Position Statement of the IUCN SSC Iguana Specialist Group on Non-Native Invasive Iguanas

The purpose of this Position Statement is to highlight the pest status that non-native iguanas can attain when introduced to tropical and sub-tropical regions outside their native range, and to emphasize the devastating environmental and economic impacts they can cause.

Common Green Iguanas (*Iguana iguana*) and, more recently, Spiny-tailed Iguanas (*Ctenosaura similis* and *C. pectinata*) (Fig. 1) have been moved around the world, primarily for the pet trade and for food. The intentional and accidental release of iguanas has led to the establishment of uncontrolled invasive populations in over 20 countries, with islands being most vulnerable (Table 1). To date, no country has been able to eradicate these species once a breeding population has become established.

Invasive iguanas can exhibit rapid population growth and reach uncontrollable densities. On the small island of Grand Cayman, Green Iguanas have increased from a few individuals to hundreds-of-thousands within a decade. Invasive iguanas are causing multimillion-dollar impacts on infrastructure, agriculture, tourism, long-term food security, and biodiversity. For example, invasive Green Iguanas are a known airport safety hazard in Florida, Puerto Rico, and The Bahamas. They are also known to short-circuit power lines in cities, and their burrows have caused road collapses and coastal erosion (Fig. 2). Invasive iguanas can cause severe agricultural damage and defoliate native and ornamental plants (Fig. 3). Spiny-tailed Iguanas are a proven nuisance in Florida, causing extensive damage to homes and landscaping. Where native and non-native iguanas coexist, survival of the native species is threatened through competition for food and space. In addition, cross-breeding with invasive Green Iguanas is now the main threat to the survival of Lesser Antillean Iguanas (*Iguana delicatissima*), has been documented in Rock Iguanas, and may threaten other native Green Iguana populations.

We therefore make the following recommendations, which apply to all countries with tropical or subtropical regions, and especially islands:

For all countries: Implement education and public awareness programs.

For countries (or islands) where non-native iguanas are not present: Develop and enforce country-specific regulations to ban importation and prevent the accidental introduction of non-native iguanas.

For countries (or islands) where non-native iguanas are present in captivity, but have not been detected in the wild: Implement programs focused on responsible pet ownership, encourage pet sterilization, ban the release of iguanas into the wild, and provide an approved facility for unwanted captive iguanas.

For countries (or islands) where non-native iguanas have been detected in the wild: Immediately implement well-coordinated and resourced action plans to humanely remove all non-native iguanas (see AVMA guidelines: https://www.avma.org/KB/Policies/Pages/Euthanasia-Guidelines.aspx). If eradication is unsuccessful, maintain continual management actions to control population growth and prevent further expansion.

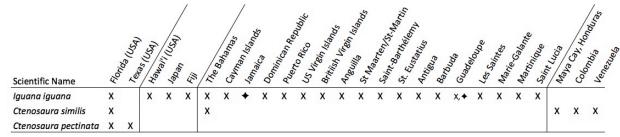


Table 1. Countries and regions where Common Green Iguanas, Common Spiny-tailed, and Guerreran Spiny-tailed Iguanas have been introduced and uncontrolled wild populations have established. ◆ denotes multiple wild sightings; establishment as yet unknown.







Figure 1. Female and male Common Green Iguanas, *Iguana iguana*; photographed by Rafael Joglar (left). Male Common Spiny-tailed Iguana, *Ctenosaura similis*; photographed by Joe Wasilewski (middle). Male Guerreran Spiny-tailed Iguana, *Ctenosaura pectinata*; photographed by John Binns. Coloration varies among individuals.



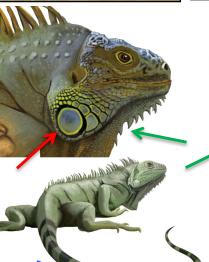


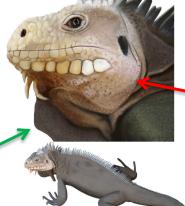
Figure 2. Damage to road infrastructure caused by Common Green Iguana nesting in Puerto Rico: erosion (left) and collapse (above). Photographed by Carlos A. Rodríguez Gómez.





Figure 3. Red Mangrove (*Rhizophora mangle*) mortality caused by Green Iguana damage to leaves, branches, and trunk. Mangrove patch at the onset of iguana herbivory (left) and 12 months after first sign of herbivory showing nearly 100% mangrove mortality (right). Photographed by Alberto López Torres.







Green Iguanas (left) have a large cheek scale under the ear, small spines extending down the front of the dewlap, and a banded tail. Lesser Antillean Iguanas (middle) and Rock Iguanas (right) do not have these features.



