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Appendix A. General notation

$*$	The equilibrium value of the variable
a	The attack rate or instantaneous per capita predation rate. In appendix D this symbol is used also as sensitivity of competition to the environment following (Chesson 1994).
b	Conversion rate between prey and predator
C	The magnitude of competition, or “competitive response”
\mathcal{C}	Standardized competitive response
d	Competitive coefficient
E	$= \ln(G)$, the environmental response
\mathcal{E}	Standardized environmental response
G	Germination fraction
F	$= C + aP$, combined density-dependent limiting factor
i	Index for invader
$\{-i\}$	Used as a superscript to indicate a measurement with species i as the invader
j	Index for an arbitrary species j
n	Number of annual plant species
N	Density of an annual plant species
$O(x)$	Standard mathematical notation meaning any quantity that remains of comparable magnitude to a variable x as x becomes small
P	Predator density
r	Population growth rate, when not a subscript. When a subscript, it is an index for a resident species.

s	Seed survival in the seed bank
s_p	Survival of the predator between years
Y	Annual plant seed yield each season
β	$= 1 - s(1 - \bar{G})$, the mean fraction of seed lost from the seed bank over one year
ΔE	Average fitness difference between a species and its competitors, or more generally, the mean difference in standardized environmental responses (Chesson 1994)
ΔI	The storage effect
η	$= \ln \left\{ \bar{G}Y / \left[1 - s(1 - \bar{G}) \right] \right\}$, seed production per unit seed loss (log scale)
λ	Finite rate of increase, $N(t + 1)/N(t)$.
ρ	Correlation between the environmental responses of different species
σ^2	the common variance, $\text{Var}(E)$, of the environmental responses

Literature Cited

Chesson, P. 1994. Multispecies Competition in Variable Environments. *Theoretical Population Biology* **45**:227-276.