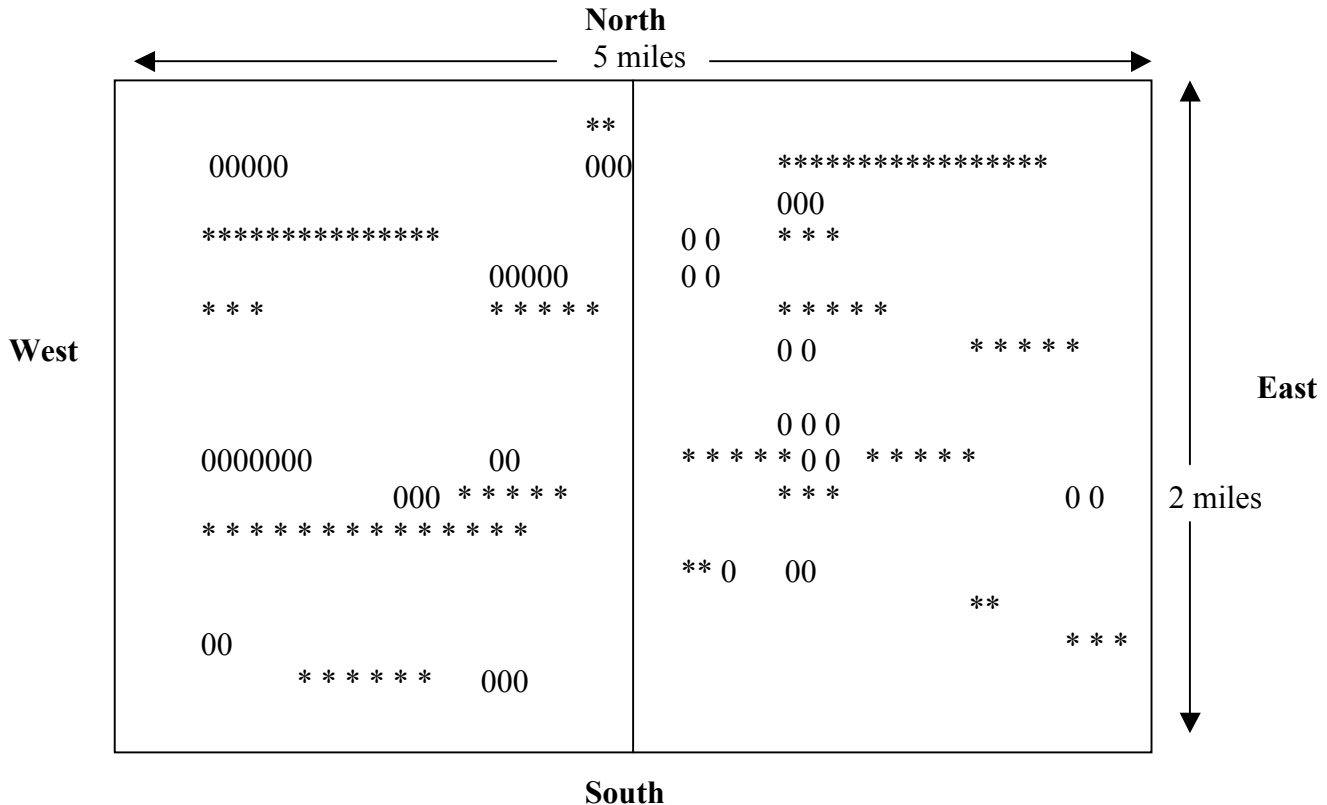


Ecology – Population Density and Rate of Change

Under natural conditions organisms (plant and/or animal) are not distributed evenly. Look at the graphic below. Each \* represents three oak trees; each 0 represents five redwood trees.



Show work and answer in box with correct units!

1. The density of oaks in the entire above graphic is

30 oaks/mi<sup>2</sup>

2. The density of redwoods in the entire above graphic is

3. The density of oaks in the northwest quadrant is

30 oaks/mi<sup>2</sup>

4. The density of redwoods in the right half of the graphic is

5. There are 1775 strawberry plants per acre on a certain farm in the year 1949 and 895 per acre in 1957. The rate of decline in the population of strawberry plants is

-110 plants/yr