Census t   Survival   Growth   Fecundity   **Census t+1**

$n(z, t)$

$s(z)$

$G(z', z)$

$n(z', t+1)$

$p_f(z)f(z)g$

$n_0(t)$

s_0

$G_0(z')$

$n_0(t+1)$

Description	Deterministic	Stochastic, kernel-resampled	Stochastic, parameter-resampled
Survival	$s(z)$	$s_y(z)$	$s(z; \theta_{0-36})$
Growth	$G(z'; z)$	$G_y(z'; z)$	$G(z', z; \theta_{0-36})$
Flowering	$p_f(z)$	$p_{f_y}(z)$	$p_f(z; \theta_{0-36})$
Size-specific fecundity	$f(z)$	$f(z)$	$f(z)$
Germination & establishment	g	g	g
Seedling survival	s_0	s_{0_y}	$s_0(\theta_{0-36})$
Seedling growth	$G_0(z')$	$G_{0_y}(z')$	$G_0(z'; \theta_{0-36})$