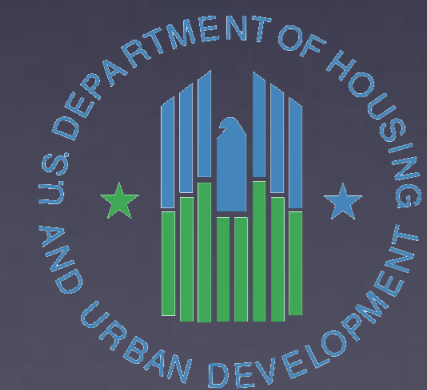


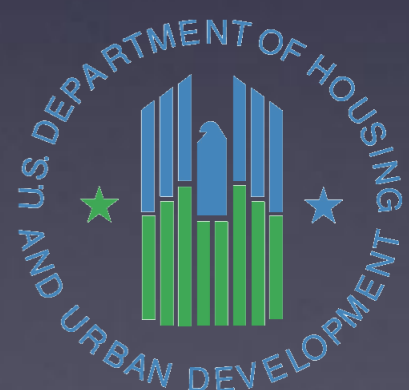
Mapping Local Foods

GROWashington-Aroostook

Tora Johnson, Lisa Ravis and Laura Teisl
GIS Laboratory University of Maine at Machias
giscenter@maine.edu / 207.255.1214



This project was supported by the United States Department of Housing and Urban Development under a Sustainable Communities Regional Planning grant. The opinions, findings, conclusions and recommendations herein do not necessarily represent the official position or policies of the United States Government.



Elements of Web-Based GIS

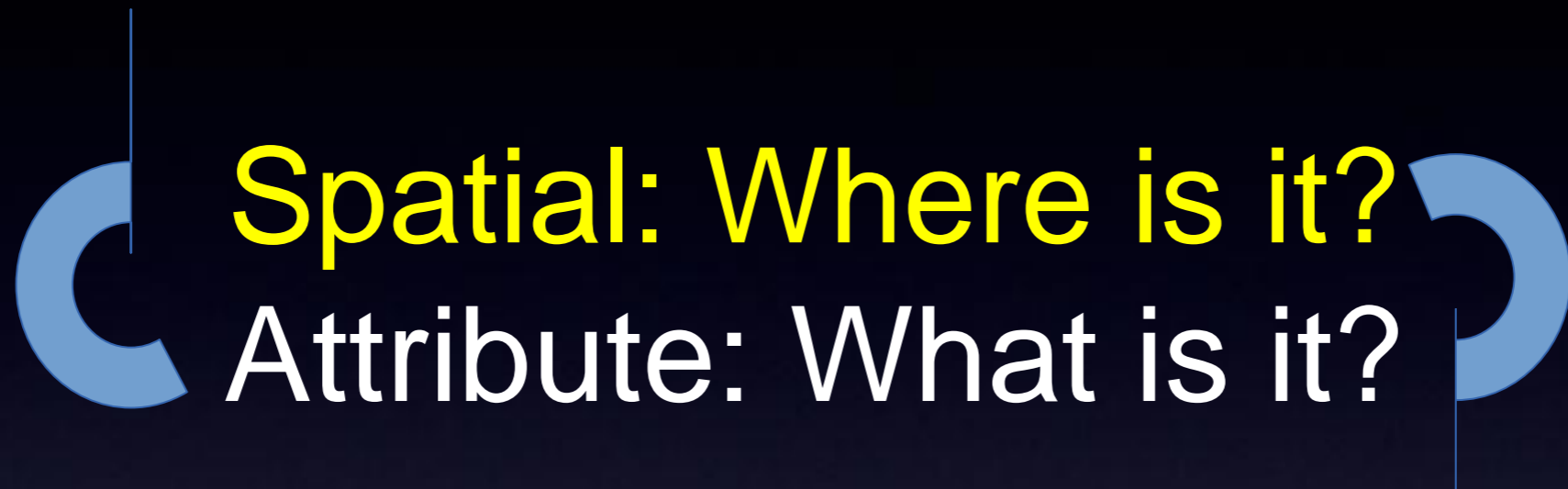
- Geographic data: Info about where things are & what's there.
- Layers: Groups of similar features stored on computer or web
- Map: Layers collected using GIS software
- Map App: Web page for user interface and special functions or tools

Geographic Information

Spatial: Where is it?
Attribute: What is it?

Bangor Farmers' Market	144 Harlow St	Bangor	Maine	04401	44.8043111	-68.7722968		farmers' market
Barney's Cove Lobster Company	7 Wharf St.	Beals	Maine	04611	44.5211623	-67.6170482		seafood counter
Barrels Community Market	74 Main St	Waterville	Maine	04901	44.5496538	-69.630107		specialty food store
Bath Farmers' Market	91 Commercial Street	Bath	Maine	04345	43.9148211	-69.8134458		farmers' market
Bath Natural Foods	36 Centre St	Bath	Maine	04345	43.9126177	-69.8151145		health food store
Bath Winter Farmers' Market	150 Congress Avenue	Bath	Maine	04345	43.9147139	-69.831073		farmers' market
Bayside Chocolates	43 Water Street	Lubec	Maine	04652	44.8567735	-66.9821914	baysidechocolates.com	specialty food producer
Bayside Shop N Save	35 Main St	Milbridge	Maine	04658	44.5377856	-67.8813718		supermarket
Beach Pea Baking Company	53 State Rd	Kittery	Maine	03904	43.090093	-70.7493439		specialty food producer
Beauregard Farm	1292 West St	Big Lake Twp	Maine	04668	45.1847941	-67.6050506	truecalling-truewonder.bl	farm
Beauty of the Earth Farm	100 Ridge Road	Robbinston	Maine	04671	45.0487944	-67.1412133	beautyoftheearth.com	farm
Beddington Ridge Farm	1951 State Hwy 193	Beddington	Maine	04622	44.797944	-68.0412002	beddingtonridgefarm.com	farm specialty food producer
Bedlam Farm	311 South Edmunds Road	Edmunds Twp	Maine	04628	44.8834108	-67.2577659		farm
Belfast Coop Store	123 High St	Belfast	Maine	04915	44.4263337	-69.0054473		health food store restaurant serving local food
Belfast Farmers' Market	256 High St.	Belfast	Maine	04915	44.4295355	-69.0138817		farmers' market
Belgrade Lakes Farmers' Market	137 Main St	Belgrade	Maine	04917	44.5280847	-69.887869		farmers' market
								farm
Bella Terra Farm	98 Cutler Road	East Machias	Maine	04630	44.7378681	-67.3881624		
Bethel Farmers' Market	1 Park St	Bethel	Maine	04217	40.1492396	-74.1079472		farmers' market

Geographic Information



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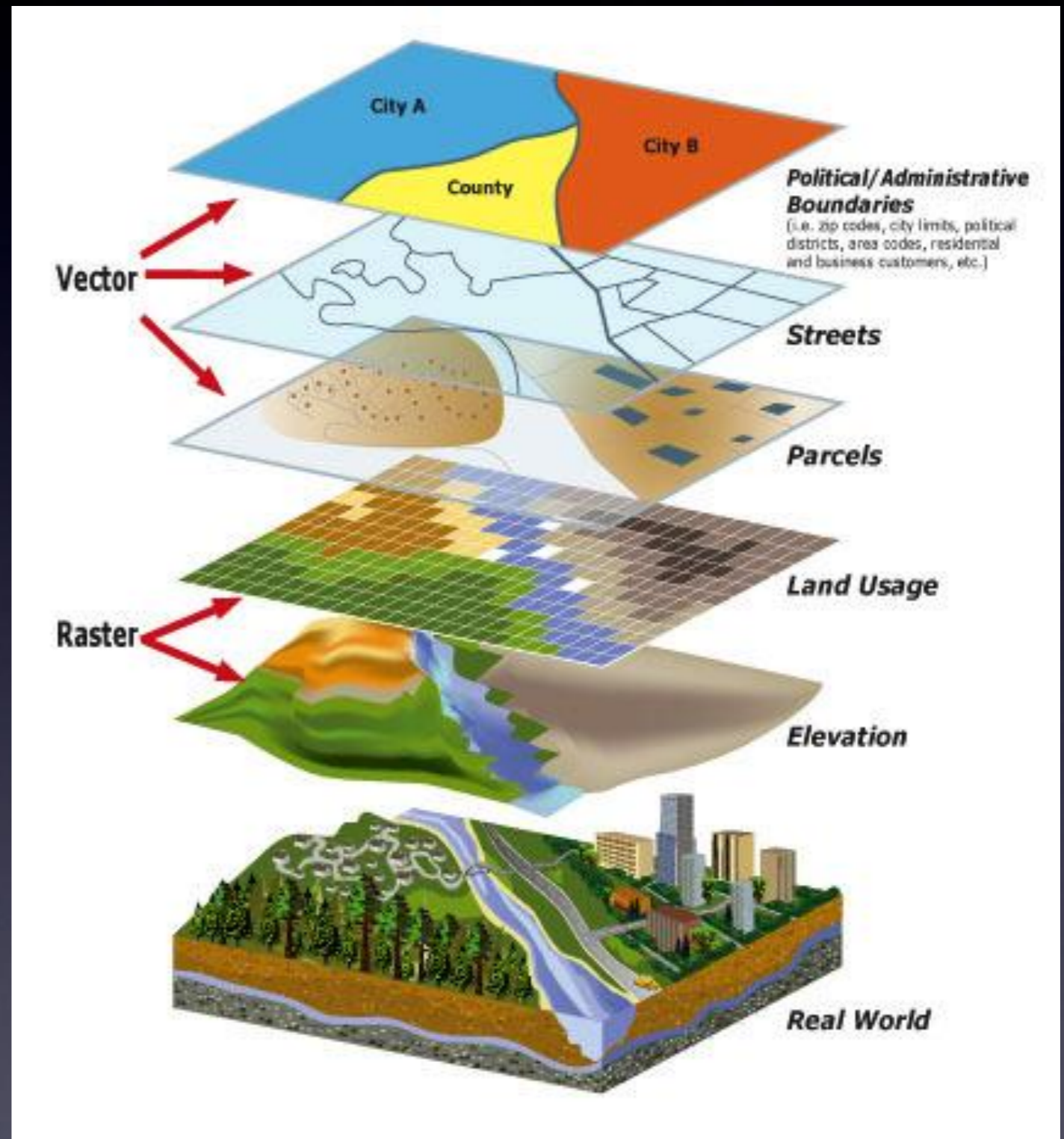
Geographic Information

Spatial: Where is it?
Attribute: What is it?

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Geographic Information Systems

- Computer-based mapping technology
- Layers of geographic data
- Mix & match
- Analyze & Query



Web-Hosted GIS Layers

- Data layers to mix & match
- Stored on a server
- Can come from many sources
- Add to web or desktop maps

ArcGIS REST Services Directory

[Home](#) > [services](#) > [Atlas](#)

[JSON](#) | [SOAP](#)

Folder: Atlas

Current Version: 10.11

View Footprints In: [ArcGIS.com Map](#)

Services:

- [Atlas/conservation](#) (MapServer)
- [Atlas/hydrography](#) (MapServer)
- [Atlas/infrastructure](#) (MapServer)
- [Atlas/mainetownshipboundaries](#) (MapServer)
- [Atlas/mainetownshipboundaries](#) (MapServer)
- [Atlas/NG911_composite](#) (Geocode)
- [Atlas/PrincetonTest](#) (MapServer)
- [Atlas/publicservices](#) (MapServer)
- [Atlas/roads](#) (MapServer)
- [Atlas/shellfish](#) (MapServer)
- [Atlas/unorganizedtwpparcel](#) (MapServer)

Map Name: Layers

[Legend](#)

[All Layers and Tables](#)

[Dynamic Legend](#)

[Dynamic All Layers](#)

Layers:

- [Airports](#) (0)
- [Bridges](#) (1)
- [Substations](#) (2)
- [Boat Launches](#) (3)
- [Cell Towers](#) (4)
- [Cemeteries](#) (5)
- [Broadband Internet](#) (6)
- [Airport Runways](#) (7)

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GIS Software: Make Maps, View & Analyze Layers

The screenshot shows the ArcGIS web application interface for the 'East Machias Planning Map'. The interface includes a top navigation bar with 'HOME' and 'NEW MAP' options, and a search bar containing '38 Jacksonville Road, East Machi'. Below the navigation bar is a toolbar with icons for 'Details', 'Add', 'Basemap', 'Save', 'Share', 'Print', 'Directions', 'Measure', and 'Bookmarks'. On the left side, there is a 'Contents' panel listing various map layers, each with a checkbox and a dropdown arrow. The layers listed are: e911 Roads, Railroads, Dams, Municipal Offices, Post Offices, Libraries, Campgrounds, East Machias Shoreland Zoning, East Machias Shoreland Zoning by Parcel, shellfish, Parcels with Labels, Conserved Lands, Wetlands, Infrastructure, Public Services, Tanks Registered with DEP, and Terrain with Labels. The main map area is currently blank, with a vertical toolbar on the left containing zoom in (+), home, zoom out (-), and refresh icons. A scale bar at the bottom indicates 0, 0.1, and 0.2 miles. The bottom left corner contains links for 'Esri.com', 'ArcGIS Marketplace', 'Help', 'Terms of Use', 'Privacy', 'Contact Esri', and 'Report Abuse'. The bottom right corner features the 'POWERED BY esri' logo.

HOME ▾ East Machias Planning Map NEW MAP Tora ▾

Details Add ▾ Basemap Save ▾ Share Print Directions Measure Bookmarks 38 Jacksonville Road, East Machi X 🔍

Contents

- e911 Roads ▾
- Railroads ▾
- Dams ▾
- Municipal Offices ▾
- Post Offices ▾
- Libraries ▾
- Campgrounds ▾
- East Machias Shoreland Zoning ▾
- East Machias Shoreland Zoning by Parcel ▾
- shellfish ▾
- Parcels with Labels ▾
- Conserved Lands ▾
- Wetlands ▾
- Infrastructure ▾
- Public Services ▾
- Tanks Registered with DEP ▾
- Terrain with Labels ▾

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GIS Software: Add & Symbolize Lines

HOME ▾ East Machias Planning Map NEW MAP Tora ▾

Details Add Basemap Save Share Print Directions Measure Bookmarks 38 Jacksonville Road, East Machi X Q

Contents

- e911 Roads ▾
- Railroads ▾
- Dams ▾
- Municipal Offices ▾
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- Campgrounds ▾
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- East Machias Shoreland Zoning by Parcel ▾
- shellfish ▾
- Parcels with Labels ▾
- Conserved Lands ▾
- Wetlands ▾
- Infrastructure ▾
- Public Services ▾
- Tanks Registered with DEP ▾
- Light Gray Canvas ▾

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GIS Software: Add & Symbolize Points

The screenshot displays the ArcGIS Online interface for the 'East Machias Planning Map'. The top navigation bar includes 'HOME', 'NEW MAP', and a user profile 'Tora'. A toolbar contains icons for 'Details', 'Add', 'Basemap', 'Save', 'Share', 'Print', 'Directions', 'Measure', and 'Bookmarks'. A search bar on the right contains the text '38 Jacksonville Road, East Machi'. On the left, a 'Contents' panel lists various map layers with checkboxes: 'e911 Roads', 'Railroads', 'Dams', 'Municipal Offices', 'Post Offices', 'Libraries', 'Campgrounds', 'East Machias Shoreland Zoning', 'East Machias Shoreland Zoning by Parcel', 'shellfish', 'Parcels with Labels', 'Conserved Lands', 'Wetlands', 'Infrastructure', 'Public Services', 'Tanks Registered with DEP', and 'Light Gray Canvas'. The main map area shows a street network with labels for 'MAIN ST' and 'JACKSONVILLE RD'. Several points are plotted on the map: a red point with an 'F' icon, a green point with an 'L' icon, and a green point with a 'T' icon. A scale bar at the bottom left indicates 0, 0.1, and 0.2 miles. The bottom right corner features the Esri logo and the text 'Maine Office of Geographic Information Systems | Maine State Office of...'. The footer also includes links for 'Esri.com', 'ArcGIS Marketplace', 'Help', 'Terms of Use', 'Privacy', 'Contact Esri', and 'Report Abuse'.

GIS Software: Add & Symbolize Polygons

The screenshot displays the 'East Machias Planning Map' interface. At the top, there are navigation options: 'HOME', 'NEW MAP', and a user profile 'Tora'. Below this is a toolbar with icons for 'Details', 'Add', 'Basemap', 'Save', 'Share', 'Print', 'Directions', 'Measure', and 'Bookmarks'. A search bar on the right contains the text '38 Jacksonville Road, East Machi'. On the left, a 'Contents' panel lists various map layers with checkboxes: 'e911 Roads', 'Railroads', 'Dams', 'Municipal Offices', 'Post Offices', 'Libraries', 'Campgrounds', 'East Machias Shoreland Zoning', 'East Machias Shoreland Zoning by Parcel', 'shellfish', 'Parcels with Labels', 'Conserved Lands', 'Wetlands', 'Infrastructure', 'Public Services', 'Tanks Registered with DEP', and 'Streets'. The main map area shows a topographic map with several colored polygons: a large orange polygon following a road corridor, a green polygon along a waterway, and a yellow polygon on the right side. A scale bar at the bottom left indicates 0, 0.1, and 0.2 miles. The bottom right corner features the Esri logo and the text 'Maine Office of Geographic Information Systems | Maine State Office of...'. The bottom left corner contains links for 'Esri.com', 'ArcGIS Marketplace', 'Help', 'Terms of Use', 'Privacy', 'Contact Esri', and 'Report Abuse'.

GIS Software: Add Basemaps & Imagery

HOME ▾ East Machias Planning Map NEW MAP Tora ▾

Details Add Basemap Save Share Print Directions Measure Bookmarks 38 Jacksonville Road, East Machi X 🔍

Contents

- e911 Roads
- Railroads
- Dams
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- Parcels with Labels
- Conserved Lands
- Wetlands
- Infrastructure
- Public Services
- Tanks Registered with DEP
- Imagery with Labels

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GIS Software: Zoom & Pan

The screenshot displays the 'East Machias Planning Map' interface. At the top, there are navigation options like 'HOME' and 'NEW MAP', and a search bar containing '38 Jacksonville Road, East Machi'. A toolbar includes icons for 'Details', 'Add', 'Basemap', 'Save', 'Share', 'Print', 'Directions', 'Measure', and 'Bookmarks'. On the left, a 'Contents' panel lists various map layers with checkboxes, including 'e911 Roads', 'Railroads', 'Dams', 'Municipal Offices', 'Post Offices', 'Libraries', 'Campgrounds', 'East Machias Shoreland Zoning', 'East Machias Shoreland Zoning by Parcel', 'shellfish', 'Parcels with Labels', 'Conserved Lands', 'Wetlands', 'Infrastructure', 'Public Services', 'Tanks Registered with DEP', and 'Imagery with Labels'. The main map area shows an aerial view with a large orange-shaded area representing a specific planning zone, a river, and other geographical features. A scale bar and a north arrow are visible on the left side of the map. The bottom of the interface includes a footer with 'Esri.com', 'ArcGIS Marketplace', 'Help', 'Terms of Use', 'Privacy', 'Contact Esri', 'Report Abuse', and 'Maine Office of Geographic Information Systems | Maine State Office of...'. The Esri logo is also present in the bottom right corner.

GIS Software: Query

The screenshot displays the 'East Machias Planning Map' interface. At the top, there are navigation options like 'HOME', 'NEW MAP', and a user profile 'Tora'. A search bar contains the address '38 Jacksonville Road, East Machi'. Below the search bar is a toolbar with icons for 'Details', 'Add', 'Basemap', 'Save', 'Share', 'Print', 'Directions', 'Measure', and 'Bookmarks'. On the left, a 'Contents' panel lists various map layers, including 'e911 Roads', 'Railroads', 'Dams', 'Municipal Offices', 'Post Offices', 'Libraries', 'Campgrounds', 'East Machias Shoreland Zoning', 'East Machias Shoreland Zoning by Parcel', 'shellfish', 'Parcels with Labels', 'Conserved Lands', 'Wetlands', 'Infrastructure', 'Public Services', 'Tanks Registered with DEP', and 'Imagery with Labels'. The main map area shows an aerial view with an orange-shaded zoning overlay. A popup window is open over a parcel, displaying the following text: 'East Machias Shoreland Zoning for parcel Map 15.4 Lot 70 located at', 'Zone type: Limited Commercial', 'Zone acreage within selected parcel:', and 'The status of this town's comprehensive plan is available by clicking the image below'. Below the text is a logo for 'Washington County Council of Governments' and two buttons: 'Zoom to' and 'Get Directions'. At the bottom of the map, there is a scale bar and a green location pin. The footer includes 'Esri.com', 'ArcGIS Marketplace', 'Help', 'Terms of Use', 'Privacy', 'Contact Esri', 'Report Abuse', and 'Maine Office of Geographic Information Systems | Maine State Office of...'. The Esri logo is also present in the bottom right corner.

GIS Software: Measure, Analyze

HOME ▾ East Machias Planning Map NEW MAP Tora ▾

Details Add ▾ Basemap Save ▾ Share Print Directions Measure Bookmarks 38 Jacksonville Road, East Machias, Maine X Q

About Content Legend

Contents

- e911 Roads ▾
- Railroads ▾
- Dams ▾
- Municipal Offices ▾
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- Campgrounds ▾
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- Conserved Lands ▾
- Wetlands ▾
- Infrastructure ▾
- Public Services ▾
- Tanks Registered with DEP ▾
- Imagery with Labels ▾

Find area, length, or location X

Measurement Result

0.2 Miles

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Web Map App: Special Web Page, Simple Interface

Maine's Local Food Network A resource for buyers and sellers of local food in Maine.

About The Project | Map Content | Tool Help | How To Use The Map | Contact Us | Add Your Data

Explore the map: click on a point or choose one of these tools

Layers (expand to show all)

- Buying Clubs
- Farmers' Markets & Farm S
- Retail Stores
- Farms
- Specialty Food Producers

Beddington Ridge Farm
specialty food producer: jam
1951 State Hwy 193
Beddington, Maine 04622
(207) 638-2664
beddingtonridgefarm.com
brfarm@rivah.net

Esri, DeLorme, HERE, FAO, USGS, NGA, EPA, NRCAN, AAFC

Web Map App: Simple, Specific Functions

Maine's Local Food Network A resource for buyers and sellers of local food in Maine.

About The Project | Map Content | Tool Help | How To Use The Map | Contact Us | Add Your Data

Explore the map: click on a point or choose one of these tools

Search Features Selected: 1 Zoom Clear

Name: Bayside Chocolates
Address: 43 Water Street
City: Lubec
State: Maine
Zipcode: 04652
Contact:
Phone: (207) 733-8880
Email: info@baysidechocolates.com
Website: baysidechocolates.com
Procures:

Name: Bayside Chocolates
Address: 43 Water Street
City: Lubec
State: Maine
Zipcode: 04652
Contact:
Phone: (207) 733-8880
Email: info@baysidechocolates.com
Website: baysidechocolates.com
Procures: chocolates

Zoom to

Esri, DeLorme, HERE, TomTom, NGA, USGS, USDA, EPA, AAFC, NRCAN

Elements of Web-Based GIS

- Geographic data: Info about where things are & what's there.
- Layers: Groups of similar features stored on computer or web
- Map: Layers collected using GIS software
- Map App: Web page for user interface and special functions or tools

GIS LABORATORY & SERVICE CENTER



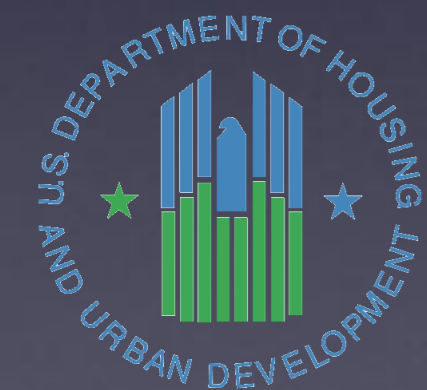
THE UNIVERSITY OF MAINE AT
MACHIAS
Naturally!

- Long-term partnership with WCCOG
- Grant-funded & contract GIS services
- Students do the work, learn real-world skills
- Degree & certificate programs in applied GIS
- GROWashington-Aroostook GIS Services

Mapping Local Foods

GROWashington-Aroostook

Tora Johnson, Lisa Ravis and Laura Teisl
GIS Laboratory University of Maine at Machias
giscenter@maine.edu / 207.255.1214



This project was supported by the United States Department of Housing and Urban Development under a Sustainable Communities Regional Planning grant. The opinions, findings, conclusions and recommendations herein do not necessarily represent the official position or policies of the United States Government.

