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

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Supplementary Material

**Table S3: List of the 113 reviewed studies with species and crop protection data.**

Including information on the crop taxa in each study, the vertebrate taxa that interact with them, the protection techniques used, and the efficiency of the protection techniques.

| **Study** | **Crop taxa** | **Vertebrate taxa** | **Protection techniques** | **Efficiency** |
| --- | --- | --- | --- | --- |
| Abba et al. (2015) | *Glycine max*, *Zea mays*, *Helianthus annuus*, *Triticum aestivum* | *Chaetophractus villosus*, *Dasypus hybridus* | None | - |
| Abrahams et al. (2018) | *Manihot esculenta* | *Dasyprocta fuliginosa*, *Pecari tajacu*, *Cuniculus paca*, *Mazama americana*,Echimyidae | Hunting (weapons, dogs, traps), Vigilance (People), Visual deterrents (Scarecrows), Agricultural practices (Field clearing, Firebreaks), Physical barriers (Netting), Acoustic deterrents (Yelling) | Not quantified |
| Aguiar et al. (2011) | *Citrullus* sp., *Persea americana*, *Morus nigra*, *Hovenia dulcis*, *Eriobotrya japonica*, *Vassobia breviflora*, *Musa* sp. | *Nasua nasua*, *Procyon cancrivorus* | None | - |
| Albarracín and Aliaga-Rossel (2018) | *Zea mays* | *Tremarctos ornatus*, *Aratinga* sp., *Turdus chiguanco*, *Conepatus chinga* | Hunting, Acoustic deterrents (Fireworks), Vigilance (People) | Not quantified |
| de Almeida-Jácomo et al. (2013) | *Zea* sp., *Glycine* sp., *Sorghum* sp., *Panicum* sp. | *Tayassu pecari* | Hunting | Not quantified |
| Aris et al. (2008) | Undetermined | *Conepatus chinga* | Hunting | Not quantified |
| Arroyo-Quiroz et al. (2017) | *Zea* sp., *Phaseolus* sp., *Arachis* sp., *Carica* sp., *Persea* sp., *Mangifera* sp., *Musa* sp., *Cucurbita* sp., *Cicer* sp., *Pisum* sp. | Sciuridae, Leporidae, Muridae, Psittacidae, *Nasua narica*, *Urocyon cinereoargenteus*, *Odocoileus virginianus*, *Procyon lotor*, *Dasypus novemcinctus*, *Didelphis virginiana*, *Rattus rattus* | Poisoning (Herbicides) | Not quantified |
| Avery et al. (2001) | *Oryza sativa* | *Spiza americana* | Chemical repellent (Anthraquinone, Methyl anthranilate, Methiocarb) | Varying |
| Barceló et al. (2012) | *Zea* sp., *Avena* sp., *Sorgum* sp., *Triticum* sp. | *Grus canadensis* | Acoustic deterrents, Visual deterrents (Scarecrows), Agricultural practices (Time of harvest), Hunting (Firearms) | Not quantified |
| Basili and Temple (1999a) | *Oryza* sp., *Sorghum* sp. | *Spiza americana* | Poisoning, Acoustic deterrents (Firecrackers, Sirens, Horns, Yelling, Firearms), Visual deterrents (Flags, Scarecrows, Reflective objects, Smoke), Biological control (Attracting predators) | Effective |
| Basili and Temple (1999b) | *Oryza* sp., *Sorghum* sp. | *Spiza americana* | Poisoning, Hunting (Firearms) | Not quantified |
| Berón et al. (2020) | *Ficus carica* | *Myiopsitta monachus*, *Pitangus sulphuratus*, *Mimus saturninus*, *Turdus amaurochalinus*, *Turdus rufiventri*, *Thraupis sayaca*, *Pipraeidea bonariensis*, *Paroaria coronate*, *Saltator coerulescens*, *Passer domesticus* | None | - |
| Bou et al. (2016) | *Glycine max* | *Zenaida auriculata*, *Patagioenas picazuro*, *Patagioenas maculosa* | None | - |
| Boulton et al. (1996) | *Annona* sp., *Mangifera* sp., *Carica* sp., *Psidium* sp., *Arachis* sp., *Malus* sp., *Pisum* sp., *Musa* sp., *Prunus* sp., *Zea* sp., *Cucumis* sp., *Blighia* sp., *Manihot* sp., *Perse asp*., *Daucus* sp., *Ipomoea* sp., *Cucurbita* sp., *Solanum* sp., *Artocarpus* sp., *Phaseolus* sp., *Saccharum* sp., *Abelmoschus* sp., *Dioscorea* sp., *Citrus* sp., *Brassica* sp., *Allium* sp., *Beta* sp. | *Chlorocebus aethiops* | Hunting (Firearms, Traps) | Not effective |
| Bourne (1981) | *Oryza sativa* | *Dendrocygna autumnalis* | None | - |
| Bruggers et al. (1998) | *Glycine* sp., *Helianthus* sp., *Triticum* sp., *Sorghum* sp., *Zea* sp., *Oryza* sp., *Citrus* sp., *Hordeum* sp., *Malus* sp., *Pyrus* sp., *Prunus* sp. | *Zenaida auriculata*, *Patagioenas picazuro*, *Patagioenas maculosa*, *Myiopsitta monachus*, *Molothrus* sp., *Chrysomus ruficapillus*, *Pseudoleistes* sp., *Sicalis* sp., *Chloephaga* sp., *Dendrocygna* sp., *Netta* sp., *Amazona aestiva* | Poisoning (Carbofuran, Parathion, Chlorpyrifos, Monocrotophos, Endrin, Mevinphos, Dicrotophos, CPT, CPTH), Hunting (Firearms), Chemical repellents (Methiocarb, Trimethacarb, Dimethyl, Methyl anthranilate, Synergized aluminum ammonium sulfate, Copper oxalate, Copper oxychloride, Condensed tannins, Avitrol), Reproductive control (Sterilants), Agricultural practices (Kind of crops, Time of harvest), Biological control (Suitable habitat reduction) | Not quantified |
| Bucher and Aramburú (2014) | *Sorghum* sp., *Helianthus* sp., *Zea* sp. | *Myiopsitta monachus* | None | - |
| Bucher and Ranvaud (2006) | *Sorghum* sp., *Helianthus* sp., *Oryza* sp., *Zea* sp., *Tritichum* sp., *Hordeum* sp., *Glycine* sp. | *Zenaida auriculata* | Poisoning | Not effective |
| Calamari et al. (2018) | Undetermined | *Zenaida auriculata*, *Myiopsitta monachus* | None | - |
| Canavelli et al. (2012) | *Zea* sp., *Helianthus* sp., *Sorgum* sp., *Triticum* sp., *Oryza* sp., *Citrus* sp., *Prunus* sp., *Vaccinium* sp. | *Myiopsitta monachus* | Hunting (Firearms, Traps), Poisoning (Insecticides), Reproductive control (Nest burning, Egg destruction, Sterilants), Agricultural practices (Time of harvest, Location of crops, Kind of crops, Field clearing), Acoustic repellents (Canons, Fireworks, Predator sounds) | Not quantified |
| Canavelli et al. (2013) | *Zea* sp., *Helianthus* sp., *Glycine* sp., *Triticum* sp., *Sorghum* sp., *Medicago* sp., *Panicum* sp. | *Myiopsitta monachus* | Hunting (Weapons, Traps), Poisoning, Reproductive control (Nest destruction), Chemical repellents, Physical barriers, Agricultural practices (Early planting, Field clearing, Providing alternative food sources), Capture and relocation | Varying |
| Canavelli et al. (2014) | *Zea* sp., *Helianthus* sp. | *Myiopsitta monachus* | Agricultural practices (Time of harvest, Crop density, Kind of crops) | Not quantified |
| Can-Hernandez et al. (2019) | *Zea mays* | *Quiscalus mexicanus*, *Psilorhinus morio*, *Psarocolius montezuma*, *Amazona albifrons*, *Dives dives*, *Nasua narica*, *Procyon lotor*,Procyonidae, *Sciurus aureogaster*, *Cuniculus paca*, *Odocoileus virginianus* | Hunting (Weapons), Poisoning, Chemical repellent (Soap), Visual deterrents (Reflective objects, Scarecrows), Acoustic deterrents (Firecrackers), Vigilance (People, Guard dogs) | Not quantified |
| de Carvalho et al. (2019) | *Zea mays*, *Phaseolus* sp., *Sorghum bicolor*, *Oryza sativa*, *Saccharum* sp.,Fruits,Vegetables | *Psittacara leucophthalmus*, *Hydrochoerus hydrochaeris*, *Penelope obscura*, *Patagioenas* spp., *Sus scrofa*, *Nasua nasua*, *Thraupis* spp., *Ramphastos toco*, *Aramides saracura*, *Gnorimopsar chopi*, *Cyanocorax cristatellus*, *Cariama cristata*, *Dasypodidae* spp., *Didelphis* sp., *Allouatta* sp. | Acoustic deterrents (Firecrackers, Gas cannon), Visual deterrents (Scarecrows, Reflective objects), Vigilance, Physical barriers (Netting, Fencing), Chemical repellents, Hunting, Agricultural practices (Providing alternative food sources) | Not effective |
| Castilho et al. (2018) | *Zea* sp., *Manihot* sp. | *Pecari tajacu*, *Hydrochoerus hydrochaeris* | Hunting | Not quantified |
| Castillo-Chinchilla et al. (2018) | Undetermined | *Procyon lotor*, *Nasua narica*, *Odocoileus virginianus*, *Cebus capucinus*, *Alouatta palliata*, *Mustela frenata*, *Sylvilagus floridanus*, *Sciurus variegatoides* | None | - |
| Castillo-Lopez et al. (2017) | *Zea mays* | *Sciurus granatensis*, *Chilomys instans*, *Didelphis marsupialis*, *Cyanocorax yncas*, *Icterus chrysater*, *Turdus fuscater*, *Mimus gilvus*, *Pheucticus aureoventris*, *Thraupis episcopus*,Leporidae, Chiroptera | Palatable deterrent (Chile), Olfactory deterrent (Creolina) | Not effective |
| Cervo and Guadagnin (2020) | *Avena sativa*, *Sorghum bicolor*, *Lolium* sp., *Zea mays*, *Oryza sativa*, *Glycine max* | *Sus scrofa* | Hunting (Weapons, Dogs, Traps) | Not quantified |
| Chaves and Bicca-Marques (2017) | *Psidium guajava*, *Eriobotrya japonica*, *Diospyros kaki*, *Citrus reticulata*, *Araucaria angustifolia*, *Citrus sinensis* | *Alouatta guariba clamitans* | None | - |
| Cirne and López-Iborra (2005) | *Oryza sativa* | *Agelaius ruficapillus* | None | - |
| Codesido et al. (2015) | *Glycine max*, *Zea mays*, *Helianthus annus* | *Zenaida auriculata*, *Myiopsitta monachus*, *Patagioenas picazuro*, *Patagioenas maculosa* | None | - |
| Cornejo (2000) | *Saccharum* sp. | *Orthogeomys hispidus* | Poisoning (Sodium monofuroacetate) | Effective |
| Corrêa et al. (2018) | *Morus nigra*, *Eriobotrya japonica*, *Psidium guajava*, *Syzygium cumini*, *Hovenia dulcis*, *Melia azedarach*, *Ligustrum lucidum* | *Alouatta guariba* | None | - |
| Cossios et al. (2018) | Undetermined | *Conepatus chinga* | Hunting | Not quantified |
| Costán & Sarasola (2017) | *Panicum miliaceum*, *Triticum aestivum*, *Helianthus annus*, *Avena sativa*, *Zea may*, *Sorghum bicolor* | *Zenaida auriculata* | None | - |
| Dardanelli et al. (2016) | *Glycine max*, *Triticum* sp., *Zea* sp., *Brassica* sp. | *Zenaida auriculata*, *Patagioenas maculosa*, *Patagioenas picazuro*, *Myiopsitta monachus* | Agricultural practices (Harvest time, Alternative food sources) | Not quantified |
| Dore et al. (2018) | Undetermined | *Chlorocebus aethiops* | Vigilance (Dogs) | Not quantified |
| Doutel-Ribas et al. (2019) | Undetermined | *Sus scrofa* | Vigilance (Guard dogs) | Not effective |
| Eiris and Barreto (2009) | *Oryza* sp. | *Holochilus sciureus* | Poisoning (Rodenticides, Organophosphates) | Not quantified |
| Engeman et al. (2010) | *Cucurbita* sp., *Citrullus* sp., *Cucumis* sp., *Carica* sp., *Musa* sp., *Zea* sp. | *Macaca mulatta*, *Erythrocebus patas* | Agricultural practices (Kind of crops) | Not quantified |
| Escobar-Lasso et al. (2020) | *Musa sapientum*, *Musa paradisiaca* | *Tremarctos ornatus* | Fencing | Not effective |
| Felix et al. (2014) | *Oryza sativa*, *Zea mays*, *Saccharum*, *Glycine max* | *Hydrochoerus hydrochaeris* | None | - |
| Ferraz et al. (2003) | *Zea mays* | *Hydrochoerus hydrochaeris* | None | - |
| Ferraz et al. (2007) | *Saccharum* sp. | *Hydrochoerus hydrochaeris* | None | - |
| Ferraz et al. (2009) | *Saccharum* sp. | *Hydrochoerus hydrochaeris* | None | - |
| Figueroa (2013) | *Annona cherimola*, *Ananas comosus*, *Opuntia ficus-indica*, *Cucurbita pepo*, *Cucurbita maxima*, *Cucurbita moschata*, *Manihot esculenta*, *Persea americana*, *Psidium guajava*, *Musa paradisiaca*, *Musa sapientum*, *Saccharum officinarum*, *Zea mays*, *Citrus* sp., *Lucuma obovata*, *Solanum quitoense*, *Solanum tuberosum* | *Tremarctos ornatus* | Hunting | Not quantified |
| Flores-Armillas et al. (2020) | *Zea mays* | *Nasua narica*, *Odocoileus virginianus*,Birds | None | - |
| de Freitas et al. (2008) | *Zea mays*, *Saccharum officinarum* | *Sapajus libidinosus* | None | - |
| Fuentes and Campusano (1985) | Undetermined | *Abrothrix olivacea*, *Mus musculus*, *Octodon degus*, *Oligoryzomys longicaudatus*, *Phyllotis darwini*, *Rattus rattus*, *Lepus europaeus* | Poisoning | Not quantified |
| Galetti (1993) | *Zea mays* | *Pionus maximiliani* | None - |  |
| García and Peiró (2016) | *Oryza sativa*, *Phaseolus vulgaris*, *Zea mays* | *Zenaida macroura* | None | - |
| García-Mendoza and Prieto-Rosales (2019) | *Zea mays* | Psittacidae | Vigilance | Not quantified |
| Gonzalez and Acosta-Perez (2002) | *Oryza* sp. | *Molothrus aeneus*, *Molothrus ater*, *Quiscalus mexicanus*, *Agelaius phoeniceus*, *Passerina* *caerulea*, *Volatinia jacarina* | None | - |
| Gorosábel et al. (2019) | *Triticum* sp. | *Chloephaga rubidiceps*, *Chloephaga poliocephala*, *Chloephaga picta* | None | - |
| Hilje (1992) | *Persea americana*, *Oryza sativa*, *Pisum sativum*, *Avena sativa*, *Musa paradisiaca*, *Theobroma cacao*, *Coffea arabica*, *Saccharum officinarum*, *Allium cepa*, *Cocos nucifera*, *Sechium edule*, *Phaseolus* *vulgaris*, *Macadamia* *integriflora*, *Zea* *mays*, *Colocasia* *esculenta*, *Mangifera* *indica*, *Arachis* *hypogaea*, *Elaeis* *guineensis*, *Solanum* *tuberosum*, *Carica* *papaya*, *Bactris* *gasipaes*, *Ananas* *comosus*, *Musa* *paradisiaca*, *Brassica* *oleracea*, *Sorghum* *bicolor*, *Tamarindus* *indica*, *Xanthosoma* *violaceum*, *Manihot* *esculenta*, *Lycopersicon* *esculentum*, *Daucus* *carota*, *Cucurbita* *moschata* | *Orthogeomys cavator*, *Orthogeomys* *cherriei*, *Orthogeomys* *heterodus*, *Orthogeomys* *underwoodi*, *Sigmodon* *hispidus*, *Sciurus* *granatensis*, *Sciurus* *variegatoides* | Poisoning (Metomil, Zinc phosphide, Thallium sulfate, Endrin, Coumatetralyl, Brodifacoum), Hunting (Firearms, Traps), Agricultural practices (Field clearing), Biological control (Attracting predators) | Not quantified |
| Horrocks and Baulu (1988) | Undetermined | *Chlorocebus aethiops* | Hunting (Traps) | Not effective |
| Horrocks and Baulu (1994) | *Annona* sp., *Mangifera* sp., *Spondias* sp., *Carica* sp., *Psidium* sp., *Arachis* sp., *Passiflora* sp., *Malus* sp., *Pisum* sp., *Musa* sp., *Prunus* sp., *Zea* sp., *Cucumis* sp., *Blighia* sp., *Manihot* sp., *Persea* sp., *Daucus* sp., *Ipomoea* sp., *Cucurbita* sp., *Solanum* sp., *Artocarpus* sp., *Phaseolus* sp., *Abelmoschus* sp., *Dioscorea* sp., *Citrus* sp., *Colocasia* sp., *Brassica* sp., *Allium* sp., *Beta* sp., *Saccharum* sp. | *Chlorocebus aethiops* | Hunting (Traps), Agricultural practices (Kind of crops, Location of crops, Alternative food sources, Field clearing), | Not quantified |
| Horváth et al. (2001) | *Zea* sp., *Phaseolus* sp., *Solanum* sp., *Coffea* sp. | *Sigmodon hispidus* | None | - |
| Ibañez et al. (2016) | *Vaccinium* sp., *Morus* sp., *Prunus* sp. | *Sturnus vulgaris* | None | - |
| Jackson (1988) | *Saccharum* sp., *Oryza* sp., *Zea* sp., *Panicum* sp., *Sorghum* sp., *Helianthus* sp., *Citrus* sp. | *Lepus europaeus*, *Holochilus brasiliensis*, *Calomys musculinus*, *Calomys laucha*, *Oligoryzomys nigripes*, *Akodon azarae*, *Ctenomys* sp., *Cavia aperea*, *Galea musteloides*, *Chaetophractus* sp., *Dasypus* sp., *Sus scrofa*, *Tayassu pecari*, *Pecari tajacu* | None | - |
| Key and de la Piedra Constantino (1992) | *Zea* sp., *Saccharum* sp., *Theobroma* sp., *Coffea* sp. | *Rattus rattus*, *Rattus* *norvegicus*, *Sigmodon* *hispidus*, *Orthogeomys* sp. | Poisoning (Zinc phosphide and Diphacinone) | Not quantified |
| Lima et al. (2019) | *Zea mays*, *Glycine max* | *Tayassu pecari* | Hunting (Weapons, Dogs, Traps), Poisoning (Carbofuran), Physical barriers (Electric fencing, Trenches), Agricultural practices (Providing alternative food sources, Barrier crops), Acoustic deterrents (Firecrackers) | Varying |
| Lins and Ferreira (2018) | *Saccharum* sp. | *Sapajus flavius* | None | - |
| Lobão and Nogueira-Filho (2011) | *Theobroma cacao*, *Manihot esculenta*, *Musa* sp., *Phaseolus* sp., *Zea mays*, *Bactris gasipaes*, *Carica papaya*, *Elaeis* sp. | *Oryzomys laticeps*, *Pecari tajacu*, *Cuniculus paca*, *Metachirus nudicaudatus*, *Nectomys squamipes*, *Sciurus aestuans*, *Dasyprocta aguti*, *Hydrochoerus hydrochaeris*, *Nasua nasua*, *Callistomys pictus*, *Leontopithecus chrysomelas*, *Procyon cancrivorus*, *Didelphis aurita*, *Euphractus sexcinctus*, *Dasypus novemcinctus*, *Cabassous unicinctus* | Hunting (Weapons, Traps), Acoustic deterrents (Firecrackers, Firearms) | Not quantified |
| López-Torres et al. (2012) | *Dioscorea* sp., *Xanthosoma* sp., *Cucurbita* sp., *Cucumis* sp. | *Iguana iguana* | None | - |
| Loza-del-Carpio et al. (2016) | *Chenopodium quinoa* | *Patagioenas maculosa*, *Sicalis uropigyalis*, *Zenaida auriculata*, *Zonotrichia capensis*, *Geospizopsis plebejus*, *Phrygilus punensis*, *Rhopospina fruticeti*, *Sicalis luteola*, *Metriopelia melanoptera*, *Turdus chiguanco*, *Metriopelia ceciliae*, *Spinus atratus* | None | - |
| MacGregor-Fors et al. (2011) | Undetermined | *Myiopsitta monachus* | Hunting (Firearms, Traps), Reproductive control (Sterilants) | Not quantified |
| Marchand (2016) | Undetermined | *Pecari tajacu*, *Dasyprocta* spp., *Hydrochoerus hydrochaeris*, *Mazama* spp. | Agricultural practices (Field clearing), Physical barriers (Fencing) | Not effective |
| McKinney (2011) | *Elaeis guineensis*, *Cocos nucifera*, *Musa acuminata* | *Cebus capucinus* | None | - |
| McKinney (2019) | *Mangifera indica* | *Alouatta palliata* | None | - |
| Melo and Cheschini (2012) | *Sorghum bicolor* | *Athene cunicularia*, *Patagioenas picazuro*, *Columbina* *talpacoti*, *Zenaida* *auriculata*, *Crotophaga* *ani*, *Diopsittaca* *nobilis*, *Psittacara* *leucophthalmus*, *Brotogeris* *chiriri*, *Forpus* *xanthopterygius*, *Tyrannus* *melancholicus*, *Sporophila* *lineola*, *Sporophila* *nigricollis*, *Sporophila* sp., *Volatinia* *jacarina*, *Sicalis* *flaveola*, *Gnorimopsar* *chopi* | Agricultural practices (Time of harvest, Location of crops) | Not quantified |
| Mendonça et al. (2011) | *Zea* sp. | *Cerdocyon thous* | Hunting | Not quantified |
| Mitchell and Bruggers (1985) | *Theobroma cacao* | *Melanerpes striatus* | Hunting, Chemical repellents (Methiocarb), Visual deterrents (Carpenter’s chalk), Olfactory deterrents (Tabebuia extract) | Not effective/  Inconclusive |
| Monge (1999) | *Bactris gasipaes* | *Orthogeomys cherriei*, *Orthogeomys heterodus*, *Orthogeomys cavator*, *Orthogeomys underwoodi* | None | - |
| Monge (2013) | *Oryza* sp., *Zea* sp., *Musa*, *Elaeis* sp., *Triticum* sp., *Sorghum* sp., *Sesamum* sp., *Bactris* sp., *Mangifera* sp., *Citrus* sp., *Persea* sp., *Helianthus* sp., *Elettaria* sp., *Vitis* sp., *Malus* sp., *Cucurbita* sp., *Pisum* sp., *Cicer* sp., *Phaseolus* sp., *Cucumis* sp., *Solanum* sp. | *Dendrocygna* viduata, Dendrocygna *autumnalis*, *Dendrocygna bicolor*, *Cairina* moschata, Anas *discors* , *Bubulcus ibis*, *Coragyps atratus*, *Cathartes aura*, *Porphyrio martinicus*, *Gallinula galeata*, *Jacana jacana*, *Patagioenas flavirostris*, *Patagioenas fasciata*, *Zenaida asiatica*, *Columbina passerina*, *Columbina minuta*, *Columbina talpacoti*, *Psittacara finschi*, *Eupsittula canicularis*, *Eupsittula pertinax*, *Brotogeris jugularis*, *Pionus menstruus*, *Pionus senilis*, *Amazona albifrons*, *Amazona autumnalis*, *Melanerpes formicivorus*, *Melanerpes chrysauchen*, *Dryocopus lineatus*, *Thamnophilus doliatus*, *Pitangus sulphuratus*, *Psilorhinus morio*, *Thraupis episcopus*, *Saltator coerulescens*, *Volatinia jacarina*, *Sporophila torqueola*, *Sporophila minuta*, *Sicalis luteola*, *Emberizoides herbicola*, *Chondestes grammacus*, *Zonotrichia capensis*, *Piranga flava*, *Pheucticus ludovicianus*, *Passerina caerulea*, *Passerina cyanea*, *Passerina ciris*, *Spiza americana*, *Dolichonyx oryzivorus*, *Agelaius phoeniceus*, *Leistes militaris*, *Xanthocephalus xanthocephalus*, *Dives dives*, *Quiscalus mexicanus*, *Molothrus aeneus*, *Icterus galbula*, *Psarocolius montezuma*, *Passer domesticus* | None | - |
| Monge-Meza (2011) | *Musa* sp. | *Orthogeomys cherriei*, *Orthogeomys heterodus*, *Orthogeomys cavator*, *Orthogeomys underwoodi* | Biological control (Infectious disease, Introduction of predators), Poisoning (Estricnina, Methyl bromide, Metomil, Aluminium phosphate), Hunting (Traps) | Varying |
| Monge-Meza and Orozco (2010) | *Ananas comusus* | *Philander opossum* | None | - |
| Monge-Meza et al. (2014) | *Arachis hypogaea* | *Sigmodon hirsutus* | None | - |
| Naughton-Treves et al. (2003) | Undetermined | *Tapirus terrestris*, *Eira barbara*, *Hydrochoerus hydrochaeris*, *Cuniculus paca*, *Pecari tajacu*, *Dasyprocta variegata* | Hunting | Not quantified |
| Olivera et al. (2016) | *Glycine max* | *Zenaida auriculata*, *Patagioenas maculosa*, *Patagioenas picazuro* | Chemical repellents (Anthraquinone, Methiocarb, Methyl anthranilate) | Not quantified |
| Parra et al. (2012) | *Oryza sativa* | *Holochilus sciureus*, *Zygodontomys brevicauda*, *Sigmodon alstoni*, *Oligoryzomys* sp. | None | - |
| Pedrana et al. (2014) | *Triticum aestivum*, *Avena sativa*, *Hordeum vulgare*, *Secale cereale*, *Glycine max*, *Helianthus annuus*, *Zea mays*, *Sorghum graniferum* | *Chloephaga rubidiceps*, *Chloephaga poliocephala*, *Chloephaga picta* | Hunting | Not quantified |
| Pedrosa et al. (2015) | *Zea mays* | *Sus scrofa* | Hunting | Not quantified |
| Pereira et al. (2019) | *Zea mays*, *Saccharum* sp., *Daucus carota*, *Fragaria* sp., *Cucurbita* sp. | *Sus scrofa* | Hunting | Not quantified |
| Pérez and Bulla (2000) | *Sorghum vulgare* | *Columbina minuta*, *Columbina passerina*, *Columbina talpacoti*, *Columbina squammata* | None | - |
| Pérez and Pacheco (2006) | *Manihot esculenta*, *Colocasia esculenta*, *Xanthosoma* sp., *Zea mays* | *Dasyprocta variegata*, *Pecari tajacu*, *Cuniculus paca*, *Nasua nasua*, *Sapajus apella*,Birds, Muridae | Physical barriers (Wire mesh exclosures) | Effective |
| Pérez and Pacheco (2014) | *Manihot esculenta*, *Xanthosoma* sp., *Zea mays* | *Pecari tajacu*, *Dasyprocta punctata*, *Cuniculus paca*, *Dinomys branickii*, *Nasua nasua*, *Didelphis* sp., *Sciurus* sp., *Sapajus apella*,Rodentia, Birds | Hunting, Agricultural practices (Field clearing), Olfactory deterrents (Human odors), Visual deterrents (Flags), Vigilance (People) | Effective |
| Peyton (1980) | *Zea mays*, *Saccharum officinarum*, *Annona cherimolia*, *Cucurbita moschata*, *Lucuma obovata* | *Tremarctos ornatus* | Vigilance, Agricultural practices (Field clearing), Visual deterrents (Fire), Olfactory deterrents (Burnt rubber), Hunting | Not quantified |
| Poleo et al. (2010) | *Oryza sativa* | *Zygodontomys brevicauda* | None | - |
| Ranvaud et al. (2001) | *Zea mays*, *Oryza* *sativa*, *Triticum* *aestivum*, *Glycine* *max* | *Zenaida auriculata* | None | - |
| Renfrew and Saavedra (2007) | *Oryza sativa*, *Sorghum bicolor*, *Glycine max* | *Dolichonyx oryzivorus* | Acoustic deterrents (Firecrackers, Firearms, Yelling), Visual deterrents (Reflective objects, Smoke), Biological control (Attracting predators), Poisoning | Effective / Not quantified |
| Renfrew et al. (2017) | *Oryza sativa* | *Dolichonyx oryzivorus* | Poisoning | Not quantified |
| Robles et al. (2003) | *Chenopodium quinoa* | *Zenaida auriculata*, *Metriopelia* *ceciliae*, *Leptotila* *verreauxi*, *Spinus* *spinescens*, *Zonotrichia* *capensis* | Visual deterrents (Reflective objects), Acoustic deterrents, Chemical repellents (Bidrim) | Effective |
| Rocha and Fortes (2015) | *Zea mays* | *Sapajus nigritus* | Agricultural practices (Early planting, Crop location), Vigilance (Guard dogs), Acoustic deterrents | Varying |
| Rodriguez and Avery (1996) | *Oryza sativa* | *Chrysomus ruficapillus* | Chemical repellents (Methiocarb), Agricultural practices (Field clearing) | Not quantified |
| Rodriguez et al. (1995) | *Helianthus* sp. | *Zenaida auriculata* | Chemical repellents (Methiocarb), Visual deterrent (Calcium carbonate paint) | Effective |
| Rodriguez et al. (2004) | *Vitis* sp. | *Patagioenas picazuro*, Pitangus sulphuratus, *Turdus* *amaurochalinus*, *Passer* *domesticus*, *Mimus* *saturninus*, *Turdus* *rufiventris*, *Colaptes* *campestris*, *Zenaida* *auriculata*, *Columba* *livia*, *Zonotrichia* *capensis*, *Myiopsitta* *monachus*, *Furnarius* *rufus*, *Penelope* *obscura*, *Tyrannus* *savana*, *Molothrus* *bonariensis* | Hunting (Firearms), Poisoning (Carbofuran), Visual deterrents (Flags, Scarecrows), Acoustic deterrents (Fireworks, Cannons, Distress calls), Chemical repellents (Methiocarb, Anthraquinone) | Effective |
| Romero-Balderas et al. (2006) | *Zea mays* | *Procyon lotor*, *Pecari tajacu*, *Nasua narica*, *Cuniculus paca*, *Sciurus aureogaster*, *Orthogeomys hispidus*, *Peromyscus mexicanus*, *Pionus senilis*, *Dryocopus lineatus*, *Psilorhinus morio* | None | - |
| Rosa et al. (2018) | *Saccharum* sp., *Zea mays*, *Manihot esculenta* | *Sus scrofa* | Hunting (Weapons, Dogs, Traps) | Not quantified |
| Sanchez et al. (2016) | *Helianthus* sp., *Zea mays*, *Triticum* sp., *Avena sativa* | *Cyanoliseus patagonus* | None | - |
| Sanchez-Cordero and Martinez-Meyer (2000) | *Zea mays*, *Saccharum* sp., *Coffea* sp., *Phaseolus* sp., *Oryza sativa*, *Avena sativa*, *Sorghum bicolor*, *Tritichum* sp. | *Sciurus aureogaster*, *Microtus mexicanus*, *Oligoryzomys fulvescens*, *Oryzomys couesi*, *Oryzomys melanotis*, *Peromyscus aztecus*, *Peromyscus leucopus*, *Peromyscus levipes*, *Peromyscus maniculatus*, *Reithrodontomys fulvescens*, *Reithrodontomys megalotis*, *Reithrodontomys mexicanus*, *Reithrodontomys sumichrasti*, *Sigmodon hispidus*, *Orthogeomys hispidus*, *Pappogeomys merriami*, *Thomomys umbrinus* | None | - |
| Santos (2018) | *Oryza sativa* | *Holochilus sciureus* | Hunting (Dogs) | Not quantified |
| Saucedo et al. (2010) | *Sorghum bicolor* | *Passer domesticus*, *Lonchura* *malacca*, *Lonchura* *punctulata*, *Dives* *atroviolaceus*, *Passerina* *cyanea*, *Zonotrichia* *leucophrys*, *Columbina* *passerina*, *Zenaida* *macroura*, *Zenaida* *asiatica* | None | - |
| Silva-Andrade et al. (2016) | *Phaseolus vulgaris*, *Zea mays*, *Manihot esculenta*, Fruits | *Passer domesticus* | Hunting (Firearms), Poisoning, Biological control (Predators) | Not quantified |
| Silva-Rodríguez et al. (2006) | Undetermined | *Curaeus curaeus*, *Diuca diuca*, *Larus maculipennis*, *Molothrus bonariensis*, *Patagioenas araucana*, *Phytotoma rara*, *Leistes loyca*, *Turdus falcklandii*, *Zenaida auriculata* | None | - |
| Spagnoletti et al. (2017) | *Zea mays*, *Oryza* sp., *Phaseolus sp.*, *Manihot esculenta*, *Musa* sp., *Mangifera indica*, *Citrullus lanatu*, *Ananas comosus*, *Carica papaya* | *Sapajus libidinosus*, *Brotogeris chiriri*, *Gnorimopsar chopi*, *Melanerpes candidus*, *Eupsittula aurea* | Vigilance (People, Guard dogs), Acoustic deterrents (Yelling, Firearms), Visual deterrents (Scarecrows, Fire), Agricultural practices (Early planting) | Effective |
| Trivedi et al. (2004) | *Bertholletia excelsa* | *Ara* sp. | None | - |
| Valencia (1980) | *Cocos nucifera* | *Rattus rattus* | Poisoning (Pyriminil, Coumarin and Diphacinone), Agricultural practices (Field clearing), Physical barriers (Metal bands) | Varying |
| Valencia et al. (1994) | *Oryza* sp., *Cocos* sp., *Elaeis* sp., *Zea* sp., *Sorghum* sp. | *Rattus rattus*, *Holochilus* *brasiliensis*, *Sigmodon* *hispidus*, *Zygodontomys* *brevicauda* | None | - |
| Villa et al. (1998) | *Saccharum* sp. | *Sigmodon hispidus*, *Oryzomys* *couesi*, *Handleyomys* *chapmani* | None | - |
| Villafana-Martin et al. (1999) | *Cucumis sativus*, *Ipomoea batata*, *Ananas camusus* | *Sigmodon hispidus* | Poisoning (Biorat) | Effective |
| del Villar-González (2000) | *Zea* sp., *Phaseolus* sp., *Saccharum* sp., *Triticum* sp., *Medicago* sp., *Cicer* sp., *Cocos* sp., *Capsicum* sp., *Citrullus* sp., *Cucumis* sp., *Malus* sp., *Cucurbita* sp., *Brassica* sp., *Avena* sp., *Opuntia* sp., *Sorghum* sp., *Oryza* sp., *Pachyrhizus* sp., *Mangifera* sp., *Solanum* sp., *Allium* sp., *Carya* sp., *Citrus* sp., *Fragaria* sp. | *Sigmodon hispidus*, *Mus musculus*, *Peromyscus leucopus*, *Rattus norvegicus*, *Rattus rattus*, *Peromyscus difficilis*, *Peromyscus boylii*, *Liomys irroratus*, *Reithrodontomys megalotis*, *Oryzomys couesi*, *Microtus mexicanus*, *Pappogeomys merriami*, *Cratogeomys fumosus*, *Notocitellus adocetus*, *Otospermophilus variegatus*, *Sciurus* sp., *Lepus* sp., *Corvus cryptoleucus*, *Molothrus aeneus*, *Agelaius phoeniceus*, *Quiscalus mexicanus*, *Patagioenas flavirostriss*, *Zenaida asiatica*, *Toxostoma curvirostre*, *Passerina caerulea*, *Sporophila torqueola*, *Chondestes grammacus*, *Carpodacus mexicanus*, *Spinus psaltria*, *Xanthocephalus xanthocephalus*, *Molothrus ater*, *Icterus pectoralis*, *Passer domesticus*, *Colinus virginianus*, *Philortyx fasciatus*, *Zenaida macroura*, *Columbina inca*, *Columbina passerina*, *Eupsittula nana*, *Amazona* sp. | Poisoning (Zinc phosphide, Aluminum phosphate, Thiodicarb, Organophosphates), Hunting (Traps, Firearms), Acustic deterrents (Fireworks, Canons), Visual deterrents (Scarecrows) | Not effective |
| Waters (2015) | *Phaseolus* sp., *Zea* *mays*, *Musa* sp., *Brassica oleracea*, *Ananas comosus*, *Solanum tuberosum*, *Citrullus lanatus*, *Dioscorea alata* | *Tapirus bairdii*, *Nasua narica*, *Procyon lotor*, *Tayassu* sp. | Hunting | Not quantified |

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