

# Wetland loss in coastal Louisiana drives significant resident population declines.

Bastien-Olvera B. A.<sup>1,\*</sup>, Batker D.<sup>2</sup>, Soares J.<sup>2</sup>, Day J.<sup>3</sup>, Boutwell L.<sup>4</sup> and Briceno T.<sup>5</sup>

Table S1. Summary statistics of the results

Parish	Additional Pop- ulation in 2021 with no wet- land loss from 1990 to 2021 (# of persons)	Additional Pop- ulation in 2021 with no wet- land loss from 1990 to 2021 (%)	Mean change in population growth by 1 hectare of wet- land loss (Percent points)	Mean loss of population per hectare of wet- land loss (# of persons)	Wetland lost to water from 1990 to 2021 (hectares)
Cameron	3186.17	62.72	-0.64	-5.97	453.12
Iberia	1760.14	2.55	-4.14	-28.63	31.31
Jefferson	35445.19	8.17	-3.88	-886.63	47.13
Lafourche	10329.04	10.59	-1.14	-19.33	134.46
Orleans	29345.92	7.78	-11.59	-9252.42	26.99
Plaquemines	35961.25	154.32	-0.47	-23.53	455.42
St. Bernard	110321.30	249.26	-2.87	-868.89	95.35
St. Charles	4447.78	8.507	-5.70	-92.48	26.03
St. John the Baptist	577.68	1.37	-34.79	-581.79	4.09
St. Mary	2553.73	5.29	-2.98	-32.07	49.24
St. Tammany	4143.46	1.53	-8.54	-1377.47	45.54
Terrebonne	54607.52	50.23	-0.44	-31.38	334.97
Vermilion	1991.40	3.48	-2.32	-10.99	117.28

Table S2. Additional models with 2 and 3 lags

	<i>Dependent variable</i>	
	Population growth (%)	
	Model 3	Model 4
Wetland loss (%)	-0.862** (0.343)	-0.829** (0.367)
Wetland loss lag (%)	-0.611*** (0.005)	-0.630*** (0.062)
Wetland loss lag 2 (%)	0.303 (0.256)	0.286 (0.253)
Wetland loss lag 3 (%)		0.212 (0.169)
Fixed effects	Parish and year	Parish and year
Covariates	Developed land loss and total “other land” cover	Developed land loss and total “other land” cover
Observations	403	403
R2	0.571	0.575
Adjusted R2	0.515	0.518
Residual Std. Error	4.172 (df = 355)	4.159 (df = 354)
	<b>Note</b>	<b>*p&lt;0.1; **p&lt;0.05; ***p&lt;0.01</b>