Problem 14: Mosquito Disease

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a)
$$m_1 = \frac{P_o}{a^2 b_C D_H \cdot D_m} = 0.0367$$
, Both of these have <1 so an outbreak will not persist.

 $m_2 = 1.4017$, $m_3 = 0.1250$

- b) Attached
- c) . For m = 0.0367: There is a miniscule amout of infection while the mosquitos die out
 - · For m = 0.1250: The mosquitos manage to have a higher rate of infection but still die out:
 - · For m=1.4017: The humans have no chance and are decimated by the mighty mosquito overlards.