1. The population growth for a city is given below. Estimate the year 2030 population using arithmetic and Iller’s Bank methods separately.

|  |  |
| --- | --- |
| Year | Population |
| 1990 | 30600 |
| 2000 | 36900 |
| 2010 | 42300 |

1. The initial and design years of a wastewater treatment plant are the years 2020 and 2040. The estimated populations for these years are 35 000 and 76 000, respectively. The expected flow rates during these periods are 600 Lpcd. What should the staging period be?
2. Obtain the following information for the new advanced Canakkale wastewater treatment:
3. Design year, estimated population, and average flow
4. Initial year, population and average flow
5. Service area in km2
6. Determine (1) design period, (2) population density at the design year (person/km2), (3) ratio of average design flow to initial flow, and (4) does the staging period correspond to the values given in the class (Table 2.1 in your text book)