

are given by the following model:

$$\begin{cases} \frac{dS}{dt} = \lambda - \beta SI - \mu S, \\ \frac{dI}{dt} = \beta SI - (\gamma + \mu)I, \\ \frac{dR}{dt} = \gamma I - \mu R, \end{cases} \quad (1)$$

where S , I , and R represent the number of susceptible, infected, and recovered individuals, respectively. λ is the recruitment rate, β is the transmission rate, μ is the natural death rate, and γ is the recovery rate.

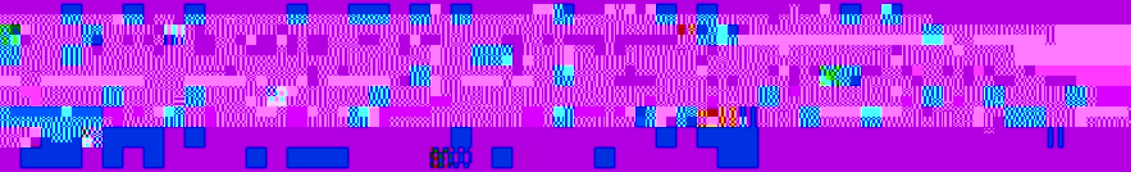


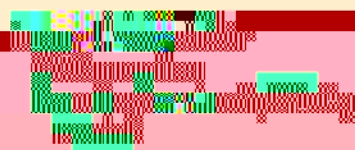
Fig. 1

are given by the following model (see column 4). The calculations show that 54.5% of all the IHC in Spring 2010 were in Fairbanks (Fig. 2) (Fairbanks) and

the remaining 45.5% were in Anchorage (Fig. 3).

The model is solved using the Runge-Kutta method. The results are shown in Fig. 4. The model shows that the number of susceptible individuals decreases over time, while the number of infected individuals increases and then decreases. The number of recovered individuals increases over time.

Fig. 2 Fairbanks (Spring 2010)

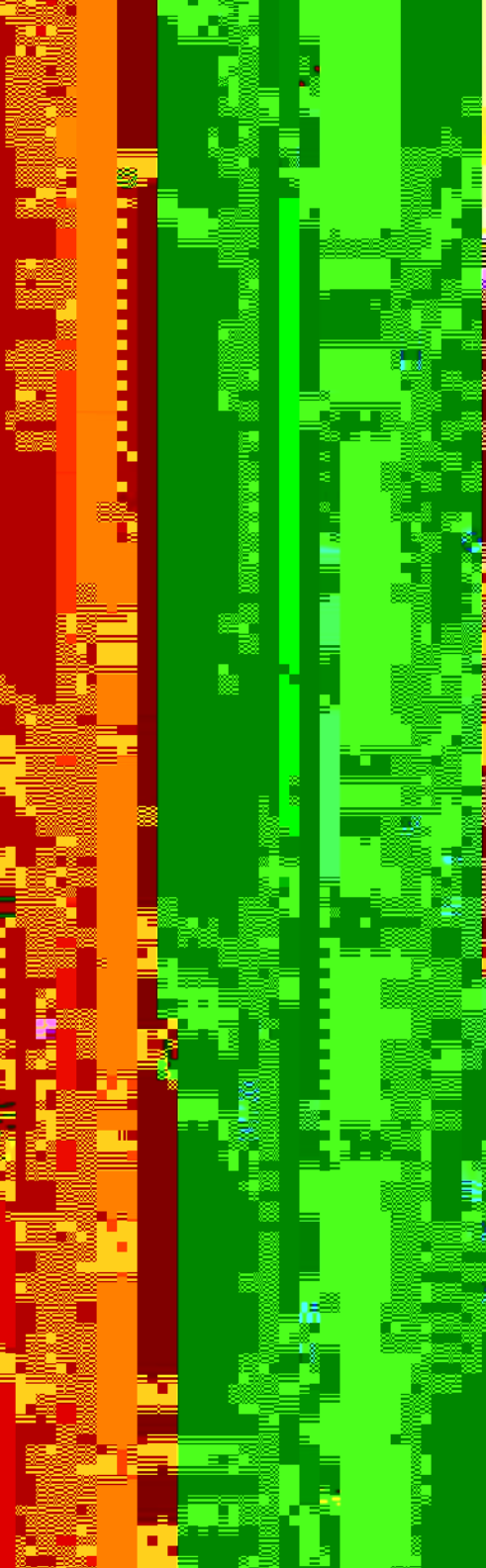
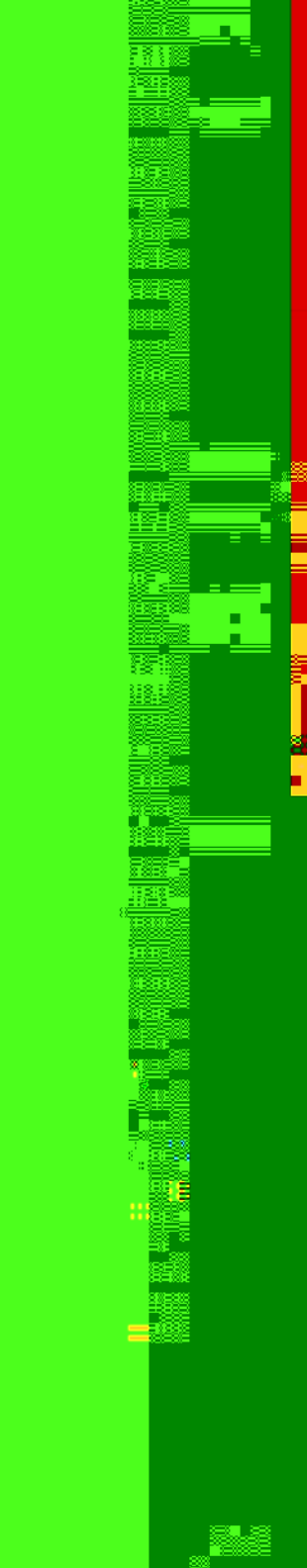


the remaining 45.5% were in Anchorage (Fig. 3). The model shows that the number of susceptible individuals decreases over time, while the number of infected individuals increases and then decreases. The number of recovered individuals increases over time.

Fig. 3 Anchorage (Spring 2010)



Technical drawing containing descriptive text and specifications, likely detailing the components and assembly instructions for the machinery shown in the diagram.



Recommendation

Item No.	Description	Quantity	Unit	Remarks
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Item	Category	Value	Unit	Recommendation
1	Item	100	%	OK
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Remain: as INC Commen

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13.4

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1.7

since INC is 1% of enrolment