**Crop damage by vertebrates in Latin America: current knowledge and potential future management directions**

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Supplementary Material

**Table S1: List of the 113 reviewed studies with geographical data.**

Including information on the type of study that they are, their country, whether coordinates and a map of the study area are provided, the coordinates of the locations plotted in Figure 3, and notes about how these coordinates were obtained.

| **Study** | **Type of study** | **Country** | **Exact Coordinates** | **Map provided** | **Plotted locations****(Latitude, longitude)** | **Notes** |
| --- | --- | --- | --- | --- | --- | --- |
| Abba et al. (2015) | Crop-feeding species behavior | Argentina | No | Yes | -34.4169, -60.4072-35.4281, -62.1458-36.6042, -62.9100-36.4214, -58.5411-38.3842, -60.2508 | Approximate middle point for each of the regions found using Google Earth, based on provided map. |
| Abrahams et al. (2018) | Crop damage evaluation, Farmer perception | Brazil | No | Yes | -5.5544, -67.7015 | Approximate middle point found using Google Earth, based on provided map. |
| Aguiar et al. (2011) | Crop-feeding species behavior | Brazil | Yes | No | -24.2117, -50.5581 | - |
| Albarracín and Aliaga-Rossel (2018) | Crop damage evaluation, Farmer perception | Bolivia | No | Yes | -16.5669, -67.6094 | Approximate middle point found using GE. |
| de Almeida-Jácomo et al. (2013) | Crop-feeding species behavior | Brazil | Yes | Yes | -18.3167, -52.7500 | - |
| Aris et al. (2008) | Farmer perception | Peru | Yes | No | -13.0614, -73.7769 | Locations within 50 km of each other, Approximate middle point found using Google Earth. |
| Arroyo-Quiroz et al. (2017) | Farmer perception | Mexico | No | Yes | 21.3050, -99.4564 | Approximate location found using GE, based on named reserve. |
| Avery et al. (2001) | Crop protection experiment | Venezuela | No | No | 9.5440, -69.1864 | Ex-situ experiment, approximate location of where birds where captured found using Google Earth. |
| Barceló et al. (2012) | Farmer perception | Mexico | No | Yes | 28.6562, -106.102126.8883, -103.934724.9104, -104.913222.7636, -102.5886 | Approximate locations found using GE, based on named places. |
| Basili and Temple (1999a) | Crop damage evaluation, Farmer perception | Venezuela | No | No | 9.0950, -69.0992 | Approximate location found using Google Earth, based on named region. |
| Basili and Temple (1999b) | Crop-feeding species behavior, Farmer perception | Venezuela | No | Yes | 9.0950, -69.0992 | Approximate location found using Google Earth, based on named region. |
| Berón et al. (2020) | Crop damage evaluation | Argentina | Yes | Yes | -31.5550, -60.6769 | - |
| Bou et al. (2016) | Crop damage evaluation | Uruguay | No | Yes | -31.9892, -58.1075-32.5636, -57.9856-33.2633, -58.0219-34.2083, -57.6803-34.5911, -56.6089 | Approximate locations found using Google Earth, based on provided map. |
| Boulton et al. (1996) | Crop damage evaluation, Farmer perception | Barbados | No | Yes | 13.1882, -59.5353 | Country-wide study, used central point for Barbados. |
| Bourne (1981) | Crop-feeding species behavior | Guyana | Yes | No | 6.4667, -57.7500 | - |
| Bruggers et al. (1998) | Pest species or outbreak overview | Argentina, Uruguay | No | Yes | -31.2167, -57.9333 | Approximate location found using GE, based on named region. |
| Bucher and Aramburú (2014) | Crop-feeding species behavior | Argentina | No | Yes | -36.2678, -60.3192 | Approximate location found using GE, based on named region. |
| Bucher and Ranvaud (2006) | Pest species or outbreak overview | Argentina, Colombia, Uruguay, Bolivia, Brazil | No | No | -32.2953, -63.5825-32.5169, -59.1042-33.8761, -66.2375-26.5847, -60.9542-25.2489, -64.71833.8025, -76.6431-17.8131, -63.1575-23.5528, -46.6411-25.2406, -52.0297 | Approximate locations found using GE, based on named regions. |
| Calamari et al. (2018) | Crop-feeding species behavior | Argentina | No | Yes | -31.6181, -60.7063 | Approximate middle point of study region found using GE. |
| Canavelli et al. (2012) | Pest species or outbreak overview,Protection technique evaluation | Argentina | No | Yes | -38.4530, -63.5989 | Country-wide study, used central point for Argentina. |
| Canavelli et al. (2013) | Farmer perception | Argentina | No | No | -31.6125, -60.0783 | Approximate location found using Google Earth, based on named region. |
| Canavelli et al. (2014) | Crop damage evaluation | Argentina | No | Yes | -31.6125, -60.0783 | Approximate location found using GE, based on named region. |
| Can-Hernandez et al. (2019) | Farmer perception, Crop damage evaluation | Mexico | No | Yes | 17.5911, -92.4550 | Locations within 50 km of each other, approximate middle point found using Google Earth. |
| de Carvalho et al. (2019) | Farmer perception | Brazil | No | Yes | -21.1311, -44.2533 | Approximate middle point found using Google Earth, based on provided map. |
| Castilho et al. (2018) | Farmer perception | Brazil | No | Yes | -15.1636, -39.3458 | Approximate location found using GE, based on named protected area. |
| Castillo-Chinchilla et al. (2018) | Farmer perception | Costa Rica | Yes | Yes | 10.1900, -85.3644 | - |
| Castillo-Lopez et al. (2017) | Crop protection experiment, Farmer perception,Crop damage evaluation | Colombia | No | No | 5.0773, -73.4215 | Locations within 50 km of each other, approximate middle point found using Google Earth, based on named cities. |
| Cervo and Guadagnin (2020) | Crop-feeding species behavior | Brazil | No | Yes | -16.7197, -56.8389-28.6318, -51.5735-28.7965, -51.0955-29.0479, -50.1435-29.4419, -50.5797-29.7914, -55.7813-30.8722, -55.5208-30.9734, -54.6670-30.5459, -52.5247 | Approximate locations found using Google Earth, based on named cities. |
| Chaves and Bicca-Marques (2017) | Crop damage evaluation, Crop-feeding species behavior, Farmer perception | Brazil | Yes | Yes | -30.1985, -51.0915 | Locations within 50 km of each other, approximate middle point found using Google Earth. |
| Cirne and López-Iborra (2005) | Crop-feeding species behavior | Brazil | Yes | No | -32.2000, -52.5833 | - |
| Codesido et al. (2015) | Crop-feeding species behavior | Argentina | No | Yes | -36.2678, -60.3192 | Approximate location found using GE, based on named region. |
| Cornejo (2000) | Crop damage evaluation, Crop protection experiment | Mexico | No | No | 19.54205, -96.884908 | Approximate location found using GE, based on named city. |
| Corrêa et al. (2018) | Crop-feeding species behavior | Brazil | Yes | Yes | -30.2392, -51.0897 | - |
| Cossios et al. (2018) | Farmer perception | Peru | Yes | Yes | -10.4076, -76.3943 | Locations within 50 km of each other, approximate middle point found using Google Earth. |
| Costán & Sarasola (2017) | Crop-feeding species behavior | Argentina | Yes | No | -36.9136, -64.2614 | - |
| Dardanelli et al. (2016) | Crop-feeding species behavior | Argentina | No | Yes | -32.5169, -59.1042 | Approximate location found using GE, based on named region. |
| Dore et al. (2018) | Farmer perception | Saint Kitts and Nevis | No | Yes | 17.3154, -62.7428 | Island-wide study, approximate middle-point found using GE. |
| Doutel-Ribas et al. (2019) | Protection technique evaluation, Crop-feeding species behavior | Brazil | Yes | Yes | -21.5454, -54.2273 | Locations within 50 km of each other, Approximate middle point found using Google Earth. |
| Eiris and Barreto (2009) | Crop-feeding species behavior | Venezuela | Yes | No | 8.8453, -67.5428 | - |
| Engeman et al. (2010) | Farmer perception, Crop damage evaluation | Puerto Rico | No | No | 18.0383, -67.0061 | Approximate location found using GE, based on named region. |
| Escobar-Lasso et al. (2020) | Farmer perception, Crop damage evaluation | Colombia | No | Yes | 4.7283, -75.6361 | Approximate locations found using Google Earth, based on provided map. |
| Felix et al. (2014) | Crop damage evaluation, Crop-feeding species behavior,Farmer perception | Brazil | Yes | Yes | -22.2217, -54.8064 | - |
| Ferraz et al. (2003) | Crop damage evaluation | Brazil | Yes | Yes | -22.7083, -47.6417 | - |
| Ferraz et al. (2007) | Crop-feeding species behavior | Brazil | No | Yes | -22.7083, -46.9667 | Approximate middle point of study region found using GE, based on provided map. |
| Ferraz et al. (2009) | Crop-feeding species behavior | Brazil | No | Yes | -22.7083, -46.9667 | Approximate middle point of study region found using GE, based on provided map. |
| Figueroa (2013) | Crop-feeding species behavior | Peru, Venezuela, Ecuador, Colombia, Bolivia | Yes | Yes | -5.5358, -79.7628-6.3678, -78.0022-6.1392, -78.7250-6.3531, -79.4814-6.6978, -79.3594-9.1528, -77.6475-10.3258, -75.3889-10.6569, -75.0178-12.2617, -71.2844-13.1831, -71.6181-13.2261, -72.4950-13.3886, -72.8817-12.7278, -70.9950-13.5219, -69.5706 | - |
| Flores-Armillas et al. (2020) | Farmer perception, Crop damage evaluation | Mexico | No | Yes | 18.4640, -98.9731 | Approximate middle point found using Google Earth. |
| de Freitas et al. (2008) | Crop-feeding species behavior | Brazil | No | No | -20.5125, -47.3083 | Approximate middle point found using Google Earth. |
| Fuentes and Campusano (1985) | Pest species or outbreak overview, Farmer perception | Chile | No | No | -30.0322, -70.7081-29.9022, -71.2519 | Approximate locations found using GE, based on named cities. |
| Galetti (1993) | Crop-feeding species behavior | Brazil | Yes | No | -22.7833, -49.1167 | - |
| García and Peiró (2016) | Crop-feeding species behavior, Crop damage evaluation | Cuba | Yes | Yes | 22.3634, -80.557167 | - |
| García-Mendoza and Prieto-Rosales (2019) | Crop damage evaluation | Peru | Yes | No | -12.4083, -74.6767 | - |
| Gonzalez and Acosta-Perez (2002) | Crop damage evaluation | Mexico | No | No | 18.8729, -98.9141 | Approximate location found using GE, based on named city. |
| Gorosábel et al. (2019) | Crop damage evaluation | Argentina | Yes | No | -38.3739, -60.2797-38.3480, -59.6183 | - |
| Hilje (1992) | Pest species or outbreak overview | Costa Rica | No | No | 9.9168, -84.0743 | Country-wide study, used central point for Costa Rica |
| Horrocks and Baulu (1988) | Protection technique evaluation | Barbados | No | No | 13.1882, -59.5353 | Country-wide study, used central point for Barbados. |
| Horrocks and Baulu (1994) | Farmer perception, Crop damage evaluation | Barbados | No | No | 13.1882, -59.5353 | Country-wide study, used central point for Barbados. |
| Horváth et al. (2001) | Crop-feeding species behavior | Mexico | No | Yes | 16.1086, -91.6992 | Approximate location found using GE, based on named protected area. |
| Ibañez et al. (2016) | Crop damage evaluation | Argentina | Yes | No | -34.8833, -58.0667 | - |
| Jackson (1988) | Pest species or outbreak overview | Argentina | No | No | -38.4530, -63.5989 | Country-wide study, used central point for Argentina. |
| Key and de la Piedra Constantino (1992) | Protection technique evaluation | Mexico | No | Yes | 16.7460, -93.129616.2351, -93.256316.2327, -92.130414.9114, -92.2780 | Approximate locations found using GE, based on named cities. |
| Lima et al. (2019) | Pest species or outbreak overview, Farmer perception | Brazil | No | Yes | -12.6764, -56.9236 | State-wide study, used approximate central point of Mato Grosso, found using Google Earth. |
| Lins and Ferreira (2018) | Crop-feeding species behavior | Brazil | Yes | No | -7.5164, -34.9203 | Error in provided coordinates, approximate location found using Google Earth, based on mentioned city. |
| Lobão and Nogueira-Filho (2011) | Crop damage evaluation, Farmer perception | Brazil | Yes | No | -15.0308, -39.1611 | Locations within 50km of each other, approximate middle point found using Google Earth. |
| López-Torres et al. (2012) | Crop-feeding species behavior | Puerto Rico | Yes | Yes | 18.3915, -65.8611 | Locations within 50 km of each other, approximate middle point found using GE. |
| Loza-del-Carpio et al. (2016) | Crop damage evaluation | Peru | Yes | No | -15.2333, -70.7167 | - |
| MacGregor-Fors et al. (2011) | Pest species or outbreak overview | Mexico | No | Yes | 26.0117, -111.347819.7061, -101.195020.5278, -100.811119.4328, -99.133119.0414, -98.206417.0731, -96.726416.7517, -93.1031 | Approximate locations found using GE, based on named cities. |
| Marchand (2016) | Farmer perception | Brazil | No | Yes | -2.4546, -58.2689 | Locations within 50 km of each other, Approximate middle point found using Google Earth, based on provided map. |
| McKinney (2011) | Crop-feeding species behavior | Costa Rica | Yes | Yes | 9.7956, -84.9208 | - |
| McKinney (2019) | Crop-feeding species behavior | Costa Rica | No | Yes | 9.7956, -84.9208 | Coordinates taken from another study by the same author in the same wildlife refuge. |
| Melo and Cheschini (2012) | Crop damage evaluation | Brazil | No | No | -18.9488, -48.2174 | Approximate location found using GE, based on named place |
| Mendonça et al. (2011) | Farmer perception | Brazil | Yes | Yes | -7.0767, -36.0611 | - |
| Mitchell and Bruggers (1985) | Crop damage evaluation, Crop protection experiment | Dominican Republic | No | No | 19.2981, -70.2564 | Approximate location found using Google Earth, based on named city. |
| Monge (1999) | Crop damage evaluation | Costa Rica | No | Yes | 9.9168, -84.0743 | Country-wide study, used central point for Costa Rica. |
| Monge (2013) | Pest species or outbreak overview | Costa Rica | No | No | 9.9168, -84.0743 | Country-wide study, used central point for Costa Rica. |
| Monge-Meza (2011) | Pest species or outbreak overview | Costa Rica | No | Yes | 10.2489, -83.6392 | Approximate location found using Google Earth, based on named region. |
| Monge-Meza and Orozco (2010) | Crop damage evaluation | Costa Rica | Yes | No | 11.0667, -85.5833 | - |
| Monge-Meza et al. (2014) | Crop damage evaluation | Costa Rica | Yes | No | 10.1833, -84.2667 | - |
| Naughton-Treves et al. (2003) | Crop-feeding species behavior, Crop damage evaluation | Peru | No | Yes | -12.6564, -69.2710 | Approximate location found using Google Earth, based on provided map. |
| Olivera et al. (2016) | Protection technique evaluation | Uruguay | No | No | -34.9008, -56.1644 | Approximate locations found using GE, based on named facilities. |
| Parra et al. (2012) | Crop damage evaluation | Venezuela | Yes | No | -8.7500, -67.5333 | - |
| Pedrana et al. (2014) | Crop-feeding species behavior | Argentina | No | Yes | -38.5950, -61.4628 | Approximate locations found using GE, based on provided map. |
| Pedrosa et al. (2015) | Pest species or outbreak overview | Brazil | No | Yes | -19.1533, -49.1394 | Country-wide study, used central point for Southern Brazil |
| Pereira et al. (2019) | Farmer perception | Brazil | No | Yes | -22.2971, -44.7009 | Locations within 50km of each other, approximate middle point found using Google Earth. |
| Pérez and Bulla (2000) | Crop-feeding species behavior | Venezuela | Yes | No | 8.9981, -65.7425 | - |
| Pérez and Pacheco (2006) | Crop protection experiment, Crop damage evaluation | Bolivia | No | Yes | -16.2034, -67.8367 | Approximate middle point found using Google Earth, based on named town. |
| Pérez and Pacheco (2014) | Crop protection experiment, Crop damage evaluation | Bolivia | No | No | -16.1986, -67.8994 | Approximate middle point found using Google Earth, based on places named in article. |
| Peyton (1980) | Crop-feeding species behavior | Peru | No | Yes | -7.9428, -77.6675-10.8197, -75.5992-13.6642, -70.4839 | Approximate locations found using GE, based on provided map |
| Poleo et al. (2010) | Crop-feeding species behavior | Venezuela | No | No | 8.6472, -67.1897 | Approximate location found using GE, based on named region. |
| Ranvaud et al. (2001) | Crop-feeding species behavior | Brazil | Yes | Yes | -22.7833, -50.5833 | - |
| Renfrew and Saavedra (2007) | Crop-feeding species behavior, Farmer perception | Bolivia | Yes | Yes | -17.2186, -62.8952-17.1133, -63.9375-14.8797, -64.8525 | Locations in each area within 50km of each other, approximate middle points found using Google Earth, based on study site coordinates. |
| Renfrew et al. (2017) | Crop-feeding species behavior | Argentina, Bolivia | Yes | No | -15.7610, -64.1570-25.9240, -58.5350 | - |
| Robles et al. (2003) | Crop damage evaluation, Crop protection experiment | Peru | Yes | No | -12.1167, -75.2000 | - |
| Rocha and Fortes (2015) | Farmer perception | Brazil | Yes | No | -29.4472, -53.2806 | - |
| Rodriguez and Avery (1996) | Pest species or outbreak overview | Uruguay | No | No | -32.5228, -55.7672 | Country-wide study, used central point for Uruguay. |
| Rodriguez et al. (1995) | Crop protection experiment, Crop damage evaluation | Uruguay | No | No | -34.1209, -57.7018-32.6984, -57.6357 | Approximate locations found using GE, based on named cities. |
| Rodriguez et al. (2004) | Farmer perception, Crop damage evaluation | Uruguay | No | No | -34.5425, -55.9434 | Approximate location found using GE, based on named region. |
| Romero-Balderas et al. (2006) | Crop damage evaluation, Farmer perception | Mexico | No | Yes | 16.1370, -90.8916 | Locations within 50 km of each other, Approximate middle point found using Google Earth, based on provided map. |
| Rosa et al. (2018) | Protection technique evaluation | Brazil | Yes | Yes | -22.3500, -44.7833-30.8833, -55.5167 | - |
| Sanchez et al. (2016) | Crop damage evaluation | Argentina | No | Yes | -41.0461, -62.8730 | Approximate location found using Google Earth, based on provided map. |
| Sanchez-Cordero and Martinez-Meyer (2000) | Pest species or outbreak overview | Mexico | No | Yes | 18.4572, -95.3997 | Study involves the whole state, location of central point of the state. |
| Santos (2018) | Pest species or outbreak overview, Farmer perception | Brazil | No | No | -10.3326, -36.8667 | Approximate location found using Google Earth, based on named region. |
| Saucedo et al. (2010) | Farmer perception, Crop damage evaluation | Cuba | No | Yes | 22.4950, -79.9206 | Approximate location found using GE, based on named region. |
| Silva-Andrade et al. (2016) | Farmer perception | Brazil | Yes | Yes | -8.7117, -36.4150 | - |
| Silva-Rodríguez et al. (2006) | Farmer perception | Chile | Yes | No | -40.2333, -73.0667 | - |
| Spagnoletti et al. (2017) | Farmer perception, Crop damage evaluation | Brazil | Yes | Yes | -9.6313, -45.4303 | Locations within 50km of each other, approximate middle point found using Google Earth. |
| Trivedi et al. (2004) | Crop damage evaluation | Peru | Yes | No | -12.6508, -68.9278 | - |
| Valencia (1980) | Crop damage evaluation, Crop protection experiment | Colombia | No | Yes | 12.5405, -81.70432.9683, -78.18441.7874, -78.764811.2724, -73.3093 | Approximate locations found using GE, based on provided map. |
| Valencia et al. (1994) | Pest species or outbreak overview | Colombia | No | Yes | 12.5405, -81.70431.7569, -78.46392.3992, -71.49505.0567, -72.88648.5331, -76.08428.9544, -73.9036 | Approximate locations found using GE, based on provided map. |
| Villa et al. (1998) | Crop-feeding species behavior | Mexico | No | No | 18.2386, -96.1417 | Approximate middle point found using GE. |
| Villafana-Martin et al. (1999) | Crop protection experiment | Costa Rica | No | No | 9.91681, -84.07426 | No location information provided. Used central point for Costa Rica, found using Google Earth. |
| del Villar-González (2000) | Pest species or outbreak overview | Mexico | No | No | 22.5175, -101.6131 | Country-wide study, used central point for Mexico. |
| Waters (2015) | Farmer perception | Belize | No | No | 17.19167, -88.49889 | Country-wide study. Used approximate central point for Belize, found using Google Earth. |

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