**n(z,t):** size distribution of non-seedlings in *t* 



(1-p<sub>b</sub>(z)):
probability of
not flowering
according to
size<sub>t</sub>



**s(z):** probability survival to *t+1* according to size<sub>t</sub>

**G(z',z)** probability of growing to size z' in *t+1* according to size z in *t* 

n(z',t+1): size distribution of non-seedlings in t+1

**P**<sub>b</sub>(**z**): probability of flowering according to size<sub>t</sub> \

**b(z):** number of seeds produced according to size<sub>t</sub>

goCont: probability of a seed produced in *t* germinating in *t*+1; (viab.rt *x* germ.rt)

 $c_0(z')$ : size distribution of seedlings in t+1; approximated by U(0.1,3)

goSB: fraction of seeds that go to the seedbank in *t*+1; (viab.rt *x* (1-germ.rt))

outSB: fraction of seedbank seeds that leave the seedbank; (germ.rt x decay.rt))

(4), size of

**B(t):** size of seedbank in *t* 

staySB: seeds that stay in the seedbank to t+1; ((1-germ.rt) x decay.rt)

