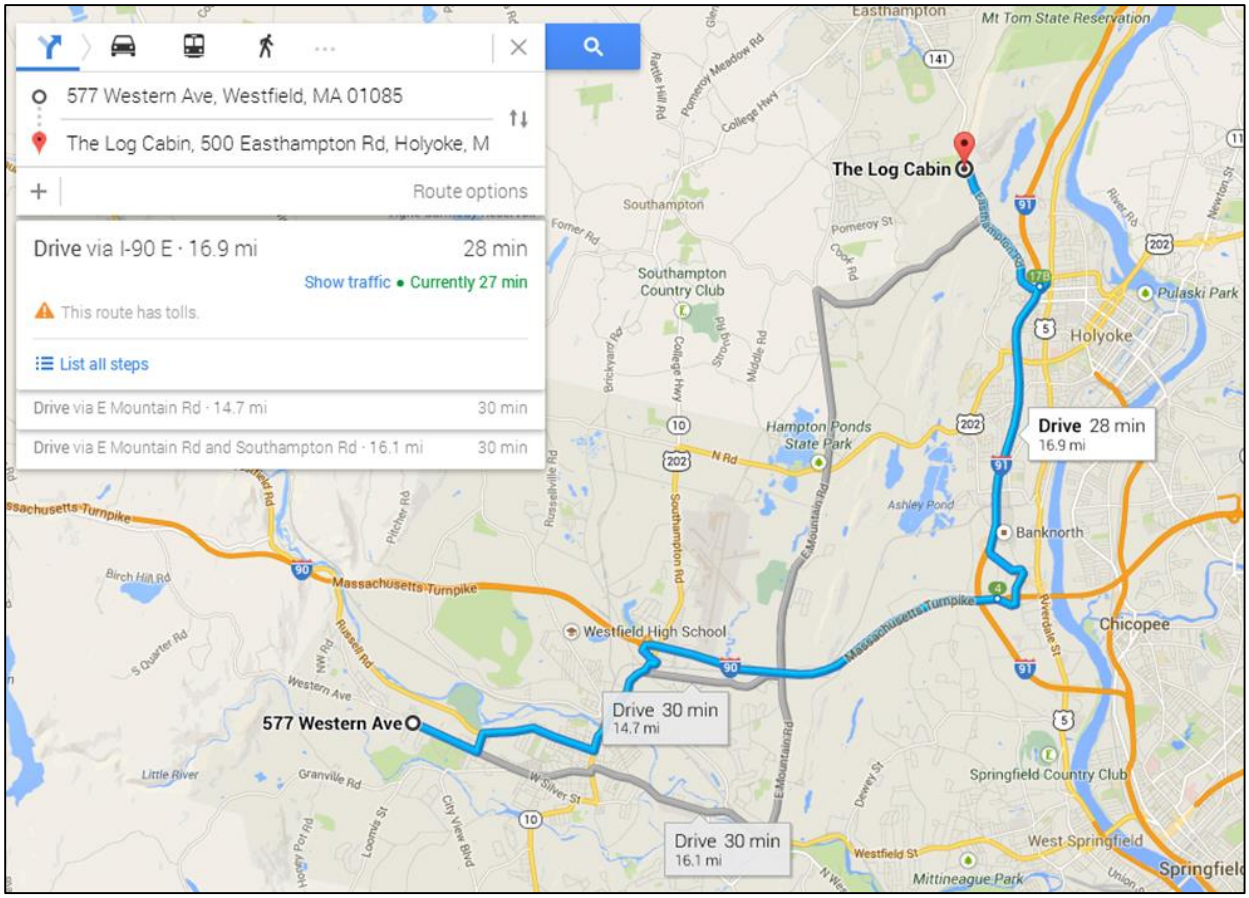
Cookbook 28 October 2013
Raster Data and Spatial Analyst (Part 5)

Overview

1. Mount Tom!
2. Homework Assignment for Wednesday



1) Mount Tom

Getting to Mount Tom is easy: just enter *The Log Cabin, 500 Easthampton Road, Holyoke, MA* into Google or your car navigation system. Two options for Routes:

1. MassPike to I91 to Exit 17B to Route 141 to Easthampton.
2. Through Westfield, Route 20 towards Springfield, left (= north) after the Walmart on East Mountain Road, and follow the maps.

Either way should be about 30 minutes.
Parking is either at the entrance of Mount Tom State Reservation (junction Easthampton Road (= Route 141) and Christopher Clark Road or across the street at the Log Cabin (park as far towards Holyoke as possible).

2) Homework Assignment for Wednesday

Question: *From where can you see this new wind turbine on Mount Tom?*
This is a classic visibility analysis using, amongst others, the ArcGIS Viewshed tool. You can also frame the question the other way: *what can you see from the top of this wind turbine?*

1) Create yourself a conceptual flowchart to guide your analysis and to form the structure of your project report.

Page 1	Professional cover page
Page 2	Your analysis procedure (as text, flowchart, list – whatever you find intuitive)
Page 3	Table with your data layers. List each layer, its source, and a brief description of its main characteristics and why you need this data layer.
Page 4	Table with the main geoprocessing tools used. Here, list the tool, the online Help URL, and a brief description of its function and how you are using it.
Page 5	Documentation of your work.

This is a 'living' document that you update and refine along the way!

You may need additional data layer or tools – just add them to your tables. Your analysis procedure may change as you dive deeper into the data – just update it! Most important: document what you do along the way – that way you can always go back and figure-out where things went wrong!

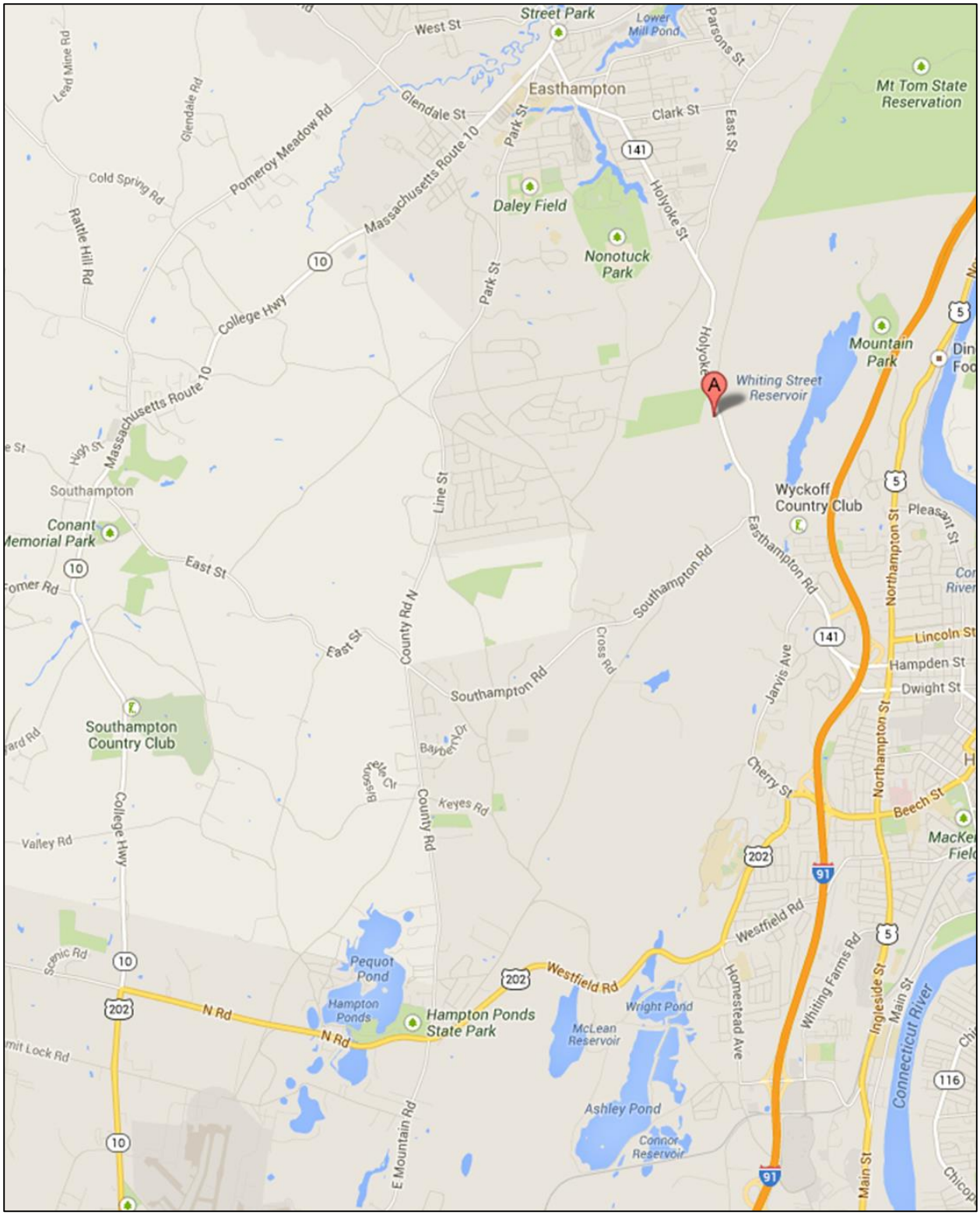
Post this document on your blog by Wednesday's class!

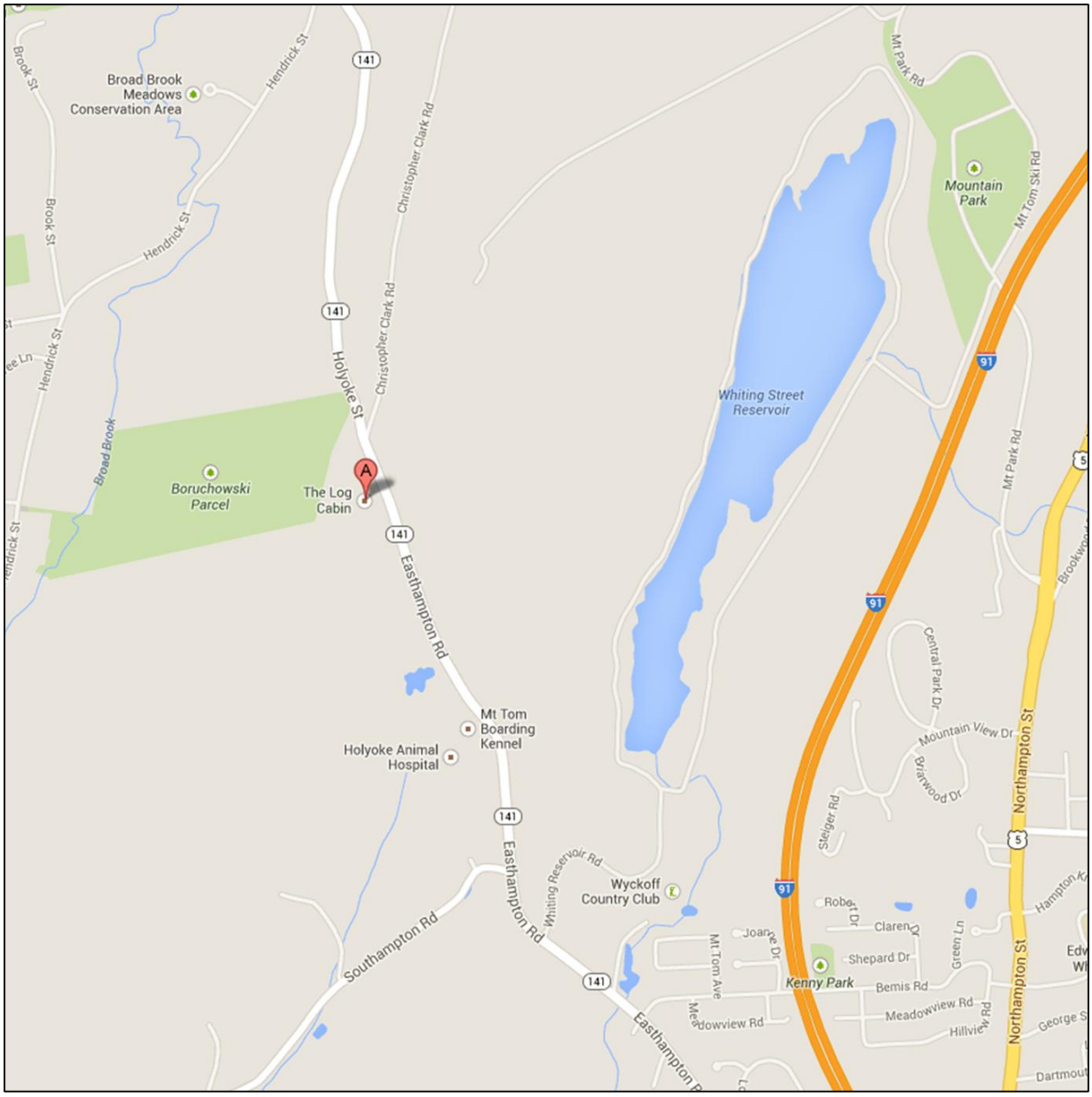
2) Set-up your Project!

Start Organized and stay organized!

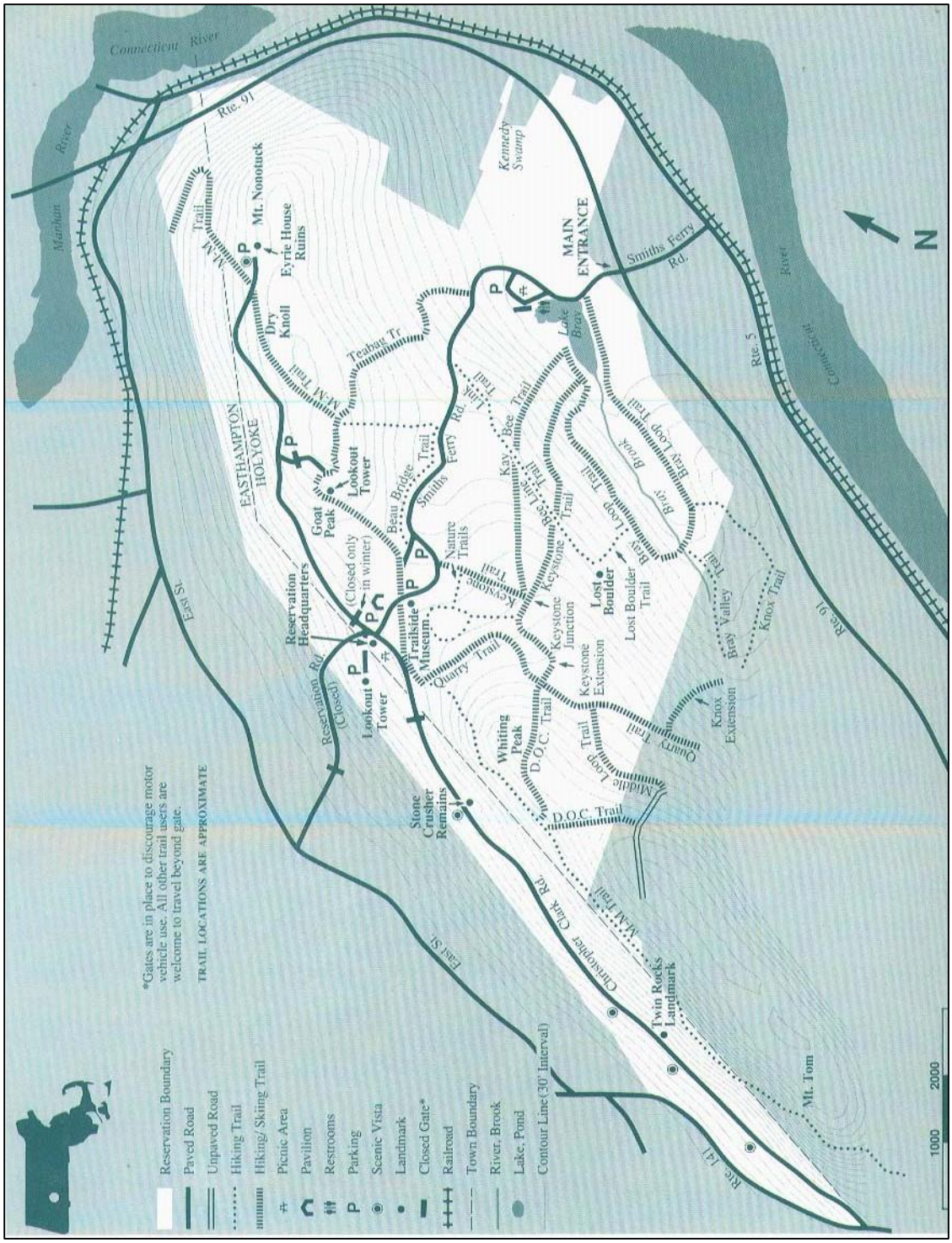
File Organization:	Dedicated folders, dedicated file geodatabase, proper names, etc.
Map Organization:	Set-up map, rename layers, use group layers, save as windview1, etc.

Have this done by Wednesday's class!


Street Park
Lower Mill Pond
West St
Parsons St
Mt Tom State Reservation
Easthampton
Clark St
East St
Park St
Glendale St
Massachusetts Route 10
Pomeroy Meadow Rd
Cold Spring Rd
Daley Field
Holyoke St
Nonotuck Park
Rattle Hill Rd
College Hwy
Mountain Park
Whiting Street Reservoir
Wyckoff Country Club
Pleasant St
Northampton St
Southampton
Conant Memorial Park
East St
Line St
Southampton Rd
Easthampton Rd
Lincoln St
Hampden St
Dwight St
Jarvis Ave
Cross Rd
County Rd N
Southampton Country Club
Barbara Dr
Keyes Rd
County Rd
Cherry St
Beech St
Valley Rd
Scenic Rd
Pequot Pond
Hampton Ponds
Hampton Ponds State Park
N Rd
Westfield Rd
Wright Pond
McLean Reservoir
Homestead Ave
Whiting Farms Rd
Ingleside St
Main St
Connecticut River
Ashley Pond
Connor Reservoir
E Mountain Rd
Chicopee
141
202
91
116
10
5


Broad Brook Meadows Conservation Area
Hendrick St
Brook St
Christopher Clark Rd
141
Holyoke St
Mt Park Rd
Mountain Park
Mt Tom Ski Rd
Whiting Street Reservoir
91
Broad Brook
Boruchowski Parcel
A
The Log Cabin
Easthampton Rd
Mt Tom Boarding Kennel
Holyoke Animal Hospital
Central Park Dr
Mountain View Dr
Brentwood Dr
Northampton St
Steiger Rd
Whiting Reservoir Rd
Wyckoff Country Club
Southampton Rd
Joanne Dr
Mt Tom Ave
Kenny Park
Shepard Dr
Bemis Rd
Meadowview Rd
Hillview Rd
George St
Dartmouth


Mount Tom
Google earth


Connecticut River
Rte. 91
Mt. Nonotuck
Eyrie House Ruins
Dry Knoll
Teabag Tr
Kennedy Swamp
MAIN ENTRANCE
Smiths Ferry Rd.
Lake Bray
Rte. 5
Connecticut River
N
EASTHAMPTON
HOLYOKE
Goat Peak
Lookout Tower
(Closed only in winter)
Beau Bridge
Smiths Ferry Rd
Link Trail
Kay Bee Trail
Bray Loop Trail
Reservation Headquarters
Trailside Museum
Nature Trails
Keystone Trail
Keystone Junction
Keystone Extension
Lost Boulder
Lost Boulder Trail
Bray Valley
Knox Trail
Knox Extension
Quarry Trail
Whiting Peak
D.O.C. Trail
Middle Loop Trail
Stone Crusher Remains
Reservation Rd (Closed)
East St.
Christopher Clark Rd.
M-A Trail
Twin Rocks Landmark
Mt. Tom
Rte. 141
Rte. 91
Reservation Boundary
Paved Road
Unpaved Road
Hiking Trail
Hiking/ Skiing Trail
Picnic Area
Pavilion
Restrooms
Parking
Scenic Vista
Landmark
Closed Gate*
Railroad
Town Boundary
River, Brook
Lake, Pond
Contour Line (30' Interval)
*Gates are in place to discourage motor vehicle use. All other trail users are welcome to travel beyond gate.
TRAIL LOCATIONS ARE APPROXIMATE
1000
2000