

**Supplementary Table 1. Statistical results from experiments testing the responsiveness of three spadefoot toad species to pond drying.**

Model term	df	-2 $\Delta$ LogLik	<i>P</i>
<i>(A) Time to metamorphosis</i>			
Species	2	163.73	<0.0001
Water level	1	32.76	<0.0001
Species x Water level	2	49.76	<0.0001
<i>(B) Thyroid hormone – Differences across stages</i>			
Species	1	14.67	0.0001
Stages	1	25.90	<0.0001
Species x Treatment	1	1.29	0.255
<i>(C) Corticosterone – Differences across stages</i>			
Species	2	10.5	0.005
Stages	1	8.90	0.003
Species x Treatment	2	2.91	0.234
<i>(D) Metabolic rate - Differences across stages</i>			
Species	2	88.37	<0.0001
Stages	2	10.83	0.004
Species x Treatment	4	22.38	0.0002
<i>(E) Thyroid hormone – Response to water drop</i>			

Species	1	11.98	0.0005
Water level	1	6.09	0.014
Species x Water level	1	11.68	0.0006

*(F) Corticosterone – Response to water drop*

Species	2	25.24	<0.0001
Water level	1	15.73	<0.0001
Species x Water level	2	11.04	0.004

*(G) Metabolic rate – Response to water drop and hormonal manipulation*

Species	2	158.48	<0.0001
Treatment	3	14.67	0.002
Species x Treatment	6	11.67	0.069

(A) We found differences in the timing of metamorphosis depending on the water level, but not all species showed the same degree of responsiveness. (B, C) Species showed constitutive, stage-matched differences in thyroid hormone and corticosterone levels. (D) Metabolic rate also differed among species and developmental stages. (E, F) Thyroid hormone and corticosterone increased in response to pond drying, but species differed in the extent of this endocrine regulation. (G) Metabolic rate varied across species and in response to addition of exogenous corticosterone or reduced water level, but not all species were equally responsive.