Government Map Services for Business and Industry

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Smith College
Northampton, MA
May 22, 2012
Items for Discussion

• First Generation Map Services
  • ESRI/ArcIMS
  • Purpose/Intended Users

• Data Centric vs. Service Centric
  • Thematic Services

• Acceptance of WMS & OGC formats

• Viewer Independence

• Validation from Business & Industry

• Pros & Cons
Mapping Westchester County (MapServer)

View In:  ArcMap  ArcGIS Explorer  ArcGIS JavaScript  Google Earth  ArcGIS.com Map

View Footprint In:  Google Earth

Service Description: Mapping Westchester County: a comprehensive and dynamic map service with over 200 layers: environmental features, community facilities, political boundaries, transportation, census boundaries and demographics, emergency zones, and 'green' facilities and services. Includes some local municipal data layers.

Map Name: Layers

Legend

All Layers and Tables

Layers:

- Pharmacies (0)
- Supermarkets (1)
- Dining (2)
- Theaters Tourism (3)
- Hotels (4)
- Alternative Energy (5)
- Environmental Engineering (6)
- Coyote Sightings (7)
- Food Stores (8)
- Playgrounds (9)
- Swimming Pools (10)
- Recreation Centers (11)
- Sport Fields (12)
- Fitness Centers (13)
- Traffic Cameras (14)
- Cemeteries (15)
- County Health Offices (16)
- Court Houses (17)
- Gas Stations (18)
- Libraries (19)
Folder: /

Current Version: 10.03

View Footprints In: Google Earth

Services:

- 2PtContours (MapServer)
- AffordableHousing (MapServer)
- CADWMS (MapServer)
- Census (MapServer)
- CommunityFeatures (MapServer)
- DigitalElevationModel (MapServer)
- DigitalSurfaceModel (MapServer)
- EnvironmentalFeatures (MapServer)
- Geometry (GeometryServer)
- InfrastructureFeatures (MapServer)
- Mapa de WestchesterCounty (MapServer)
- MappingWestchesterCounty (MapServer)
- MappingWestchesterCounty_AerialPhoto1947 (MapServer)
- MappingWestchesterCounty_AerialPhoto1960 (MapServer)
- MappingWestchesterCounty_AerialPhoto1975 (MapServer)
- MappingWestchesterCounty_AerialPhoto2004 (MapServer)
- MappingWestchesterCounty_AerialPhoto2007 (MapServer)
- MappingWestchesterCounty_AerialPhoto2009 (MapServer)
- MappingWestchesterCounty_Basemap (MapServer)
- MobileCommunityMap (MapServer)
- MunicipalTaxParcels (MapServer)
- Stormwater (MapServer)
- WestchesterCountyBaseMap_Light (MapServer)

Supported Interfaces: REST SOAP Sitemap Geo Sitemap
Service Description: Environmental Features: protected areas, sensitive features (soils, wetlands, slopes, etc.), and state- or federally-regulated activities (i.e., wastewater discharge), on a basemap elevation model.

Map Name: Layers

Legend

All Layers and Tables

Layers:

- County Sewage Treatment Plants (0)
- Hazardous Waste Sites (1)
- Sewage Treatment Facilities (Private) (2)
- SPDES Permits (3)
- Toxic Release Inventory (EPA) (4)
- Streams (5)
- Generalized Zoning (6)
- Fish and Wildlife Habitats (7)
- Critical Environmental Areas (8)
- National Wetlands Inventory (9)
- Hydric Soil Wetlands (10)
- NYS Regulated Wetlands (11)
- Open Space (12)
- Tidal Wetlands (13)
- Aquifers (14)
- Floodplains (15)
- Steep Slopes (16)
- Drainage Basins (17)
- Major Watersheds (18)
- Land Use (19)
- Water Districts (20)
- County Sewer Districts (21)
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- Planning & Zoning
- Property Assessment
- Tax Collection
- Gravance/Small Claims/Carcasses
- Utility Billing
- Clerk Vitals & Licensing

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Welcome

Mission

SDG provides real property, imaging and GIS centric software and systems integration services to government, education and private sector companies. The main pillar of the SDG business model is our focus on assisting our clients to properly apply the appropriate technologies to cost effectively improve services while reducing operational costs. The proper blend of expertise in imaging, GIS and workflow systems tools are applied to assist our clients to “do more with less” during challenging economic times. SDG’s trademark collaborative approach includes a long and growing list of real world success stories with State, County and Municipal government agencies. Working in concert with a host of expert business partners further increases our client’s return on investment (ROI) in 100% of SDG projects.

Results

If you work in a real property or county clerk’s office, then our software will make your job easier and, hopefully, a little bit more fun. If you own property in New York State, our Image Mate Online software can show you (almost) everything you could want to know about it. (And we’re working on that “almost” part.)

SDG software in action
## Municipality of City of Yonkers

**SWIS:** 551500  
**Tax ID:** 6-6326-3

### Tax Map ID / Property Data

<table>
<thead>
<tr>
<th>Status</th>
<th>Active</th>
<th>Roll Section</th>
<th>Taxable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>24 Grant St</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Property Class</td>
<td>220 - 2 Family Res</td>
<td>Site Property Class: 220 - 2 Family Res</td>
<td></td>
</tr>
<tr>
<td>Site</td>
<td>Res 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zoning Code</td>
<td>S-50 -</td>
<td></td>
<td></td>
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<tr>
<td>Neighborhood</td>
<td>00028 - Kimball</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Legal Property Description</td>
<td>Legal description not given for property</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Acreage/Size</td>
<td>0.05</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equalization Rate</td>
<td>2012 - 3.35%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Land Assessment</td>
<td>2012 - $1,800</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Assessment</td>
<td>2012 - $10,100</td>
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<td></td>
</tr>
<tr>
<td>Full Market Value</td>
<td>2012 - $301,493</td>
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<td></td>
</tr>
<tr>
<td>Market Value/sqft.</td>
<td>2012 - $537</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deed Book</td>
<td>45292</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deed Page</td>
<td>437</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gnd East</td>
<td>670353</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gnd North</td>
<td>759281</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Special Districts for 2012

**Historic Tax Map**  
Sec: 6, Block: 6326, Pg: 55

**Pin Property on GIS Map**
## Municipality of Village of Pelham Manor

### Tax Map ID / Property Data

<table>
<thead>
<tr>
<th>Status</th>
<th>Active</th>
<th>Roll Section</th>
<th>Taxable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>40 Forest Rd</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Property Class</td>
<td>210 - 1 Family Res</td>
<td>Site Property Class:</td>
<td>210 - 1 Family Res</td>
</tr>
<tr>
<td>Site</td>
<td>Res 1</td>
<td>In Ag. District:</td>
<td>No</td>
</tr>
<tr>
<td>Zoning Code</td>
<td>RAAA -</td>
<td>Bldg. Style:</td>
<td>Colonial</td>
</tr>
<tr>
<td>Neighborhood</td>
<td>00017</td>
<td>School District:</td>
<td>Pelham</td>
</tr>
<tr>
<td>Legal Property Description</td>
<td>Lot 10.1 15740 Sq Ft 4. - 461 - 010.1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Total Acreage/Size:** 308 x 51
- **Equalization Rate:** 2011 - 100.00%
- **Land Assessment:** 2011 - $363,000
- **Total Assessment:** 2011 - $870,000
- **Full Market Value:** 2011 - $870,000
- **Deed Book:** 48031
- **Deed Page:** 239
- **Gnd East:** 685364
- **Gnd North:** 748958

### Special Districts for 2011

<table>
<thead>
<tr>
<th>Description</th>
<th>Units</th>
<th>Percent</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
</table>

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### Photographs

(Click on photo to enlarge it)

- **40 Forest Road**
Map Services for Developers

Map Services for Developers
Service Center > Map Services > For Developers

The ArcGIS Server REST API provides a simple, open web interface to services hosted by ArcGIS Server. From the ArcGIS Server REST page you can view Map Server in ArcGIS as a layer file (. lyr), in ArcGIS Explorer as map file (. mxd) or in Google Earth as a kmz file. You can also view map service information such as layer names and supported interfaces.

**Note** Some layers are scale dependent and will only display when zoomed in close enough.

Available map services

<table>
<thead>
<tr>
<th>Mapping Westchester County</th>
<th>Map Service for AutoCAD Users</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mapping Westchester County - Base Map</td>
<td>Mapa de Westchester County (Spanish users)</td>
</tr>
<tr>
<td>Mapping Westchester County Base Map - Light</td>
<td>Aerial Photos 1947-2009</td>
</tr>
<tr>
<td>Municipal Tax Parcels</td>
<td>Environmental Features</td>
</tr>
<tr>
<td>Digital Elevation Model</td>
<td>Digital Surface Model</td>
</tr>
</tbody>
</table>

Disclaimer: Map services are to be used for general information and planning purposes only, and should not be relied upon as a sole informational source. The County of Westchester hereby disclaims any liability for any and all damage, loss, or liability which may result, directly or indirectly, from the use of this GIS mapping system by any person or entity.

Mapping Westchester County

The Mapping Westchester County map service contains over 150 features such as environmental features, facilities and services, district boundaries, transportation features, census demographics and much more.

**Map Service REST Endpoint**

http://giswww.westchestergov.com/ArcGIS/rest/services/
MappingWestchesterCounty/MapServer
Type: Dynamic

WMS

http://giswww.westchestergov.com/ArcGIS/services/MappingWestchesterCounty/
MapServer/WMS?
Request=GetCapabilities&service=WMS

Mapping Westchester County - Base Map

Mapping Westchester County - Base Map map service includes several county base layers including municipal boundaries, public schools, train stations, lakes and parks.

**Map Service REST Endpoint**

http://giswww.westchestergov.com/ArcGIS/rest/services/
MappingWestchesterCounty_BaseMap/MapServer
Type: Tiled

WMS
Summary

• Highlights and leverages ArcGIS Server functionality
  • w/ Viewer independence
• Furthers movement towards data as a service (DaaS)
• Significantly expands user base
• Reduces local government investment & expenditures
  • Efforts to quantify cost savings/ROI
• Promotes GIS as “business friendly”
• Increases visibility and responsibility
  • New space for government GIS web applications
Questions

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