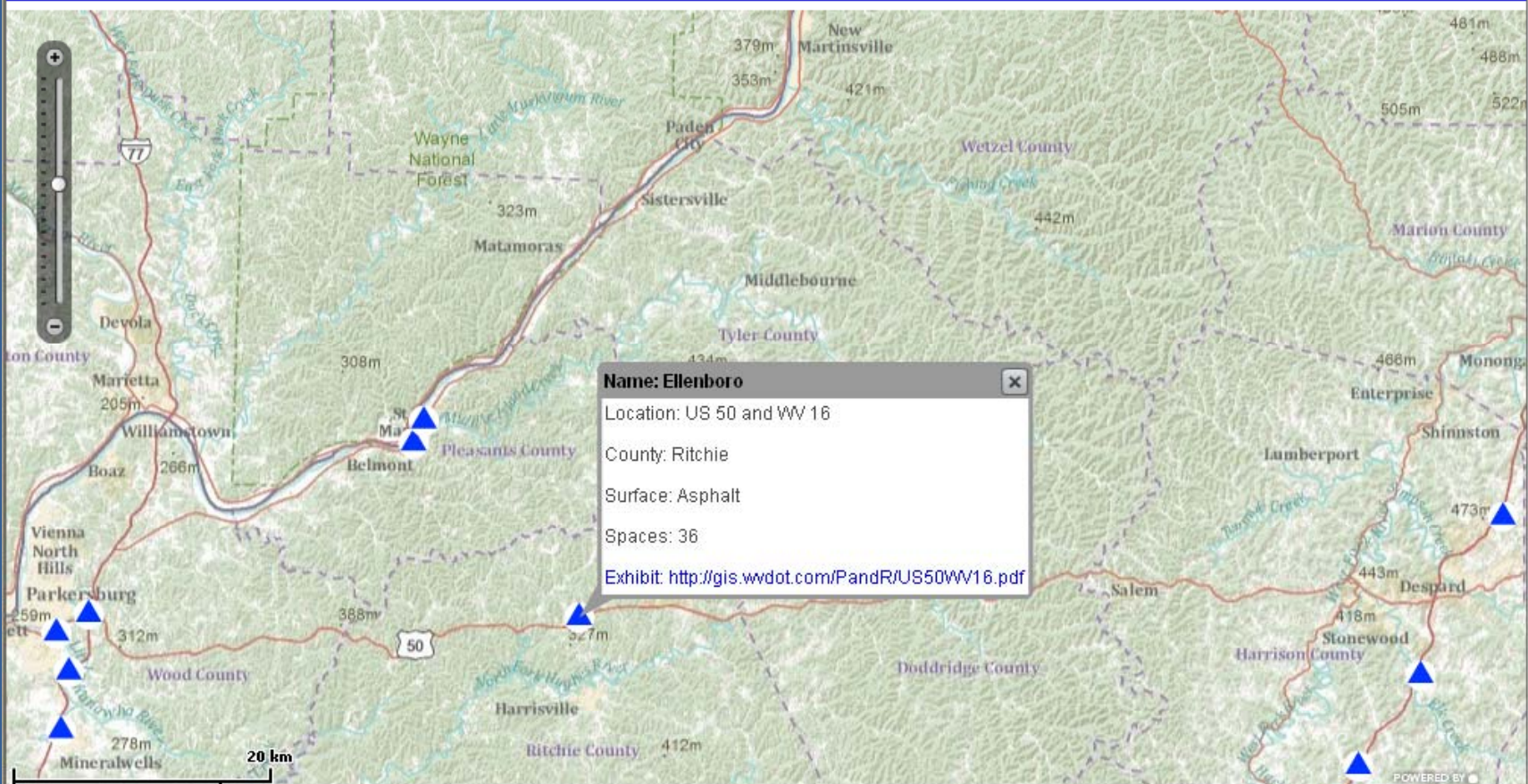
Crosshairs On?

Pan Arrows On?

Current Map Scale 1:2311162.217155

WVDOH Park And Rides

About Map Options

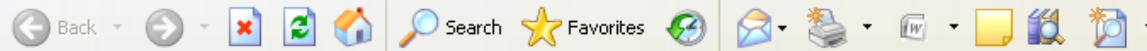


WVDOT US 50 and WV 16 Park and Ride Study Ellenboro



http://gis.wvdot.com/prmap/parknride.html - Microsoft Internet Explorer

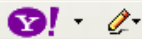
File Edit View Favorites Tools Help



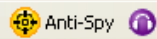
Address <http://gis.wvdot.com/prmap/parknride.html>

Go

Links >>



Search Web

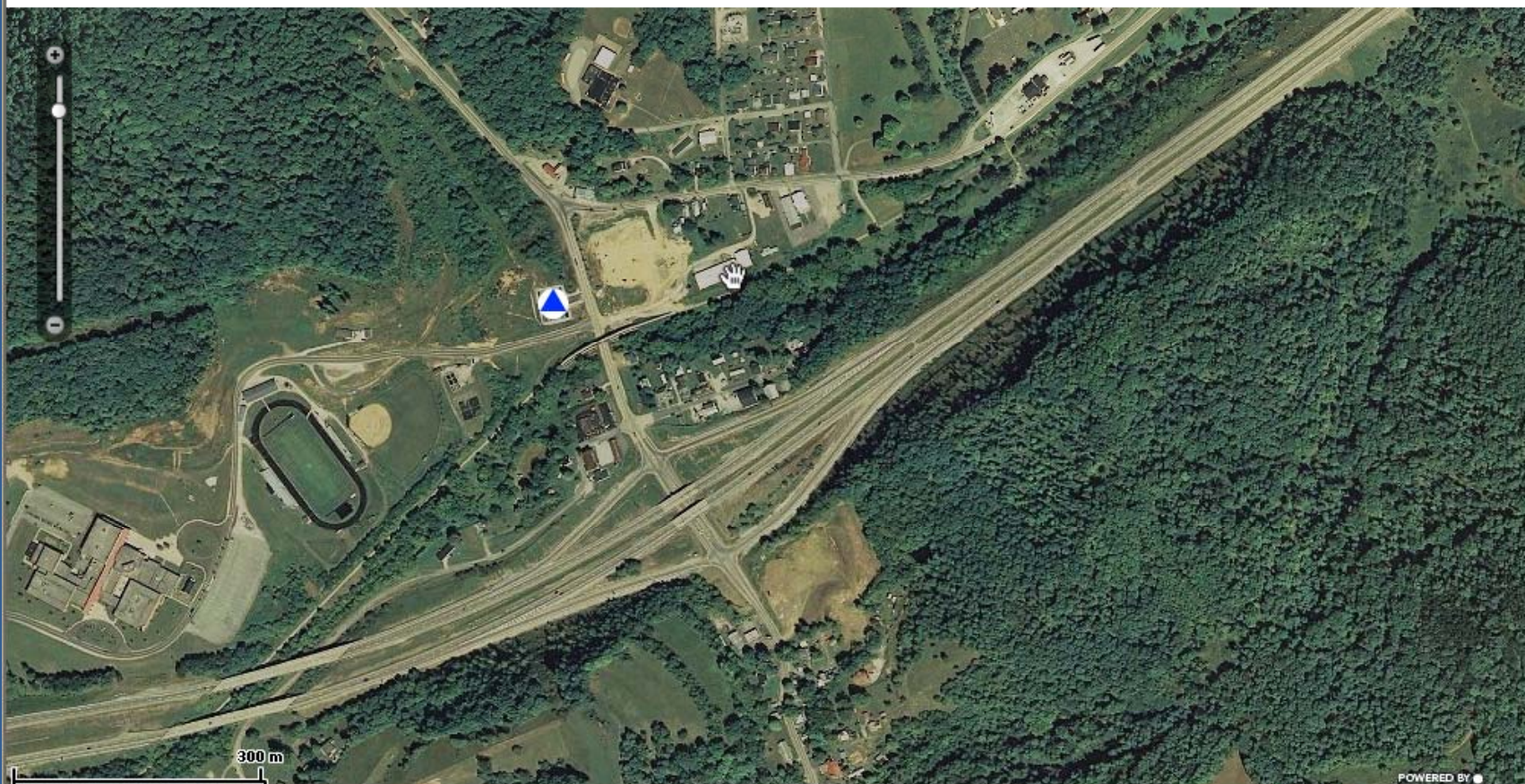


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Convert Select

WVDOH Park And Rides

[About](#) [Map Options](#)



Done



Internet

Conclusions – Capacity Issues

Milton	Ripley	Ellenboro	Shinnston/Saltwell	East Fairmont/Pricketts Creek	Bruceton Mills
Overflow Parking	Overflow Parking	Overflow Parking	Overflow Parking	Overflow Parking	Overflow Parking
At or >95% Capacity	At or >95% Capacity	At or >95% Capacity			

Conclusions – Inadequate Signage

***NO** signs placed to notify potential users on their normal routes and guide them to the park and ride facilities.*

*(Majority of Park and Ride Users are **REPEAT USERS!**)*

FFY 2011 STIP Improvements

Park and Ride Expansions:

- Milton
- East Fairmont/Pricketts Creek
- Shinnston/Saltwell



Signage

Add Park and Ride guide signs designed in accordance with the *Manual on Uniform Traffic Control Devices* (MUTCD).





Thank you!

