Agriculture Land Reserve Mapping

Project Proposal

Updated: 18 February 2016 – A.G. Green

Instructions: Complete the questions below as a team. Enter your answers into this document. You should refer to the Final Project Instructions – especially the Data and Analysis section as you try to identify data sources.

Submission: Save this document as a pdf. One member of your group should upload the document to the project proposal submission link on the course website.

What's next?
Once your TA approves your project proposal, you are ready to start working on your project. Some things that might cause approval to be withheld:

- The project is overly ambitious and would be difficult to complete within the remaining semester; or the project is not ambitious enough.
- There is no clear understanding shown of how you are going to go from your data to your final deliverables.
- The data you wish to use is unavailable or very hard to obtain.

Due: The deadline for submission is at the beginning of your lab the week of Nov. 23rd.

Part I: Team Information and Project Management

1. Lab Section:

2. Sub Region Name:

3. Name of each team member with their email address:

4. As a team, draft a set of guidelines that establish expectations around individual roles and contributions to the group (an ideal timeframe for task completion and deliverables, ideas for communication formats, agreement around preparation and participation in meetings, etc.).

5. How are you going to manage your tasks and deadlines (project management software, emails reminders, shared calendar, etc.)? Outline your plan below.

Part II: Data Sets

Review the questions in the report template file to see what questions you need to respond to in this report. Fill in the below table identifying what data sets you think you will use in your analyses, what are the sources, and why is each required for your analyses (you should include all data sets that you think are relevant though you can use more in your final project). Pay special attention to the format of the data (not all datasets are compatible with GIS, and you might need to transform them before you can use them) and to the projection information (all of your data layers should use the same datum and be projected in the same projection) before you start analyzing the data. The ALR shapefiles come in BC Albers (more specifically EPSG: 3005) so we recommend reprojecting other data to the same.

Hint: You should read through this list of open data sources on our course website before you begin.

Data Set	Source	Why important?

Part III: Analytical Approach, Roles, and Responsibilities

Refer to the questions in your report template. Provide a summary of your proposed analytical approaches using a rough flowchart and/or written steps addressing each question that details (1) the analytical processes you will implement on each data set and (2) who will be the "responsible" person for completion of each project task (while being the "responsible" person means a person is responsible for the completion of the task, collaboration can and should be a part of all the tasks you undertake). The project should have a higher level of complexity than any of the labs you completed during the course. Think about all the operations and tools that you have learned in the course, and apply these to your particular data. (Hint: A great resource for creating flowcharts is www.draw.io)

A list of **potential** analysis operations includes:

- Calculation of areas
- Select by attribute: various queries
- Adding a field and calculating values into the field (area, criteria, normalizing the data, etc.)
- Select by location
- Buffers
- Overlay tools: clip, erase, union, intersect
- Working with raster DEMs
- Manipulating raster layers: conversion, reclassification, merging, extracting, generating secondary surfaces (slope, etc…)

Paste your flowchart or outline below:

Part V: Team Agreement Signatures

If you agree with the answers you have created as a team above, you should submit a virtual signature (you can type your name or paste in an image of your signature) below. Each team member should do this before this document is submitted. By signing, you are making a commitment to your team. As a team, you may decide to deviate from the above plan if your analyses require, but you should always be aware of and build consensus around why you are deviating.