## **Ecological Archives E082-001-A1**

Raymond B. Huey, Eric R. Pianka, and Laurie J. Vitt . 2001. How often do lizards run on empty? Ecology 82: 1-7.

Appendix A. Dietary and related data on lizard species for 18,223 individual lizards (127 species, multiple families (depending on classification, see below), and from four continents).

Continent	Species	Clade I	Clade II	Clade III	Dietary niche breadth	Stand. dietary niche breadth	Foraging mode*	Time of activity**	No.	Total no. lizard guts	% I Guts empty (	Mean SVL SVL (mm)
North America												
	Cnemidophorus tigris	Autarchoglossa	Teiidae	Teiidae	5.8	0.29	WF	D	20	1772	1.1	79 9.6
	Uta stansburiana	Iguania	Iguanidae	Phrynosomatinae	7.3	0.365	SW	D	7	870	0.8	42 9.7
	Crotaphytus wislizeni	Iguania	Iguanidae	Crotaphytinae	2.9	0.145	SW	D	6	233	2.6	93 14.1
	Phrynosoma platyrhinos	Iguania	Iguanidae	Phrynosomatinae	2.4	0.12	SW	D	0	167	0	72 12.5
	Callisaurus draconoides	Iguania	Iguanidae	Phrynosomatinae	6.6	0.33	SW	D	2	463	0.4	73 10.9
	Dipsosaurus dorsalis	Iguania	Iguanidae	Iguaninae	1.1	0.055	SW	D	0	63	0	107 23.1
	Uma scoparia	Iguania	Iguanidae	Phrynosomatinae	3.3	0.165	SW	D	1	42	2.4	82 15.9
	Urosaurus graciosus	Iguania	Iguanidae	Phrynosomatinae	6.5	0.325	SW	D	2	35	5.7	49 6.7
	Sceloporus magister	Iguania	Iguanidae	Phrynosomatinae	3	0.15	SW	D	0	36	0	86 21.7
	Xantusia vigilis	Autarchoglossa	Xantusiidae	Xantusiidae	4.4	0.22	NA	N	4	27	14.8	42 4.5
	Coleonyx variegatus	Gekkota	Gekkonidae	Eublepharinae	5.1	0.255	SW	N	56	232	24.1	51 9.9
Africa (Kalahari)												
	Agama hispida	Iguania	Agamidae	Agamidae	3.2	0.16	SW	D	3	378	0.8	67 25.7
	Ichnotropis squamulosa	Autarchoglossa	Lacertidae	Lacertidae	1.5	0.075	SW	D	4	116	3.4	51 9
	Pedioplanis lineo- ocellata	Autarchoglossa	Lacertidae	Lacertidae	4.2	0.21	SW	D	25	1156	2.2	48 12
	Heliobolus lugubris	Autarchoglossa	Lacertidae	Lacertidae	1.2	0.06	WF	D	12	250	4.8	50 10.4
	Pedioplanis namaquensis	Autarchoglossa	Lacertidae	Lacertidae	2.2	0.11	WF	D	2	220	0.9	48 7.1
	Meroles suborbitalis	Autarchoglossa	Lacertidae	Lacertidae	3.3	0.165	SW	D	18	780	2.3	51 9.3
	Nucras tessellata	Autarchoglossa	Lacertidae	Lacertidae	3	0.15	WF	D	15	93	16.1	57 13.2
	Mabuya occidentalis	Autarchoglossa	Scincidae	Scincidae	4.7	0.235	WF	D	38	235	16.2	75 12.7
	Mabuya spilogaster	Autarchoglossa	Scincidae	Scincidae	5.7	0.285	WF	D	18	378	4.9	62 11.3
	Mabuya striata	Autarchoglossa	Scincidae	Scincidae	6.1	0.305	WF	D	22	558	3.9	70 16.4
	Mabuya variegata	Autarchoglossa	Scincidae	Scincidae	6.4	0.32	WF	D	3	115	2.6	37 5.8
	Chondrodactylus angulifer	Gekkota	Gekkonidae	Gekkoninae	3.8	0.19	SW	N	50	441	11.3	76 16.5

	Colopus wahlbergi	Gekkota	Gekkonidae	Gekkoninae	2.4	0.12	SW	N	23	135	17	48 6.1
	Lygodactylus capensis	Gekkota	Gekkonidae	Gekkoninae	6.8	0.34	SW	D	1	28	3.6	31 5.9
	Pachydactylus bibroni	Gekkota	Gekkonidae	Gekkoninae	3.2	0.16	SW	N	39	175	22.3	65 15.1
	Pachydactylus capensis	Gekkota	Gekkonidae	Gekkoninae	6.5	0.325	SW	N	28	106	26.4	52 10.3
	Pachydactylus rugosus	Gekkota	Gekkonidae	Gekkoninae	8.2	0.41	SW	N	4	29	13.8	52 6
	Ptenopus garrulus	Gekkota	Gekkonidae	Gekkoninae	2.4	0.12	SW	N	70	490	14.3	43 7.1
Australia												
	Caimanops amphiboluroides	Iguania	Agamidae	Agamidae	1.3	0.065	SW	D	1	11	9.1	71 16.5
	Ctenophorus caudicinctus	Iguania	Agamidae	Agamidae			SW	D	2	77	2.6	65 4.8
	Ctenophorus clayi	Iguania	Agamidae	Agamidae	4.7	0.235	SW	D	2	25	8	46 4.5
	Ctenophorus fordi	Iguania	Agamidae	Agamidae	3.6	0.18	SW	D	2	111	1.8	48 4.3
	Ctenophorus inermis	Iguania	Agamidae	Agamidae	6.8	0.34	SW	D	4	197	2	78 20.5
	Ctenophorus isolepis	Iguania	Agamidae	Agamidae	3.1	0.155	SW	D	9	511	1.8	51 7.7
	Cichophorus isotepis	iguania	7 Igainidae	7 Igainidae	5.1	0.155	511	Ъ		511	1.0	31 7.7
	Ctenophorus reticulatus	Iguania	Agamidae	Agamidae	4.1	0.205	SW	D	1	44	2.3	72 17.3
	Ctenophorus scutulatus		Agamidae	Agamidae	5.4	0.27	SW	D	1	89	1.1	75 22.5
	Diporiphora winneckei Lophognathus	Iguania	Agamidae	Agamidae	6.5	0.325	SW	D	0	36	0	44 8.5
	longirostris	Iguania	Agamidae	Agamidae	7.3	0.365	SW SW	D	1 7	77 203	1.3	56 20.9
	Moloch horridus	Iguania	Agamidae	Agamidae	1	0.05		D			3.4	90 14.7
	Pogona minor	Iguania	Agamidae	Agamidae	5.6	0.28	SW	D	3	102	2.9	97 34.1
	Cryptoblepharus plagiocephalus	Autarchoglossa		Scincidae	9.4	0.47	WF	D	17	99	17.2	37 3.9
	Ctenotus ariadnae	Autarchoglossa	Scincidae	Scincidae	1.5	0.075	WF	D	3	15	20	54 16.1
	Ctenotus atlas	Autarchoglossa	Scincidae	Scincidae	2.7	0.135	WF	D	2	27	7.4	58 5.5
	Ctenotus brooksi	Autarchoglossa	Scincidae	Scincidae	9	0.45	WF	D	5	68	7.4	37 6.1
	Ctenotus calurus	Autarchoglossa	Scincidae	Scincidae	1.4	0.07	WF	D	53	194	27.3	38 5
	Ctenotus colletti	Autarchoglossa		Scincidae	4.2	0.21	WF	D	3	10	30	39 3.9
	Ctenotus dux	Autarchoglossa		Scincidae	5.2	0.26	WF	D	12	167	7.2	40 7.2
	Ctenotus grandis	Autarchoglossa		Scincidae	1.6	0.08	WF	D	7	109	6.4	74 20.6
	9	_		Scincidae		0.00	WF		7	132	5.3	79 12.8
	Ctenotus helenae	Autarchoglossa			2.2			D				
	Ctenotus leae	Autarchoglossa		Scincidae	4.3	0.215	WF	D	4	19	21.1	51 5.9
	Ctenotus leonhardii	Autarchoglossa		Scincidae	5.2	0.26	WF	D	11	110	10	61 9.9
	Ctenotus pantherinus	Autarchoglossa		Scincidae	1.4	0.07	WF	D	15	121	12.4	71 18.3
	Ctenotus pianka	Autarchoglossa	Scincidae	Scincidae	5.2	0.26	WF	D	2	21	9.5	35 5.5
	Ctenotus quattuordecimlineatus	Autarchoglossa	Scincidae	Scincidae	2.8	0.14	WF	D	52	389	13.4	54 9.9
	Ctenotus schomburgkii	Autarchoglossa	Scincidae	Scincidae	1.9	0.095	WF	D	16	119	13.4	40 5.8
	Egernia depressa	Autarchoglossa	Scincidae	Scincidae	1.4	0.07	WF	D	5	31	16.1	85 16.7
	Egernia inornata	Autarchoglossa	Scincidae	Scincidae	5.2	0.26	WF	N	7	123	5.7	65 14.8
	Egernia striata	Autarchoglossa	Scincidae	Scincidae	2.1	0.105	WF	N	9	190	4.7	87 15.7
	Menetia greyi	Autarchoglossa		Scincidae	3.6	0.18	WF	D	3	20	15	27 4.4
	Morethia butleri	Autarchoglossa		Scincidae	3.7	0.185	WF	D	5	16	31.2	44 8.3
	Varanus brevicauda	Autarchoglossa		Varanidae	6.85	0.342	WF	D	16	63	25.4	90 9.3
		-										
	Varanus eremius Varanus gouldi	Autarchoglossa Autarchoglossa		Varanidae Varanidae	1.65	0.082	WF WF	D D	61 4	170 18	35.88 22.2	126 20.7 129 17.1
	(juveniles) Varanus gouldi (adults)	_		Varanidae	5.9	0.295	WF	D		104	24	278 38.4

	Varanus tristis	Autarchoglossa	Varanidae	Varanidae	1.5	0.075	WF	D	25	100	25	229 20.9
	Delma butleri	Gekkota	Gekkonidae	Pygopodinae	3.2	0.16	NA	D	5	18	27.8	65 14.5
	Lialis burtoni	Gekkota	Gekkonidae	Pygopodinae	1	0.05	SW	N	25	37	65.6	158 36.3
	Pygopus nigriceps	Gekkota	Gekkonidae	Pygopodinae	3.1	0.155	SW	N	6	16	33.3	159 23.6
	Gehyra variegata	Gekkota	Gekkonidae	Gekkoninae	5.8	0.29	SW	N	55	287	19.2	49 8.3
	Heteronotia binoeii	Gekkota	Gekkonidae	Gekkoninae	8.4	0.42	SW	N	14	41	34.1	42 7.5
	Diplodactylus ciliaris	Gekkota	Gekkonidae	Diplodactylinae	5.6	0.28	SW	N	14	75	18.7	76 3.8
	Diplodactylus conspicillatus	Gekkota	Gekkonidae	Diplodactylinae	1	0.05	SW	N	34	55	61.8	59 6.3
	Diplodactylus elderi	Gekkota	Gekkonidae	Diplodactylinae	4.4	0.22	SW	N	5	26	19.2	38 9.3
	Diplodactylus pulcher	Gekkota	Gekkonidae	Diplodactylinae	1	0.05	SW	N	15	25	60	54 6.9
	Diplodactylus Parener											
	stenodactylus	Gekkota	Gekkonidae	Diplodactylinae	6.3	0.315	SW	N	3	43	7	48 11.2
	Diplodactylus strophurus	Gekkota	Gekkonidae	Diplodactylinae	7	0.35	SW	N	10	53	18.9	64 9
	Nephrurus laevissimus	Gekkota	Gekkonidae	Diplodactylinae	7.3	0.365	SW	N	28	173	16.2	57 14.2
	Nephrurus levis	Gekkota	Gekkonidae	Diplodactylinae	6.7	0.335	SW	N	12	36	33.3	67 16.6
	Nephrurus vertebralis	Gekkota	Gekkonidae	Diplodactylinae	4.2	0.21	SW	N	0	14	0	68 15.8
	Rhynchoedura ornata	Gekkota	Gekkonidae	Diplodactylinae	1	0.05	SW	N	119	274	43.43	47 5.4
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	Anolis auratus	Iguania	Iguanidae	Polychrotinae	7.98	0.347	SW	D	1	56	1.79	40 11.5
	Anolis fuscoauratus	Iguania	Iguanidae	Polychrotinae	8.59	0.373	SW	D	30	125	24	44 5
	Anolis n. nitens	Iguania	Iguanidae	Polychrotinae	6.79	0.295	SW	D	3	42	7.14	48 13.2
	Anolis n. scypheus	Iguania	Iguanidae	Polychrotinae	7.61	0.331	SW	D	1	34	2.94	58 16.4
	Anolis n. tandai	Iguania	Iguanidae	Polychrotinae	3.61	0.157	SW	D	2	14	14.29	63 14.5
	Anolis punctatus	Iguania	Iguanidae	Polychrotinae	3.81	0.166	SW	D	2	22	9.09	73 10.5
	1	8	6	,								
	Anolis trachyderma	Iguania	Iguanidae	Polychrotinae	7.68	0.334	SW	D	22	131	16.79	47 9.2
	Tropidurus plica	Iguania	Iguanidae	Tropidurinae	2.6	0.113	SW	D	0	70	0	107 38.3
	Tropidurus umbra	Iguania	Iguanidae	Tropidurinae	1.08	0.047	SW	D	0	36	0	84 9.9
	Tropidurus hispidus	Iguania	Iguanidae	Tropidurinae	7.07	0.307	SW	D	7	169	4.14	74 18.2
	Tropidurus oreadicus	Iguania	Iguanidae	Tropidurinae	6.74	0.293	SW	D	13	117	11.11	70 18
	Tropidurus RO	Iguania	Iguanidae	Tropidurinae	4.85	0.211	SW	D	4	336	1.19	73 18.3
	Tropidurus flaviceps	Iguania	Iguanidae	Tropidurinae	1.4	0.061	SW	D	0	33	0	80 28.8
	Uranoscodon superciliosus	Iguania	Iguanidae	Tropidurinae	6.06	0.263	SW	D	2	108	1.85	105 30
	Coleodactylus amazonicus	Gekkota	Gekkonidae	Gekkoninae	4.08	0.177	SW	D	8	121	6.61	21 2.7
	amazonicus Coleodactylus											
	septentrionalis	Gekkota	Gekkonidae	Gekkoninae	3.57	0.155	SW	D	3	46	6.52	27 3.6
	Gonatodes concinnatus	Gekkota	Gekkonidae	Gekkoninae	10.45	0.454	SW	D	4	26	15.38	43 7.2
	Gonatodes hasemani	Gekkota	Gekkonidae	Gekkoninae	6.92	0.301	SW	D	0	23	0	36 5.7
	Gonatodes humeralis	Gekkota	Gekkonidae	Gekkoninae	8.43	0.367	SW	D	13	123	10.57	36 4.3

South America

Hemidactylus mabouia	Gekkota	Gekkonidae	Gekkoninae	4.48	0.195	SW	N	4	20	20	62 6
Pseudogonatodes guianensis	Gekkota	Gekkonidae	Gekkoninae	3.96	0.172	SW	D	1	23	4.35	24 3.6
Thecadactylus rapicauda	Gekkota	Gekkonidae	Gekkoninae	2.25	0.098	SW	N	13	58	22.41	103 17.1
Mabuya nigropunctata	Autarchoglossa	Scincidae	Scincidae	7.57	0.329	WF	D	13	145	8.97	85 15.2
Alopoglossus angulatus	Autarchoglossa	Gymnophthalmidae	Gymnophthalmidae	2.38	0.103	WF	D	5	38	13.16	41 13.2
Alopoglossus atriventris	Autarchoglossa	Gymnophthalmidae	Gymnophthalmidae	2.38	0.103	WF	D	6	19	31.58	36 10.2
Arthrosaura reticulata	Autarchoglossa	Gymnophthalmidae	Gymnophthalmidae	2.92	0.127	WF	D	9	45	20	48 14
Cercosaura ocellata	Autarchoglossa	Gymnophthalmidae	Gymnophthalmidae	6.49	0.282	WF	D	19	43	44.19	40 12.4
Gymnophthalmus underwoodi	Autarchoglossa	Gymnophthalmidae	Gymnophthalmidae	2.59	0.113	WF	D	3	21	14.29	32 3.9
Leposoma parietale	Autarchoglossa	Gymnophthalmidae	Gymnophthalmidae	5.07	0.22	WF	D	2	32	6.25	28 6.6
Leposoma percarinatum	Autarchoglossa	Gymnophthalmidae	Gymnophthalmidae	6.76	0.294	WF	D	10	58	17.24	30 5.5
Neusticurus ecpleopus	Autarchoglossa	Gymnophthalmidae	Gymnophthalmidae	3.76	0.163	WF	D	25	107	23.36	46 14.5
Neusticurus juruazensis	Autarchoglossa	Gymnophthalmidae	Gymnophthalmidae	5.25	0.228	WF	D	13	47	27.66	42 10.5
Prionodactylus eigenmanni	Autarchoglossa	Gymnophthalmidae	Gymnophthalmidae	4.48	0.195	WF	D	10	49	20.41	33 13.3
Prionodactylus oshaughnessyi	Autarchoglossa	Gymnophthalmidae	Gymnophthalmidae	3.98	0.173	WF	D	5	53	9.43	35 8.8
Ameiva ameiva	Autarchoglossa	Teiidae	Teiidae	9.44	0.41	WF	D	41	359	11.42	120 29.5
Cnemidophorus cryptus	Autarchoglossa	Teiidae	Teiidae	5.23	0.227	WF	D	3	21	14.29	65 4
Cnemidophorus lemniscatus	Autarchoglossa	Teiidae	Teiidae	8.67	0.377	WF	D	7	158	4.43	62 10.4
Kentropyx calcarata	Autarchoglossa	Teiidae	Teiidae	3.91	0.17	WF	D	28	126	22.22	89 20.5
Kentropyx pelviceps	Autarchoglossa	Teiidae	Teiidae	3.03	0.132	WF	D	11	99	11.11	91 26.1
Kentropyx striata	Autarchoglossa	Teiidae	Teiidae	7.9	0.343	WF	D	6	94	6.38	85 14.1
Tupinambis teguixin	Autarchoglossa	Teiidae	Teiidae	3.12	0.136	WF	D	3	19	15.79	194 66.2
Anolis capito	Iguania	Iguanidae	Polychrotinae	6.02	0.262	SW	D	10	53	18.87	65 21.5
Anolis humilis	Iguania	Iguanidae	Polychrotinae	4.82	0.21	SW	D	3	35	8.57	33 4.3
Anolis limifrons	Iguania	Iguanidae	Polychrotinae	8.23	0.358	SW	D	6	36	16.67	37 3.9
Anolis oxylophus	Iguania	Iguanidae	Polychrotinae	6.27	0.273	SW	D	1	67	1.49	55 13.1

\* code for Foraging Mode

Autarchoglossa Teiidae

WF = widely foraging
SW = sit and

 $\begin{aligned} SW &= sit \ and \\ wait \end{aligned}$ 

\*\* code for Activity

4.29

0.187

WF

D

7

52 13.46

D = diurnal

Teiidae

N = nocturnal

Ameiva festiva

Central America

86 25.7

NA = uncertain foraging mode

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