

Deer SESI Core

$HIWATER = 55 \text{ cm}$
 $HpDiscount[] = \{0, 0.4, 0.6, 0.9, 1.1, 1, 0.9, 0.8, 0.6, 0.5, 0.4\}$
 $studyArea(x,y) = \begin{cases} 0 & \text{if urban.} \\ 1 & \text{otherwise.} \end{cases}$

Get next day

Is current day in breeding season?

yes

for (x,y) in study area

$$I(x,y) = I(x,y) + \frac{waterDepth(x,y)}{HIWATER}$$

More days to process in this year?

no

yes

Hp = hydroperiod
 MHp = hydroperiod in months.

for (x,y) in study area

$$IndexMap(x,y) = \left(1 - \frac{I(x,y)}{MaxI}\right) * HpDiscount[MHp]$$
