



Remedial Priority System

Human Health Layers
Agricultural

March 2012





Human Health Layers

The Human Health Layers developed by the Department are:

- Water Media
 - Private Wells
 - Community Supply Wells
 - Non-Community Supply Wells
 - Surface Water Intakes
 - Surface Water Body (Surface Water Quality Standards)
 - **Agricultural**
- Soil Media
 - Soil Exposure: Residential,
 - Soil Exposure: School / Day Care
- Vapor Media
 - Vapor Exposure: Residential
 - Vapor Exposure: School / Day Care





Agricultural Layer

Agricultural Layer → Derived Layer (a layer created by DEP) based on the Land Use layer

– (not based on population)

- **Mode of Exposure:** People eating (Ingestion) agricultural products irrigated and /or processed with contaminated ground water
- **Background:** Areas identified as Agricultural wetland, croplands, pastures, orchards, vineyards, horticulture, plantations, general agriculture in the Land Use GIS Layer are considered to be Agricultural
- **Source Layer:**
 - 1995 Land Use Layer
 - Basis for Layer: Used to identify areas identified as Agricultural





Agricultural Layer

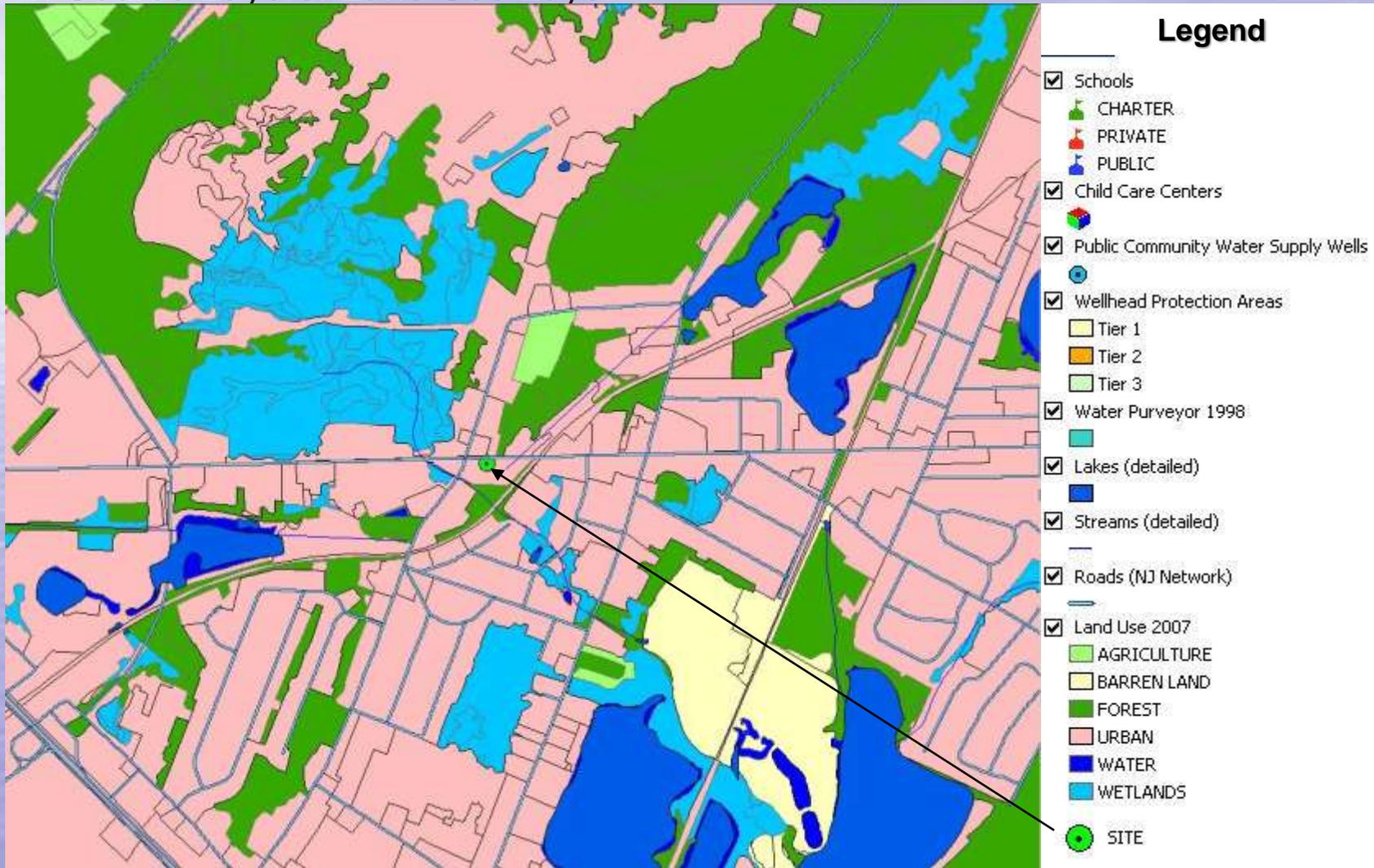
- Cell Values
 - Cells that are greater than 50 % agricultural are assigned a value of 1
- Calculation Method
 - Cell values that are within the Ground Water Extent Area are summed





Agricultural Layer

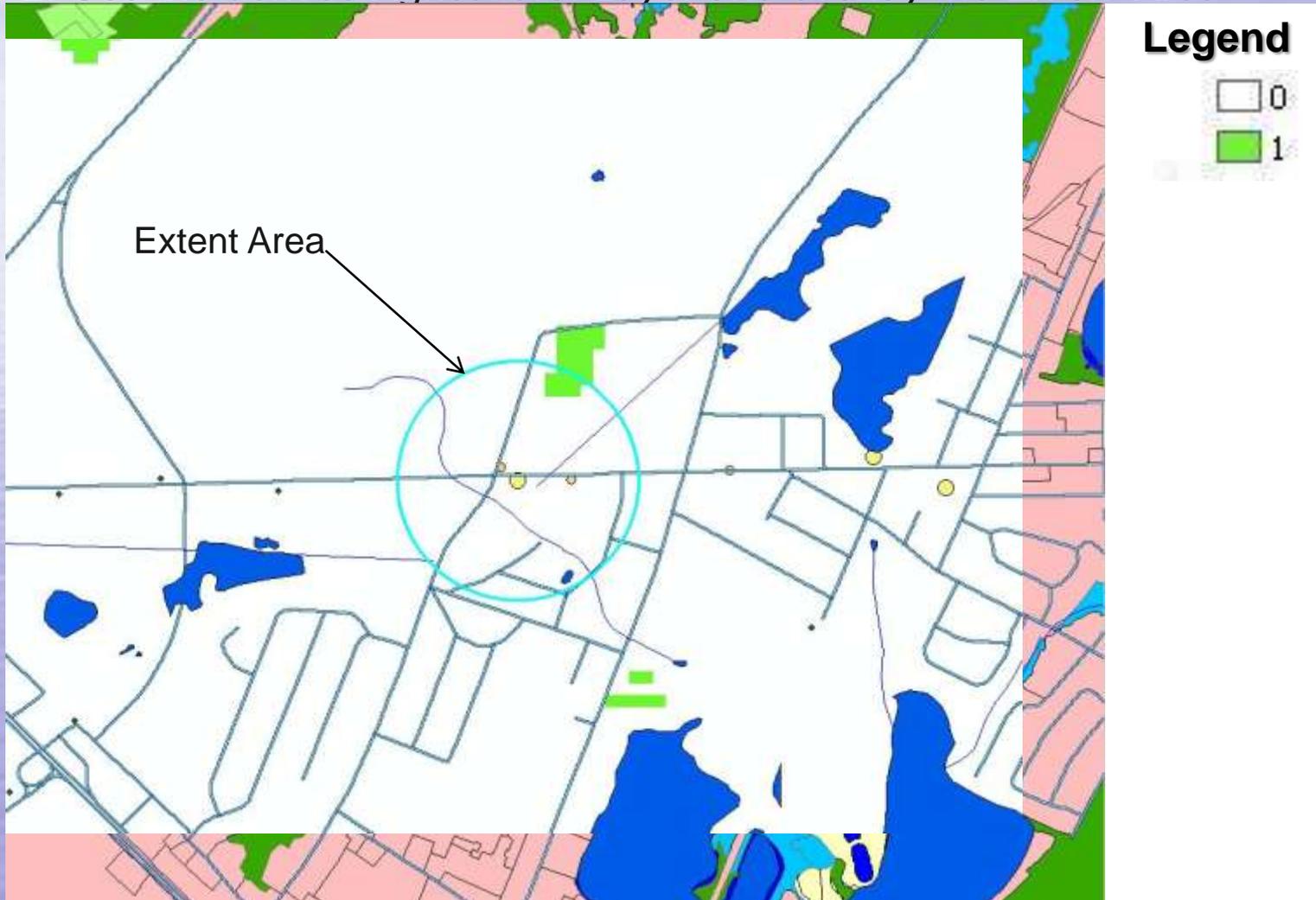
1. Source Layers: Land Use Layer





Agricultural Layer

2. Use the derived Agricultural Layer and overlay the Extent Area





Agricultural Layer

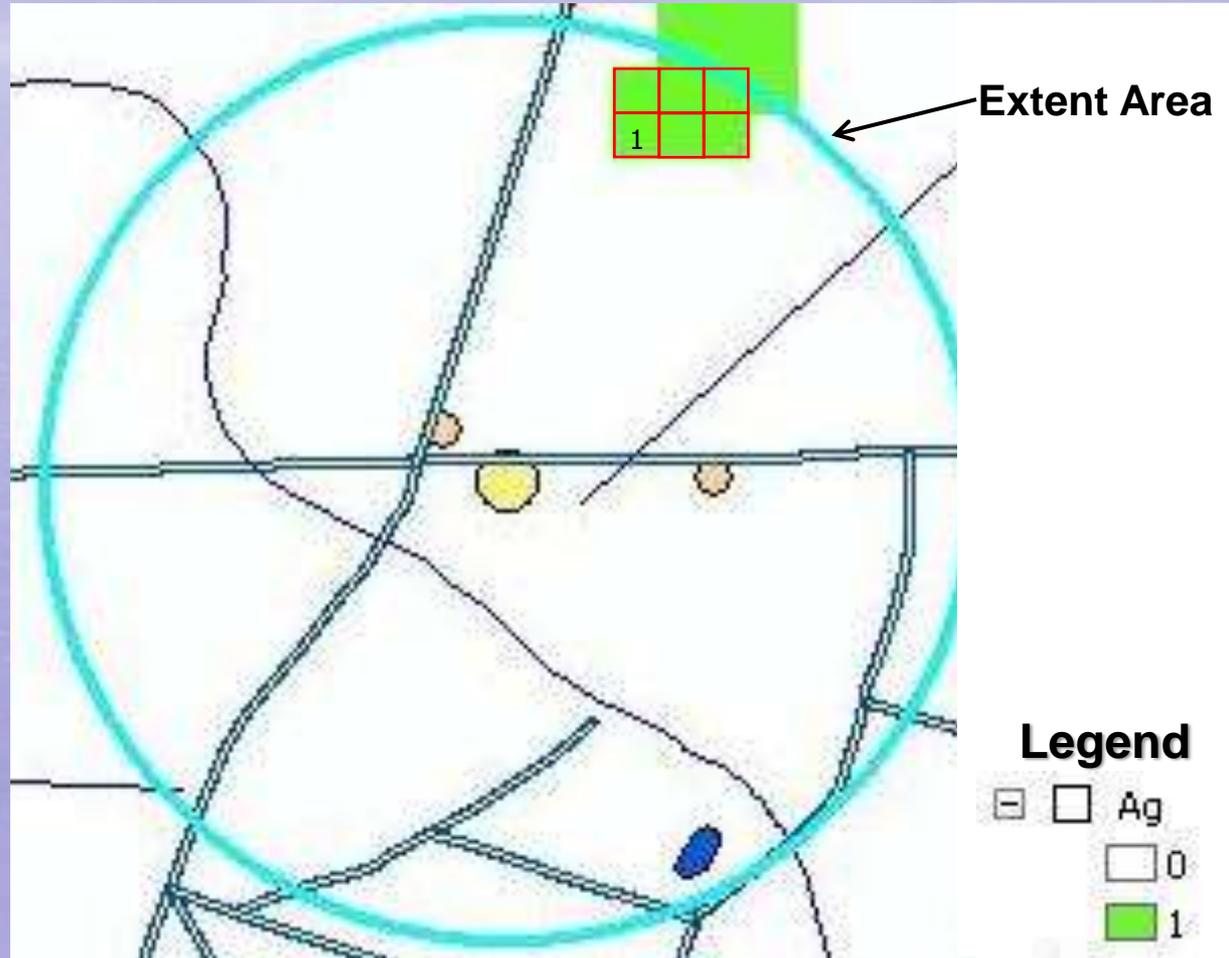
3. Calculate: Sum all of the cells within the Extent Area

To calculate Score:

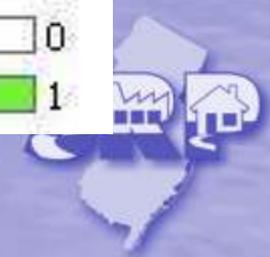
1. Zoom in to the Extent Area
2. Sum up all cell values that are within the Extent Area

- ❖ cell value = 1
- ❖ Cells within area = 6

➤ **Final Score = 6**



Agricultural Score = 6



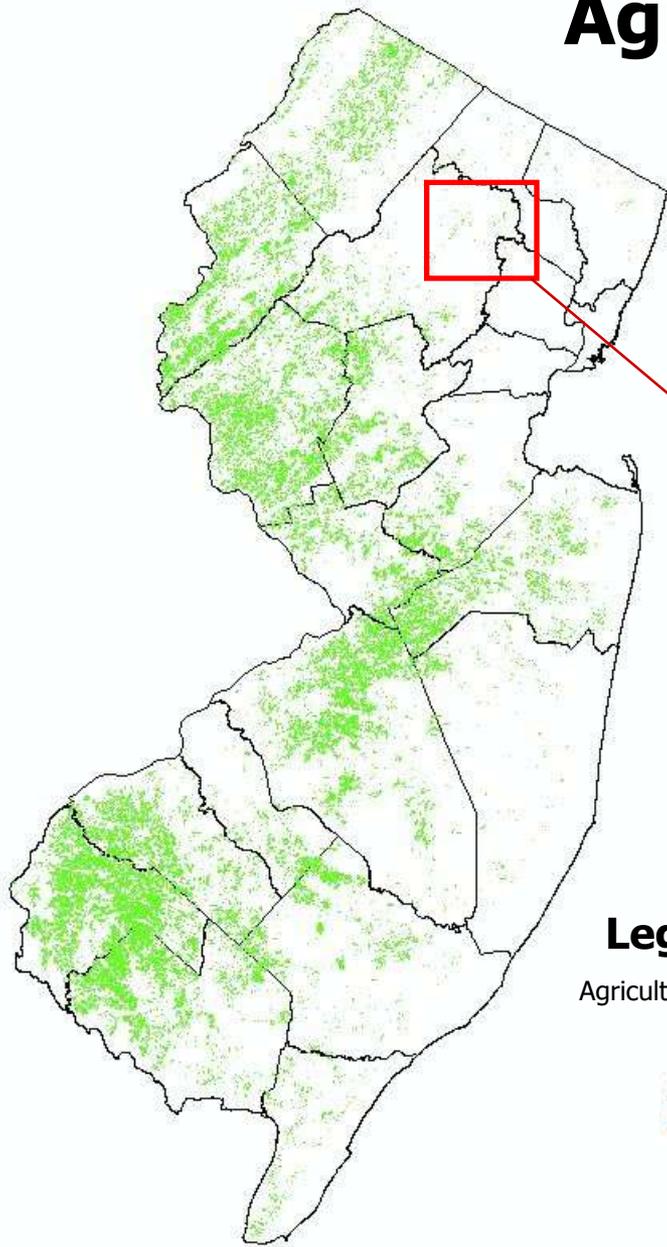


Agricultural Layer

- An Agricultural Layer is created for the entire state
- The following is the layer used to calculate the Agricultural Receptor Layer Score



Agricultural Layer



Legend
Agricultural Score

