



This predator interaction makes sense because often times in nature, predators will help each other. Insect outbreaks do work with this model, as well as a packe of wolves for example. The start form days is mother for days is most form that the exact form of the predation rate is not critical shows how adding Np will have a similar effect regardless of the predation rate.

- 3. X= pesticide effect Xp>Xu

 dH=rH[1-H]-bHPXu

 dP=cHP-kPXp
- 4. a) at = rH bP(1-R) R=# of refuge prey

 dP = cHP(1-R) KP
 - b) # rH- bP(H-R) KP

C) rH-bP-bPR = 0 = olt rH²-bPH = bPR

TH²-bP = H=R

H=rH²-R

By adding the retiges, it changes the equalibrium so that there is another stable eavilibrium point.

