

	Model (Red means implemented in RMark)	Code	RMark Example	Parameters									
1	Live Recaptures (CJS)	CJS	?dipper; ?example.data	Phi	p								
2	Dead Recoveries	Recovery	?brownie	S	r								
3	Both Live and Dead Encounters – Burnham	Burnham	?Burnham	S	p	r	F						
4	Known Fate	Known	?Blackduck	S									
5	Closed Population Estimation	Closed	?edwards.eberhardt	p	c	f0							
6	BTO Dead Recoveries and Unknown Ringings	BTO		S									
7	Robust Design with Closed Population Estimation	Robust	?robust	S	Gamma''	Gamma'	p	c	f0				
8	Both Live and Dead Encounters – Barker	Barker		S	p	r	R	R'	F	F'			
9	Multi-state with Live Recaptures	MultiStrata		S	p	Psi							
10	Brownie et al. Dead Recoveries	Brownie	?brownie	S	f								
11	Jolly-Seber Lambda – Burnham	Jolly		Phi	p	Lambda	N						
12	Huggins Closed Population Estimation	Huggins	?edwards.eberhardt	p	c								
13	Robust Design with Huggins' Estimator	RDHuggins	?robust	S	Gamma''	Gamma'	p	c					
14	Pradel Recruitment Only	Pradel		Gamma	p								
15	Pradel Survival and Seniority	PradSen		Phi	p	Gamma							
16	Pradel Survival and Lambda	PradLambda		Phi	p	Lambda							
17	Pradel Survival and Recruitment	PradRec		Phi	p	f							
18	Barker Live and Dead with Closed Robust Design	RDBarker		S	r	R	R'	Gamma''	Gamma'	F	p	c	f0
19	POPAN	POPAN	?dipper	Phi	p	pent	N						
20	Virtual Population Analysis (VPA)	VPA		M	F								
21	Multi-state with Live and Dead Encounters	MSLiveDead		S	p	Psi	r						
22	Closed Captures with Heterogeneity	HetClosed	?edwards.eberhardt	pi	p	f0							
23	Full Closed Captures with Heterogeneity	FullHet	?edwards.eberhardt	pi	p	c	f0						
24	Nest Success	Nest	?killdeer; ?mallard	S									
25	Huggins' Closed Captures with Heterogeneity	HugHet	?edwards.eberhardt	pi	p								
26	Huggins' Full Closed Captures with Heterogeneity	HugFullHet	?edwards.eberhardt	pi	p	c							
27	Occupancy Estimation with Detection < 1	Occupancy	?salamander; ?weta	p	Psi								
28	RD Occupancy Estimation with psi, epsilon.	RDOccupPE	?RDSalamander	Psi	Epsilon	p							
29	RD Occupancy Estimation with psi, gamma.	RDOccupPG	?RDOccupancy; ?RDSalamander	Psi	Gamma	p							
30	RD Occupancy Estimation with psi(1), gamma, epsilon.	RDOccupEG	?RDSalamander	Psi	Epsilon	Gamma	p						
31	Link-Barker Jolly-Seber	LinkBarker		Phi	p	f							
32	Open Robust Design Multi-state	ORDMS		S	Psi	pent	Phi	p					
33	Closed Robust Design Multi-state	CRDMS	?crdms	S	Psi	p	c	f0					
34	Huggins' Closed Robust Design Multi-state	HCRDMS		S	Psi	p	c						
35	Heterogeneity Closed Robust Design Multi-state	HetRDMS		S	Psi	pi	p	f0					
36	Full Heterogeneity Closed Robust Design Multi-state	FHetRDMS		S	Psi	pi	p	c	f0				
37	Huggins' Het. Closed Robust Design Multi-state	HHetRDMS		S	Psi	pi	p						
38	Huggins' Full Het. Closed Robust Design Multi-state	HFHetRDMS		S	Psi	pi	p	c					
39	Robust Design with Heterogeneity Estimator	RDHet	?robust	S	Gamma''	Gamma'	pi	p	f0				
40	Robust Design with Full Heterogeneity Estimator	RDFullHet		S	Gamma''	Gamma'	pi	p	c	f0			
41	Robust Design with Huggins' Het. Estimator	RDHHet		S	Gamma''	Gamma'	pi	p					
42	Robust Design with Huggins' Full Het. Estimator	RDHFHet		S	Gamma''	Gamma'	pi	p	c				
43	Barker Live and Dead with Huggins' Robust Design	RDBarkHug		S	r	R	R'	Gamma''	Gamma'	F	p	c	
44	Barker Live and Dead with Heterogeneity Robust Design	RDBarkHet		S	r	R	R'	Gamma''	Gamma'	F	pi	p	f0
45	Barker Live and Dead with Full Het. Robust Design	RDBarkFHet		S	r	R	R'	Gamma''	Gamma'	F	pi	p	c
46	Barker Live and Dead with Huggins' Het. Robust Design	RDBarkHHet		S	r	R	R'	Gamma''	Gamma'	F	pi	p	f0
47	Barker Live and Dead with Huggins' Full Het. Robust Design	RDBarkHFHet		S	r	R	R'	Gamma''	Gamma'	F	pi	p	c
48	Lukacs Young Survival from Marked Adults	LYSMA		Phi	p								
67	Robust Design Pradel Seniority Closed Population Estimation	RDPdGClosed		Phi	Gamma	p	c	f0					
68	Robust Design Pradel Seniority Huggins' Closed Populations	RDPdGHuggins		Phi	Gamma	p	c						
69	Robust Design Pradel Seniority Closed Captures with Heterogeneity	RDPdGHet		Phi	Gamma	pi	p	f0					
70	Robust Design Pradel Seniority Full Closed Captures with Het.	RDPdGFullHet		Phi	Gamma	pi	p	c	f0				
71	Robust Design Pradel Seniority Huggins' Closed Captures with Het.	RDPdGHugHet		Phi	Gamma	pi	p						
72	Robust Design Pradel Seniority Huggins' Full Closed Captures with Het.	RDPdGHugFullHet		Phi	Gamma	pi	p	c					
79	Robust Design Pradel Lambda Closed Population Estimation	RDPdLClosed		Phi	Lambda	p	c	f0					
80	Robust Design Pradel Lambda Huggins' Closed Populations	RDPdLHuggins		Phi	Lambda	p	c						
81	Robust Design Pradel Lambda Closed Captures with Heterogeneity	RDPdLHet		Phi	Lambda	pi	p	f0					
82	Robust Design Pradel Lambda Full Closed Captures with Het.	RDPdLFullHet		Phi	Lambda	pi	p	c	f0				
83	Robust Design Pradel Lambda Huggins' Closed Captures with Het.	RDPdLHugHet		Phi	Lambda	pi	p						
84	Robust Design Pradel Lambda Huggins' Full Closed Captures with Het.	RDPdLHugFullHet		Phi	Lambda	pi	p	c					
91	Robust Design Pradel Recruitment Closed Population Estimation	RDPdFClosed		Phi	f	p	c	f0					
92	Robust Design Pradel Recruitment Huggins' Closed Populations	RDPdFHuggins		Phi	f	p	c						
93	Robust Design Pradel Recruitment Closed Captures with Heterogeneity	RDPdFHet		Phi	f	pi	p	f0					
94	Robust Design Pradel Recruitment Full Closed Captures with Het.	RDPdFFullHet		Phi	f	pi	p	c	f0				
95	Robust Design Pradel Recruitment Huggins' Closed Captures with Het.	RDPdFHugHet		Phi	f	pi	p						
96	Robust Design Pradel Recruitment Huggins' Full Closed Captures with Het.	RDPdFHugFullHet		Phi	f	pi	p	c					
103	Open Robust Design Pradel Multi-state	ORDPdMS		S	Psi	Gamma	pent	Phi	p				
104	Huggins Closed Robust Design Multi-state with State Probabilities	CRDMSOHug		S	Psi	Omega	p	c					
105	Huggins Heterogeneity Closed Robust Design Multi-state with State Probabilities	CRDMSOHet		S	Psi	Omega	pi	p					
106	Huggins Full Heterogeneity Closed Robust Design Multi-state with State Probabilities	CRDMSOFHet		S	Psi	Omega	pi	p	c				
107	Occupancy Heterogeneity Estimation with Detection < 1	OccupHet	?salamander	pi	p	Psi							
108	RD Occupancy Heterogeneity Estimation with psi, epsilon	RDOccupHetPE		Psi	Epsilon	pi	p						
109	RD Occupancy Heterogeneity Estimation with psi, gamma	RDOccupHetPG		Psi	Gamma	pi	p						
110	RD Occupancy Heterogeneity Estimation with psi(1), gamma, epsilon	RDOccupHetEG		Psi	Epsilon	Gamma	pi	p					
111	Occupancy Estimation Royle/Nichols Poisson Abundance	OccupRNPoisson	?Donovan.7	r	Lambda								
112	Occupancy Estimation Royle/Nichols Negative Binomial Abundance	OccupRNNegBin	?Donovan.7	r	Lambda	VarAdd							
113	Two species Occupancy Estimation	2SpecOccup		PsiAB	PsiA	PsiB	pA	pB	rAB	rAb	raB		

[illegible]