Assignment 11: Vector Analysis Practice

Table of Contents

1. Intro-fossgis-umass

1.1. Author Attribution

Major contributors to this curriculum include (alphabetical):

Maria Fernandez

Michael Hamel

Quentin Lewis

James Peters

Charlie Schweik

Alexander Stepanov

1.2. Module Licensing Information

Version 1.0.

1.3. Reviewed by

Quentin Lewis 04/09/07

2. Assignment 11: Vector analysis practice

2.1. Introduction

In this assignment, you will need to find the town of Hadley COMERCIAL areas that fall inside a 100 m buffer of the Hadley roads of CLASS 1, 2 or 3.

2.2. Set Up

Please, refer to the Site Selection 2: vector analysis module: http://linuxlab.sbs.umass.edu/introFossgisUmass/index.php?title=Site_selection_2:_Vector_Analysis if you don't remember how to perform some of the tasks of this assignment. The data layers you will need are the ROADS and ZONING layers used in that module. If you need to download the files again, you can get them here:http://linuxlab.sbs.umass.edu/beginning-fossgis-umass/datasets/lab_siteselection/siteselectiondata.zip [http://linuxlab.sbs.umass.edu/beginning-fossgis-umass/datasets/lab_siteselection/siteselectiondata.zip].

- Open the attribute table for the road layer and note the field "class":

	id	cat	OBJECTID	CLASS	ADMIN_TYPE	STREET_NAM	F
1	1	1	89507	5	0	STADIUM DRIN	
2	2	2	89508	5	0	FRENCH STR	
3	3	3	89509	4	0	NORTH HADLI	
4	4	4	89510	4	0	RAMP-NORTH	
5	5	5	89511	4	0	RAMP-RT 116	
6	6	6	89512	4	0	RAMP-RT 116	
7	7	7	89513	4	0	ROOSEVELT I	
8	8	8	89514	3	3	RIVER DRIVE	
9	9	9	89515	4	0	ROOSEVELT I	
10	10	10	89516	5	0	UNIVERSITY C	
11	11	11	89517	5	0	COMINS ROAL	
12	12	12	89518	5	0	SHATTUCK RC	
13	13	13	89519	5	0	COMINS ROAL	
14	14	14	89520	3	3	RIVER DRIVE	
15	15	15	89521	5	0	FROST LANE	
16	16	16	89522	5	0	SHATTUCK RC	
17	17	17	89523	5	0	SHATTUCK RC	
18	18	18	89538	5	0	MOODY BRIDC	
19	19	19	89539	5	0	WEST STREE	
20	20	20	89540	3	3	RUSSELL STF	
21	21	21	89541	5	0	WHALLEY STF	

```
TIP: Note that the assignment specifies ONLY a subset of roads from the
road layer, and you will have to select and extract those features before
applying the buffer.
```

2.3. Assignment Deliverables

1. A screenshot of JUST the Hadley roads of class 1, 2 and 3.

> TIP: The next image shows all the Hadley roads with the roads of interest selected in yellow,
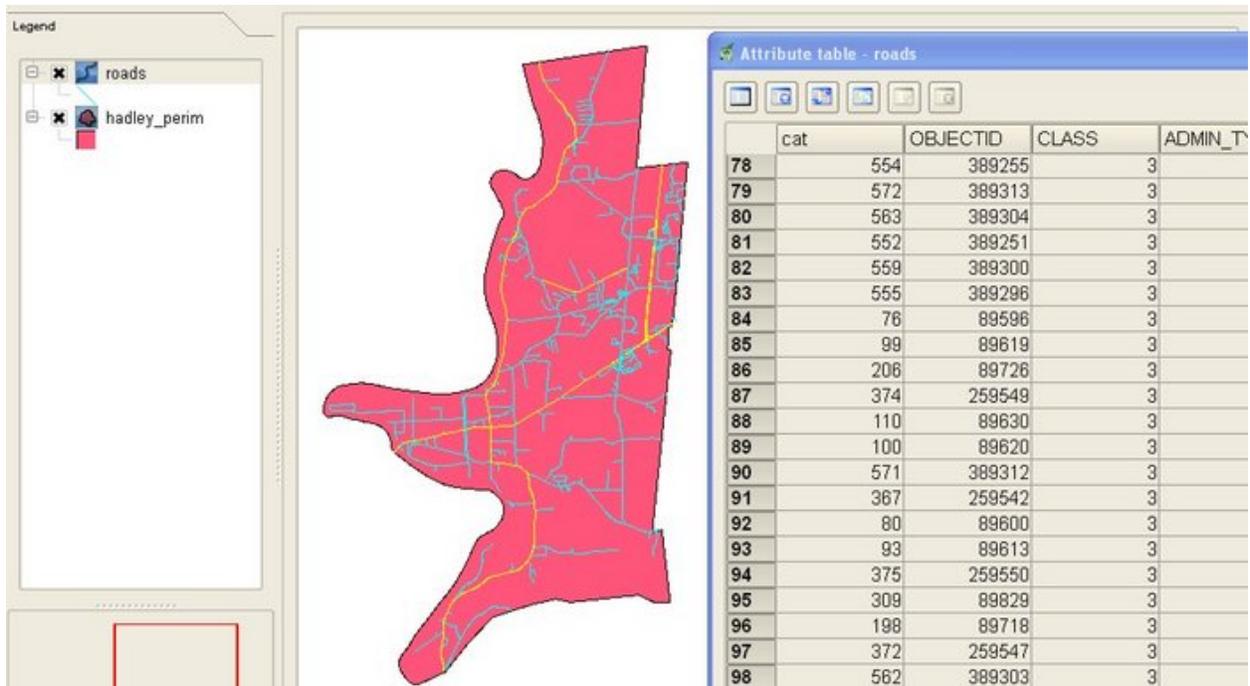
and the same roads displayed over JUST the COMMERCIAL areas:

2. A screenshot of ONLY the roads of interest over JUST the COMERCIAL areas.

3. A screenshot of the buffered areas displayed with 50% transparency over the commercial areas.

4. A screenshot of the polygons with the solution to the problem stated in the introduction.

5. A compressed file with JUST a shapefile of the solution file.

6. A note about any problems you may have encountered while completing this assignment.

```
Please email a .pdf of the assignment to your instructor. You can create the .pdf
```

```
by pasting the screenshots into an Open Office, Microsoft Word, etc file.  If you
do not have a .pdf creator, you can download a print to .pdf program, such as
 PDFCreator [http://sourceforge.net/projects/pdfcreator/].
```

please define productname in your
docbook file!   Assignment 11: Vector Analysis
                                              Practice   7