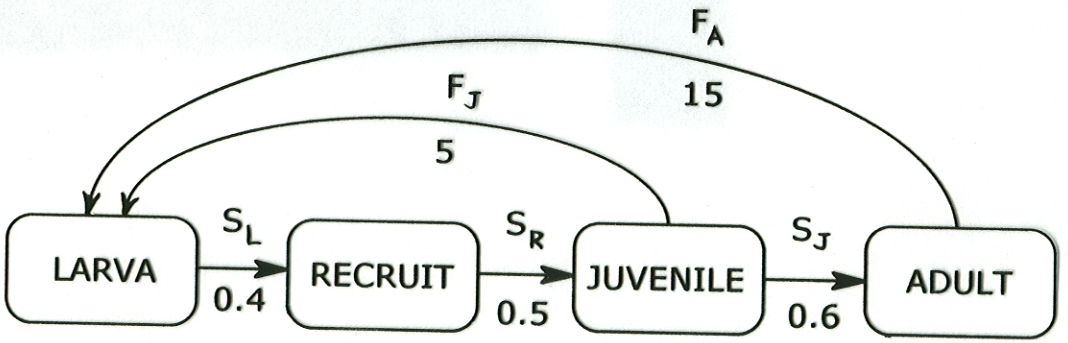
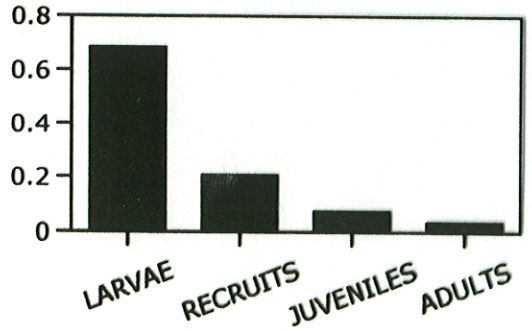
	A	B	C	D	E	F	G	H	I
1									
2		TRANSITION MATRIX					VECTOR		
3							t0	t1	t2
4		0	0	5	15	LARVA	1000	= ($D4*G$6)+($E4*G$7)	=($D4*H$6)+($E4*H$7)
5		0.4	0	0	0	RECRUIT	150	= $B5*G$4	= $B5*H$4
6		0	0.5	0	0	JUVENILE	70	= $C6*G$5	= $C6*H$5
7		0	0	0.6	0	ADULT	25	= $D7*G$6	= $D7*H$6
8									
9						N	= SUM(G4:G7)	= SUM(H4:H7)	= SUM(I4:I7)
10						LAMBDA	= H9/G9	= I9/H9	= J9/I9

t_0	t_1
L_0	$L_1 = F_J \cdot J_0 + F_A \cdot A_0$
R_0	$R_1 = S_L \cdot L_0$
J_0	$J_1 = S_R \cdot R_0$
A_0	$A_1 = S_J \cdot J_0$



TRANSITION MATRIX					VECTOR											
					t0	t1	t2	t3	t4	t5	t6	t7	t8	t9	t10	t11
0	0	5	15	LARVA	1000	725	1005	1675	2525	2310	3484	5540	6855	7642	11811	16827
0.4	0	0	0	RECRUIT	150	400	290	402	670	1010	924	1394	2216	2742	3057	4724
0	0.5	0	0	JUVENILE	70	75	200	145	201	335	505	462	696.8	1108	1371	1528
0	0	0.6	0	ADULT	25	42	45	120	87	120.6	201	303	277.2	418.1	664.8	822.6
				N	1245	1242	1540	2342	3483	3776	5114	7699	10045	11910	16904	23902
				LAMBDA	0.99759	1.24	1.521	1.487	1.084	1.354	1.505	1.305	1.186	1.419	1.414	1.255

t12	t13	t14	t15	t16	t17	t18	t19	t20	t21	t22	t23	t24	t25	t26
19981	25567	38087	50270	61533	84107	118826	152018	194866	270220	365906	468498	620979	852301	1127128
6731	7992	10227	15235	20108	24613	33643	47531	60807	77946	108088	146362	187399	248392	340920
2362	3365	3996	5113	7617	10054	12307	16821	23765	30404	38973	54044	73181	93699.7	124196
917	1417	2019	2398	3068	4570.5	6032.4	7383.9	10093	14259	18242	23384	32426	43908.7	56219.8
29991	38342	54329	73016	92326	123345	170808	223754	289531	392829	531209	692288	913986	1238301	1648464
1.278	1.417	1.344	1.264	1.336	1.3848	1.31	1.294	1.3568	1.3523	1.3032	1.3202	1.3548	1.33123	1.33488