**Lab1 Questions:**

**Question 1: read another shapefile [counties.shp] using st\_read() function and complete the following table.**

|  |  |
| --- | --- |
| counties.shp | NA |
| #variables |  |
| #records (rows) |  |
| coordinate reference system:  st\_crs() function |  |

**Question 2: Within the attribute table of county shapefile, there are two columns (fields) showing population of 2000 and 2003. Please complete the following table:**

|  |  |  |
| --- | --- | --- |
|  | POP2000 | POP2003 |
| TOTAL Population |  |  |
| Mean population |  |  |

**Lab question3: use nlcd.tif as input, please complete the following table**

|  |  |  |
| --- | --- | --- |
|  | **Total pixel counts** | **Total area in km2** |
| **Deciduous forest (code=41)** |  |  |
| **Evergreen forest (code=42)** |  |  |
| **Mixed forest (code=43)** |  |  |

**Lab question 4: please generate a map showing all urban pixels (urban class code = 21, 22,23,24) as 1 and other pixels as 0.**