

Table S1. Mass, [²H]deuterium injectate details, background (E_{wat}), equilibrium ($E_{2,4,6\text{hr,mix}}$) and final (E_{final}) isotope levels, water turnover rates (k_d), isotope dilution space (N_d), total body water (%TBW), water turnover rate (WTR) and daily water flux (DWF) for 10 female diamondback terrapins from 15 to 29 March (during dormancy) and from 29 March to 5 April (after dormancy).

Terrapin	ACO	ACW	AOP	AOPW	AOX	APQ	APV	AQW	HIJ	AOV	Mean ± s.d.
Plastron length (cm)	13.5	13	12	14	13.8	14	13.2	13.3	12.9	12.9	13.26 ± 0.58
Mass at capture (g)	509.20	455.10	337.10	564.80	526.10	556.00	516.30	580.80	504.80	423.30	497.35 ± 70.20
15 to 29 Mar											
Mass (g, 15 Mar)	522.10	530.10	339.10	658.80	541.50	520.10	509.10	503.10	502.70	504.80	513.14 ± 72.82
Mass (g, 29 Mar)	507.80	440.70	317.70	624.30	503.20	498.70	468.30	509.00	469.40	467.60	480.67 ± 71.84
E_{wat} (0 hrs)	134.15	160.39	134.05	137.96	137.72	135.54	145.76	136.29	134.72	134.09	139.07 ± 7.85
E_{inj} (Atom%)	820882.88	820882.88	820882.88	820882.88	820882.88	820882.88	820882.88	820882.88	820882.88	820882.88	
Molmass _{inj}	20.0276	20.0276	20.0276	20.0276	20.0276	20.0276	20.0276	20.0276	20.0276	20.0276	
M_{inj} (g)	0.36	0.34	0.28	0.37	0.48	0.48	0.44	0.45	0.46	0.36	0.40 ± 0.06
Mol _{inj} (moles)	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02 ± 0.00
$E_{2.5\text{hr}}$ (2.5 hrs)		758.07			963.22			229.95	1025.85		744.27 ± 313.03
$E_{4.5\text{hr}}$ (4.5 hrs)		751.17			985.51			1256.67	1027.38		1005.18 ± 179.34
$E_{6\text{hr}}$ (6 hrs)	817.03	746.91	923.19	673.27	979.6	1007.94	1639.48	1243.08	1029.15		1006.63 ± 274.70
E_{mix} (4.5–6 hrs)	817.03	752.05	923.19	673.27	976.11	1007.94	1639.48	1256.67	1027.46		1008.13 ± 275.52
E_{final} (336 hrs, 13.9 days)	258.09	250.48	223.49	331.72	314.28	180.54	465.37	243.99	253.33	134.35	265.56 ± 85.90
k_d (15 to 29 Mar, hrs)	0.005	0.006	0.006	0.003	0.005	0.009	0.005	0.007	0.006		0.006 ± 0.00
k_d (15 to 29 Mar, days)	0.12	0.14	0.16	0.07	0.11	0.21	0.11	0.17	0.15		0.14 ± 0.04
N_d (15 Mar, Mol _{wat})	21.35	23.59	14.73	28.52	23.56	22.37	12.05	16.61	21.03		20.42 ± 4.80
Terrapin	ACO	ACW	AOP	AOPW	AOX	APQ	APV	AQW	HIJ	AOV	Mean ± s.d.
N_d (g, 15 Mar)	384.38	424.63	265.24	513.43	424.05	402.69	216.96	299	378.65		367.67 ± 86.42
%TBW	73.62	80.10	78.22	77.93	78.31	77.42		59.43	75.32		75.05 ± 6.19
WTR (ml day ⁻¹)	47.26	57.58	41.61	37.59	47.59	86.01	24.1	50.45	55.06		49.70 ± 15.94
DWF (%TBW day ⁻¹)	9.05	10.86	12.27	5.71	8.78	16.53		10.02	10.95		10.52 ± 2.92
29 Mar to 5 Apr											

Mass (g, 29 Mar)	507.80	440.70	317.70	624.30	503.20	498.70	468.30	509.00	469.40	467.60	480.67 ± 71.84
E _{wat} (0 hrs)	258.09	250.48	223.49	331.72	314.28	180.54	465.37	243.99	253.33	134.35	265.56 ± 85.90
E _{inj} (boost, Atom%)	820882.88	820882.88	820882.88	820882.88	820882.88	820882.88	820882.88	820882.88	820882.88	820882.88	
M _{inj} (g)	0.35	0.38	0.29	0.39	0.48	0.47	0.46	0.46	0.46	0.34	0.41 ± 0.06
Mol _{inj} (moles)	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02 ± 0.00
E _{mix} (4 hrs)	1029.48	1090.2	1064.14	911.27	1188.11	1098.13	1430.19	1190.14	1251.59	881.17	1113.44 ± 153.61
E _{final} (172 hrs, 7.2 days)	326.43	380.74	252.38	495.45		270.87	526.71	473.98	388.29	270.13	376.11 ± 98.18
k _d (29 Mar to 5 Apr, hrs)	0.014	0.011	0.02	0.007		0.013	0.016	0.008	0.012	0.01	0.012 ± 0.00
k _d (29 Mar to 5 Apr, days)	0.34	0.26	0.47	0.18		0.32	0.38	0.2	0.28	0.24	0.29 ± 0.09
N _d (29 Mar, Mol _{wat})	18.42	18.57	14.12	27.2	22.47	20.8	19.45	19.95	18.95	18.79	19.87 ± 3.17
N _d (g, 29 Mar)	331.6	334.34	254.12	489.62	404.47	374.38	350.11	359.22	341.11	338.22	357.72 ± 57.04
%TBW	65.3	75.87	81.27	78.43	80.38	75.07	74.76	71.27	73.45	72.33	74.54 ± 4.36
WTR (ml day ⁻¹)	111.47	86.42	118.81	85.84		120.37	133.81	70.47	94.67	79.97	100.20 ± 20.36
DWF (%TBW day ⁻¹)	21.95	19.61	37.39	13.75		24.13	28.57	13.84	20.17	17.10	21.84 ± 7.30