r	Nodel (Red means implemented in RMark)	Code	RMark Example					Р	aramet	ers				
1 L	ve Recaptures (CIS)	CJS	?dipper; ?example.data	Phi	р									
2 D	ead Recoveries	Recovery	?brownie	S	r									
3 B	oth Live and Dead Encounters Burnham	Burnham	?Burnham	S	р	r	F							
4 K	own Fate osed Population Estimation	Known Closed	?Blackduck ?edwards.eberhardt	S	С	f0								
5 C	osed Population Estimation O Dead Recoveries and Unknown Ringings	BTO	redwards.ebernardt	p S	С	TU								
7 R	obust Design with Closed Population Estimation	Robust	?robust	S	Gamma"	Gamma'	р	С	f0					
8 B	oth Live and Dead Encounters Barker	Barker		S	р	r	R	R'	F	F'				
9 1	ulti-state with Live Recaptures	Multistrata		S	р	Psi								
10 B	ownie et al. Dead Recoveries	Brownie	?brownie	S	<u>f</u>	Laurelaula	N							
11 Jo 12 H	lly-Seber Lambda Burnham Iggins Closed Population Estimation	Jolly Huggins	?edwards.eberhardt	Phi	С	Lambda	N							
13 R	bust Design with Huggins' Estimator	RDHuggins	?robust	S	Gamma"	Gamma'	D	С						
14 P	adel Recruitment Only	Pradel		Gamma	р		-							
15 P	adel Survival and Seniority	PradSen		Phi	р	Gamma								
16 P	adel Survival and Lambda	PradLambda		Phi	р	Lambda								
17 P	adel Survival and Recruitment	PradRec		Phi S	p	f R	R'	Carrenall	Comme	_			60	
18 B	rrker Live and Dead with Closed Robust Design	RDBarker POPAN	?dipper	Phi	D D	pent	N N	Gamma"	Gamma'	- г	р	С	f0	
	rtual Population Analysis (VPA)	VPA	: dipber	M	F	pent								
21 1	ulti-state with Live and Dead Encounters	MSLiveDead		S	р	Psi	r							
22 C	osed Captures with Heterogeneity	HetClosed	?edwards.eberhardt	pi	р	f0								
23 F	Ill Closed Captures with Heterogeneity	FullHet Nest	?edwards.eberhardt	pi S	р	С	f0							
24 N 25 H	est success Iggins' Closed Captures with Heterogeneity	HugHet	?killdeer; ?mallard ?edwards.eberhardt	pi	р									
26 H	Iggins' Closed Captures with Heterogeneity	HugFullHet	?edwards.eberhardt	pi	р	С								
27 C	ccupancy Estimation with Detection < 1	Occupancy	?salamander; ?weta	р	Psi									
28 R	Occupancy Estimation with psi, epsilon.	RDOccupPE	?RDSalamander	Psi	Epsilon	р								
29 R	O Occupancy Estimation with psi, gamma. O Occupancy Estimation with psi(1), gamma, epsilon.	RDOccupPG	?RDOccupancy; ?RDSalamander	Psi	Gamma	р								
30 R 31 L	O Occupancy Estimation with psi(1), gamma, epsilon.	RDOccupEG LinkBarker	?RDSalamander	Psi	Epsilon	Gamma	р							
32 C	pen Robust Design Multi-state	ORDMS		S	Psi	pent	Phi	D						
33 C	osed Robust Design Multi-state	CRDMS	?crdms	S	Psi	р		f0						
34 H	uggins' Closed Robust Design Multi-state	HCRDMS		S	Psi	р	С							
35 H	eterogeneity Closed Robust Design Multi-state	HetRDMS		S	Psi			f0	-					
36 F	Ill Heterogeneity Closed Robust Design Multi-state	FHetRDMS HHetRDMS		S	Psi	pi :	p	С	f0					
37 H	iggins' Het. Closed Robust Design Multi-state Iggins' Full Het. Closed Robust Design Multi-state	HFHetRDMS		5	Psi Psi	pi pi	p D	r						
3 X 📗														
38 H		RDHet	?robust	S				р	f0					
39 R	uggins Turi net. Closed kodosi Design Multi-state blust Design with Heterogeneity Estimator blust Design with Full Heterogeneity Estimator		?robust	S S	Gamma"	Gamma'	pi	p p	f0 c	f0				
39 R 40 R 41 R	bust Design with Heterogeneity Estimator bust Design with Full Heterogeneity Estimator bust Design with Huggins' Het. Estimator	RDHet RDFullHet RDHHet	?robust	S S	Gamma" Gamma"	Gamma' Gamma'	pi pi pi	p p	С	fO				
39 R 40 R 41 R 42 R	ubust Design with Heterogeneity Estimator boust Design with Full Heterogeneity Estimator boust Design with Huggins' Het. Estimator boust Design with Huggins' Full Het. Estimator	RDHet RDFullHet RDHHet RDHFHet	?robust	S S S	Gamma" Gamma"	Gamma' Gamma'	pi pi pi	p p	C C	fO				
39 R 40 R 41 R 42 R 43 B	ubust Design with Heterogeneity Estimator bust Design with Full Heterogeneity Estimator bust Design with Huggins' Het. Estimator bust Design with Huggins' Full Het. Estimator urker Live and Dead with Huggins' Robust Design	RDHet RDFullHet RDHHet RDHFHet RDBarkHug	?robust	S S	Gamma" Gamma"	Gamma' Gamma'	pi pi pi	p p Gamma"	c c Gamma'	f0	p	C	fO	
39 R 40 R 41 R 42 R 43 B 44 B	bust Design with Heterogeneity Estimator bust Design with Full Heterogeneity Estimator bust Design with Huggins' Het. Estimator bust Design with Huggins' Full Het. Estimator irker Live and Dead with Huggins' Robust Design irker Live and Dead with Huggins' Robust Design	RDHet RDFullHet RDHHet RDHFHet RDBarkHug RDBarkHet	Probust	S S S	Gamma" Gamma"	Gamma' Gamma'	pi pi pi	p p Gamma"	c C Gamma'	f0 F F	p pi pi	C p	fo c	fo
39 R 40 R 41 R 42 R 43 B 44 B 45 B	ubust Design with Heterogeneity Estimator bust Design with Full Heterogeneity Estimator bust Design with Huggins' Het. Estimator bust Design with Huggins' Full Het. Estimator urker Live and Dead with Huggins' Robust Design	RDHet RDFullHet RDHHet RDHFHet RDBarkHug	Probust	S S S	Gamma" Gamma" Gamma" r	Gamma' Gamma' Gamma' R R	pi pi pi pi R'	p p Gamma"	c c Gamma'	F F F	p pi pi pi	c p p	f0 c	fo
39 R 40 R 41 R 42 R 43 B 44 B 45 B 46 B 47 B	bust Design with Heterogeneity Estimator bust Design with Full Heterogeneity Estimator bust Design with Huggins' Het. Estimator bust Design with Huggins' Full Het. Estimator bust Design with Huggins' Full Het. Estimator riker Live and Dead with Huggins' Robust Design riker Live and Dead with Full Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Full Het. Robust Design	RDHet RDFUIlhet RDHHet RDHHet RDBarkHug RDBarkHet RDBarkHet RDBarkHet RDBarkHet RDBarkHet	?robust	S S S S S S S	Gamma" Gamma" Gamma" r r r	Gamma' Gamma' Gamma' R R	pi pi pi pi R' R'	p p Gamma" Gamma"	c Gamma' Gamma'	F F F F		р	fO c	f0
39 R 40 R 41 R 42 R 43 B 44 B 45 B 46 B 47 B	ibust Design with Heterogeneity Estimator bust Design with Full Heterogeneity Estimator bust Design with Huggins' Het. Estimator bust Design with Huggins' Full Het. Estimator bust Design with Huggins' Full Het. Estimator riker Live and Dead with Huggins' Robust Design riker Live and Dead with Heterogeneity Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design ker Live and Dead with Muggins' Full Het. Robust Design graph Gunder Gunde	RDHet RDFIIIHET RDHFHET RDHFHET RDBAYKHUE RDBAYKHET LYSMA	Probust	S S S S S S S S Phi	Gamma" Gamma" Gamma" r r r	Gamma' Gamma' Gamma' R R R R	pi pi pi pi R' R' R'	p p Gamma" Gamma" Gamma" Gamma"	c Gamma' Gamma' Gamma'	fO F F F F	pi	p p	fO c	fO
39 R 40 R 41 R 42 R 43 B 44 B 45 B 46 B 47 B 48 L 67 R	ibust Design with Heterogeneity Estimator bust Design with Full Heterogeneity Estimator bust Design with Huggins' Het. Estimator bust Design with Huggins' Full Het. Estimator bust Design with Huggins' Robust Design riker Live and Dead with Huggins' Robust Design riker Live and Dead with Heterogeneity Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Full Het. Robust Design skacs Young Survival from Marked Adults bust Design Pradel Seniority Closed Population Estimation	RDHet RDFullhet RDHHet RDHHet RDBARHUg RDBARHUg RDBARKHEt RDBARKHEt RDBARKHET RDBARKHET RDBARKHET RDBARKHET RDBARKHET RDBARKHFOT RDB	Probust	S S S S S S S Phi	Gamma" Gamma" Gamma" r r r r r	Gamma' Gamma' Gamma' R R R R R	pi pi pi pi R' R' R'	p p Gamma" Gamma" Gamma"	c Gamma' Gamma' Gamma'	F F F F	pi	p p	fO c	fO
39 R 40 R 41 R 42 R 43 B 44 B 45 B 46 B 47 B 48 L 67 R 68 R	bust Design with Heterogeneity Estimator bust Design with Full Heterogeneity Estimator bust Design with Huggins' Het. Estimator bust Design with Huggins' Full Het. Estimator riker Live and Dead with Huggins' Robust Design riker Live and Dead with Heterogeneity Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design bust Design Pradel Seniority Closed Population Estimation bust Design Pradel Seniority Huggins' Closed Populations	RDHet RDFullhet RDHHet RDHHet RDHFHet RDBarkHug RDBarkHet RDBarkHet RDBarkHet RDBarkHhet RDBarkHhet RDBarkHet LYSMA RDPdGClosed RDPdGHuggins	Probust	S S S S S S S S S Phi Phi	Gamma" Gamma" Gamma" r r r r gamma Gamma Gamma Gamma	Gamma' Gamma' Gamma' R R R R R	pi pi pi pi pi R' R' R'	p p Gamma" Gamma" Gamma" Gamma" Gamma" Gamma"	c Gamma' Gamma' Gamma'	F F F F	pi	p p	fO C	fO
39 R 40 R 41 R 42 R 43 B 44 B 45 B 46 B 47 B 48 L 67 R 68 R	ibust Design with Heterogeneity Estimator bust Design with Full Heterogeneity Estimator bust Design with Huggins' Het. Estimator bust Design with Huggins' Full Het. Estimator bust Design with Huggins' Robust Design riker Live and Dead with Huggins' Robust Design riker Live and Dead with Heterogeneity Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Full Het. Robust Design skacs Young Survival from Marked Adults bust Design Pradel Seniority Closed Population Estimation	RDHet RDFullhet RDHHet RDHHet RDBARHUg RDBARHUg RDBARKHEt RDBARKHEt RDBARKHET RDBARKHET RDBARKHET RDBARKHET RDBARKHET RDBARKHFOT RDB	Probust	S S S S S S S Phi	Gamma" Gamma" Gamma" r r r r r	Gamma' Gamma' Gamma' R R R R R	pi pi pi pi R' R' R'	p p Gamma" Gamma" Gamma" Gamma"	c Gamma' Gamma' Gamma'	F F F F	pi	p p	fO C C	fO
39 R 40 R 41 R 42 R 43 B 44 B 45 B 47 B 48 L 67 R 68 R 69 R 70 R 71 R	bust Design with Heterogeneity Estimator bust Design with Full Heterogeneity Estimator bust Design with Huggins' Het. Estimator bust Design with Huggins' Het. Estimator rker Live and Dead with Huggins' Robust Design rker Live and Dead with Huggins' Robust Design rker Live and Dead with Full Het. Robust Design rker Live and Dead with Huggins' Het. Robust Design rker Live and Dead with Huggins' Het. Robust Design rker Live and Dead with Huggins' Het. Robust Design rker Live and Dead with Huggins' Full Het. Robust Design rker Live and Dead with Huggins' Full Het. Robust Design rker Live and Dead with Huggins' Full Het. Robust Design rker Live and Dead with Huggins' Closed Population bust Design Pradel Seniority Closed Captures with Heterogeneity bust Design Pradel Seniority Huggins' Closed Captures with Het. bust Design Pradel Seniority Huggins' Closed Captures with Het.	RDHet RDFullhet RDFHet RDHHet RDHFHet RDBarkHug RDBarkHet RDBarkHet RDBarkHet RDBarkHhet RDBarkHet RDBarkHet RDBarkHet LYSMA RDPdGClosed RDPdGHugjins RDPdGHet RDPdGFullhet RDPdGFullhet RDPdGFullhet RDPdGFullhet	Probust	S S S S S S S S Phi Phi Phi Phi Phi Phi	Gamma" Gamma" Gamma" r r r gamma gamma Gamma Gamma Gamma Gamma Gamma Gamma	Gamma' Gamma' Gamma' R R R R R p p	pi pi pi pi pi R' R' R' R'	p p p Gamma" Gamma" Gamma" Gamma" fo	c Gamma' Gamma' Gamma' Gamma'	F F F F	pi	p p	fO c	fo
39 R 40 R 41 R 42 R 43 B 44 B 45 B 46 B 47 B 48 L 67 R 68 R 70 R 71 R 72 R	bust Design with Heterogeneity Estimator bust Design with Full Heterogeneity Estimator bust Design with Huggins' Het. Estimator bust Design with Huggins' Full Het. Estimator bust Design with Huggins' Robust Design riker Live and Dead with Heterogeneity Robust Design riker Live and Dead with Huggins' Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Full Het. Robust Design riker Live and Sead with Huggins' Full Het. Robust Design kacs Young Survival from Marked Adults bust Design Pradel Seniority Closed Population Estimation bust Design Pradel Seniority Huggins' Closed Populations bust Design Pradel Seniority Full Closed Captures with Het. bust Design Pradel Seniority Huggins' Closed Captures with Het. bust Design Pradel Seniority Huggins' Closed Captures with Het.	RDHet RDFullhet RDFullhet RDHHet RDHHet RDBarkHug RDBarkHet RDPdGGlosed RDPdGHuggins RDPdGHuggins RDPdGHughet RDPdGHughet RDPdGHughet RDPdGHughet RDPdGHughet		S S S S S S S S Phi Phi Phi Phi Phi Phi Phi	Gamma" Gamma" Gamma" r r r r Gamma Gamma Gamma Gamma Gamma Gamma Gamma Gamma Gamma	Gamma' Gamma' Gamma' R R R R R p p	pi pi pi pi pi R' R' R' R'	p p p Gamma" Gamma" Gamma" Gamma" fon fo	c Gamma' Gamma' Gamma' Gamma'	F F F F	pi	p p	fo c	fo
39 R 40 R 41 R 42 R 43 B 44 B 45 B 46 R 69 R 70 R 71 R 79 R	bust Design with Heterogeneity Estimator bust Design with Huggins' Het. Estimator bust Design with Huggins' Het. Estimator bust Design with Huggins' Full Het. Estimator bust Design with Huggins' Full Het. Estimator wrker Live and Dead with Huggins' Robust Design riker Live and Dead with Huggins' Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design liver Live and Dead with Huggins' Full Het. Robust Design wrker Live and Dead with Huggins' Full Het. Robust Design bust Design Pradel Seniority Huggins' Closed Population blust Design Pradel Seniority Huggins' Closed Populations blust Design Pradel Seniority Full Closed Captures with Het. blust Design Pradel Seniority Huggins' Closed Captures with Het. blust Design Pradel Seniority Huggins' Full Closed Captures with Het. blust Design Pradel Seniority Huggins' Full Closed Captures with Het. blust Design Pradel Lambda Closed Population Estimation	RDHet RDFullhet RDFullhet RDHHet RDHHet RDBarkHug RDBarkHet RDPGGlosed RDPGGlosed RDPGGluggins RDPGGlugliet RDPGGHugfullhet RDPGGHugHet RDPGGHugHet RDPGGHugHet RDPGGHugHet RDPGLOsed		S S S S S S S Phi Phi Phi Phi Phi Phi Phi	Gamma" Gamma" Gamma" r r r r gamma	Gamma' Gamma' Gamma' R R R R P p p pi pi pi pi	pi pi pi pi pi R' R' R' R'	p p p Gamma" Gamma" Gamma" Gamma" fo	c Gamma' Gamma' Gamma' Gamma'	F F F F	pi	p p	fO c c	fo
39 R 40 R 41 R 42 R 43 B 44 B 45 B 46 B 47 B 48 L 67 R 68 R 70 R 71 R 72 R 79 R 80 R	bust Design with Heterogeneity Estimator bust Design with Full Heterogeneity Estimator bust Design with Huggins' Het. Estimator bust Design with Huggins' Full Het. Estimator bust Design with Huggins' Robust Design riker Live and Dead with Heterogeneity Robust Design riker Live and Dead with Huggins' Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Full Het. Robust Design riker Live and Sead with Huggins' Full Het. Robust Design kacs Young Survival from Marked Adults bust Design Pradel Seniority Closed Population Estimation bust Design Pradel Seniority Huggins' Closed Populations bust Design Pradel Seniority Full Closed Captures with Het. bust Design Pradel Seniority Huggins' Closed Captures with Het. bust Design Pradel Seniority Huggins' Closed Captures with Het.	RDHet RDFullhet RDFHet RDHHet RDHFHet RDBarkHug RDBarkHet RDBarkHet RDBarkHhet RDBarkHhet RDBarkHhet RDBarkHhet LYSMA RDPGGlosed RDPGGHugins RDPGGHet RDPGGHughet RDPGLCiosed		S S S S S S S S S Phi	Gamma" Gamma" Gamma" r Gamma" r r r gamma	Gamma' Gamma' Gamma' Gamma' R R R P P P P P P P P P P P P P P P P	pi pi pi pi pi R' R' R' R' R' P P	P P P Gamma" Gamma" Gamma" Gamma" fo T T T T T T T T T T T T T T T T T T	c Gamma' Gamma' Gamma' Gamma'	F F F F	pi	p p	fo c c	fo
39 R 40 R 41 R 41 R 42 R 43 B 44 B 45 B 46 B 47 B 67 R 68 R 70 R 71 R 72 R 79 R 80 R 81 R	bust Design with Heterogeneity Estimator bust Design with Huggins' Het. Estimator bust Design with Huggins' Het. Estimator bust Design with Huggins' Full Het. Estimator bust Design with Huggins' Full Het. Estimator wrker Live and Dead with Huggins' Robust Design riker Live and Dead with Huggins' Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design liver Live and Dead with Huggins' Full Het. Robust Design wrker Live and Dead with Huggins' Full Het. Robust Design bust Design Pradel Seniority Huggins' Closed Population blust Design Pradel Seniority Huggins' Closed Populations blust Design Pradel Seniority Full Closed Captures with Het. blust Design Pradel Seniority Huggins' Closed Captures with Het. blust Design Pradel Seniority Huggins' Full Closed Captures with Het. blust Design Pradel Seniority Huggins' Full Closed Captures with Het. blust Design Pradel Lambda Closed Population Estimation	RDHet RDFullhet RDFullhet RDHHet RDHHet RDBarkHug RDBarkHet RDPGGlosed RDPGGlosed RDPGGluggins RDPGGlugliet RDPGGHugfullhet RDPGGHugHet RDPGGHugHet RDPGGHugHet RDPGGHugHet RDPGLOsed		S S S S S S S Phi Phi Phi Phi Phi Phi Phi	Gamma" Gamma" Gamma" r r r r gamma	Gamma' Gamma' Gamma' R R R R P p p pi pi pi pi	pi pi pi pi pi R' R' R' R' C C C P P P	p p p Gamma" Gamma" Gamma" Gamma" fon fo	c Gamma' Gamma' Gamma' Gamma'	F F F F	pi	p p	fo c	fo
39 R 40 R 41 R 42 R 43 B 44 B 45 B 46 B 47 R 68 R 70 R 71 R 72 R 79 R 80 R 81 R 82 R 83 R	bust Design with Heterogeneity Estimator bust Design with Full Heterogeneity Estimator bust Design with Huggins' Het. Estimator bust Design with Huggins' Het. Estimator bust Design with Huggins' Het. Estimator riker Live and Dead with Huggins' Robust Design riker Live and Dead with Huggins' Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Full Het. Robust Design riker Live and Dead with Huggins' Full Closed Captures with Heterogeneity blust Design Pradel Seniority Huggins' Closed Captures with Het. blust Design Pradel Seniority Huggins' Closed Captures with Het. blust Design Pradel Lambda Closed Captures with Het. blust Design Pradel Lambda Closed Captures with Het. blust Design Pradel Lambda Closed Captures with Heterogeneity blust Design Pradel Lambda Closed Captures with Heterogeneity blust Design Pradel Lambda Full Closed Captures with Heterogeneity blust Design Pradel Lambda Full Closed Captures with Heterogeneity blust Design Pradel Lambda Full Closed Captures with Het. blust Design Pradel Lambda Full Closed Captures with Heterogeneity blust Design Pradel Lambda Full Closed Captures with Het. blust Design Pradel Lambda Full Closed Captures with Het.	RDHet RDFullhet RDFullhet RDHHet RDHHet RDBarkHug RDBarkHet RDBarkHet RDBarkHet RDBarkHhet RDBarkHhet RDBarkHhet RDBarkHhet RDBarkHhet LYSMA RDPGGlosed RDPGGHugins RDPGGHugins RDPGGHughet RDPGGHughet RDPGGHughet RDPGGHughet RDPGGHughet RDPGGHughet RDPGGHughet RDPGGHughet RDPGLISed RDPGLHet RDPGLIHet		S S S S S S S S S Phi	Gamma" Gamma" Gamma" Fr Fr Fr Gamma Lambda Lambda Lambda Lambda Lambda	Gamma' Gamma' Gamma' R R R R P P p p p p p p p p p p p p p p	pi pi pi pi pi R' R' R' R' C C C P P P P C C	P P P Gamma" Gamma" Gamma" Gamma" fo Gomma" comma" fo fo fo c	c Gamma' Gamma' Gamma' Gamma'	F F F F	pi	p p	f0 c	fo
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39 R 40 R 41 R 42 R 44 B 444 B 45 B 46 R 70 R 71 R 79 R 80 R 81 R 82 R 88 R 84 R 91 R 92 R 93 R 80 R 10	bust Design with Heterogeneity Estimator bust Design with Huggins' Het. Estimator bust Design with Huggins' Het. Estimator bust Design with Huggins' Full Het. Estimator with Huggins' Het. Estimator with Live and Dead with Huggins' Robust Design riker Live and Dead with Huggins' Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Full Robust Design riker Live and Dead with Huggins' Full Robust Design riker Live and Dead with Huggins' Full Robust Design riker Live and Dead with Huggins' Closed Populations blust Design Pradel Seniority Huggins' Closed Populations blust Design Pradel Seniority Huggins' Closed Captures with Het. blust Design Pradel Lambda Huggins' Full Closed Captures with Het. blust Design Pradel Lambda Huggins' Closed Populations blust Design Pradel Lambda Huggins' Closed Populations blust Design Pradel Lambda Huggins' Closed Captures with Het. blust Design Pradel Lambda Huggins' Full Closed Captures with Het. blust Design Pradel Lambda Huggins' Closed Captures with Het. blust Design Pradel Lambda Huggins' Closed Captures with Het. blust Design Pradel Recruitment Huggins' Closed Captures with Het. blust Design Pradel Recruitment Huggins' Closed Captures with Het. blust Design Pradel Recruitment Huggins' Closed Captures with Het. blust Design Pradel Recruitment Huggins' Closed Captures with Het. blust Design Pradel Recruitment Huggins' Closed Captures with Het. blust Design Pradel Recruitment Huggins' Full Closed Captures with Het. blust Design Pradel Recruitment Huggins' Full Closed Captures with Het. blust Design Pradel Recruitment Huggins' Full Closed Captures with Het. blust Design	RDHet RDFullhet RDFullhet RDHHet RDHHet RDHHet RDBarkHug RDBarkHet RDBarkHet RDBarkHet RDBarkHet RDBarkHet RDBarkHet RDBarkHet RDBarkHet RDPdGlosed RDPdGhuggins RDPdGHuggins RDPdGHuggins RDPdGFullhet RDPdGHughet RDPdGHughet RDPdGHughet RDPdGHughet RDPdHughet RDPdHughulhet RDPGHughulhet RDPGHUgh	?salamander	S S S S S S S S S S Phi	Gamma" Gamma" Gamma" r r r r r r r p Gamma famma Gamma famma	Gamma' Gamma' Gamma' R R R R R P P pi	pi pi pi pi pi ri R' R' R' R' R' C C C P P P C C C C P P P C C C C P	P P P P P P P P P P P P P P P P P P P	c Gamma' Gamma' Gamma' fo	F F F F	pi	p p	fO c c	f0
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39 R 40 R 41 R 42 R 42 R 43 B 44 B 45 B 66 R 66 R 70 R 81 R 82 R 83 R 84 R 91 R 99 S R 99 R 90 R 90 R 90 R 90 R 90 R	ibust Design with Heterogeneity Estimator blust Design with Huggins' Het. Estimator blust Design with Huggins' Het. Estimator blust Design with Huggins' Full Het. Estimator river Live and Dead with Huggins' Robust Design river Live and Dead with Huggins' Robust Design river Live and Dead with Huggins' Hot. Robust Design river Live and Dead with Huggins' Het. Robust Design river Live and Dead with Huggins' Het. Robust Design river Live and Dead with Huggins' Het. Robust Design river Live and Dead with Huggins' Het. Robust Design river Live and Dead with Huggins' Full Het. Robust Design river Live and Dead with Huggins' Full Het. Robust Design river Live and Dead with Huggins' Full Het. Robust Design river Live and Dead with Huggins' Full Het. Robust Design river Live and Dead with Huggins' Full Het. Robust Design river Live and Dead with Huggins' Closed Population bust Design Pradel Seniority Huggins' Closed Populations bust Design Pradel Seniority Huggins' Closed Captures with Het. bust Design Pradel Seniority Huggins' Full Closed Captures with Het. bust Design Pradel Lambda Closed Population Estimation bust Design Pradel Lambda Closed Population Estimation bust Design Pradel Lambda Closed Captures with Het. bust Design Pradel Lambda Full Closed Captures with Het. bust Design Pradel Lambda Huggins' Closed Captures with Het. bust Design Pradel Lambda Huggins' Closed Captures with Het. bust Design Pradel Lambda Huggins' Closed Captures with Het. bust Design Pradel Recruitment Huggins' Closed Captures with Het. bust Design Pradel Recruitment Huggins' Closed Captures with Het. bust Design Pradel Recruitment Huggins' Closed Captures with Het. bust Design Pradel Recruitment Huggins' Closed Captures with Het. bust Design Pradel Recruitment Huggins' Closed Captures with Het. bust Design Pradel Recruitment Huggins' Closed Captures with Het. bust Design Pradel Recruitment Huggins' Closed Captures with Het. bust Design Pradel Recruitment Huggins' Closed Captures with Het. bust Design Pradel Recruitment Huggins' Closed Cap	RDHet RDFullhet RDFullhet RDFHHet RDHHet RDHHet RDBarkHug RDBarkHug RDBarkHet RDBarkHet RDBarkHet RDBarkHet RDBarkHet RDBarkHet RDBarkHet RDBarkHet RDPGGlosed RDPGGlosed RDPGGHuggins RDPGGHuggins RDPGGHughet RDPGGHullhet RDPGGHughet RDPGLFullhet RDPGLFullhet RDPGLFullhet RDPGLFullhet RDPGLFullhet RDPGHughet RDOccuphet	?salamander	S S S S S S S S S S Phi	Gamma" Gamma" Gamma" r r r r r p Gamma F Gamma F F F F F F F F F F F F F F F F F F	Gamma' Gamma' Gamma' Gamma' R R R R P P P P P P P P P P P P P P P	pi pi pi pi pi R' R' R' R' c c c p p p p c c c c p p p p c c c c	P P P Gamma'' Gamma'' Gamma'' fo fo c c fo c fo c f f p p p p p p p p p p p p	c Gamma' Gamma' Gamma' fo	F F F F F F F F F F F F F F F F F F F	pi	p p	fO c c c	fo
39 R 40 R 41 R 41 R 42 R 43 B 44 B 44 B 45 B 66 R 70 R 77 R 77 R 77 R 77 R 77 R 77 R	ibust Design with Heterogeneity Estimator bust Design with Huggins' Full Het. Estimator bust Design with Huggins' Full Het. Estimator bust Design with Huggins' Full Het. Estimator river Live and Dead with Huggins' Robust Design river Live and Dead with Huggins' Robust Design river Live and Dead with Huggins' Het. Robust Design river Live and Dead with Huggins' Het. Robust Design river Live and Dead with Huggins' Het. Robust Design river Live and Dead with Huggins' Het. Robust Design river Live and Dead with Huggins' Het. Robust Design river Live and Dead with Huggins' Het. Robust Design river Live and Dead with Huggins' Het. Robust Design river Live and Dead with Huggins' Het. Robust Design river Live and Dead with Huggins' Het. Robust Design river Live and Dead with Huggins' Het. Robust Design river Live and Dead with Huggins' Het. Robust Design river Live and Dead with Huggins' Het. Robust Design river Live and Dead with Huggins' Closed Population blust Design Pradel Seniority Closed Captures with Het. blust Design Pradel Seniority Huggins' Closed Captures with Het. blust Design Pradel Seniority Huggins' Closed Captures with Het. blust Design Pradel Lambda Closed Population Estimation blust Design Pradel Lambda Glosed Captures with Het. blust Design Pradel Lambda Huggins' Closed Populations blust Design Pradel Lambda Huggins' Closed Captures with Het. blust Design Pradel Lambda Huggins' Closed Captures with Het. blust Design Pradel Lambda Huggins' Closed Captures with Het. blust Design Pradel Recruitment Closed Captures with Het. blust Design Pradel Recruitment Huggins' Closed Populations blust Design Pradel Recruitment Huggins' Closed Populations blust Design Pradel Recruitment Huggins' Closed Captures with Het. blust Design Pradel Recruitment Huggins' Closed Captures with Het. blust Design Pradel Recruitment Huggins' Closed Populations blust Design Pradel Recruitment Huggins' Closed Captures with Het. blust Design Pradel Recruitment Huggins' Closed Captures with Het. blust Design Pradel Recruitment Huggins'	RDHet RDFullhet RDFullhet RDFHHet RDHHet RDHHet RDBarkHug RDBarkHug RDBarkHet RDBarkHet RDBarkHet RDBarkHet RDBarkHet RDBarkHet RDBarkHet RDBarkHet RDBarkHet RDPdGlosed RDPdGHuggins RDPdGHug RDPdGHugHet RDPdGHugHet RDPdGHugHet RDPdGHugHet RDPdGHugHet RDPdGHugHet RDPdGHugHet RDPdGHugHet RDPdGHugHet RDPdHugFullhet RDPdHugHet RDPdHugHet RDPdHughet RDPdHugHet RDPdHugHet RDPdHugHet RDPdHugHet RDCcupHetPG ROCcupHetPG ROCcupHetPG ROCcupHetPG ROCcupRNNegBin ZSpecOccup LogitNormalMR	?salamander ?Donovan.7 ?Donovan.7 ?LogitNormalMR	S S S S S S S S S Phi	Gamma" Gamma" Gamma" r r r r r p Gamma F Gamma Gamma Gamma Gamma Gamma Gamma Gamma Cambda Lambda	Gamma' Gamma' Gamma' Gamma' R R R R P P P pi	pi pi pi pi pi R' R' R' R' R' C C C P P P P C C C C P P P P C C C C	P P P Gamma" Gamma" Gamma" fo c c fo c c c fo fo c c c p fo c c c p fo fo c c c c fo fo fo c c c c fo fo fo c c c c	c Gamma' Gamma' Gamma' fo fo fo	F F F F	pi	p p	fO c c	fO
40 R4 41 R4 84 84 84 85 86 87 87 88 81 R8 82 R8 88 84 R8 89 99 88 89 89 89 89 89 89 89 89 89 89	ibust Design with Heterogeneity Estimator blust Design with Huggins' Het. Estimator blust Design with Huggins' Het. Estimator blust Design with Huggins' Full Het. Estimator wither Live and Dead with Huggins' Robust Design riker Live and Dead with Huggins' Robust Design riker Live and Dead with Huggins' Hot. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Het. Robust Design riker Live and Dead with Huggins' Full Het. Robust Design riker Live and Dead with Huggins' Full Het. Robust Design riker Live and Dead with Huggins' Full Het. Robust Design riker Live and Dead with Huggins' Full Het. Robust Design riker Live and Dead with Huggins' Full Closed Captures with Het. blust Design Pradel Seniority Huggins' Closed Populations blust Design Pradel Seniority Huggins' Full Closed Captures with Het. blust Design Pradel Seniority Huggins' Full Closed Captures with Het. blust Design Pradel Lambda Closed Population Estimation blust Design Pradel Lambda Closed Population Estimation blust Design Pradel Lambda Huggins' Closed Populations blust Design Pradel Lambda Full Closed Captures with Het. blust Design Pradel Lambda Huggins' Closed Captures with Het. blust Design Pradel Lambda Huggins' Closed Captures with Het. blust Design Pradel Lambda Huggins' Closed Captures with Het. blust Design Pradel Recruitment Closed Captures with Het. blust Design Pradel Recruitment Huggins' Closed Captures with Het. blust Design Pradel Recruitment Huggins' Closed Captures with Het. blust Design Pradel Recruitment Huggins' Closed Captures with Het. blust Design Pradel Recruitment Huggins' Closed Captures with Het. blust Design Pradel Recruitment Huggins' Closed Captures with Het. blust Design Pradel Recruitment Huggins' Closed Captures with Het. blust Design Pradel Recruitment Huggins' Closed Captures with Het. blust Design Pradel Recru	RDHet RDFullhet RDFullhet RDHHet RDHHet RDHHet RDHHet RDBarkHug RDBarkHug RDBarkHet RDBarkHet RDBarkHet RDBarkHet RDBarkHet RDBarkHet RDBarkHet RDPdGClosed RDPdGGluggins RDPdGHuggins RDPdGHuggins RDPdGHughet RDPdHughulhet RDPdGHughet RDPdHughulhet RDPdGHughet RDPdHughulhet RDPdGHughulhet RDPdGHughet RDPdGuphet RDOccuphet	?salamander ?Donovan.7 ?Donovan.7 ?LogitNormalMR	S S S S S S S S Phi	Gamma" Gamma" Gamma" r r r r r r p Gamma F Gamma F Gamma Gamma Camma Gamma Camma Cam	Gamma' Gamma' Gamma' R R R R R P P P pi	pi pi pi pi pi R' R' R' R' R' C C C P P P P C C C C P P P P C C C C	P P P Gamma'' Gamma'' Gamma'' fo fo c c fo c fo c f f p p p p p p p p p p p p	c Gamma' Gamma' Gamma' fo fo fo	F F F F	pi	p p	fO C C	fO

117	Occupancy Estimation Royle Poisson Counts	OccupRPoisson	?Donovan.8	r	Lambda									
118	Occupancy Estimation Royle Negative Binomial Counts	OccupRNegBin	?Donovan.8	r	Lambda	VarAdd								
119	Open Robust Design Multi-state with State Probabilities	ORDMSState		S	Psi	Omega	pent	Phi	р					
120	nmigration-Emigration Logit-Normal Mark Resight	IELogitNormalMR	?IELogitNormalMR	р	sigma	Nbar	alpha	Nstar						
121	obust Design Multi-state Closed with Mis-classification	RDMSMisClass		S	Psi	pi	Omega	р	Delta					
122	obust Design Multi-state Closed with 2 Mis-classifications	RDMS2MisClass		S	Psi	pi	Omega	р	Delta					
123	Aulti-scale occupancy estimation	MultScalOcc	?larksparrow	Psi	Theta	р								
124	obust Design Multiple-State Occupancy Estimation Conditional Binomial	RDMSOccRepro		Phi0	Psi	R	р	Delta						
125	obust Design Multiple-State Occupancy Estimation General	RDMSOccupancy		Phi0	Psi	р								
126	obust Design Multi-state Open with Mis-classification	RDMSOpenMisClass		S	Psi	pi	Omega	р	Delta	pent	Phi			
127	ensity estimation with Huggins p and c	Densitypc		р	С	ptilde								
	Pensity estimation with Huggins heterogeneity pi and p	DensityHet		pi	р	ptilde								
129	Pensity estimation with Huggins full heterogeneity pi, p and c	DensityFHet		pi	p	С	ptilde							
130	ormack-Jolly-Seber model with Pledger mixtures radel Survival and Seniority with Pledger mixtures	CJSMixture		Phi Phi	Phi	р								
131 132	radel Survival and Seniority with Piedger mixtures radel Survival and Lambda with Piedger mixtures	PradSenMix PradLambdaMix		Phi	pi pi	p p	Gamma Lambda							
133	radel Survival and Recruitment with Pledger mixtures	PradelRecMix		Phi	pi pi	p	f							
134	ink-Barker Survival and Recruitment with Pledger mixtures	LinkBarkMix		Phi	pi	p	f							
135	ormack-Jolly-Seber model with Random Effects	CJSRandom		sigmaphi	Phi	sigmap	р							
136	ink-Barker Survival and Recruitment with Random Effects	LinkBarkRan		sigmaphi	Phi	sigmap	р	sigmaf	f					
137	wo species Conditional Occupancy Estimation	2SpecConOccup		PsiA	PsiBA	PsiBa	pA	рВ	rA	rBA	rBa			
138	urnham Live and Dead Encounters with Random Effects	BurnhamLDRE		sigmaS	S	sigmap	р		r	sigmaF	F			
139	ledger Mixture Dead Recoveries (Seber)	PMDead	?brownie	ni	S	r								
				pi										
1//0	Random Effects Dead Recoveries (Seher)		2hrownia	SigmaS										
	Random Effects Dead Recoveries (Seber)	REDead	?brownie	SigmaS	S	sigmar	r							
141	obust Design Two species Gamma Epsilon Conditional Occupancy Estimation	RD2SpGEConOcc	?brownie	SigmaS					Delte		_	-lab-		
141 142	obust Design Two species Gamma Epsilon Conditional Occupancy Estimation Robust Design Multi-state Open with State Uncertainty and Seasonal Effects	RD2SpGEConOcc RDMSOpenMCSeas	?brownie	SigmaS	Psi	pi	r Omega	р	Delta	pent	d	alpha	С	
141 142 143	obust Design Two species Gamma Epsilon Conditional Occupancy Estimation Robust Design Multi-state Open with State Uncertainty and Seasonal Effects Occupancy with correlated detections	RD2SpGEConOcc RDMSOpenMCSeas OccClus	?brownie	SigmaS	Psi	pi	Omega	р	Delta	pent	d	alpha	С	
141 142 143 144	obust Design Two species Gamma Epsilon Conditional Occupancy Estimation Robust Design Multi-state Open with State Uncertainty and Seasonal Effects Occupancy with correlated detections Occupancy with relaxed closure	RD2SpGEConOcc RDMSOpenMCSeas OccClus OccRelClos	?brownie	SigmaS S	Psi Psi	pi pent		p	Delta	pent	d	alpha	С	
141 142 143 144 145	obust Design Two species Gamma Epsilon Conditional Occupancy Estimation Nobust Design Multi-state Open with State Uncertainty and Seasonal Effects Occupancy with correlated detections Occupancy with relaxed closure Huggins' p and c with Random Effects	RD2SpGEConOcc RDMSOpenMCSeas OccClus OccRelClos HugginsRE	Pbrownie	SigmaS S p	Psi	pi	Omega	р	Delta	pent	d	alpha	С	
141 142 143 144 145	obust Design Two species Gamma Epsilon Conditional Occupancy Estimation Robust Design Multi-state Open with State Uncertainty and Seasonal Effects Occupancy with correlated detections Occupancy with relaxed closure	RD2SpGEConOcc RDMSOpenMCSeas OccClus OccRelClos HugginsRE RDHugginsRE	Pbrownie	SigmaS S p	Psi Psi	pi pent	Omega	р	Delta	pent	d	alpha	С	
141 142 143 144 145 146	obust Design Two species Gamma Epsilon Conditional Occupancy Estimation Nobust Design Multi-state Open with State Uncertainty and Seasonal Effects Occupancy with correlated detections Occupancy with relaxed closure Huggins' p and c with Random Effects	RD2SpGEConOcc RDMSOpenMCSeas OccClus OccRelClos HugginsRE	Pbrownie	SigmaS S p	Psi Psi	pi pent	Omega	р	Delta	pent	d	alpha	C	
141 142 143 144 145 146 147	obust Design Two species Gamma Epsilon Conditional Occupancy Estimation Robust Design Multi-state Open with State Uncertainty and Seasonal Effects Occupancy with correlated detections Occupancy with relaxed closure luggins' p and c with Random Effects Robust Design with Huggins' p and c with Random Effects	RD2SpGEConOcc RDMSOpenMCSeas OccClus OccRelClos HugginsRE RDHugginsRE	Prownie	SigmaS S p	Psi Psi	pi pent	Omega	p	Delta	pent	d	alpha	C	
141 142 143 144 145 146 147	obust Design Two species Gamma Epsilon Conditional Occupancy Estimation Robust Design Multi-state Open with State Uncertainty and Seasonal Effects Occupancy with correlated detections Occupancy with relaxed closure Juggins' p and c with Random Effects Robust Design with Huggins' p and c with Random Effects Closed Robust Design Multi-state Huggins' p and c with Random Effects	RD2SpGEConOcc RDMSOpenMCSeas OccClus OccRelClos HugginsRE RDHugginsRE HRECRDMS	Prownie	SigmaS S	Psi Psi	pi pent	Omega	p	Delta	pent	d	alpha	C	
141 142 143 144 145 146 147 148	obust Design Two species Gamma Epsilon Conditional Occupancy Estimation Robust Design Multi-state Open with State Uncertainty and Seasonal Effects Occupancy with correlated detections Occupancy with relaxed closure Huggins' p and c with Random Effects Robust Design with Huggins' p and c with Random Effects Closed Robust Design Multi-state Huggins' p and c with Random Effects Robust Design Padel Seniority Huggins' p and c with Random Effects	RD2SpGEConOcc RDMSOpenMCSeas OccClus OccRelClos HugginsRE RDHugginsRE HRECRDMS RDPDGHUGRE	Prownie	SigmaS S	Psi Psi	pi pent	Omega	p	Delta	pent	d	alpha	C	
141 142 143 144 145 146 147 148 149	Abobust Design Two species Gamma Epsilon Conditional Occupancy Estimation Nobust Design Multi-state Open with State Uncertainty and Seasonal Effects Occupancy with correlated detections Occupancy with relaxed closure Huggins' p and c with Random Effects Nobust Design with Huggins' p and c with Random Effects Closed Robust Design Multi-state Huggins' p and c with Random Effects Nobust Design Pradel Seniority Huggins' p and c with Random Effects Robust Design Pradel Seniority Huggins' p and c with Random Effects	RD25pGEConOcc RDMSOpenMCSeas Occclus OccRelClos HugginsRE RDHugginsRE HRECRDMS RDPDGHUGRE RDPDLHUGRE	Prownie	SigmaS S P P	Psi Psi	pi pent	Omega	p	Delta	pent	d	alpha	C	
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141 142 143 144 145 146 147 148 149 150 151	Abust Design Two species Gamma Epsilon Conditional Occupancy Estimation Robust Design Multi-state Open with State Uncertainty and Seasonal Effects Occupancy with correlated detections Occupancy with relaxed closure Juggins' p and c with Random Effects Robust Design with Huggins' p and c with Random Effects Closed Robust Design Multi-state Huggins' p and c with Random Effects Robust Design Pradel Seniority Huggins' p and c with Random Effects Robust Design Pradel I Lambda Huggins' p and c with Random Effects Robust Design Pradel f Huggins' p and c with Random Effects Robust Design Pradel f Huggins' p and c with Random Effects Robust Design Pradel f Huggins' a p and c with Random Effects Robust Design Pradel f Huggins' a p and c with Random Effects Robust Design Pradel f Huggins' a pand c with Random Effects Robust Design Pradel f Huggins' b and c with Random Effects	RD2SpGEConOcc RDMSOpenMCSeas OccClus OccRelClos HugginsRE RDHugginsRE RPHUgginsRE RPPDGHUGRE RDPDHUGRE RDPDFHUGRE ROPDFHUGRE ROPOGHUGRE ROPOGHUGRE ROPOGHUGRE ROPOGHUGRE ROPOGHUGRE ROPOGHUGRE	Prownie	SigmaS S P P	Psi Psi	pi pent	Omega	p	Delta	pent	d	alpha	c	
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