










Data Paper

Ecology, 101(11), 2020, e03149
© 2019 The Authors. *Ecology* © 2019 The Ecological Society of America

Plant-galling insect interactions: a data set of host plants and their gall-inducing insects for the Cerrado

FERNANDA C. F. CINTRA ¹, WALTER S. DE ARAÚJO ², VALÉRIA C. MAIA ³, MARIA V. URSO-GUIMARÃES ⁴,
HENRIQUE VENÂNCIO ¹, JANETE F. ANDRADE ⁵, MARCO A. A. CARNEIRO ⁶, WANESSA R. DE ALMEIDA ⁷, AND
JEAN C. SANTOS ^{7,8}

¹*Programa de Pós-Graduação em Entomologia, Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto, Universidade de São Paulo, Av. Bandeirantes, 3900, Vila Monte Alegre, Ribeirão Preto, São Paulo 14040-901 Brazil*

²*Departamento de Biologia Geral, Universidade Estadual de Montes Claros (UNIMONTES), Av. Prof. Rui Braga, s/n, Vila Mauriceia, Montes Claros, Minas Gerais 39401-089 Brazil*

³*Museu Nacional, Universidade Federal do Rio de Janeiro, Quinta da Boa Vista, São Cristóvão, Rio de Janeiro, Rio de Janeiro 20940-040 Brazil*

⁴*Departamento de Biologia, Universidade Federal de São Carlos, Rodovia João Leme dos Santos, Km 110 - SP-264, Bairro do Itinga, São Carlos, São Paulo 13052-780 Brazil*

⁵*Programa de Pós-graduação em Biologia Vegetal, Universidade Federal de Pernambuco, Av. Prof. Moraes Rego, 1235, Cidade Universitária, Recife, Pernambuco 50670-901 Brazil*

⁶*Departamento Biodiversidade, Evolução e Meio Ambiente, Instituto de Ciências Exatas e Biológicas, Universidade Federal de Ouro Preto, Rua Professor Paulo Magalhães Gomes, 122, Bauxita, Ouro Preto, Minas Gerais 35400-000 Brazil*

⁷*Departamento de Ecologia, Universidade Federal de Sergipe, Av. Marechal Rondon, s/n, Bairro Jardim Rosa Elze, São Cristóvão, Sergipe 49100-000 Brazil*

Citation: Cintra, F. C. F., W. S. de Araújo, V. C. Maia, M. V. Urso-Guimarães, H. Venâncio, J. F. Andrade, M. A. A. Carneiro, W. R. de Almeida, and J. C. Santos. 2020. Plant-galling insect interactions: a data set of host plants and their gall-inducing insects for the Cerrado. *Ecology* 101(11):e03149. 10.1002/ecy.3149

Abstract. Recent decades have seen increased research interest in the processes and mechanisms related to insect gall richness and host plants. The data set provided here includes 968 records of interactions between galling insects and host plants for the Cerrado biome. The data set comprises 505 species of 222 genera and 67 families of host plants. The botanical families most represented in the data set are Asteraceae, Fabaceae, Myrtaceae, Malpighiaceae, and Melastomataceae, which account for ~48.5% of all records and 52% of the total number of species. The gall-inducing insects listed in the data set include 48 species of Cecidomyiidae and one species of Tephritidae. This data set is the first to compile inventories of plant-galling insect communities and information about the diversity and distribution of insect galls and their host plants in the Cerrado. The data set reveals knowledge gaps and opportunities for future research on patterns of diversity and distribution, and provides a basis for generating and testing new ecological hypotheses. Please cite this data paper when using the current data in publications and let us know how the data are used in the publications. There are no copyright restrictions.

Key words: *Asteraceae; Cecidomyiidae; Diptera; Fabaceae; host-plant communities; insect galls; Neotropical savannah; Tephritidae.*

The complete data sets corresponding to abstracts published in the Data Papers section in the journal are published electronically as Supporting Information in the online version of this article at <http://onlinelibrary.wiley.com/doi/10.1002/ecy.3149/supinfo>.

DATA AVAILABILITY

Associated data is also available in Zenodo: <http://doi.org/10.5281/zenodo.3904383>.

Manuscript received 9 March 2020; revised 22 May 2020; accepted 9 June 2020. Corresponding Editor: William K. Michener.
⁸E-mail: jcsantosbio@gmail.com