

Appendix B: Nocturnal Rodents

Table B-1. Summary statistics for nocturnal rodents at Aguajita Wash quadrat 1, 1997 – 2005, Organ Pipe Cactus N.M.

	1997	1998	1999	2000	2001	2002	2003	2004	2005
Murid total abundance	3	7	1	6	9	1	1	1	1
Murid total biomass (g)	138	920	133	756	1302	117	20	111	32
Heteromyid total abundance	37	25	35	37	37	34	29	42	46
Heteromyid total biomass (g)	688	450	645	629	605	625	450	838	892
Species richness	5	4	4	4	3	4	4	4	5
Diversity (H')	.907	0.902	0.647	0.709	0.663	0.474	0.865	1.037	0.965
Capture success, night 1	49%	37%	41%	51%	59%	45%	41%	53%	51%
Capture success, night 2	47%	53%	55%	57%	53%	41%	27%	63%	67%
Recaptures	30%	46%	41%	36%	35%	35%	23%	45%	33%

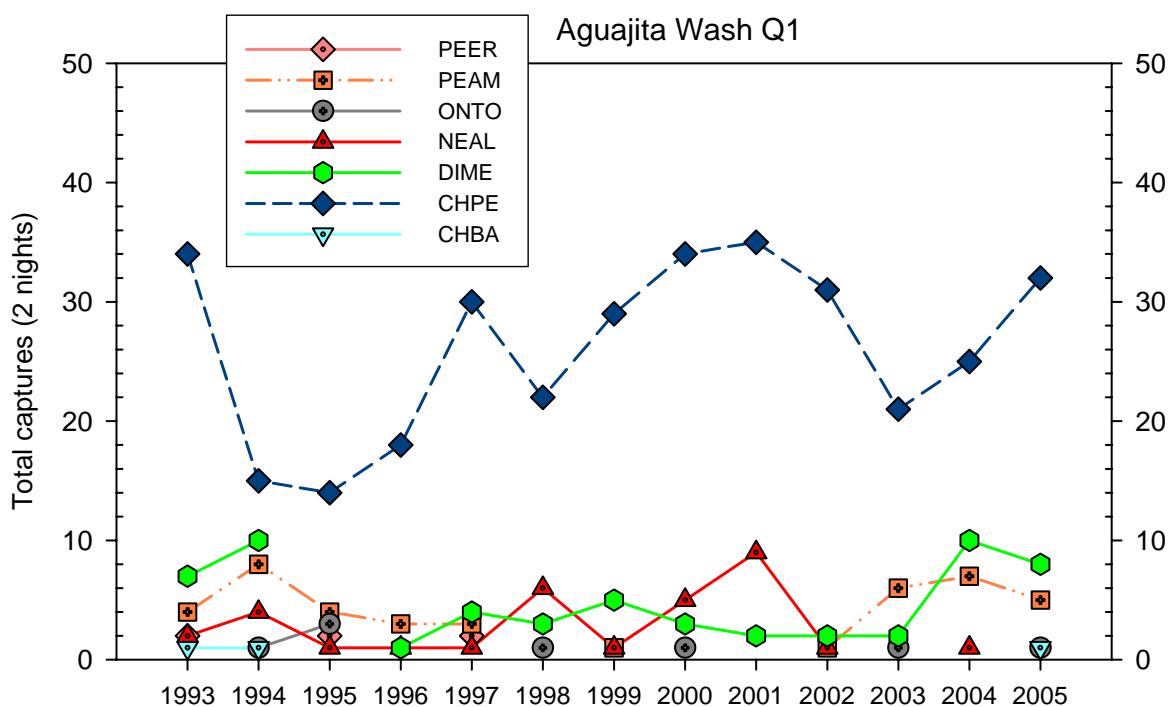


Figure B-1. Relative abundance of nocturnal rodent species at Aguajita Wash quadrat 1, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHPE = *Chaetodipus penicillatus*, DIME = *Dipodomys merriami*, NEAL = *Neotoma albigena*, ONTO = *Onychomys torridus*, PEAM = *Perognathus amplus*, PEER = *Peromyscus eremicus*)

Table B-2. Summary statistics for nocturnal rodents at Aguajita Wash quadrat 2, 1997 – 2005, Organ Pipe Cactus N.M.

	1997	1998	1999	2000	2001	2002	2003	2004	2005
Murid total abundance	0	5	3	3	7	1	1	2	3
Murid total biomass (g)	0	504	257	152	762	147	18	51	364
Heteromyid total abundance	34	23	35	26	32	28	24	47	39
Heteromyid total biomass (g)	734	515	712	533	554	582	445	976	894
Species richness	3	5	5	5	5	4	4	4	4
Diversity (H')	0.907	1.329	1.096	1.338	1.300	1.177	1.097	1.208	1.244
Capture success, night 1	47%	31%	47%	27%	55%	31%	43%	69%	55%
Capture success, night 2	55%	49%	55%	43%	45%	41%	16%	69%	61%
Recaptures	59%	46%	44%	24%	45%	30%	50%	56%	50%

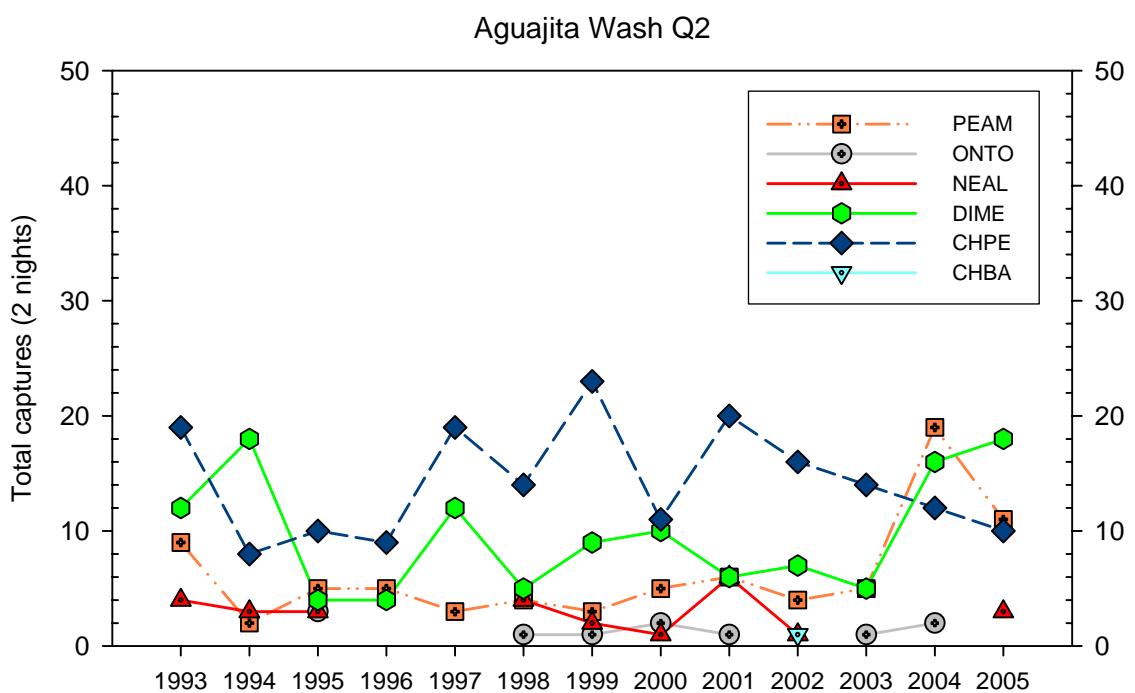


Figure B-2. Relative abundance of nocturnal rodent species at Aguajita Wash quadrat 2, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHPE = *Chaetodipus penicillatus*, DIME = *Dipodomys merriami*, NEAL = *Neotoma albigena*, ONTO = *Onychomys torridus*, PEAM = *Perognathus amplus*).

Table B-3. Summary statistics for nocturnal rodents at Alamo Canyon quadrat 1, 1997 – 2005, Organ Pipe Cactus N.M. (1998 = expanded grid)

	1997	1998	1999	2000	2001	2002	2003	2004	2005
Murid total abundance	12	10	4	7	3	6	18	21	
Murid total biomass (g)	966	611	431	753	437	474	886	1580	
Heteromyid total abundance	21	46	30	36	32	14	41	39	
Heteromyid total biomass (g)	277	819	402	682	610	217	499	855	
Species richness	5	5	5	5	3	5	5	5	
Diversity (H')	1.359	1.379	1.321	1.348	0.924	1.443	1.214	1.417	
Capture success, night 1	45%	65%	49%	53%	49%	18%	80%	76%	
Capture success, night 2	53%	73%	45%	51%	41%	33%	69%	69%	
Recaptures	58%	33%	55%	32%	45%	31%	41%	32%	

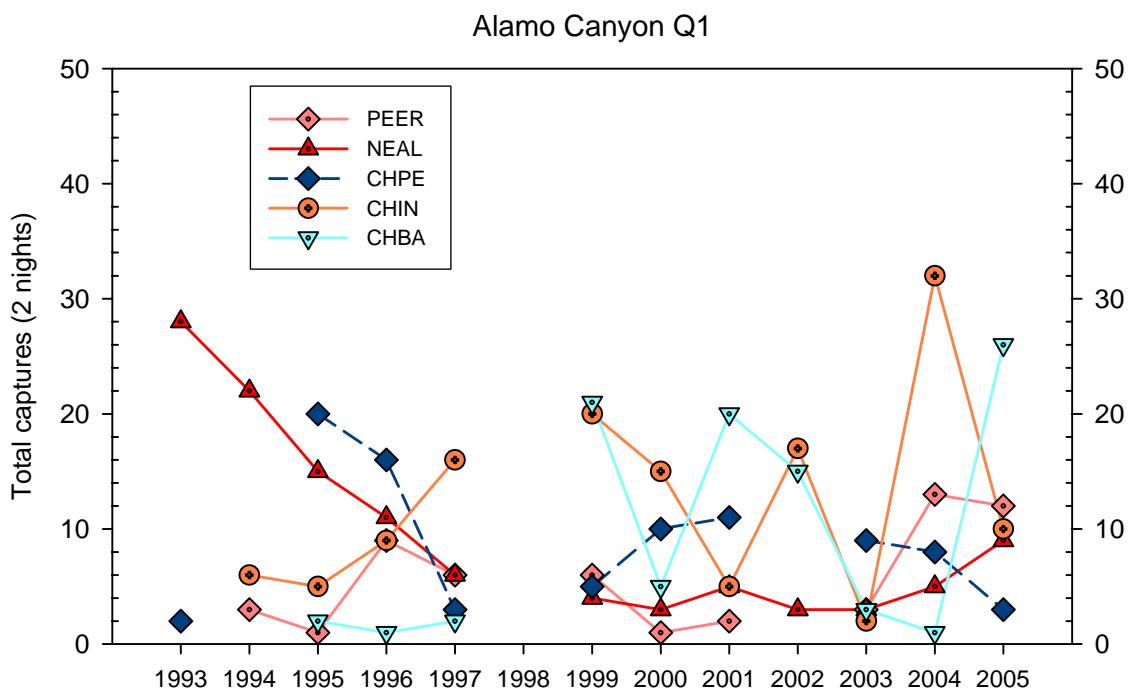


Figure B-3. Relative abundance of nocturnal rodent species at Alamo Canyon quadrat 1, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHIN = *Chaetodipus intermedius*, CHPE = *Chaetodipus penicillatus*, NEAL = *Neotoma albigena*, PEER = *Peromyscus eremicus*).

Table B-4. Summary statistics for nocturnal rodents at Alamo Canyon quadrat 2, 1997 – 2005, Organ Pipe Cactus N.M.

	1997	1998	1999	2000	2001	2002	2003	2004	2005
Murid total abundance	15	9	7	2	8	6	6	11	16
Murid total biomass (g)	1063	602	457	346	1429	782	869	398	1351
Heteromyid total abundance	11	6	44	26	30	30	6	40	35
Heteromyid total biomass (g)	177	118	919	450	629	713	162	536	1001
Species richness	5	5	5	4	4	5	4	5	5
Diversity (H')	1.508	1.490	1.076	1.188	0.959	0.971	1.144	1.253	1.017
Capture success, night 1	31%	12%	51%	35%	39%	43%	12%	51%	49%
Capture success, night 2	35%	24%	63%	31%	45%	45%	14%	67%	57%
Recaptures	35%	25%	16%	27%	14%	32%	14%	21%	4%

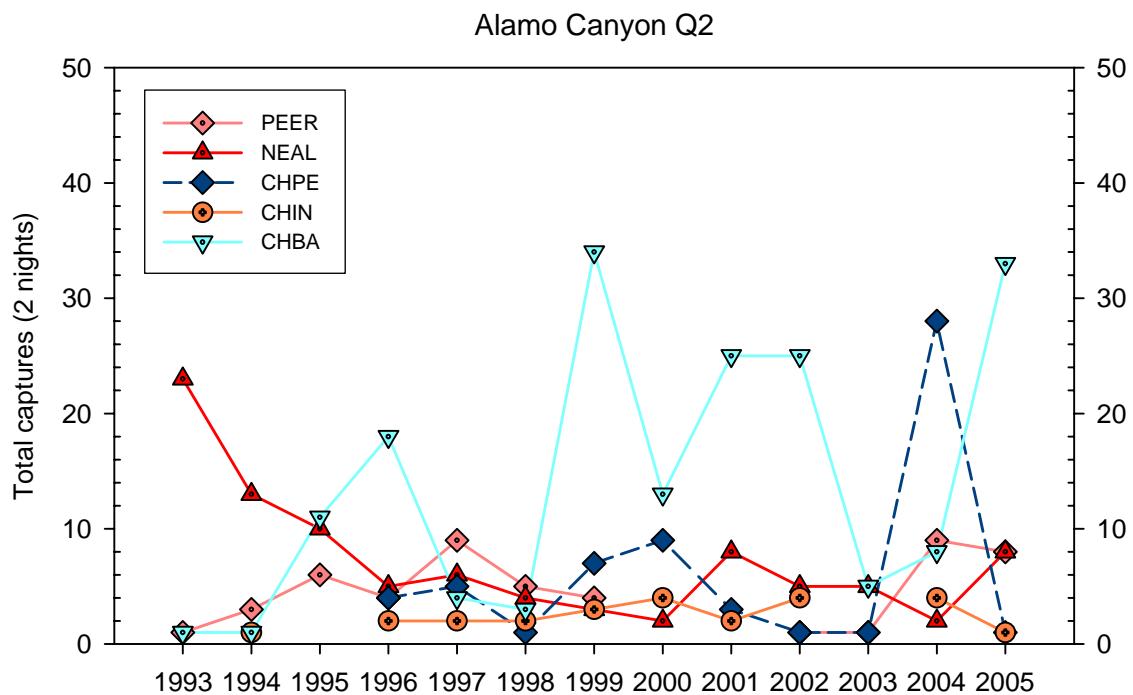


Figure B-4. Relative abundance of nocturnal rodent species at Alamo Canyon quadrat 2, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHIN = *Chaetodipus intermedius*, CHPE = *Chaetodipus penicillatus*, NEAL = *Neotoma albigena*, PEER = *Peromyscus eremicus*).

Table B-5. Summary statistics for nocturnal rodents at Armenta Ranch quadrat 1, 2001 – 2005, Organ Pipe Cactus N.M.

	2001	2002	2003	2004	2005
Murid total abundance	0	1	1	0	4
Murid total biomass	0	19	12	0	390
Heteromyid total abundance	41	48	28	24	14
Heteromyid total biomass	1084	1062	770	773	307
Species richness	4	5	4	3	5
Diversity (H')	1.096	1.295	1.017	0.544	1.349
Capture success, night 1	55%	57%	43%	33%	18%
Capture success, night 2	53%	63%	41%	41%	27%
Recaptures	46%	32%	60%	60%	31%

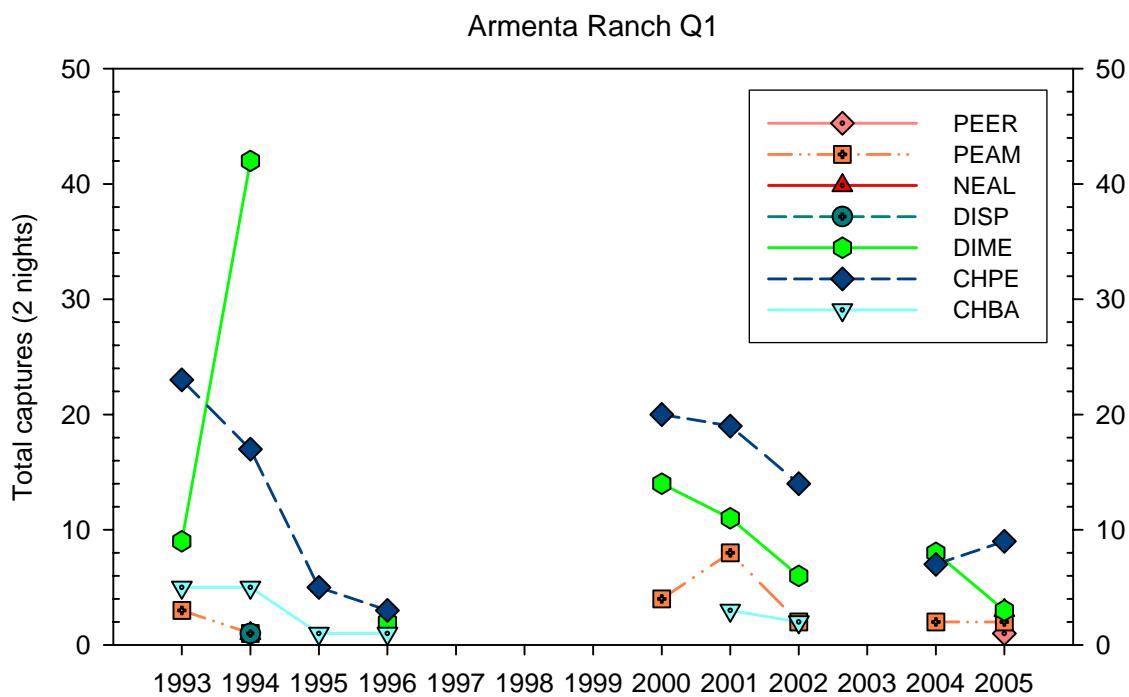


Figure B-5. Relative abundance of nocturnal rodent species at Armenta Ranch quadrat 1, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHPE = *Chaetodipus penicillatus*, DIME = *Dipodomys merriami*, DISP = *Dipodomys spectabilis*, NEAL = *Neotoma albigena*, PEAM = *Perognathus amplus*, PEER = *Peromyscus eremicus*).

Table B-6. Summary statistics for nocturnal rodents at Armenta Ranch quadrat 2, 2001 – 2005, Organ Pipe Cactus N.M.

	2000	2001	2002	2004	2005
Murid total abundance	0	1	1	0	2
Murid total biomass (g)	0	19	12	0	176
Heteromyid total abundance	41	48	28	24	20
Heteromyid total biomass (g)	1084	1062	770	773	531
Species richness	4	5	4	3	4
Diversity (H')	1.096	1.295	1.017	0.544	1.084
Capture success, night 1	55%	57%	43%	33%	31%
Capture success, night 2	53%	63%	41%	41%	33%
Recaptures	46%	32%	60%	60%	56%

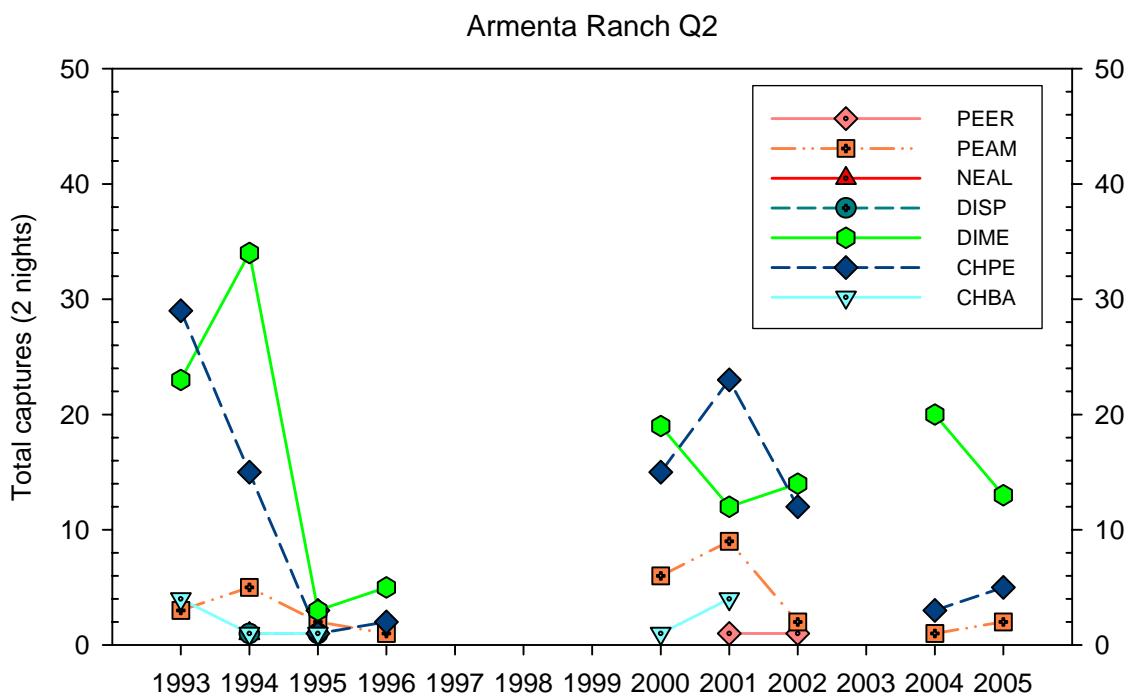


Figure B-6. Relative abundance of nocturnal rodent species at Armenta Ranch quadrat 2, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHPE = *Chaetodipus penicillatus*, DIME = *Dipodomys merriami*, DISP = *Dipodomys spectabilis*, NEAL = *Neotoma albigena*, PEAM = *Perognathus amplus*, PEER = *Peromyscus eremicus*).

Table B-7. Summary statistics for nocturnal rodents at Bull Pasture quadrat 1, 1997 – 2005, Organ Pipe Cactus N.M.

	1997	1998	1999	2000	2001	2002	2003	2004	2005
Murid total abundance	7	5	12	4	6	7	3	13	13
Murid total biomass (g)	519	541	632	347	420	218	330	899	790
Heteromyid total abundance	5	7	23	13	36	30	21	39	45
Heteromyid total biomass (g)	105	208	517	286	869	628	439	674	1058
Species richness	5	4	5	5	5	5	5	5	5
Diversity (H')	1.474	1.199	1.185	1.344	1.045	1.186	1.212	1.465	1.122
Capture success, night 1	14%	14%	39%	16%	49%	59%	29%	65%	73%
Capture success, night 2	18%	18%	53%	20%	51%	41%	31%	63%	69%
Recaptures	44%	44%	38%	10%	28%	60%	33%	35%	35%

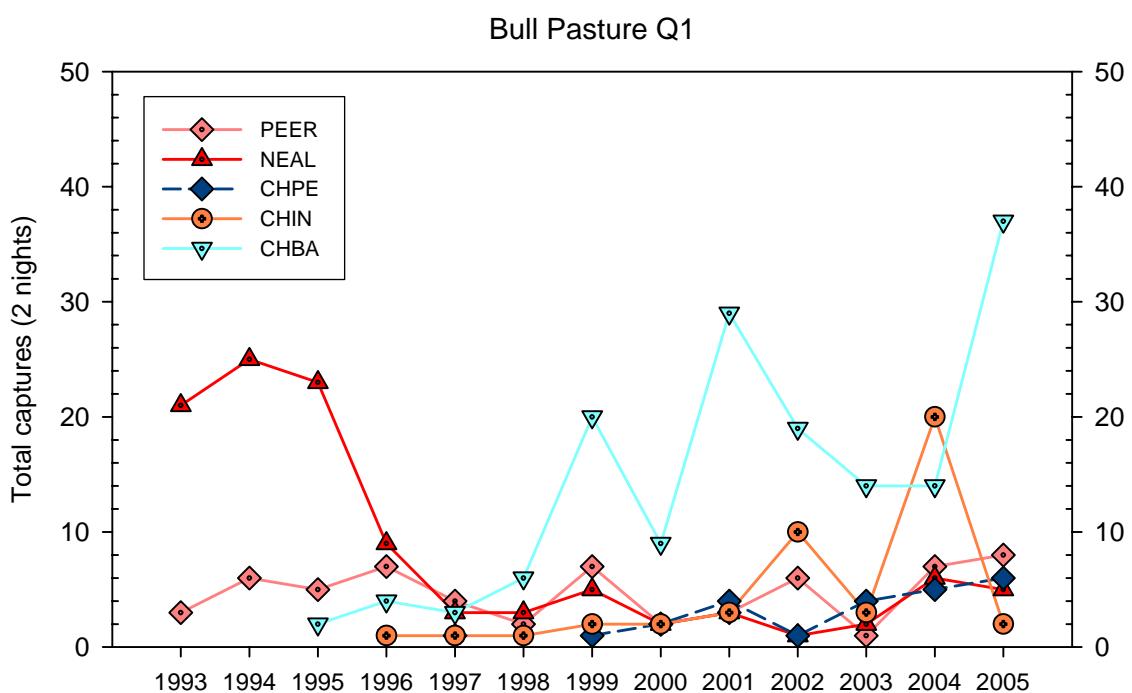


Figure B-7. Relative abundance of nocturnal rodent species at Bull Pasture quadrat 1, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHIN = *Chaetodipus intermedius*, CHPE = *Chaetodipus penicillatus*, NEAL = *Neotoma albigena*, PEER = *Peromyscus eremicus*).

Table B-8. Summary statistics for nocturnal rodents at Dos Lomitas quadrat 1, 1997 – 2005, Organ Pipe Cactus N.M.

	1997	1998	1999	2000	2001	2002	2003	2004	2005
Murid total abundance	3	3	0	1	3	2	2	3	7
Murid total biomass (g)	67	260	0	28	63	172	44	136	486
Heteromyid total abundance	39	13	46	54	31	30	28	41	34
Heteromyid total biomass (g)	1282	330	1061	1427	938	764	689	1007	732
Species richness	4	4	2	4	4	5	4	5	6
Diversity (H')	0.720	1.180	0.646	0.845	1.066	1.206	1.012	1.285	1.598
Capture success, night 1	45%	18%	61%	80%	47%	47%	41%	55%	43%
Capture success, night 2	63%	22%	61%	71%	47%	49%	43%	59%	67%
Recaptures	35%	36%	47%	54%	52%	63%	52%	41%	39%

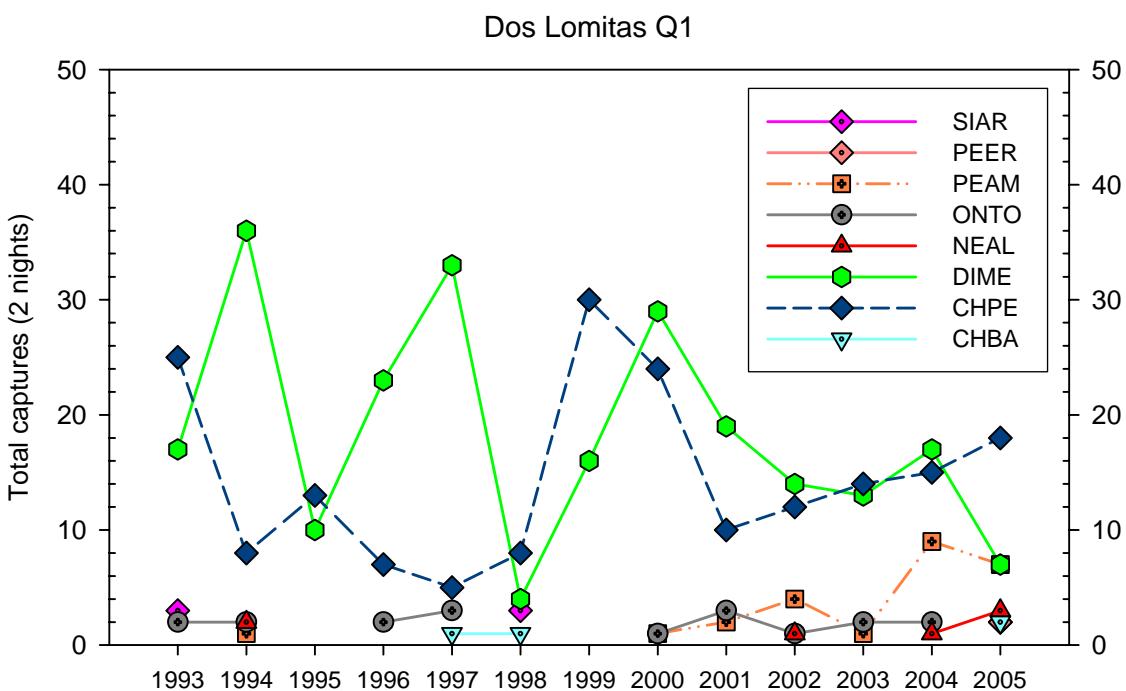


Figure B-8. Relative abundance of nocturnal rodent species at Dos Lomitas quadrat 1, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHPE = *Chaetodipus penicillatus*, DIME = *Dipodomys merriami*, NEAL = *Neotoma albigena*, ONTO = *Onychomys torridus*, PEAM = *Perognathus amplus*, PEER = *Peromyscus eremicus*, SIAR = *Sigmodon arizonae*).

Table B-9. Summary statistics for nocturnal rodents at Dos Lomitas quadrat 2, 1997 – 2005, Organ Pipe Cactus N.M.

	1997	1998	1999	2000	2001	2002	2003	2004	2005
Murid total abundance	1	3	0	0	1	0	0	4	4
Murid total biomass (g)	--	197	0	0	142	0	0	365	481
Heteromyid total abundance	38	28	49	47	34	44	33	51	47
Heteromyid total biomass (g)	919	687	1193	1221	886	915	695	1183	770
Species richness	4	4	2	2	3	3	5	5	5
Diversity (H')	0.878	0.920	0.616	0.687	0.796	0.816	1.153	1.077	0.875
Capture success, night 1	35%	33%	61%	78%	57%	59%	45%	69%	57%
Capture success, night 2	55%	43%	71%	76%	47%	61%	51%	82%	76%
Recaptures	19%	29%	46%	76%	70%	50%	56%	48%	38%

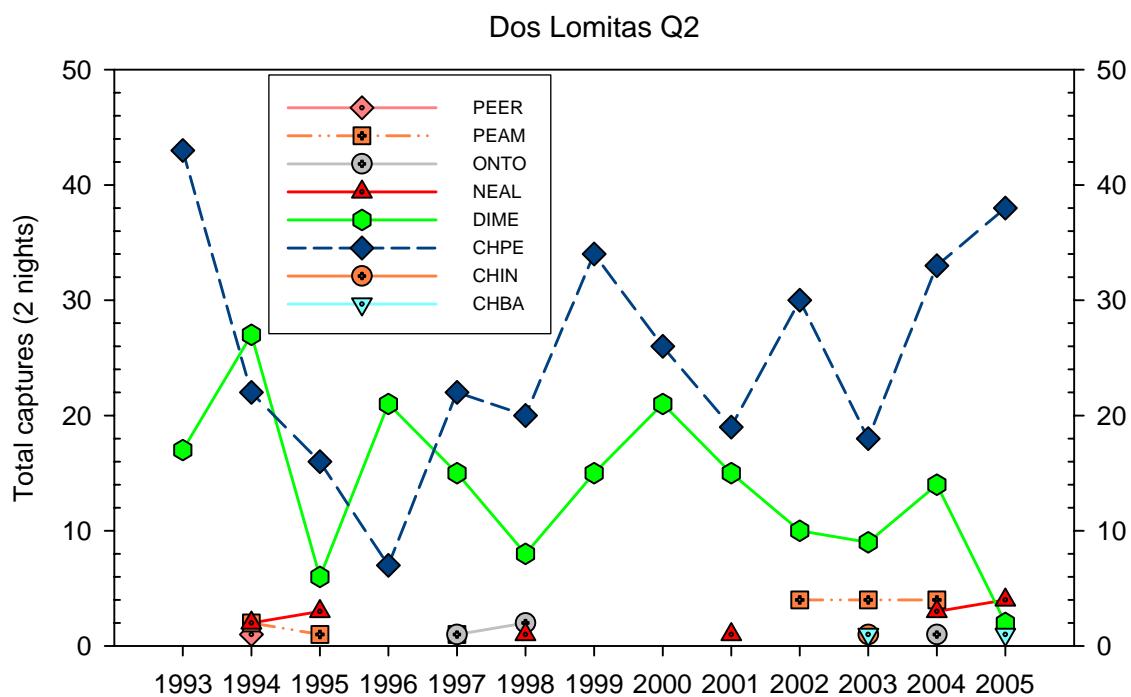


Figure B-9. Relative abundance of nocturnal rodent species at Dos Lomitas quadrat 2, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHIN = *Chaetodipus intermedius*, CHPE = *Chaetodipus penicillatus*, DIME = *Dipodomys merriami*, NEAL = *Neotoma albigena*, ONTO = *Onychomys torridus*, PEAM = *Perognathus amplus*, PEER = *Peromyscus eremicus*).

Table B-10. Summary statistics for nocturnal rodents at Dripping Springs quadrat 2, 1997 – 2005, Organ Pipe Cactus N.M.

	1997	2000	2001	2002	2003	2004	2005
Murid total abundance	4	6	9	5	15	18	17
Murid total biomass (g)	278	503	1098	523	2013	2147	2303
Heteromyid total abundance	30	46	27	33	25	50	34
Heteromyid total biomass (g)	543	780	466	587	436	988	755
Species richness	4	4	5	4	4	5	5
Diversity (H')	1.005	1.041	1.406	1.057	1.174	1.342	1.106
Capture success, night 1	49%	61%	53%	43%	51%	88%	67%
Capture success, night 2	39%	67%	37%	55%	55%	76%	57%
Recaptures	47%	33%	44%	37%	44%	32%	36%

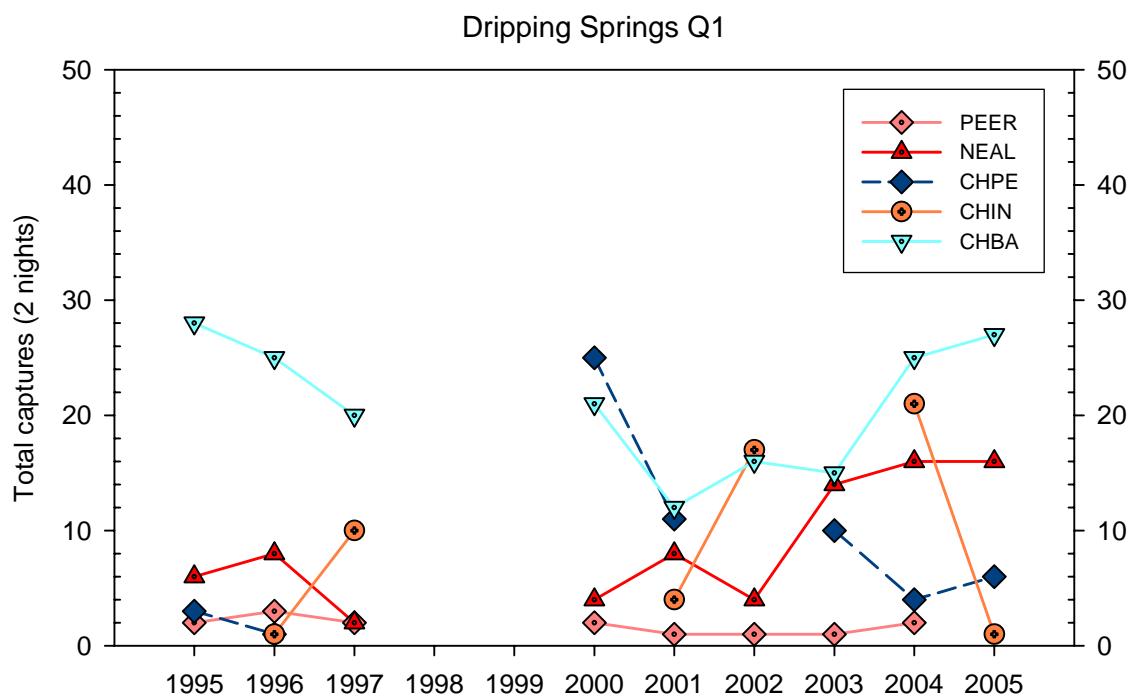


Figure B-10. Relative abundance of nocturnal rodent species at Dripping Springs quadrat 1, 1995 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHIN = *Chaetodipus intermedius*, CHPE = *Chaetodipus penicillatus*, NEAL = *Neotoma albigena*, PEER = *Peromyscus eremicus*).

Table B-11. Summary statistics for nocturnal rodents at East Armenta quadrat 1, 1997 – 2005, Organ Pipe Cactus N.M.

	1997	2000	2001	2002	2003	2004	2005
Murid total abundance	0	7	3	2	2	7	11
Murid total biomass (g)	0	888	549	243	305	1048	1495
Heteromyid total abundance	36	41	42	36	30	40	46
Heteromyid total biomass (g)	742	1104	936	632	500.8	950	834
Species richness	3	4	4	4	4	4	5
Diversity (H')	1.040	1.463	1.316	1.211	1.076	1.186	1.433
Capture success, night 1	45%	65%	55%	45%	31%	67%	65%
Capture success, night 2	49%	63%	65%	45%	71%	69%	76%
Recaptures	42%	48%	44%	27%	51%	59%	30%

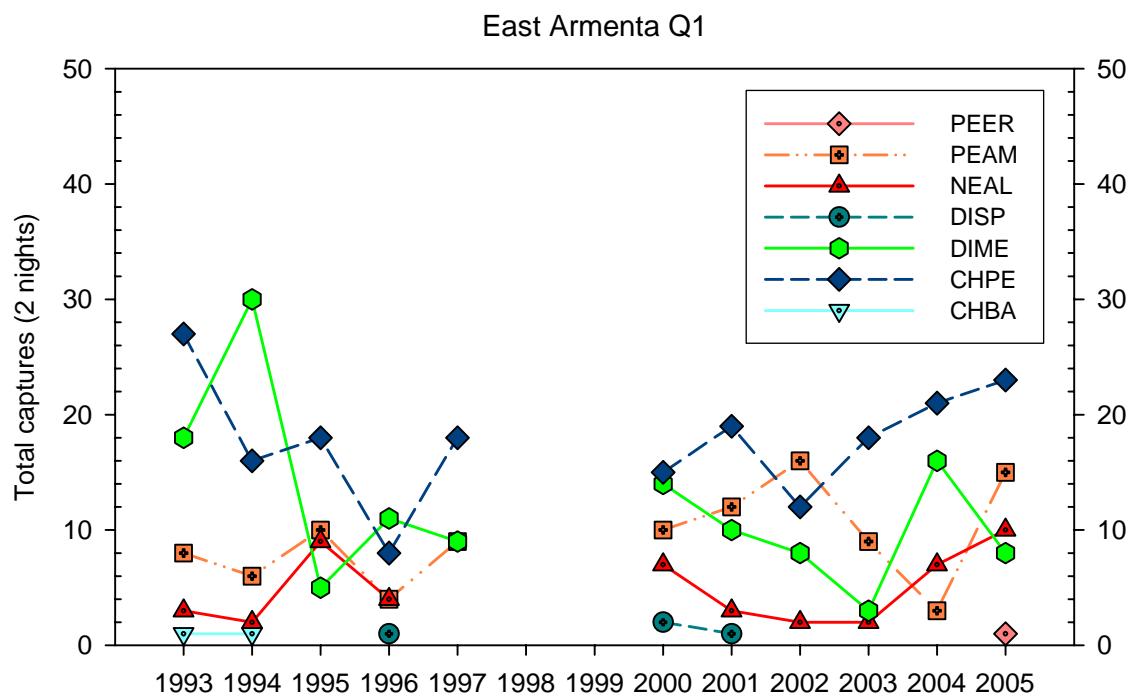


Figure B-11. Relative abundance of nocturnal rodent species at East Armenta quadrat 1, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHPE = *Chaetodipus penicillatus*, DIME = *Dipodomys merriami*, DISP = *Dipodomys spectabilis*, NEAL = *Neotoma albigena*, PEAM = *Perognathus amplus*, PEER = *Peromyscus eremicus*).

Table B-12. Summary statistics for nocturnal rodents at East Armenta quadrat 2, 1997 – 2005, Organ Pipe Cactus N.M.

	1997	1998	1999	2000	2001	2002	2003	2004	2005
Murid total abundance	4	2	2	4	8	2	3	6	15
Murid total biomass (g)	601	237	93	426	980	261	350	784	1871
Heteromyid total abundance	20	16	74	39	46	36	32	43	29
Heteromyid total biomass (g)	592	365	1412	846	998	732	511	1205	596
Species richness	5	4	5	4	4	4	4	5	4
Diversity (H')	1.423	1.149	1.144	1.277	1.311	1.190	1.173	1.343	1.355
Capture success, night 1	29%	14%	94%	53%	53%	51%	16%	59%	49%
Capture success, night 2	41%	31%	86%	61%	78%	55%	88%	67%	73%
Recaptures	50%	27%	29%	43%	26%	52%	37%	39%	42%

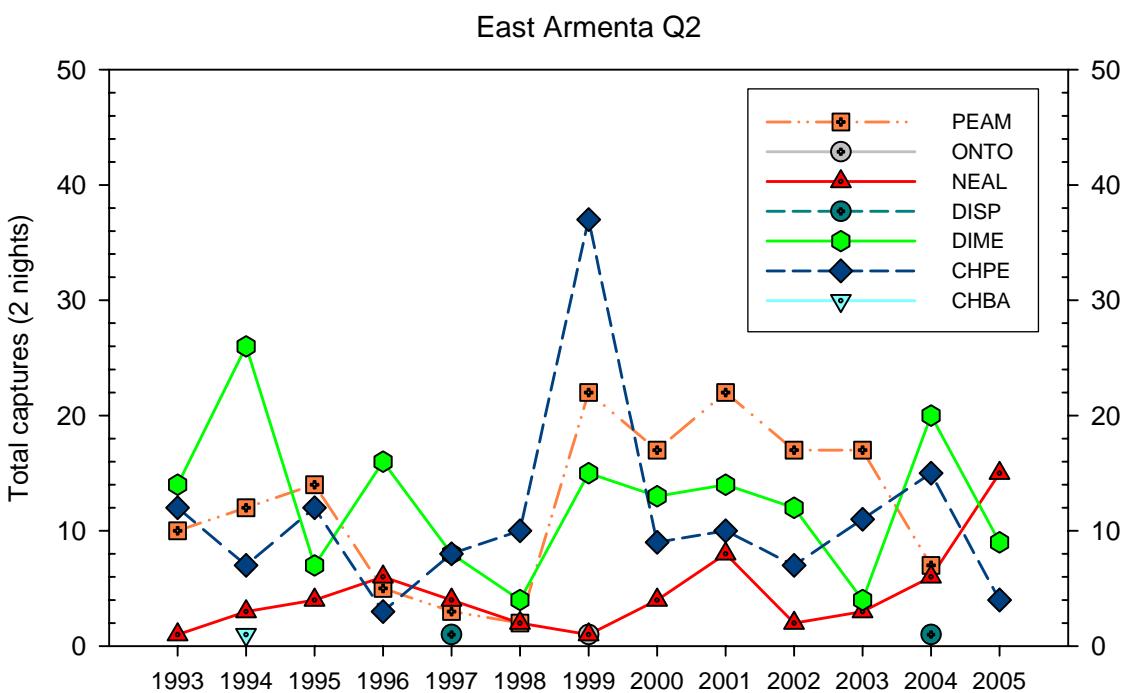


Figure B-12. Relative abundance of nocturnal rodent species at East Armenta quadrat 2, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHPE = *Chaetodipus penicillatus*, DIME = *Dipodomys merriami*, DISP = *Dipodomys spectabilis*, NEAL = *Neotoma albigena*, ONTO = *Onychomys torridus*, PEAM = *Perognathus amplus*).

Table B-13. Summary statistics for nocturnal rodents at Growler Canyon quadrat 1, 1997 – 2005, Organ Pipe Cactus N.M.

	1997	1998	1999	2000	2001	2002	2003	2004	2005
Murid total abundance	0	2	0	0	1	2	0	0	2
Murid total biomass (g)	0	265	0	0	17	262	0	0	285
Heteromyid total abundance	29	33	62	52	73	52	41	61	26
Heteromyid total biomass (g)	708	726	1632	1085	1289	1075	626	1369	504
Species richness	2	3	3	2	5	3	2	4	5
Diversity (H')	0.688	0.741	0.764	0.540	0.523	0.719	0.115	0.991	1.213
Capture success, night 1	45%	33%	71%	65%	86%	69%	53%	73%	27%
Capture success, night 2	45%	55%	71%	55%	88%	67%	57%	84%	45%
Recaptures	68%	30%	23%	26%	26%	39%	46%	39%	32%

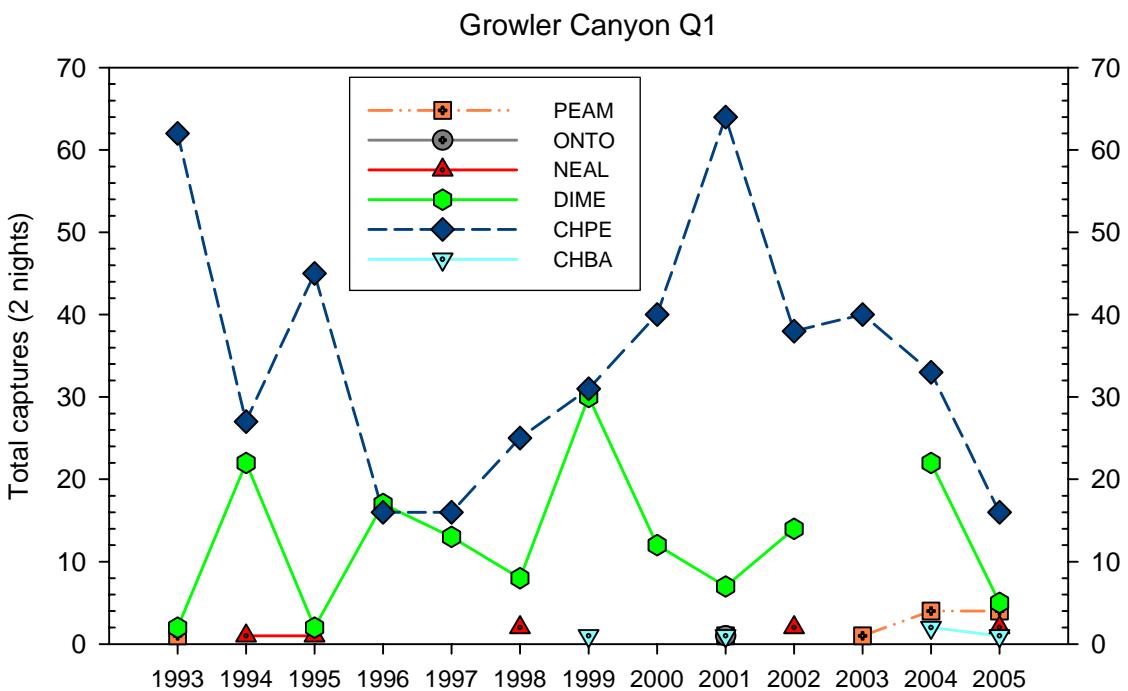


Figure B-13. Relative abundance of nocturnal rodent species at Growler Canyon quadrat 1, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHPE = *Chaetodipus penicillatus*, DIME = *Dipodomys merriami*, NEAL = *Neotoma albigena*, ONTO = *Onychomys torridus*, PEAM = *Perognathus amplus*).

Table B-14. Summary statistics for nocturnal rodents at Growler Canyon quadrat 2, 1997 – 2005, Organ Pipe Cactus N.M.

	1997	1998	1999	2000	2001	2002	2003	2004	2005
Murid total abundance	0	1	1	0	1	0	4	0	0
Murid total biomass (g)	0	156	13	0	142	0	612	0	0
Heteromyid total abundance	32	40	58	58	74	53	44	69	31
Heteromyid total biomass (g)	723	1062	1365	1175	1243	997	729	1229	631
Species richness	3	4	5	2	5	4	5	4	3
Diversity (H')	0.798	0.843	0.962	0.486	0.436	0.689	0.721	0.823	0.790
Capture success, night 1	35%	41%	61%	71%	90%	69%	51%	73%	31%
Capture success, night 2	49%	57%	76%	69%	86%	57%	61%	88%	41%
Recaptures	38%	25%	22%	32%	26%	32%	23%	23%	20%

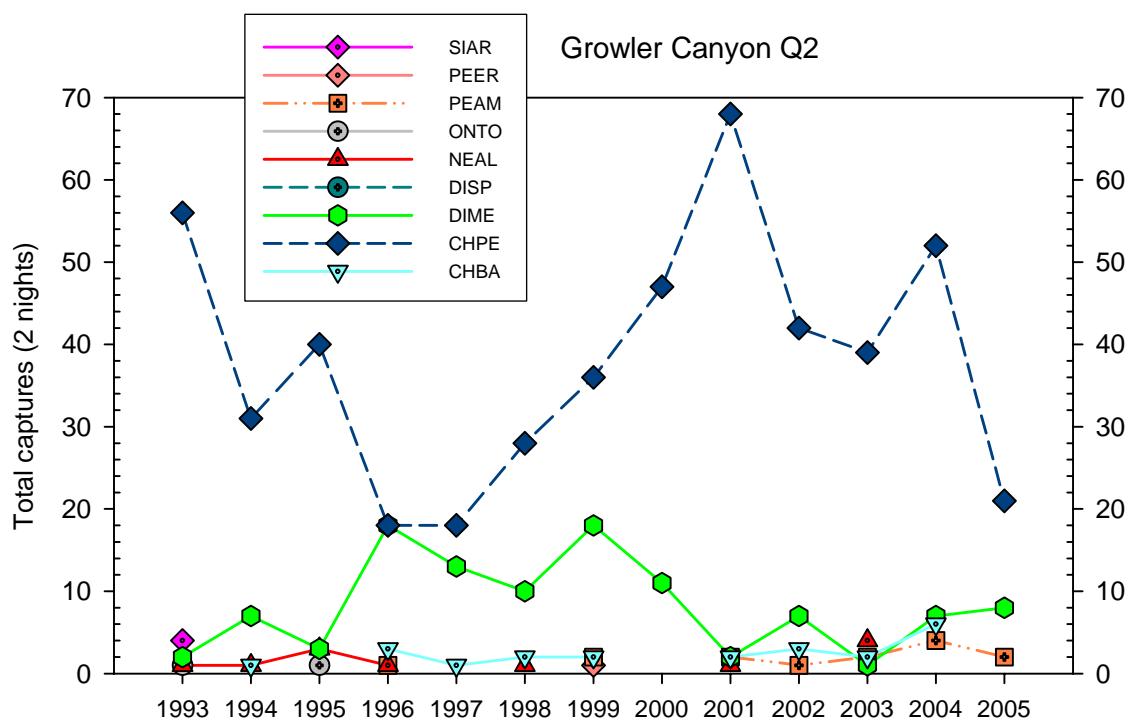


Figure B-14. Relative abundance of nocturnal rodent species at Growler Canyon quadrat 2, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHPE = *Chaetodipus penicillatus*, DIME = *Dipodomys merriami*, DISP = *Dipodomys spectabilis*, NEAL = *Neotoma albigena*, ONTO = *Onychomys torridus*, PEAM = *Perognathus amplus*, PEER = *Peromyscus eremicus*, SIAR = *Sigmodon arizonae*).

Table B-15. Summary statistics for nocturnal rodents at Lower Colorado Larrea quadrat 1, 1997 – 2005, Organ Pipe Cactus N.M.

	1997	2000	2001	2003	2004	2005
Murid total abundance	0	0	0	0	0	0
Murid total biomass (g)	0	0	0	0	0	0
Heteromyid total abundance	24	22	10	32	31	27
Heteromyid total biomass (g)	735	434	163	759	758	589
Species richness	2	3	3	3	2	2
Diversity (H')	0.287	0.837	0.943	1.013	0.811	0.659
Capture success, night 1	29%	33%	10%	29%	45%	27%
Capture success, night 2	31%	35%	16%	49%	43%	39%
Recaptures	33%	65%	38%	25%	57%	26%

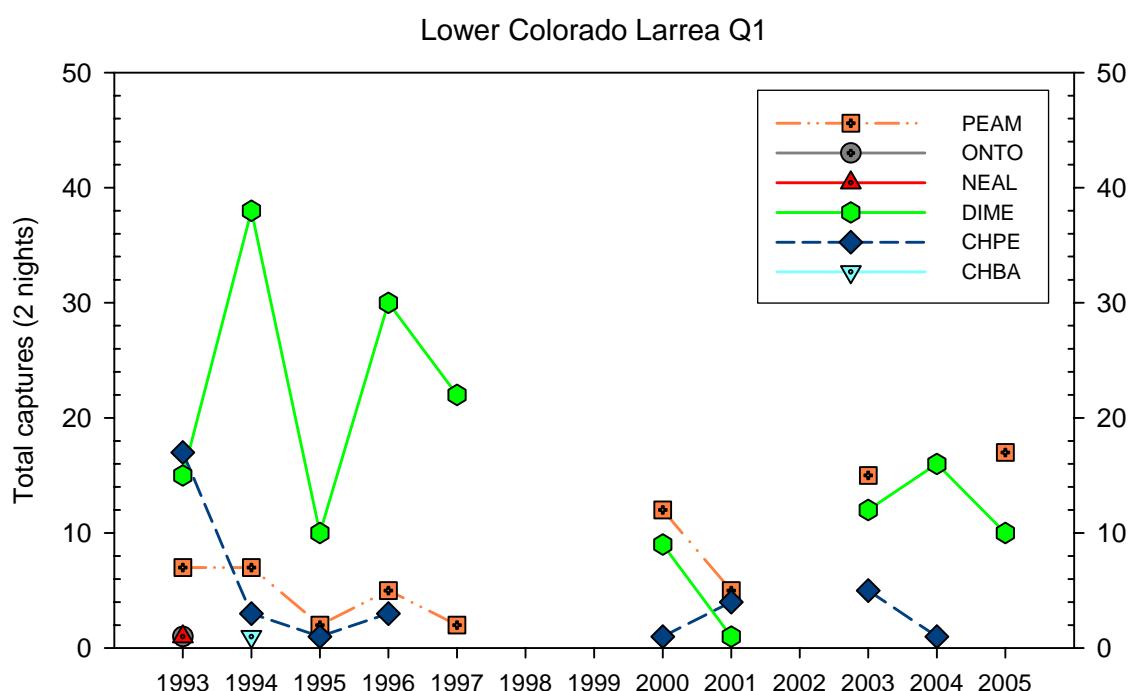


Figure B-15. Relative abundance of nocturnal rodent species at Lower Colorado Larrea quadrat 1, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHPE = *Chaetodipus penicillatus*, DIME = *Dipodomys merriami*, NEAL = *Neotoma albigena*, ONTO = *Onychomys torridus*, PEAM = *Perognathus amplus*).

Table B-16. Summary statistics for nocturnal rodents at Lower Colorado Larrea quadrat 2, 1997 – 2005, Organ Pipe Cactus N.M.

	1997	1998	1999	2000	2001	2003	2004	2005
Murid total abundance	0	0	0	0	1	0	0	1
Murid total biomass (g)	0	0	0	0	33	0	0	13
Heteromyid total abundance	24	8	53	26	8	36	37	37
Heteromyid total biomass (g)	676	191	1322	444	176	1151	896	737
Species richness	2	2	4	3	3	4	2	4
Diversity (H')	0.512	0.662	0.854	0.828	0.937	1.214	0.693	0.959
Capture success, night 1	41%	6%	82%	33%	8%	20%	63%	27%
Capture success, night 2	33%	12%	49%	39%	14%	57%	47%	65%
Recaptures	75%	17%	46%	47%	29%	7%	74%	19%

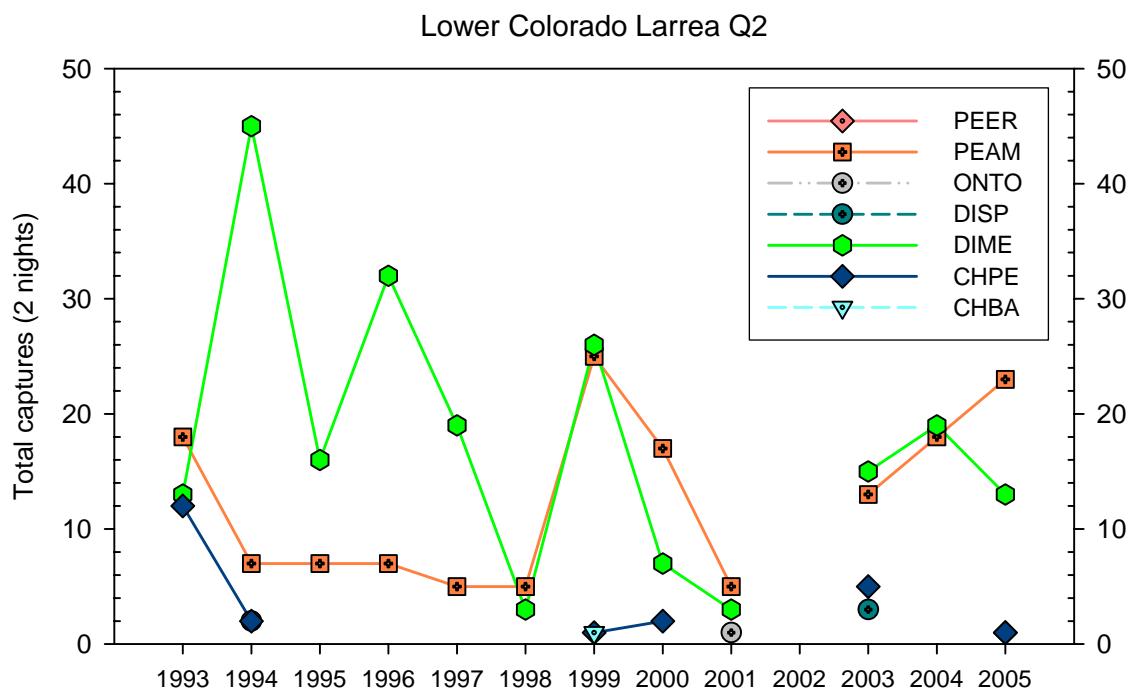


Figure B-16. Relative abundance of nocturnal rodent species at Lower Colorado Larrea quadrat 2, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHPE = *Chaetodipus penicillatus*, DIME = *Dipodomys merriami*, DISP = *Dipodomys spectabilis*, ONTO = *Onychomys torridus*, PEAM = *Perognathus amplus*, PEER = *Peromyscus eremicus*).

Table B-17. Summary statistics for nocturnal rodents at Middle Bajada quadrat 1, 1997 – 2005, Organ Pipe Cactus N.M.

	1997	1998	1999	2000	2001	2002	2003	2004	2005
Murid total abundance	1	1	2	3	1	0	3	5	3
Murid total biomass (g)	20	160	162	233	156	0	478	781	402
Heteromyid total abundance	20	10	30	40	41	21	14	60	40
Heteromyid total biomass (g)	342	218	701	801	877	433	241	1158	987
Species richness	5	4	5	6	5	5	5	6	6
Diversity (H')	1.073	1.241	0.716	1.213	0.854	1.354	1.564	1.288	1.060
Capture success, night 1	24%	14%	35%	53%	49%	29%	16%	82%	43%
Capture success, night 2	29%	8%	47%	67%	49%	18%	33%	84%	55%
Recaptures	36%	0	35%	48%	25%	22%	44%	39%	19%

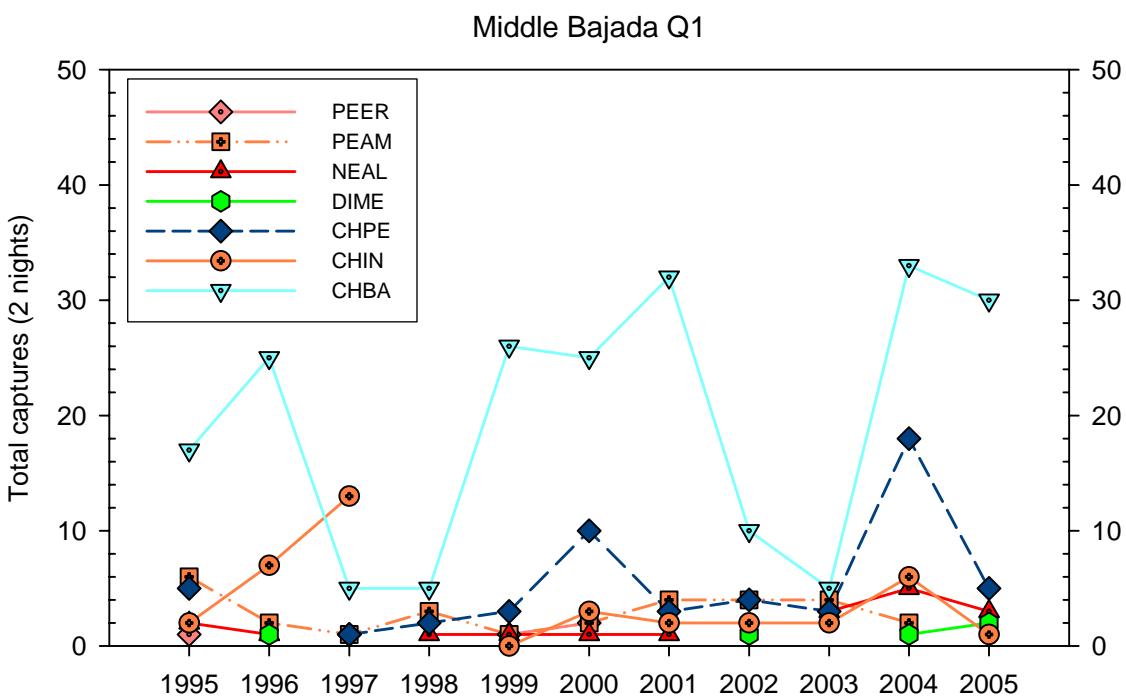


Figure B-17. Relative abundance of nocturnal rodent species at Middle Bajada quadrat 1, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHIN = *Chaetodipus intermedius*, CHPE = *Chaetodipus penicillatus*, DIME = *Dipodomys merriami*, NEAL = *Neotoma albigena*, PEAM = *Perognathus amplus*, PEER = *Peromyscus eremicus*).

Table B-18. Summary statistics for nocturnal rodents at Middle Bajada quadrat 2, 1997 – 2005, Organ Pipe Cactus N.M.

	1997	2000	2001	2002	2003	2004	2005
Murid total abundance	0	0	0	0	1	3	3
Murid total biomass (g)	0	0	0	0	155	318	446
Heteromyid total abundance	12	49	50	29	22	52	46
Heteromyid total biomass (g)	228	1201	1133	749	521	1262	1392
Species richness	3	4	4	3	4	5	4
Diversity (H')	0.918	0.849	0.746	0.964	1.068	1.293	0.933
Capture success, night 1	18%	63%	73%	41%	12%	71%	49%
Capture success, night 2	14%	76%	53%	35%	47%	78%	73%
Recaptures	57%	51%	46%	47%	30%	47%	31%

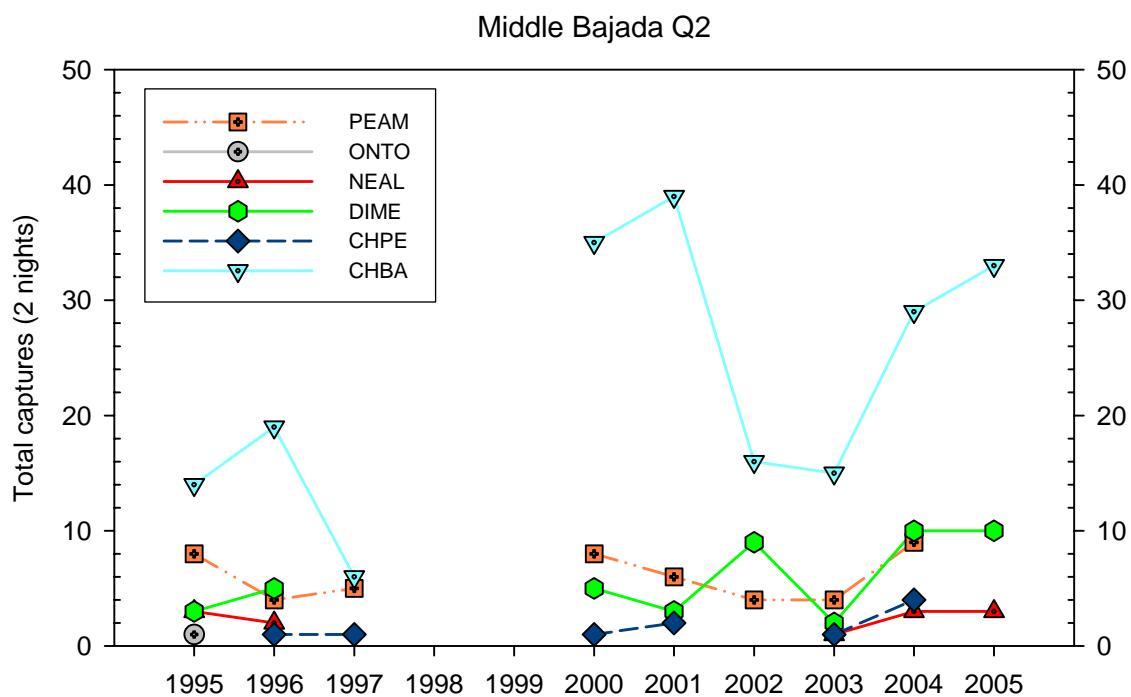


Figure B-18. Relative abundance of nocturnal rodent species at Middle Bajada quadrat 2, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHPE = *Chaetodipus penicillatus*, DIME = *Dipodomys merriami*, NEAL = *Neotoma albigena*, ONTO= *Onychomys torridus*, PEAM = *Perognathus amplus*).

Table B-19. Summary statistics for nocturnal rodents at Pozo Nuevo quadrat 1, 1997 – 2005, Organ Pipe Cactus N.M.

	1997	1998	1999	2000	2001	2002	2003	2004	2005
Murid total abundance	0	0	0	0	0	0	0	0	2
Murid total biomass (g)	0	0	0	0	0	0	0	0	103
Heteromyid total abundance	6	14	16	17	9	12	19	40	40
Heteromyid total biomass (g)	84	407	303	246	229	259	446	1082	1055
Species richness	4	3	3	3	4	2	3	4	4
Diversity (H')	1.242	0.992	0.865	0.959	1.149	0.693	0.857	1.009	1.001
Capture success, night 1	10%	18%	24%	20%	8%	20%	20%	59%	45%
Capture success, night 2	6%	16%	18%	27%	14%	8%	31%	47%	61%
Recaptures	67%	38%	56%	46%	29%	50%	40%	52%	27%

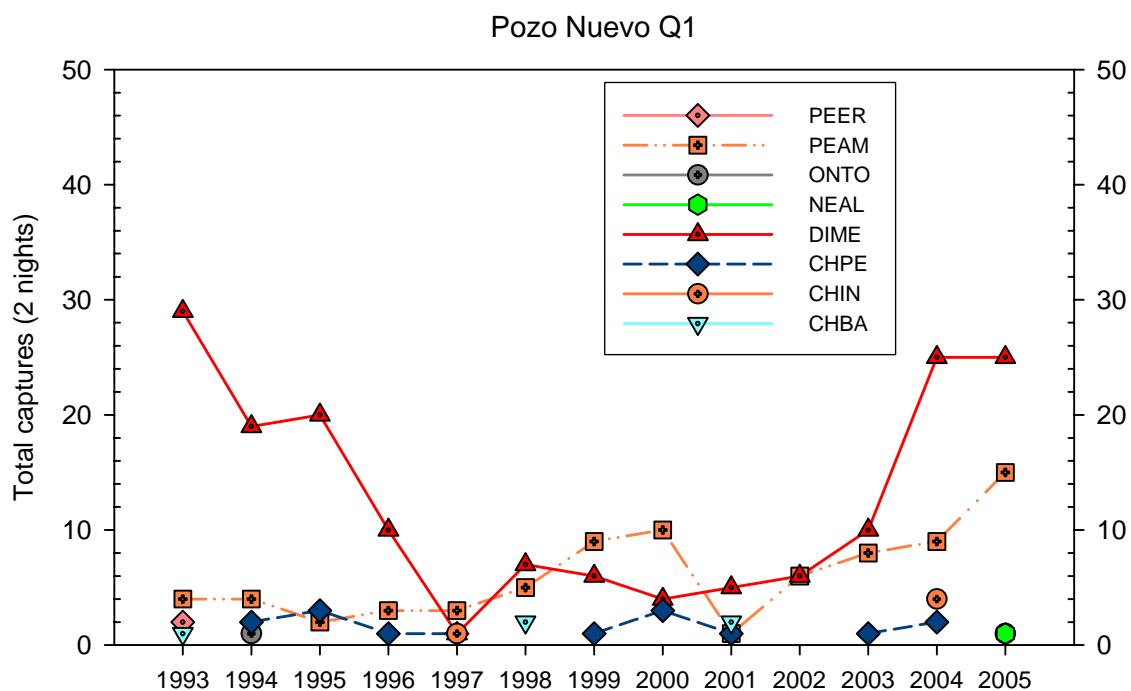


Figure B-19. Relative abundance of nocturnal rodent species at Pozo Nuevo quadrat 1, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHIN = *Chaetodipus intermedius*, CHPE = *Chaetodipus penicillatus*, DIME = *Dipodomys merriami*, NEAL = *Neotoma albigena*, ONTO = *Onychomys torridus*, PEAM = *Perognathus amplus*, PEER = *Peromyscus eremicus*).

Table B-20. Summary statistics for nocturnal rodents at Pozo Nuevo quadrat 2, 1997 – 2005, Organ Pipe Cactus N.M.

	1997	1998	1999	2000	2001	2002	2003	2004	2005
Murid total abundance	0	0	0	0	0	0	0	1	1
Murid total biomass (g)	0	0	0	0	0	0	0	93	115
Heteromyid total abundance	11	19	30	31	19	23	21	44	33
Heteromyid total biomass (g)	307	517	754	675	537	660	450	1161	1045
Species richness	3	4	3	3	3	3	3	4	3
Diversity (H')	0.760	1.297	1.010	0.973	0.766	0.822	0.999	1.002	1.023
Capture success, night 1	20%	22%	35%	51%	27%	35%	16%	57%	43%
Capture success, night 2	16%	24%	41%	43%	27%	16%	41%	49%	51%
Recaptures	88%	33%	35%	71%	54%	25%	35%	29%	36%

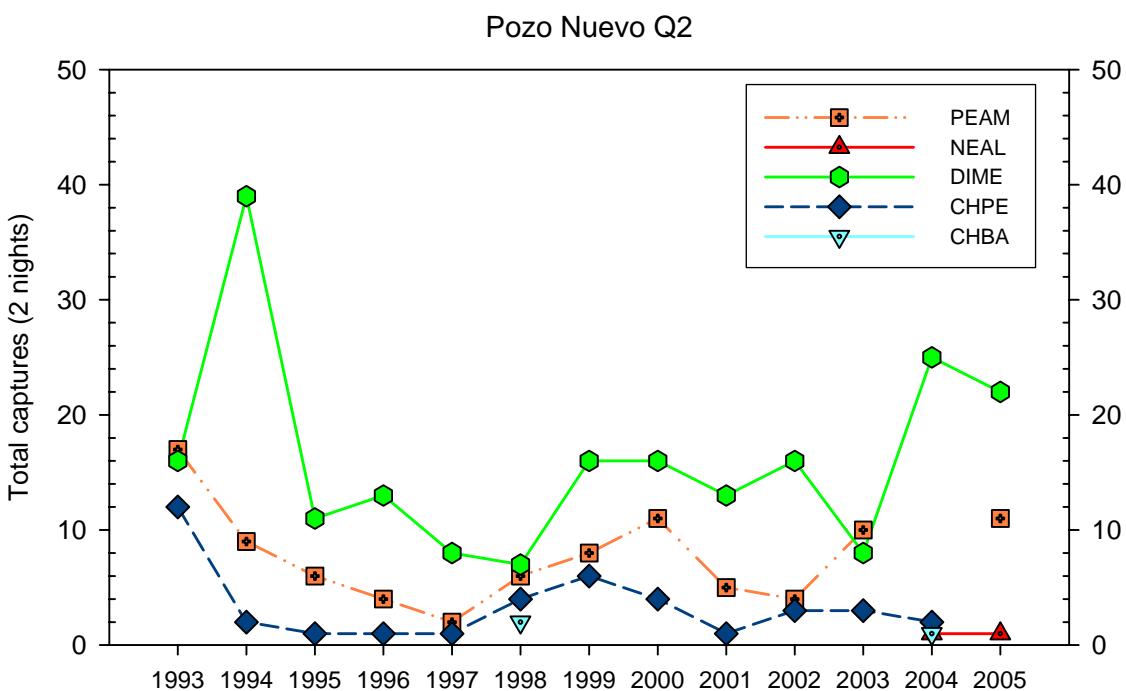


Figure B-20. Relative abundance of nocturnal rodent species at Pozo Nuevo quadrat 2, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHPE = *Chaetodipus penicillatus*, DIME = *Dipodomys merriami*, NEAL = *Neotoma albigena*, PEAM = *Perognathus amplus*).

Table B-21. Summary statistics for nocturnal rodents at Quitobaquito quadrat 1, 1997 – 2005, Organ Pipe Cactus N.M.

	1997	1998	1999	2000	2001	2002	2003	2004	2005
Murid total abundance	15	16	15	18	23	12	7	27	38
Murid total biomass (g)	1230	1575	430	2079	2373	1066	544	2422	2170
Heteromyid total abundance	30	16	45	22	32	17	28	30	13
Heteromyid total biomass (g)	366	196	559	269	363	235	303	381	204
Species richness	4	4	4	3	3	3	3	4	5
Diversity (H')	1.153	1.206	1.285	0.993	1.204	1.154	1.116	1.477	1.296
Capture success, night 1	55%	41%	78%	53%	76%	29%	41%	78%	61%
Capture success, night 2	65%	37%	63%	53%	63%	39%	53%	78%	71%
Recaptures	44%	33%	29%	46%	42%	21%	42%	50%	40%

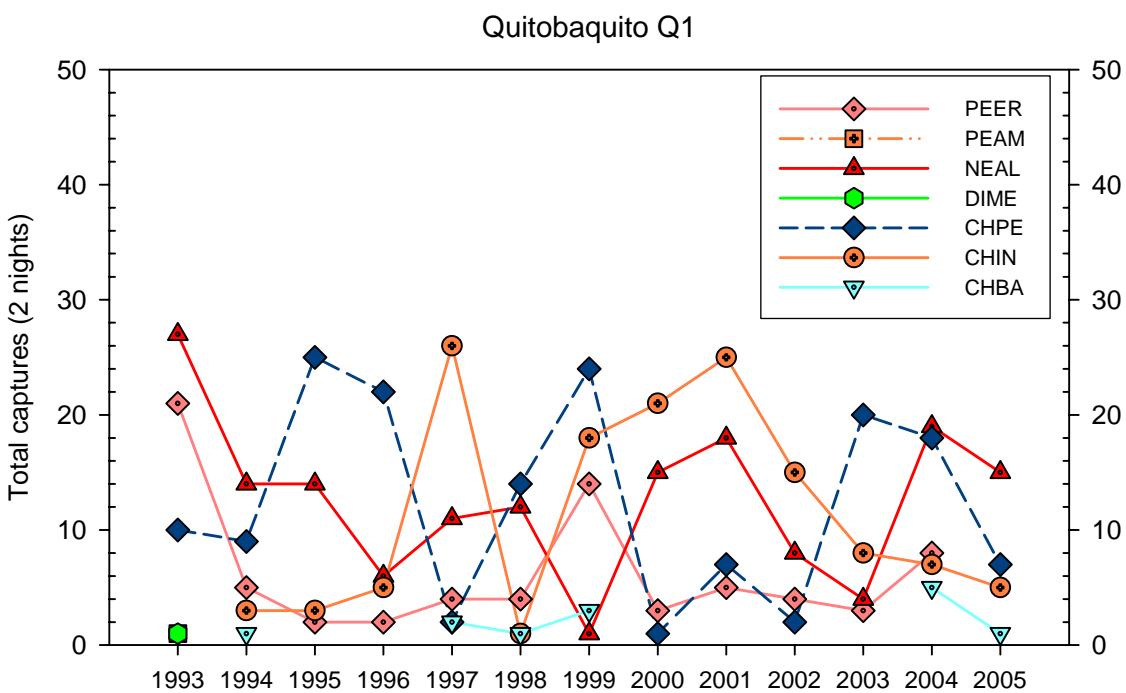


Figure B-21. Relative abundance of nocturnal rodent species at Quitobaquito quadrat 1, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHIN = *Chaetodipus intermedius*, CHPE = *Chaetodipus penicillatus*, DIME = *Dipodomys merriami*, NEAL = *Neotoma albigena*, PEAM = *Perognathus amplus*, PEER = *Peromyscus eremicus*).

Table B-22. Summary statistics for nocturnal rodents at Quitobaquito quadrat 2, 1997 – 2005, Organ Pipe Cactus N.M.

	1997	1998	1999	2000	2001	2002	2003	2004	2005
Murid total abundance	0	10	6	11	15	6	5	10	14
Murid total biomass (g)	0	993	514	812	1372	378	335	741	1060
Heteromyid total abundance	39	20	22	20	19	14	15	33	22
Heteromyid total biomass (g)	671	391	460	404	390	301	324	593	598
Species richness	3	4	4	5	6	5	5	6	4
Diversity (H')	0.447	1.057	1.077	1.305	1.574	1.333	1.235	1.265	1.361
Capture success, night 1	63%	31%	41%	43%	45%	24%	27%	59%	39%
Capture success, night 2	51%	45%	35%	51%	55%	29%	31%	67%	59%
Recaptures	68%	32%	53%	60%	56%	43%	53%	58%	41%

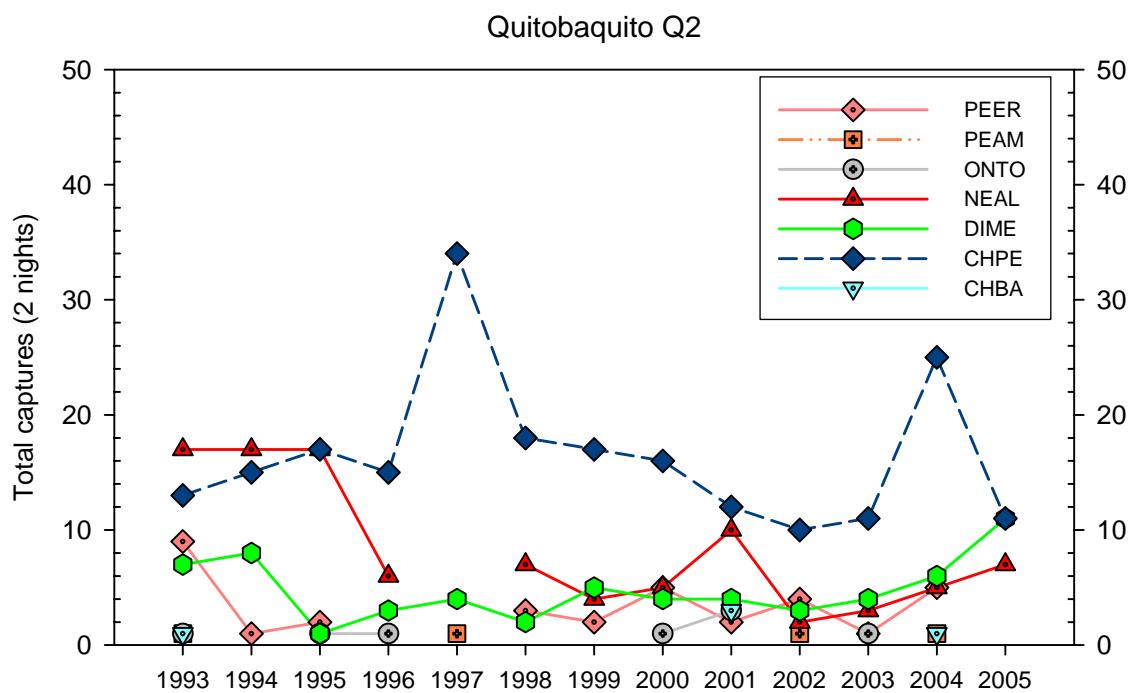


Figure B-22. Relative abundance of nocturnal rodent species at Quitobaquito quadrat 2, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHPE = *Chaetodipus penicillatus*, DIME = *Dipodomys merriami*, NEAL = *Neotoma albigena*, ONTO = *Onychomys torridus*, PEAM = *Perognathus amplus*, PEER = *Peromyscus eremicus*).

Table B-23. Summary statistics for nocturnal rodents at Salsola quadrat 1, 1997 – 2004, Organ Pipe Cactus N.M.

	1997	1998	1999	2000	2001	2002	2003	2004
Murid total abundance	0	1	1	0	2	0	1	3
Murid total biomass (g)	0	30	14	0	43	0	23	65
Heteromyid total abundance	65	33	38	58	44	43	38	55
Heteromyid total biomass (g)	1661.5	612	891	1409	949	906	706	1058
Species richness	4	4	3	2	5	3	4	4
Diversity (H')	0.887	0.485	0.727	0.632	1.0438	0.849	0.853	0.906
Capture success, night 1	80	37	80	82	57	49	43	65
Capture success, night 2	88	51	0	71	61	63	53	88
Recaptures	40	36	0	49	40	39	31	40

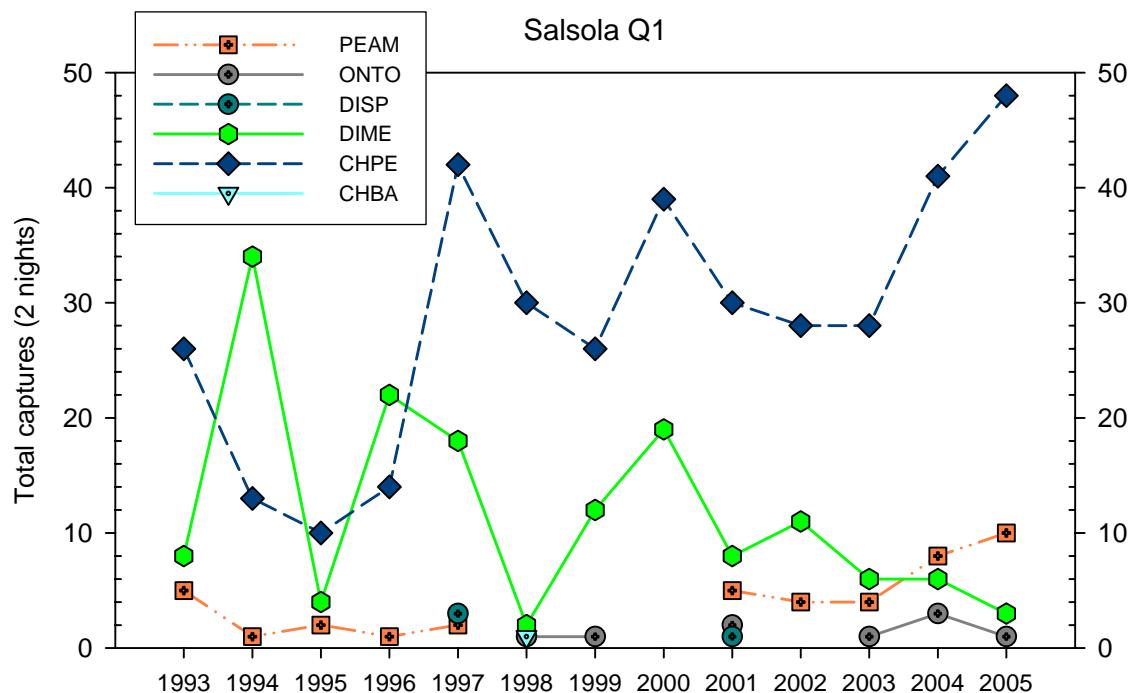


Figure B-23. Relative abundance of nocturnal rodent species at Salsola quadrat 1, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHPE = *Chaetodipus penicillatus*, DIME = *Dipodomys merriami*, DISP = *Dipodomys spectabilis*, ONTO = *Onychomys torridus*, PEAM = *Perognathus amplus*).

Table B-24. Summary statistics for nocturnal rodents at Salsola quadrat 2, 1997 – 2004, Organ Pipe Cactus N.M.

	1997	1998	1999	2000	2001	2002	2003	2004
Murid total abundance	2	0	1	2	4	1	1	1
Murid total biomass (g)	179.3	0	79	278	559	168	145	31
Heteromyid total abundance	66	46	36	65	43	51	50	73
Heteromyid total biomass (g)	1159	830	714	1555	974	1133	946	1617
Species richness	4	2	3	3	3	3	4	4
Diversity (H')	0.413	--	0.403	0.720	0.661	0.552	0.707	0.609
Capture success, night 1	73	47	76	82	53	53	61	82
Capture success, night 2	84	61	0	80	65	73	67	90
Recaptures	22	23	0	31	34	28	36	23

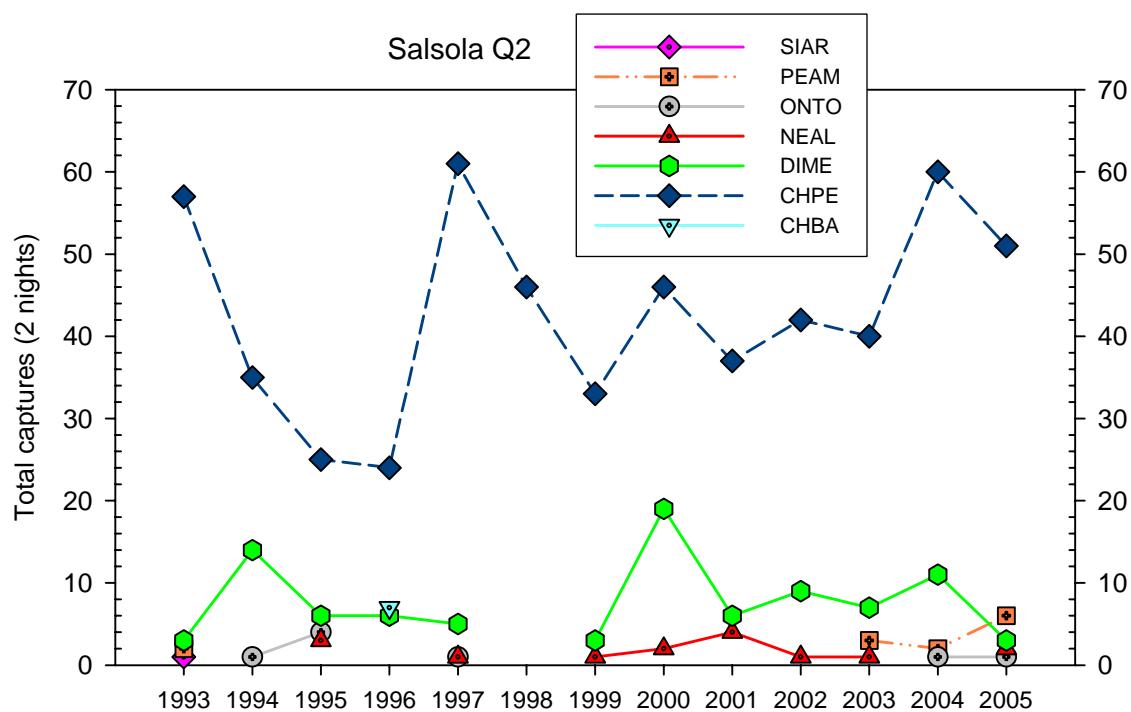


Figure B-24. Relative abundance of nocturnal rodent species at Salsola quadrat 2, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHPE = *Chaetodipus penicillatus*, DIME = *Dipodomys merriami*, NEAL = *Neotoma albigena*, ONTO = *Onychomys torridus*, PEAM = *Perognathus amplus*, SIAR = *Sigmodon arizonae*).

Table B-25. Summary statistics for nocturnal rodents at Senita Basin quadrat 1, 1997 – 2005, Organ Pipe Cactus N.M.

	1997	1998	1999	2000	2001	2002	2003	2004	2005
Murid total abundance	0	0	2	1	3	0	0	5	5
Murid total biomass (g)	0	0	213	119	479	0	0	475	622
Heteromyid total abundance	13	6	33	25	14	29	8	42	24
Heteromyid total biomass (g)	204	107	730	573	317	699	188	1019	559
Species richness	5	2	4	5	4	5	4	6	5
Diversity (H')	1.413	0.693	0.646	1.229	1.006	1.190	1.213	1.358	1.152
Capture success, night 1	14%	4%	43%	29%	16%	33%	4%	67%	31%
Capture success, night 2	22%	10%	33%	33%	24%	35%	20%	63%	33%
Recaptures	45%	20%	13%	25%	25%	24%	40%	55%	13%

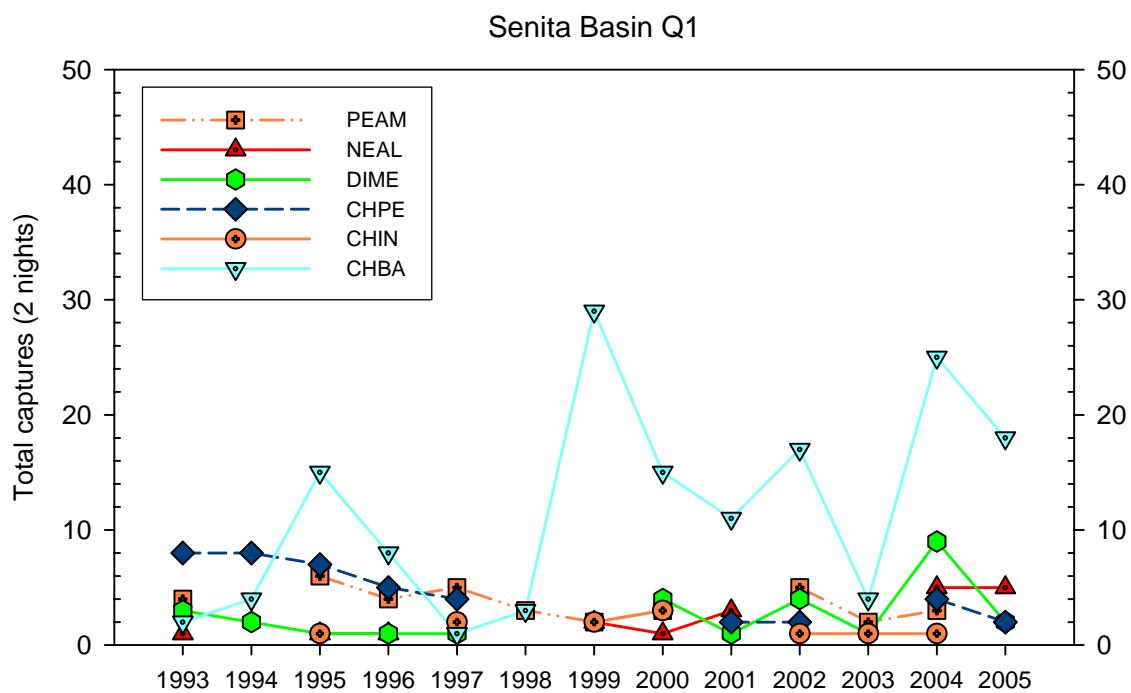


Figure B-25. Relative abundance of nocturnal rodent species at Senita Basin quadrat 1, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHIN = *Chaetodipus intermedius*, CHPE = *Chaetodipus penicillatus*, DIME = *Dipodomys merriami*, NEAL = *Neotoma albigena*, PEAM = *Perognathus amplus*).

Table B-26. Summary statistics for nocturnal rodents at Senita Basin quadrat 2, 1997 – 2005, Organ Pipe Cactus N.M.

	1997	1998	1999	2000	2001	2002	2003	2004	2005
Murid total abundance	0	1	1	0	1	1	0	0	9
Murid total biomass (g)	0	149	137	0	127	128	0	0	1083
Heteromyid total abundance	32	15	19	28	16	19	14	38	21
Heteromyid total biomass (g)	512	273	381	623	341	511	402	769	426
Species richness	4	4	4	5	6	4	3	6	6
Diversity (H')	1.119	1.228	1.094	1.253	1.344	0.708	0.759	1.695	1.446
Capture success, night 1	37%	12%	29%	27%	14%	22%	10%	57%	37%
Capture success, night 2	55%	24%	14%	35%	22%	29%	22%	73%	43%
Recaptures	48%	17%	14%	12%	9%	36%	18%	56%	38%

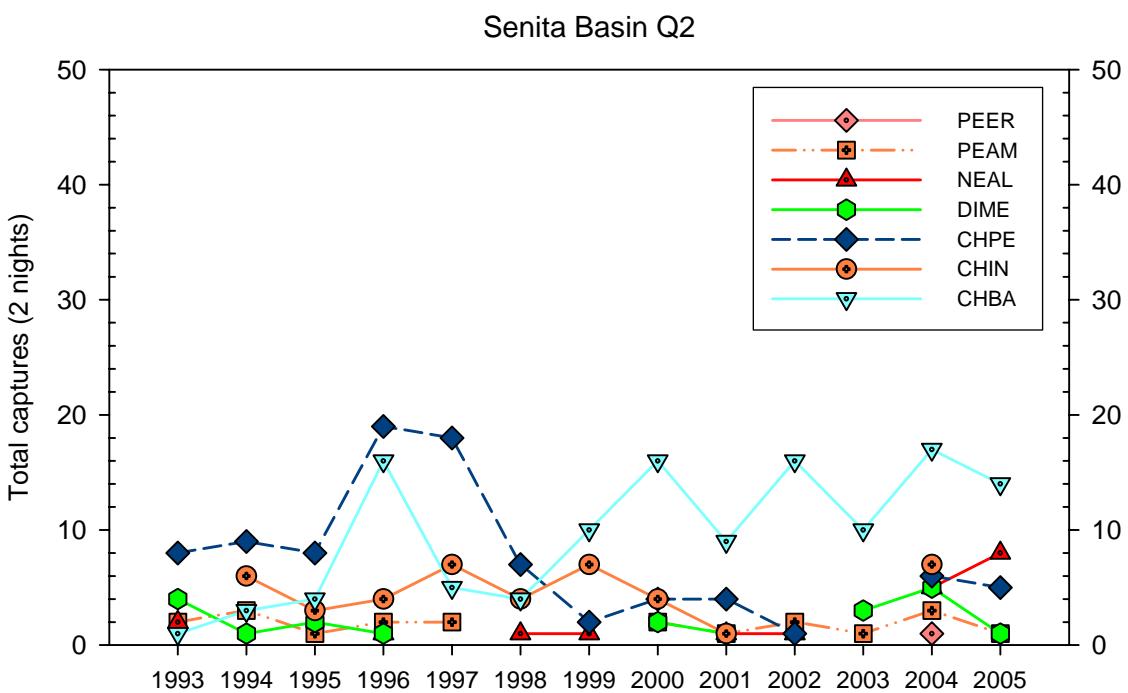


Figure B-26. Relative abundance of nocturnal rodent species at Senita Basin quadrat 2, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHIN = *Chaetodipus intermedius*, CHPE = *Chaetodipus penicillatus*, DIME = *Dipodomys merriami*, NEAL = *Neotoma albigena*, PEAM = *Perognathus amplus*, PEER = *Peromyscus eremicus*).

Table B-27. Summary statistics for nocturnal rodents at Valley Floor quadrat 1, 1997 – 2005, Organ Pipe Cactus N.M.

	1997	1998	1999	2000	2001	2002	2003	2004	2005
Murid total abundance	0	0	0	0	0	0	0	0	0
Murid total biomass (g)	0	0	0	0	0	0	0	0	0
Heteromyid total abundance	8	3	39	43	38	37	6	41	29
Heteromyid total biomass (g)	176	48	771	1136	666	843	177	1152	778
Species richness	3	2	3	3	3	3	2	4	3
Diversity (H')	0.974	0.637	0.868	0.977	0.944	1.018	0.637	0.886	0.779
Capture success, night 1	102%	4%	41%	61%	37%	51%	4%	61%	29%
Capture success, night 2	10%	6%	45%	55%	59%	55%	14%	55%	41%
Recaptures	60%	67%	14%	52%	31%	56%	43%	59%	25%

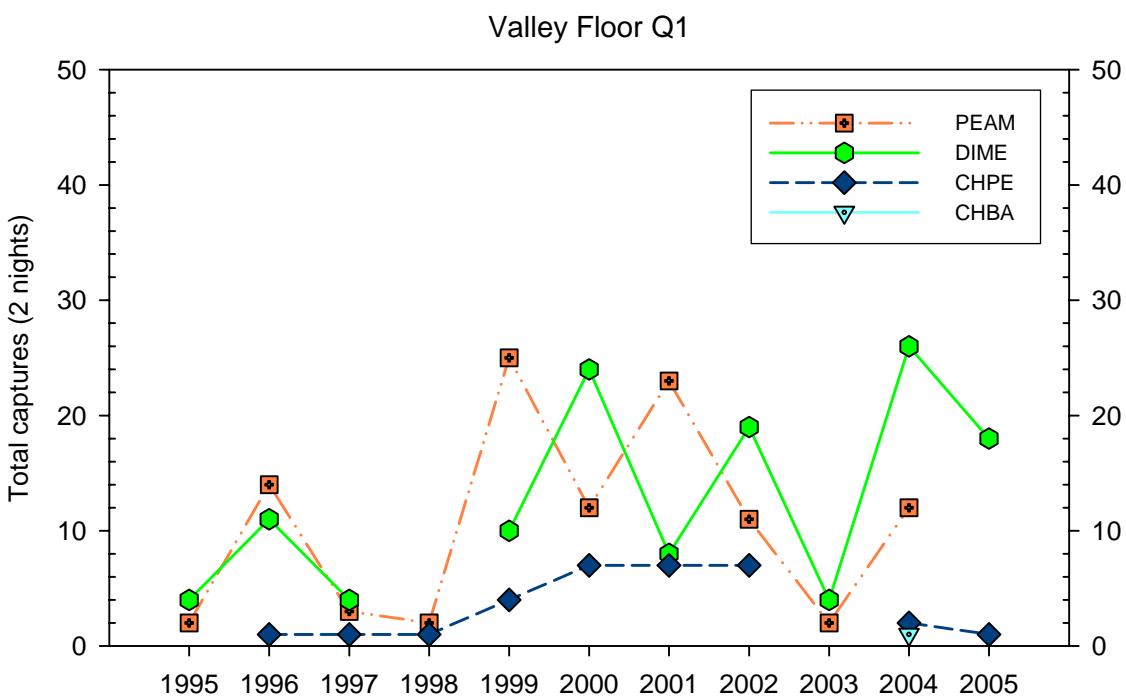


Figure B-27. Relative abundance of nocturnal rodent species at Valley Floor quadrat 1, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHPE = *Chaetodipus penicillatus*, DIME = *Dipodomys merriami*, PEAM = *Perognathus amplus*).

Table B-28. Summary statistics for nocturnal rodents at Valley Floor quadrat 2, 1997 – 2005, Organ Pipe Cactus N.M.

	1997	1998	1999	2000	2001	2002	2003	2004	2005
Murid total abundance	0	0	0	0	4	1	1	0	3
Murid total biomass (g)	0	0	0	0	612	139	160	0	292
Heteromyid total abundance	28	4	41	70	54	59	21	59	56
Heteromyid total biomass (g)	461	107	839	1460	966	1154	354	1441	1234
Species richness	3	2	4	4	4	4	4	4	5
Diversity (H')	0.833	0.562	1.250	0.903	1.008	0.825	0.663	0.951	1.007
Capture success, night 1	24%	6%	43%	82%	61%	71%	10%	65%	59%
Capture success, night 2	49%	2%	53%	98%	73%	84%	49%	76%	82%
Recaptures	33%	0	23%	38%	22%	39%	33%	27%	25%

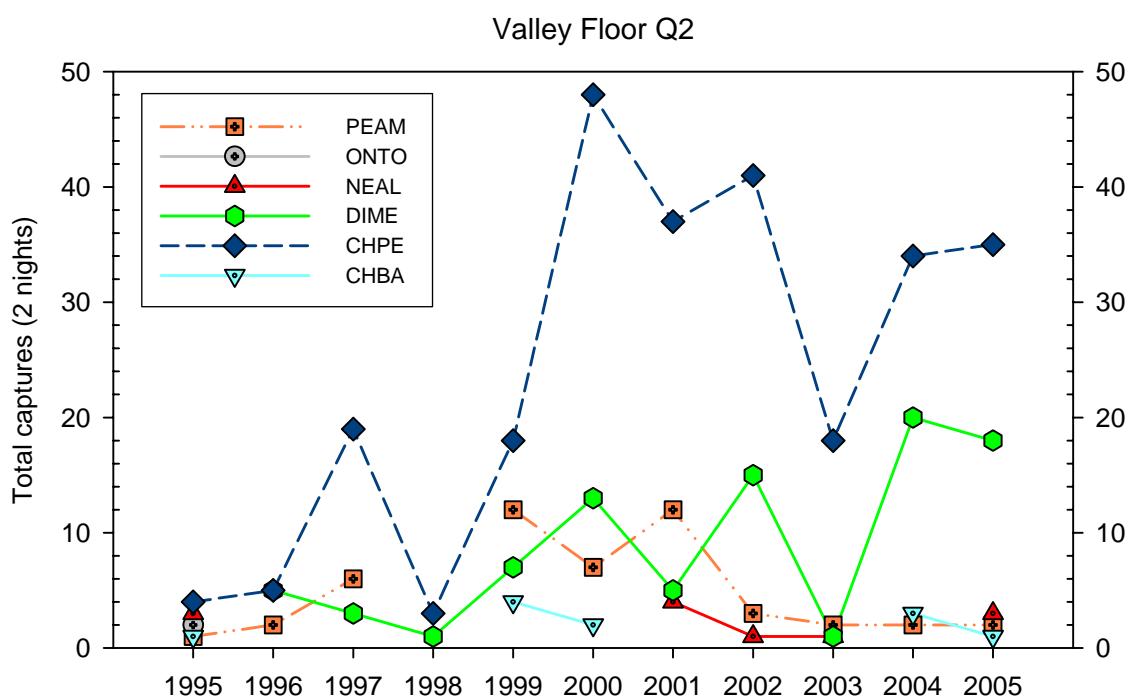


Figure B-28. Relative abundance of nocturnal rodent species at Valley Floor quadrat 2, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHPE = *Chaetodipus penicillatus*, DIME = *Dipodomys merriami*, NEAL = *Neotoma albigena*, ONTO = *Onychomys torridus*, PEAM = *Perognathus amplus*).

Table B-29. Summary statistics for nocturnal rodents at Vulture quadrat 1, 1997 – 2005, Organ Pipe Cactus N.M.

	1997	1998	1999	2000	2001	2002	2003	2004	2005
Murid total abundance	2	6	0	0	1	0	1	4	4
Murid total biomass (g)	296	689	0	0	126	0	95	549	521
Heteromyid total abundance	17	7	34	29	16	12	50	34	32
Heteromyid total biomass (g)	236	159	663	421	233	191	764	554	499
Species richness	4	4	4	3	4	3	4	4	4
Diversity (H')	1.192	1.231	0.803	0.497	1.053	0.918	0.820	1.216	1.221
Capture success, night 1	22%	12%	39%	43%	20%	8%	63%	49%	35%
Capture success, night 2	27%	18%	53%	33%	27%	18%	69%	47%	51%
Recaptures	38%	22%	42%	50%	46%	11%	41%	39%	24%

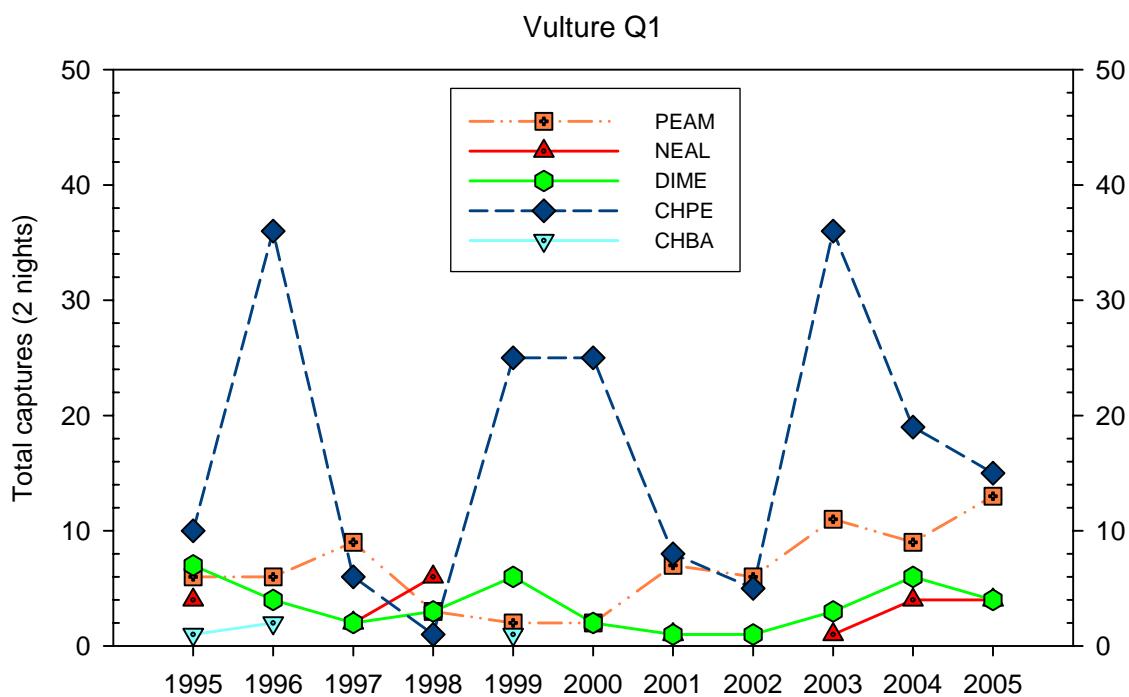


Figure B-29. Relative abundance of nocturnal rodent species at Vulture quadrat 1, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHPE = *Chaetodipus penicillatus*, DIME = *Dipodomys merriami*, NEAL = *Neotoma albigena*, PEAM = *Perognathus amplus*).

Table B-30. Summary statistics for nocturnal rodents at Vulture quadrat 2, 1997 – 2005, Organ Pipe Cactus N.M.

	1997	1998	1999	2000	2001	2002	2003	2004	2005
Murid total abundance	1	4	0	5	2	0	2	3	5
Murid total biomass (g)	85	512	0	372	298	0	265	434	595
Heteromyid total abundance	16	9	53	39	17	2	61	43	36
Heteromyid total biomass (g)	225	282	873	666	325	72	948	699	673
Species richness	4	3	3	5	4	1	4	4	4
Diversity (H')	1.005	1.058	0.444	1.093	1.234	0	0.718	1.145	1.306
Capture success, night 1	16%	14%	57%	41%	24%	4%	84%	63%	45%
Capture success, night 2	27%	24%	61%	59%	16%	2%	82%	57%	61%
Recaptures	31%	50%	17%	17%	13%	100%	45%	46%	37%

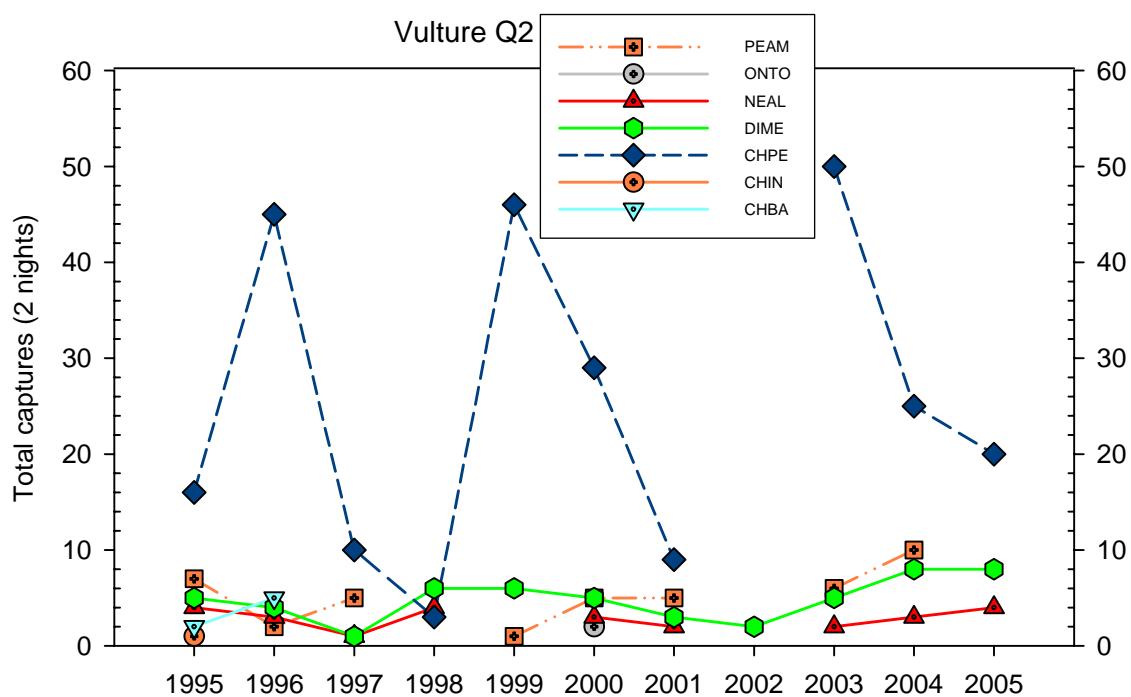


Figure B-30. Relative abundance of nocturnal rodent species at Vulture quadrat 2, 1993 – 2005, Organ Pipe Cactus N.M. (CHBA = *Chaetodipus baileyi*, CHIN = *Chaetodipus intermedius*, CHPE = *Chaetodipus penicillatus*, DIME = *Dipodomys merriami*, NEAL = *Neotoma albigenula*, ONTO = *Onychomys torridus*, PEAM = *Perognathus amplus*).