

Spatial epidemiology of *Toxoplasma gondii* seroprevalence in sentinel feral chickens  
(*Gallus gallus*) in Kaua‘i, Hawai‘i

Kayleigh Chalkowski<sup>A,D</sup>, Kathryn Fiedler<sup>B</sup>, William G. Lucey<sup>C</sup>, Sarah Zohdy<sup>A</sup> and  
Christopher A. Lepczyk<sup>A</sup>

<sup>A</sup>School of Forestry and Wildlife Sciences, Auburn University, Auburn, AL, USA.

<sup>B</sup>College of Tropical Agriculture and Human Resources, Cooperative Extension,  
University of Hawaii, Lihue, Hawaii, USA.

<sup>C</sup>Kaua‘i Invasive Species Committee, Kapaa, Hawaii, USA.

<sup>D</sup>Corresponding author. Email: [kzc0061@auburn.edu](mailto:kzc0061@auburn.edu)

**Supplementary Material**

Supplementary Table 1. Description of explanatory environmental variables for *T. gondii*  
seroprevalence in feral  
chickens on Kaua‘i, Hawai‘i.

Variable	Units	Type	Range	Mean	Std. Dev.
	25				
Rainfall	mm/yr*	continuous	20-80	51.4	15.7

Distance to Coast            km            continuous    0-4.3    1.86    1.62

\*this unit is derived from original source of the data (Giambelluca et al. 2013)

Supplementary Table 2. *T. gondii* seroprevalence in feral chickens by sampling site on Kaua‘i, Hawai‘i with number (N) samples at each site, number positive for *T. gondii* seroprevalence, proportion positive for *T. gondii* seroprevalence, and corresponding environmental variable.

Site	Locality	N	Num.	Prop.	Rainfal	km from
		Total	Positive	Positive	l (25	coast
					mm/yr)	
Anahola Beach	Anahola	2	1	0.50	35	0.028
Park						
Ke‘e Beach	Hā‘ena	5	3	0.60	80	0.042
Hanalei National	Hanalei	38	15	0.39	65	4.33
Wildlife Refuge						
Hanapepe	Hanapepe	3	1	0.33	25	0.045
Neighborhood						
Center						
Salt Pond Beach	Hanapepe	3	2	0.67	25	0.12
Park						
National Tropical	Kalaheo	2	1	0.50	35	1.45
Botanical Garden						
'Anini Beach Park	Kalihiwai	15	9	0.60	50	0.00

Private Residence, Kapa‘a	Kapa‘a	17	5	0.29	50	4.12
Private Residence, Kapa‘a	Kapa‘a	4	0	0.00	35	1.33
Kapa‘a Beach Park	Kapa‘a	4	1	0.25	35	0.036
Wailua Boat Launch	Kapa‘a	7	1	0.14	35	0.31
Keālia Beach Park	Keālia	5	4	0.80	35	0.086
Highway Pulloff	Keālia	9	2	0.22	35	0.79
Kikiaola Small Boat Harbor	Kekaha	1	0	0.00	20	0.00
Kilauea Road at Highway	Kilauea	3	1	0.33	65	3.03
Kilauea Point National Wildlife Refuge	Kilauea	16	7	0.44	50	0.17
Malama Kaua‘i	Kilauea	13	6	0.46	65	1.26
Kōke‘e Visitors Center	Kōke‘e	9	3	0.33	50	4.24
Kōke‘e National Guard Facility	Kōke‘e	1	1	1.00	50	3.15
Koloa Boat Harbor	Kōloa	4	0	0.00	35	0.05

Ahukini Landing	Lihue	5	5	1.00	35	0.067
Go Farm at KCC	Lihue	23	5	0.22	50	1.72
Kaua'i Veterans Memorial Building	Lihue	1	1	1.00	35	1.92
Lihue County Building	Lihue	6	0	0.00	35	2.38
Lydgate Beach Park	Lihue	12	7	0.58	35	0.15
Vidina Stadium	Lihue	10	4	0.40	35	1.46
Nāwiliwili Beach Park	Nāwiliwili	6	2	0.33	35	0.12
Nāwiliwili Small Boat Harbor	Nāwiliwili	0	0	0.00	35	0.28
Nuimalu Beach Park	Nāwiliwili	2	2	1.00	35	0.23
Po'ipū Beach Park	Po'ipū	8	3	0.38	35	0.15
Shipwrecks Beach	Po'ipū	6	3	0.50	25	0.14
Huleia National Wildlife Refuge	Puhi	14	5	0.36	50	3.07
'Opaeka'a Falls Vista	Wailua Homesteads	15	7	0.47	50	2.17
UH CTAHR Ag	Wailua	26	9	0.35	80	3.84

Exp Station	Homesteads					
Princeville	Princeville	2	0	0	65	1.11
Neighborhood						
Center						
<b>Total</b>		<b>300</b>	<b>113</b>	<b>0.38</b>		

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