2018

Annual Report on Conservation and Science





2018 Annual Report on Conservation and Science

The Association of Zoos and Aquariums and its member facilities envision a world where, as a result of their work, all people respect, value, and conserve wildlife and wild places.

The 2018 Annual Report on Conservation and Science (ARCS) celebrates the conservation efforts, education programs, green (sustainable) business practices, and research projects of AZA-accredited zoos and aquariums and certified related facilities.

Content in ARCS reflects submissions made to annual surveys available through AZA's website. Each survey topic has been carefully defined to maximize consistency of reporting throughout the AZA community. AZA's Wildlife Conservation Committee and Research and Technology Committee review all of the relevant submissions by members to promote even greater consistency.

Field conservation focuses on efforts having a direct impact on animals and habitats in the wild. Education programming includes those with specific goals and delivery methods, defined content, and a clear primary discipline and target audience. Mission-focused research projects involve application of the scientific method, are hypothesis (or question)-driven, involve systematic data collection, and analysis of those data and draw conclusions from the research process. Green business practices focus on the annual documentation and usage of key resources: energy, fuel for transportation, waste, and water – as well as identification of specific green practices being implemented.

AZA is grateful to each member that responded to these surveys. The response rate for each 2018 survey was as follows:

- » field conservation 92%
- » education programming 59%
- » green business practices 65%
- » mission-focused research 65%

While the 2018 ARCS focuses on individual activities undertaken that year, download the 2018 *Highlights* (available at: aza.org/annual-report-on-conservation-and-science) to learn more about what the AZA community accomplished together.

This report was compiled by Jordyn Chace (Program Assistant, Conservation and Science), Cyrena Tate (Intern, Conservation, Management and Welfare Sciences), and Shelly Grow (Vice President, Conservation and Science).

INTERNATIONAL

Argentina

FUNDACIÓN TEMAIKÈN

Education

Ambassador Animals

Conservation of Biodiversity Through Ecotourism in Osununu Natural Reserve Project

Content Development and Processing

Educational Internship Program

Educational Visits

Educational Visits for People With Disabilities

Environmental Education Program ConCiencia Activa

Environmental Multipliers Educational Program - "Multiplicadores Ambientales"

Festival "We Are Diversity"

Internship Program at the Veterinarian Hospital

Keepers Talks to Visitors

Long-Distance Education Course: Environmental Education in Rural Settings

Micro Website of the Education Department: "Comunidad Activa"

Nature Play Program in the Biopark

Professional Skills Practicum in Tourism Technical Course

Project of Articulation Between Fundación Temaikèn and Instituto Superior de Formación Docente y Técnica N° 55 in Escobar

University Courses Taught: Agreement With Universidad de Belgrano

Volunteer Programs

Field Conservation

Conservation of Osununu Natural Reserve Project

Flora and Ecosystems Inventory

Research Project in Magellanic Penguin (*Spheniscus* magellanicus)

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Community-Based Sustainability Projects

Completed Greenhouse Gas Inventory

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Recycled

Research

Habitat Use of Broadnose Sevengill Sharks (*Notorynchus* cepedianus) in the Argentine Sea

Resolution of Complex Cognitive Tasks and Use of Tools in Plush-Crested Jays (*Cyanocorax chrysops* (Corvidae)

Study and Conservation of Bat Diversity in el Área Importante para la Conservación (AICOM) Osununú – Teyú Cuaré

Bahamas

ATLANTIS, PARADISE ISLAND

Education

Atlantis Stingray Experience

Discovery Tour

Dolphin Deep Water Swim

Dolphin Shallow Water Swim

Jr. Ultimate Trainer for a Day

On-Grounds School Behind-the-Scenes Programs

Rise and Shine

School Aquarium Outreach Program

Sea Lion Interaction

Sea Squirts

Serenity Snorkel

Snorkel the Ruins of Atlantis

Sunrise Fitness

Ultimate Trainer for Day

Field Conservation

Bahamas Marine Mammal Research Organization (BMMRO)

- Stranding Response to Support Marine Mammals in the
Bahamas and Marine Mammal Research

Bahamian Coral Reefs: Taking Action to Protect Reefs
Through Education and Action

Manatee Health Assessment

Providing the Scientific Basis for a Marine Protected Area Designation and Reef Rehabilitation in the Bahamas

Tour de Turtles

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Graywater Reuse and/or Rainwater Harvesting

Green Purchasing Policy/Green Procurement

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WATER

Documented Amount Spent

Documented Amount Used

Bermuda

BERMUDA AQUARIUM, MUSEUM AND ZOO

Field Conservation

Bermuda Amphibian Project

Bermuda Aquarium, Museum, and Zoo (BAMZ) - Internship Programme

Bermuda Aquarium, Museum, and Zoo (BAMZ)/Bermuda Zoological Society (BZS) - Research Grants and Support

Bermuda Marine Moorings Initiative

Bermuda Turtle Project

Characterising Bermuda's Baitfish Populations to Improve Management and Fishery Sustainability

Marine Invasive Species in Bermuda

Marine Wildlife Rescue and Rehabilitation

Sargassum Community Studies

Canada

Alberta

CALGARY ZOO

Field Conservation

Black-Tailed Prairie Dog and Black-Footed Ferret Conservation Research

Burrowing Owl Headstarting

Community-Based Conservation of Lemurs in Madagascar

Community-Based Conservation of Mountain Bongo in Kenya

Community-Based Conservation of Western Sitatunga and Hippos in Ghana

Fisher Wild-to-Wild Translocations

Greater Sage Grouse: Reintroduction Breeding and Research

IUCN/SSC Reintroduction Specialist - Group Training for Effective Conservation Translocations

Northern Leopard Frog Reintroduction Breeding and Research in Western Canada

Swift Fox Recovery

Vancouver Island Marmot Reintroduction Breeding

Whooping Crane Reintroduction Breeding and Research

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

Certified by the Green Restaurant Association

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Alternative Transportation Discounts for Guests

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Completed Greenhouse Gas Inventory

Composting (On-Site or Off-Site)

Denitrification Systems On Ground

Diverted or Recycled Construction Waste

Energy Submetering

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Purchased Green Power or Renewable Energy Credits (RECs)

Smart Building Strategies

Stormwater Management Program

Wastewater Reduction

Water Submetering

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Research

Evaluating Community Conservation Success

Fisher Wild-to-Wild Translocations

Vancouver Island Marmot Anti-Predator Behaviour Research

British Columbia

VANCOUVER AQUARIUM MARINE SCIENCE CENTRE

Field Conservation

A DNA-Based Monitoring Approach for Nearshore Benthic

Agarum Monitoring

Annapolis Biodiversity Index Survey

Assessing Glass Sponge Reef Dynamics and Habitat Complexity Using 3D Structure From Motion

Assessing Hormone Concentrations in Killer Whale Fecal Samples

Assessing the Nutritional Status of Killer Whales Using Unmanned Aerial Platforms

Biodiversity Monitoring

British Columbia Cetacean Sightings Network

British Columbia Northern Leopard Frog Recovery Project

Cetacean Conservation Genetics

Churchill Beluga Research Project

Field Study of Demography, Population Status, and Natural History of British Columbian and Alaskan Killer Whales

Frog Conservation and Disease

Fur Seal and Sea Lion Projects

Health and Disease of Killer Whales

Humpback Whale Health Assessment Based on Photogrammetry and Blow Samples

Kelp Bed and Rocky Reef Monitoring

Marine Conservation Assessment Map

Marine Mammal Rescue Centre

Monitor Glass Sponge Reefs

Monitor Lingcod Spawn Demography

North Coast Cetacean Research Project

Oregon Spotted Frog Recovery Project

Panamanian Golden Frogs

Pond Inlet Narwhal Project

Recovery of Rockfish in Rockfish Conservation Areas

Rockfish Habitat Use and Connectivity

Rockfish Winter Hiding

Sculpting Rockfish Habitat in Howe Sound

Sea Otter Nutrition

St. Lawrence Beluga Research Project

Walrus Energetics and Physiology

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Purchased Renewable Energy

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified Under ISO 14001

One or More Buildings LEED-Certified by the US Green Building Council

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Community Supported Agriculture (CSA) Program for Staff

Completed Greenhouse Gas Inventory

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Smart Building Strategies

Used Environmental Management System

Wastewater Reduction

Waterwise Landscaping

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

Research

Cetacean Novel Clinical Techniques

Contaminant Related Health Risks in Southern Resident Killer Whales

Fish Disease Case Reports

Frog Conservation and Disease

Harbour Seal Post-Release Monitoring

Health of the Western Arctic Beluga Whales as it Relates to Contaminants and Climate Change

Marine Mammal Health and Physiology

Microplastics in the Ocean

Pinniped Anesthesia

PollutionTracker - Contaminant Monitoring the British Columbia Coastal Environment

Sea Lion Darting and Disentanglement Project

Manitoba

ASSINIBOINE PARK ZOO

Field Conservation

Bird Strike Mitigation

Chimney Swift Chimney Installation

Grassland Skipper Conservation and Headstarting Program

International Polar Bear Day

Manitoba Burrowing Owl Recovery Program

MonarchHealth - Ophryocystis elektroscirrha (OE) Testing

Red Panda Network (RPN)

Snow Leopard Trust (SLT) - Fundraising

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Community Solar Program

Completed Greenhouse Gas Inventory

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Energy Submetering

Generated Solar or Wind Energy

Green Building Policy/Commitment

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Purchased Carbon Offset(s) for On-Site Utility Use

Water Submetering

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

Research

Abundance Estimates, Haul Out Patterns and Natural History of Harbour Seals (*Phoca vitulina*) in the Churchill River Estuary

Abundance Estimates, Haul Out Patterns, and Natural History of Ringed Seals Near Churchill

Assessing the Timing and Rate of Fur Growth in Zoo Polar Bears

Beluga Bits

Fecal Glucocorticoid Metabolite Concentrations in Orphaned Polar Bear "Cubs of the Year" Brought Into Captivity From Northern Manitoba to Assiniboine Park Zoo Through the LIPBCC

Implementation of an Environmental Enrichment Program to Reduce Over-Grooming and Pacing in Captive Red Pandas (Ailurus fulgens)

Inbreeding and Relatedness Analysis of Burrowing Owls in Captive Rearing Programs in Canada Using PCR Multiplexing

Novel Applications of Thermal Imaging Technology to Assess *Ursus maritimus* (Polar Bear) Social Play Behaviour

Other Ground Squirrel Projects

Polar Bear Behaviour During Transition

Polar Bear Denning in Canada

Polar Bear Hormone Monitoring

Recording of Animal Vocalizations

Ringed Seal (*Pusa hispida*) Trends in Abundance Inferred From Genetics

Testing Detectability Assumptions of Trail Cameras on Polar Bears

Whiskerprints

Ontario

RIPLEY'S AQUARIUM OF CANADA

Education

Aquarist for a Day

Aquatic Adventurers

Behind the Scenes Tours

Discovery Dive

Dive Show-Rainbow Reef

Dive Show-Ray Bay

Kelp Kart

Ocean Explorers Club

School Program: Amazing Algae and Other Aquatic Plants

(Grade 3)

School Program: Aquarium Careers (Grade 11/12)

School Program: Creatures Undercover (Grade 2)

School Program: Deep Sea Diver (Grade 5)
School Program: Lake Invaders (Grade 6)

School Program: My Own Aquarium (Grade 1)

School Program: Pollution Solution (Grade 5 & 7)

School Program: Sensational Sharks (Kindergarten)

School Program: Squid Dissection (Grade 10) - Formerly

Climate in Crisis

School Program: Stream Science (Grade 9)

School Program: Watery Web (Grade 4)

School Program: What's in the Water (Grade 8)

Sea Squirts

Sleepover (Sleep With the Sharks)

Stingray Experience

Summer and March Break Camps

Tank Talk

Field Conservation

Great Canadian Shoreline Clean Up

Green Practices

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Commingled Recycling

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Graywater Reuse and/or Rainwater Harvesting

Research

Invasive Lionfish Eradication Research

TORONTO ZOO

Education

Animal Behaviour

Animal Observation Research - Biodiversity and Adaptive Strategies

Animal Observation Research - Methods Comparison

Animal Observations Research - Student Lab on Primate Behaviour

Avian Endoscopy Training for Clinical Veterinarians (Pedagogical Study)

Specimen Request - Native Ontario Turtle Species

Venomous Staff Training (Pedagogical)

Venomous Training: Canadian Armed Forces & Toronto Animal Services (Pedagogical)

Field Conservation

Amphibian Rescue Centre (ARC) - Husbandry and Reintroduction Program for the Oregon Spotted Frog

Amphibian Rescue Centre (ARC) - Husbandry and Reintroduction Program for the Wyoming Toad

Aqua - Links

Atlantic Salmon Reintroduction Program

AZA FrogWatch USA

Black-Footed Ferret Conservation Recovery Program

Blanding's Turtle Headstart Project

Eastern Loggerhead Shrike Captive Breeding Program

Eastern Milksnake Monitoring

First Nations Way of Knowing

Freshwater Mussels Field Program

Great Lakes Program

Great Lakes: Redside Dace - Conservation and Community Involvement

Habitat Use and Nesting Patterns of Turtles in Rouge Park

Management, Outreach, Husbandry, and Reintroduction Program for the Puerto Rican Crested Toad Mudpuppy Conservation and Citizen Science: A Partnership Project Among Zoos and Aquariums in the Great Lakes Basin

Ontario Turtle Tally

Turtle Island Conservation

Vancouver Island Marmot Conservation Recovery Program

Wildlife Health Centre Husbandry and Reintroduction Program for the Mississippi Gopher Frog

Wood Turtle Headstarting

Working Together to Save the Eastern Massasauga Rattlesnake

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

Purchased Renewable Energy

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Community Supported Agriculture (CSA) Program for Staff

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Energy Submetering

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Green IT

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Purchased Green Power or Renewable Energy Credits (RECs)

Smart Building Strategies

Used Enterprise (IT) Solutions to Track and Measure Sustainability Performance

Used Environmental Management System

Water Submetering

Waterwise Landscaping

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

Research

Animal Observation Research - Remote Detection of Breathing Patterns as an Indication to Intention for Vocal Production

Animal Observation Research - The Effects of Extra Forage/ Browse on the Incidence of Stereotypic Tongue-Rolling in Giraffes

Animal Observations Research - An Analysis on the Daily Activity Budget of White-Handed Gibbons

Animal Observations Research – Behaviour of African Penguins in Captive Environments

Animal Observations Research - Effects of Carcass Feeding on Tiger Behaviour

Animal Observations Research - Mapping the Enclosure Use, Behaviours, and Interactions of Captive Western Lowland Gorillas in Reference to Visitor Size Wing Geographic Information Systems (GIS) Animal Observations Research - Thermoregulatory Behaviour in Komodo Dragon

Aspects of Inhalation Anesthesia and the Use of Midazolam in the Ball Python

Assessing the Nutritional Status of Free-Ranging and Human Managed Populations of Black-Footed Ferrets

Assessing the Potential for Visual and Behavioural Cues of Reproductive Ability in Golden Lion Tamarins

Assessment of Physiological Parameters During Anesthesia in Przewalski's Horses (*Equus przewalskii*)

Assisted Reproductive Technologies as a Method of Embryo Production in Wood Bison

Developing Assisted Reproductive Techniques for the Vancouver Island Marmot

Do Orangutans Choose to Choose?

Exploring the Impacts of Diet Change on Gut Microbial Communities in the Relocation Context of Captive-Born Animals

Gut Microbial Communities of the Vancouver Island Marmot in Captivity and in the Wild

Infrared Thermography as a Non-invasive Tool to Quantify
Acute Stress Responsiveness in Birds

Physiological Correlates of Fitness in Wild and Captive-Reared Eastern Loggerhead Shrikes

Specimen Request - all Mammalian Species

Specimen Request - All Primates

Specimen Request - Arctic Wolf feces

Specimen Request - Bactrian Camel

Specimen Request - Cervids

Specimen Request - Elephant

Specimen Request - Elk, Large North American Mammals

Specimen Request - Flamingo

Specimen Request - Grizzly Bear

Specimen Request - Hyena

Specimen Request - Kangaroo

Specimen Request - Loggerhead Shrikes

Specimen Request - Mudpuppy, Giant Salamander, and Lungfish

Specimen Request - Nile Monitor (*Varanus niloticus*), Black Tree Monitor (*Varanus beccarii*), and Komodo Dragon (*Varanus komodoensis*)

Specimen Request - Orangutans

Specimen Request - Spotted Hyena

Specimen Request - Tumour Tissue

Specimen request - Various

Specimen Request - White Rhino

Studies on the Behaviour and Physiology of Polar Bears Under Human Care

The Suitability of Willow Trees as Animal Forage and Their Application in Zoological Institutions

Validation of the Body Condition Assessment of Polar Bears With a High Body Condition Score

Quebec

ZOO DE GRANBY

Field Conservation

Assessing the Occurrence of Northern and Southern Flying Squirrels in the Montérégie and Estrie Regions of Canada

AZA Conservation Grants Fund (CGF)

Bats Recovery Plan in Quebec

Belize Jaguar Project

Conservation and Enhancement of Habitats and Endangered Species in Boises Miner, Granby, Quebec, Canada

Conservation of Red Pandas

Fauna and Flora Characterisation and Enhancement at Saint-Quentin Island. Trois-Rivières

International Elephant Foundation (IEF) - African Elephant Conservation

International Rhino Foundation

Protection of Biodiversity, Anti-Poaching, and Conservation of Gorillas and Elephants in Campo-Ma'an National Park in Cameroon

Protection of the Chimney Swift's Nesting Habitats and Study of Migration Patterns

Sharks Conservation in the St. Laurence River and in the North of Quebec

Snow Leopard Trust (SLT) - Snow Leopard Conservation in Asia

Spiny Softshelled Turtle Recovery in Québec

Union québécoise de réhabilitation des oiseaux de proie

Wild CATS - (ALTA) - Amur Leopard Conservation in Russia

Green Practices

GREEN PRACTICES IMPLEMENTED

Building Energy Management

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

Specified a Portion of the Amount Saved for Next Year's Green Practices

Research

Alopecia in Japanese Macaques

Behavioural Impact of Human Presence on Mammal Mesopredators in Protected Areas of Québec

Comparative Health Assessment of Atlantic Wolffish (*Anarhichas lupus*) in the Wild and in Captivity

Determination of the Pharmacokinetics of a Single Oral Dose of Trazodone and its Effect on the Activity Level

Feasibility and Cost-Effectiveness Analysis of Reintroduction Programs for Mammalian Species at Zoo de Granby

Monitoring Beluga Whales in the Mackenzie Delta, NWT, to Learn More About the Beaufort Sea Beluga Whale Population

Pharmacokinetics Study of Selamectin Administered to Rainbow Lorikeets (*Trichoglossus haematodus*) Infected by Nematodes

Presence and Impact of Noise in the Zoo Environment on Behavior and Welfare

Using DNA Metabarcoding to Identify Endangered Animals
Used in Steeped Alcohol

Colombia

ZOOLÓGICO DE CALI

Field Conservation

Abundance Estimate of a New Population of Golden Poison Dart Frog *Phyllobates terribilis* (Anura:Dendrobatidae) in the Joaquincito Indigenous Village, Puerto Merizalde, Buenaventura

Amphibian Conservation Strategy in Colombia

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Composting (On-Site or Off-Site)

Generated Solar or Wind Energy

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Hong Kong

OCEAN PARK CORPORATION

Education

Animal Encounter Programme

Animal Feeding Programme

Animal Keeper Programmes

Big Feet Small Feet Union

Chinese White Dolphin Boat Trip

Corporate Training Programme

Don't Feed Wild Animal Programme

ECF Ecology and Conservation 101: Grooming the Next Great Ecologist

Grand Aquarium Scuba Diving/Exploration

Habitat Walk & Talk

Juvenile Horseshoe Crab Rearing Programme

Nighttime in the Ocean's Depths

No Straw Campaign

Plankton Education Programmes (Kindergarten)

Seasonal Camps

The 23rd Ocean Park Conservation Day

University Student Sponsorship Programme

Young Explorers Club Programme (Regular Programme)

Young Explorers Club Programme (Weekend Discovery Fun Day)

Field Conservation

Activity Pattern and Habitat Utilisation of Yangtze Finless Porpoise in Zhenjiang Nature Reserve, Hubei

Amphibian Conservation on the Roof of Indochina

An Assessment of Gene Flow, Genetic Connectivity, and Evolution Throughout Southeast Asia and the Coral Triangle to Promote Informed Marine Conservation Planning and Management

Assessment of Characteristics and Distribution of Human-Induced Underwater Noise in Chinese White Dolphin Habitats, Pearl River Estuary

Building Capacity to Ensure Sustainable Management Frameworks and Practices that Conserve the Critically Endangered Bengal Florican, the Endangered Black-Faced Spoonbill, Greater Adjutant, and More

Catalysing Community-Led Marine Conservation in Sulawesi

- Cetacean Health and Stranding Response Program: A One Health Initiative in the Philippines
- Cloud Platform Setup for Public Education on Aquatic Wildlife
- Combining Alternative Livelihood Training and Environmental Education to the Community in Motianling Nature Reserve
- Community-led Seahorse Conservation in Southwest Cambodia
- Competition Stress from Exotic Sturgeon Species on Wild Population of Chinese Sturgeon in the Yangtze River Estuary
- Confirmation of Additional Individuals of *Rafetus swinhoei* in the Wild and Sexing the Dong Mo Turtle in Vietnam
- Conservation Genomic Inquiry to Save the Critically Endangered Rufous-Fronted Laughingthrush From the Brink of Extinction
- Conservation Genomics of the Critically Endangered Golden Coin Turtle (*Cuora trifasciata*) and Application to *Ex-Situ* Breeding and Wildlife DNA Forensics
- Conservation of the Endangered Hog Deer (Axis porcinus) in Northeast India
- Developing a Rehabilitation Centre for Sunda Pangolin (Manis javanica) in North Sumatra
- Development of a Forensic Toolkit to Aid in the Conservation and the Prevention of Illegal Trade of the Critically Endangered Helmeted Hornbill
- Distribution and Threatened Status Re-Evaluation of Sinocyclocheilus microphthalmus: a Cavefish Endangered and Endemic to China
- Diurnal Pattern of Habitat Use vs. Anthropogenic Noise in Core Areas of Chinese White Dolphins (*Sousa chinensis*) and Finless Porpoises (*Neophocaena phocaenoides*) in Hong Kong Waters
- Ecological Studies on Cetaceans With a Focus on the Irrawaddy Dolphin (*Orcaella brevirostris*) Around Penang Island
- Environmental Pollution in Pearl River Estuary and the Health of Chinese White Dolphin
- Forming a Scientific Foundation for Coral Reef Restoration and Resilience in Hong Kong
- Identification of Key Protection Area for Snow Leopards in Sanjiangyuan Under Climate Change
- Impact of Climate Change on the Habitat Connectivity and Morphological Traits of *Rana boulengeri*
- Informed Landscape Conservation: A Multi-Species Study
 Evaluating the Impacts of Habitat Fragmentation and
 Quality on Ranging Patterns of Threatened Wildlife in the
 Lower Kinabatangan Wildlife Sanctuary

- Initiation Work for Conservation of Yellow-Breasted Bunting (Emberiza aureola)
- Investigation of Big-Head Schizothoracin Resources and Habitat in Xinjiang Tarim River
- Local Community Collaboration for the Successful Conservation of the Bali Starling
- Monitoring and Welfare Assessment of Captive Yangtze Finless Porpoise Pregnancy and Postnatal Care
- Population Distribution and Feeding Ecology of Finless Porpoise in Liaodong Bay and Northern Yellow Sea
- Population, Habitats, and Conservation of the Critical Endangered Vietnamese Giant Land Snail (*Bertia cambojiensis*): Research and Local Capacity Building
- Prediction on Population Abundance, Spatio-Temporal Distribution, and Optimal Habitat of Yangtze Finless Porpoise in Nanjing
- Research and Action to Advance Conservation of Taimen
- Research on Leishan Spiny Toad Habitat Selection for Reproduction
- Research on Mechanical Effects of Large-Scale Reclamation Projects on Habitat Use of Chinese White Dolphin
- Right from the Start: Guiding the Philippines as it Works Towards Implementing CITES for Vulnerable Seahorses
- Risk Assessment and Countermeasures on Fish Bait Disease of Yangtze Finless Porpoise in Swan Island Cetacea Protected Area, Hunan
- Safeguarding Endangered Turtle Populations in Hong Kong
- Some Like It Hot But How About Critically Endangered Gharials (*Gavialis gangeticus*)?: Assessing the Impact of Climate Change on Nesting and Reproduction of Gharials in Chitwan National Park, Nepal
- Standardisation of Patrol and Monitoring in Nature Reserves in Gansu
- Study on Sustainable Grazing and Management Policy of Giant Panda's Habitat
- Summarizing Experience and Promotion of Yangtze Finless Porpoise Wild Population Recovery in Dongting Lake
- Systematic Surveys for Annamite Endemic Mammals in Pu Mat National Park
- Understanding Impacts of Climate Change on At-Sea Populations of Green Sea Turtles (*Chelonia mydas*) in Malaysia and the Philippines
- Wildlife Monitoring Project in Taibai Niuweihe Provincial Nature Reserve, Shaanxi

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Commingled Recycling

Completed Greenhouse Gas Inventory

Energy Submetering

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Wastewater Reduction

Water Submetering

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

Research

Altruistic Food Sharing in Indo-Pacific Bottlenose Dolphins (*Tursiops aduncus*)

Biosonar Research

Development of Pregnancy Diagnosis Method and Characterization of Fetal Growth in Yangtze Finless Porpoises

Genetic Barcoding of Jellyfish

Parentage Determination of Dabry's Sturgeon (*Acipenser dabryanus*) Based on Novel Microsatellite DNA Markets Using Next-Generation Sequencing

Pathogen Diagnosis and Surveillance and Research in Ocean Park Animals

Study of Cooperative Behaviour of the Indo-Pacific Bottlenose Dolphins (*Tursiops aduncus*) in Ocean Park Hong Kong Using Cognitive Enrichment Items

Study on the Physiology Changes of Cultured Adult Chinese Sturgeon (*Acipenser sinensis*) During Seawater Adaptation

The Pre-Partum Reproductive Hormonal Profile and Development of Mother-Calf Relationship in Captive Yangtze Finless Porpoise

Training Workshop in Quantitative Spatial Ecology, Movement, and Habitat Utilization Analyses

Twelve Years Later: Outcomes, Enforcement Challenges, and Novel Solutions Following the CITES Appendix II Listing of the Humphead Wrasse (*Cheilinus undulates* (Napoleon))

VaquitaCPR Ex-Situ Workshop – Lessons Learned Saving Animals From Extinction

Yellow-Bibbed Lory Research Project

Mexico

AFRICAM SAFARI PARK

Education

Amazing Environments: Desert, Forest, and Jungle

Animal Encounter

Biodiversity: Natural Heritage of Everyone

Eco-Systems

Educational Shows

Educational Workshops

Endangered Animals

Extinction: Animals and Plants Disappear

From Day to Night in Nature

Fur, Feathers, Scales, and Leaves

Intellectual Disability Inclusion Program (Naturally Special)

Interpretative Guide Program

Life Cycle

Mexico's Biodiversity

Mobile Zoo

Move for the Environment

Our Impact on Biodiversity

Our Mission: Saving Ecosystems!

Premium Animal Services

Premium Nocturnal Safari

The Animals... in my House or in the Woods?

The Weather Changes? Better I!

Visually Impaired Program

Warning! Danger of Extinction

Working With Rural Communities

Field Conservation

California Sea Lion Health Assessment

Caribbean Flamingo Conservation Program

Crested Toad Recovery Plan

Golden Eagle Conservation Program

Horned Guan Conservation Program

Masked Bobwhite Quail Recovery Program

Mexican Primates Conservation Program

Socorro Dove Reintroduction Program

Taylor's Salamander Conservation Project

Green Practices

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Alternative Transportation Benefits for Staff

Alternative Transportation Discounts for Guests

Building Energy Management

Commingled Recycling

Community Supported Agriculture (CSA) Program for Staff

Community-Based Sustainability Projects

Completed Greenhouse Gas Inventory

Composting (On-Site or Off-Site)

Denitrification Systems On Ground

Energy Submetering

Generated Energy through Anaerobic Digester

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Smart Building Strategies

Stormwater Management Program

Used Enterprise (IT) Solutions to Track and Measure

Sustainability Performance

Wastewater Reduction

Water Submetering

Waterwise Landscaping

UNITED STATES

Alabama

BIRMINGHAM ZOO

Education

Discovery Programs

Preschool at the Zoo

Field Conservation

Chipangali Large Carnivore Project: Zimbabwe

Conservation Initiative of Fishing Cats in Human Dominated Landscape of Bara District, Nepal

Dian Fossey Gorilla Fund International

Eastern Indigo Snake Reintroduction Project

Giraffe Conservation Foundation (GCF)

International Elephant Foundation

Local Bat Conservation

Measuring the Effects of Human Disturbance on Jaguars in Southern Belize (PiCA grant)

Rainforest Rescue - Save the Cassowary

Tarangire Elephant Project

Turtle Survival Alliance

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Building Energy Management

Carbon Offsets for Employee Travel

Commingled Recycling

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Energy Submetering

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Procured Local Food for On-Site Animals and/or Guest

Purchased Carbon Offset(s) for On-Site Utility Use

Stormwater Management Program

Waterwise Landscaping

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

Research

Examining the Pharmacokinetic Properties of a Sustained-Release Meloxicam Formulation in American Flamingos (*Phoenicopterus ruber*)

Male African Dominance and Reproduction Study and Hormone Monitoring of Multiple Birmingham Zoo (BZI) Species

Population Study of Black Bears in Alabama

Alaska

ALASKA SEALIFE CENTER

Education

Distance Learning Programs

In-House Day Programs

Nocturne Program

Ocean Sciences Club

Outreach Programs

Road Scholar Programs

Sea Journey

Small Fry School

Teacher Workshops

Field Conservation

Changing Tides - Bivalve Bioassay and Analysis Component (R0107)

Community-Based Coastal Monitoring of Aleutian Islands

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

Purchased Renewable Energy

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Green Building Policy/Commitment

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Smart Building Strategies

Used Enterprise (IT) Solutions to Track and Measure Sustainability Performance

Water Submetering

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WATER

Documented Amount Spent

Documented Amount Used

Research

Assessing Walrus Benthic Prey Base in Bristol Bay, Alaska

Bioenergetics, Movement Behavior, and Temperature Ranges of the Poorly Understood Pacific Sleeper Shark

Comparative Measures of Health and Physiology for Ice-Dependent Alaskan Seals

Eider Flock Maintenance

Instrument Development for Biological Research (IDBR)

Type B: Life-Long Vital Rate Telemetry in Marine

Homeotherms

Lactation Bioenergetics, Immune Competence, Age
Determination Models, Temperature Patterns, and Fetal
Development in Steller Sea Lion Females and Their Pups

Long-Term Monitoring of Trends in Steller Sea Lion Behavior, Ecology, Vital Rates, and Demography Within the Endangered, Western Distinct Population Segment

Reproduction, Survival, and Depredation in Harbor Seals – Phase 1: Validation

Ribbon Seal Physiology and Biology

Arizona

ARIZONA-SONORA DESERT MUSEUM

Education

Amigos del Desierto

Art Institute

ASDM Press

Bat Bridge Programs

Buffelgrass Busters

Coati Club

Colors of Nature Camp

Community Events

Cool Summer Nights

Desert Ark Programs

Desert Discovery Programs (On-Site)

Docent Interpretive Program

Docent Tours

Docent Training and Continuing Education

Earth Conservation Internship

Family Programs "Packrat Programs"

Fur, Feathers, and Fangs

Junior Docent Program

Library Outreach Programs

Live and (Sort of) on the Loose

Museum Explorers Camp

Public Programs

Raptor Free Flight

Senior Programs

Sonorensis

Special Events

Field Conservation

Argentine Cactus Moth Monitoring

Assurance Population: Gila Topminnow

Assurance Population: Quitobaquito Mud Turtles

Assurance Population: Quitobaquito Pupfish

Assurance Population: Sonora Chub Propagation: Mexican Gartersnake Propagation: Tarahumara Frog

Salvage: Rio Sonoyta Longfin Dace

Salvage: Tortoise Adoption Program

The Sonoran Desert Cooperative Weed Management Area

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Community Solar Program

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Procured Local Food for On-Site Animals and/or Guest

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Recycled

WATER

Documented Amount of Wastewater Generated

Documented Amount Used

Research

Ecological Forecasting for Invasive Species

Native Bee Biodiversity

Phenology Research

Pollinator Hotspots

PHOENIX ZOO

Education

Backstage Adventures and Premium Tours

Breakfast With the Animals

Camp Zoo

Certified Interpretive Guide Training

Conservation Science Night

Creature Features

Critter Keeper

Discovery Tours

Family Nature Club

Family Nature Club Workshops

Farm Tots

Girl Scout Fall Fest

Guided Tours

Littlest Critters

Lunch With a Keeper

Lunch With a Keeper - Adults

Nature Play Pop-up Events

Night Camp

Outreach Distance Learning

Photography Walk Abouts

Project Dragonfly - Advanced Inquiry Program

Special Needs Program

Teen Career Conference

Trail Host Program

Wild Science Academy

Zoo Play Date

Zoo Tots

Zoo U

ZOOMobile

ZooToYou - Outreach

ZooToYou Assemblies

Field Conservation

A Community-Based Approach to River Turtle Conservation in Guyana

Andean Bear-Human Conflict Areas in the Chingaza Massif, Colombia: Hot Spots, Drivers, and Potential Solutions

Arizona TrailCAM Project

AZA SAFE

Black-Footed Ferret (*Mustela nigripes*) Propagation and Release Program

Borderlands Connectivity: Field Conservation Research

Borderlands Connectivity: Training and Capacity Building

California Condor Nest Guarding Program

Camera-Traps and Communities Together for Carnivore Conservation in Gajedi Lake of Nepal

Characterization of the Shark Fishery and its Trade in the Pacific of Guatemala

Cheetah Conservation Fund

Chiricahua Leopard Frog (*Lithobates chiricahuensis*)
Headstarting and Release Program

Chiricahua Mountain Assessment of Large Mammal Corridor
Use and Drought Impact

Comprehensive Conservation Program for the Critically Endangered Harlequin Frog (*Atelopus varius*) in the Talamanca Mountains, Costa Rica

Conservation of Amphibians and Livelihoods Under Climate Change in the Sierra Nevada. Colombia

Conservation of the Endemic Chelonians of Sulawesi: Forsten's Tortoise (*Indotestudo forstenii*) and Sulawesi Forest Turtle (*Leucocephalon yuwonoi*)

Continuing to Resolve Conflict Through Communication: Using DVD Shows to Help Reduce Human-Carnivore Conflict Around Ruaha National Park, Tanzania

Developing Assurance Colonies of Threatened Indian Turtles

Dian Fossey Gorilla Fund International

Fighting Destruction of Orangutan Habitat With Healthcare Incentives for Rainforest Guardianship

Giant Anteaters & Highways

Giant Armadillo: A Flagship Species for Biodiversity Conservation

Hirola Conservation Programme - Student Scholarship

Hornbill Research and Conservation

In Pursuit of El Pajuil: A Camera Trap Study of the Critically Endangered Blue-billed Curassow (*Crax alberti*)

Increasing Profitability Without Killing Rare Carnivores: Empowering Rural Communities in South Africa to Protect Their Livestock Against Predation

Integrating Science and Community Stewardship for Conservation of Critically Endangered Chinese Pangolins (Manis pentadactyla) in the Dolakha District of Nepal

Jaguar Corridor: Connecting National Parks in the Zona Sur, Costa Rica

Las Alturas Threatened Species and Connectivity Research and Recovery Center, Costa Rica

Mariana Avifauna Conservation (MAC)/Pacific Bird Conservation Project

Mount Graham Red Squirrel Propagation and Release Program

Narrow-Headed Gartersnake (*Thamnophis rufipunctatus*)
Propagation for Release

Native Fish Species Reintroduction - Desert Pupfish

Native Fish Species Reintroduction - Gila Topminnow

Next Gen Croc: Fostering the Next Generation of Wildlife Champions

Phoenix Zoo Field Conservation Administration

Population Monitoring for Snow Leopards and Their Prey, South Gobi, Mongolia

Prairie Dog Plague Vaccine Project

Protecting Connectivity Through Citizen Science at Scottsdale's McDowell Sonoran Preserve

Proyecto Taguá: Chacoan Peccary Health Assessments

Radiated Tortoise Confiscation Support

Rangelands Restoration for the World's Most Endangered Antelope: the Hirola

Saving Sumatran Tigers by Reducing Tiger-Human Conflict

Springsnail Field Surveys

Support for Conservation Planning Specialist Group (CPSG)

Toward a Better Understanding of Orangutan Adaptation to Human-Made Landscapes

Turtle Survival Alliance (TSA)

University of Arizona/Arizona Center for Nature Conservation (ACNC) - Native Species Conservation Graduate Fellowship

Using Mutual Mate Choice to Improve Reproduction in the Black-Footed Ferret

Using Occupancy Models to Investigate Habitat Use and Illegal Hunting: a Case of Brazilian-Three-Banded-Armadillo

Warriors Protecting Grevy's Zebra in Laisamis, Northern Kenya

Where do Andean Bears Hide in the Boliviano-Tucumano Region of Bolivia?

Wild Water Project: Evaluating the Impacts of Surface Water Decline on Arid Ecosystems and Wildlife

Wildlife Trafficking Alliance

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

One or More Buildings LEED-Certified by the US Green Building Council

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Alternative Transportation Benefits for Staff

Building Energy Management

Commingled Recycling

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Energy Submetering

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Green Purchasing Policy/Green Procurement

Wastewater Reduction

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

WASTE

Documented Amount Composted

Documented Amount Recycled

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Research

Arthritis and Sex Hormones in Zoo Elephants

Cactus ferruginous - Pygmy-Owl Pilot Behavior Study

California Floater (*Anodonta californiensis*) Mussel Pilot Propagation Project

Community Ecology Research Equipment: Camera-Trapping

Conservation and Science Department Research Facilitation

ConservationFIT: A Conservation Partnership Between Cheetahs and Jaguars Under Managed Care and Those in the Wild Through Their Footprints

Detailed Anatomical Description of Axis calamianensis – the Calamian Hog Deer (TPZ ID: 12507)

Detailed Anatomical Description of *Crocuta crocuta* - the Spotted Hyena (TPZ ID: 13075)

Detailed Anatomical Description of *Oryx leucoryx* - the Arabian Oryx (TPZ ID: 12484)

Determination of Vertebral Heart Scale in African Wild Dogs (Lycaon pictus)

Developing a Pilot Breeding Program for the Endangered Mt. Graham Red Squirrel Using Fecal Steroid Analysis and Behavior Monitoring

Developing an *Ex-Situ* Propagation Strategy for the Narrow-Headed Gartersnake

Developing New Tools for Integrating DNA Data Into AZA Breeding Programs

Effect of Habitat Type on the Reproductive Strategy of Lilaeopsis schaffneriana var. recurva – an Extended Study of "Habitat Conducive to Sexual Reproduction in L. s. recurva"

Establishment of Fecal Cytology Parameters in Clinically Healthy Captive Black-Footed Ferrets (*Mustela nigripes*) Evaluation of Semen Characteristics in Chacoan preccary

Home Range and Movements of an Established Population of Nonnative, Invasive Pond Sliders at the Phoenix Zoo

Immobilization Protocols and Blood Gas Assessments Pre and Post Administration of Intranasal Oxygen in Chacoan Peccary

Improving *Thamnophis rufipunctatus* (Narrow-Headed Gartersnake) Detection Using Scent Based Methods:

Conservation Scent Dogs and Scent Baited Funnel Traps

Investigating Temperature Dependent Sex Determination of Crotaphytus collaris and Petrosaurus thalassinus

McDowell Gooseneck Corridor

Modified Protocol for Sex Identification of In Ovo Avian Embryos as a Cost Effective and Accessible Management Tool for Zoological Institutions

Night Camp Collaboratory

Pathology and Assessment of a Metastatic Sertoli Cell Tumor in a Mexican Gray Wolf Using Anti-Muellerian Hormone Assay

Pyrgulopsis thompsoni Habitat Use and Dispersion

Quantitative Comparison of Nonhuman Primate Environmental Enrichment Across US Research Facilities, Sanctuaries, and Zoos: Application of a Standardized Assessment Tool

Research Request Review Committee

Serological Survey for *Balamuthia Mandrillaris* in Bornean Orangutans

Squamate Sex Determination, Genomics, and Phylogenetics

Tamiasciurus hudsonicus grahamensis (Mount Graham Red Squirrel) Behavior

Tracking Reintroduced *Ex-Situ* Born Narrow-Headed Gartersnakes

US-Mexico Borderlands - Wildlife Movement and Migration

Why Zoos and Aquariums Matter 3 Data Collection

Wildlife Research Assistant Training Program

REID PARK ZOO

Education

Animal Encounter

Behind-the-Scenes Tour

Bio Bags

Camps (Non-Summer, Private, or Winter)

Education Program Animal Presentation

Formal Animal On-Grounds Presentations

Interpretive Station Cart

Little Critters

Nature Play Days at the Zoo

Summer Camp

Teacher Workshop

Young Explorers Programs

Zoo Adventure Program (On-Site School Programs)

Zoo to You Outreach

Field Conservation

Global Conservation Force

International Elephant Foundation (IEF)

International Rhino Foundation (IRF)

IUCN/SSC Tapir Specialist Group

Pantanal Giant Armadillo Project/Giant Anteater Conservation and Monitoring Program

Tarangire Elephant Project

Tucson Wildlife Center

University of Arizona - Andean Bear

Zoo Conservation Outreach Group (ZCOG) - Anteaters and Highways

Green Practices

ENERGY

Generated Renewable Energy On-Site

FOOD

Sourced Local Food or Grew it On-Site

GREEN PRACTICES IMPLEMENTED

Community Solar Program

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Research

A Case Report of a Jaguar (*Panthera onca*) With Anemia That was Managed Using Multiple Blood Transfusions

Behavioral Assessment of Zoo-Housed Felids

Face Recognition Technology in Brown Bears

Mortality of Four Captive-Born Crested Screamer Chicks (Chauna torquata)

Oleander (*Nerium oleander*) Toxicosis in Two Adult Giraffe (*Giraffa camelopardalis reticulate* and *Giraffa* camelopardalis rothschildi)

Serial Ultrasound to Estimate Fetal Growth Curves in Southern Tamandua (*Tamandua tetradactyla*)

Tapir Photo Database for Field Researchers

Why Zoos and Aquariums Matter 3 - STEM Matters

SEA LIFE ARIZONA AQUARIUM

Education

Boy Scouts

Daily Feeds

Daily Talks

Displays Animal Care Development

Education Development

Girl Scouts - Brownies

Girl Scouts - Cadets

Girl Scouts - Daises

MACS Conservation Workshop

Plastic Oceans

Field Conservation

Arizona - Salt River Applesnail

Green Practices

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

Research

Aquaculture Tubastraea aurea

Arizona Salt River Apple Snail Survey

Arkansas

LITTLE ROCK ZOO

Field Conservation

American Association of Zoo Keepers (AAZK) - Bowling for Rhinos/Winos for Rhinos

Appalachian Bear Center

Arkansas Monarch Conservation Partnership

Arkansas Natural Heritage Commission

Asian Elephant Support (AES)

AZA Conservation Grants Fund (CGF)

AZA Jaguar SSP - Cockscomb Basin Wildlife Sanctuary (CBWS)

AZA SAFE - Cheetah

AZA SAFE - Conservation Action Plan (CAP)

AZA Tiger SSP - Tiger Conservation Campaign

Bornean Sun Bear Conservation Centre (BSBCC)

Cheetah Conservation Fund (CCF)

Conservation Centers for Species Survival (C2S2)

Dian Fossey Gorilla Fund International

Got Scat?

Goualougo Triangle Ape Project (GTAP)

International Bear Association

International Elephant Foundation (IEF)

International Rhino Foundation (IRF)

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Lemur Love - Reniala Lemur Rescue Center

New Nature Foundation - Kibale Fuel Wood Project

Pan African Sanctuary Alliance

Partners in Conservation

Pryor Mountain Wild Mustang Center

Rainforest Alliance

Rapter Rehab of Central Arkansas

Save the Lemurs

Southern African Foundation for the Conservation of Coastal Birds (SANCCOB)

The Attwater Prairie Chicken Refuge

The Clouded Leopard Project

The Orianne Society

Turtle Survival Alliance (TSA)

Wildlife SOS

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Commingled Recycling

Composting (On-Site or Off-Site)

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Stormwater Management Program

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

Research

Arthritis Markers in Elephants

AZA SSP - Collection of Samples and Records for SSP: Endorsed Studies

Biomaterials Use in Zoos

Evaluating Variation in Soil Composition Among Habitats at the Little Rock Zoo

California

AQUARIUM OF THE BAY

Field Conservation

Rivers and Estuaries

Green Practices

FUEL

Documented Amount Spent

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Commingled Recycling

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Green Building Policy/Commitment

Green IT

Green Purchasing Policy/Green Procurement

Wastewater Reduction

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

AQUARIUM OF THE PACIFIC

Education

Bay Lab Animal Ambassador Programs

Bay Lab Public Programs

BayMobile Outreach Programs

Exploration Tours

Hybrid Ferry Programs

Public Programs - Feedings

Public Programs - Non-Feedings

Self-Guided Tours

Shoreline Clean-Up Events

Sleepovers

Special Public Program Events

Trout in the Classroom Collaboration

Field Conservation

AZA Guam Kingfisher SSP

Great Lakes Piping Plover Recovery Effort

Mariana Avifauna Conservation (MAC) Project

Reef Check Surveys

Sea Turtle Rehabilitation

SExual COral Reproduction (SECORE) - Coral Reef Reproduction and Restoration Project

SExual COral REproduction Silver Partnership (SECORE)

Southern African Foundation for the Conservation of Coastal Birds

Southern California Thermograph Array Project

Spotting Giant Sea Bass

Vaquita Conservation Through Education and Market Incentives

White Abalone Captive Breeding Project

White Abalone Habitat Monitoring With National Oceanic and Atmospheric Administration (NOAA) and National Marine Fisheries Service (NMFS)

White Abalone Module Testing

Green Practices

ENERGY

Documented Amount Used

FOOD

Sourced Local Food or Grew it On-Site

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount of Wastewater Generated

Documented Amount Used

Research

Artificial Insemination in Blacktip Reef Sharks (*Carcharhinus melanopterus*)

Artificial Insemination in Sand Tiger Sharks

Artificial Insemination Techniques in Bamboo Sharks (Chiloscyllium plagiosum and Chiloscyllium punctatum)

Landscape Analysis of Aquaculture Outreach Survey

Southern California Sea Turtle Monitoring Project

B. BRYAN PRESERVE

Field Conservation

Giraffe Conservation Foundation (GCF)

Grevy's Zebra Trust

Green Practices

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting (On-Site or Off-Site)

Generated Solar or Wind Energy

BIRCH AQUARIUM AT SCRIPPS INSTITUTION OF OCEANOGRAPHY

Field Conservation

Animal Sanctuary

Capacity Building and Specialty Training - Multiple Marine Conservation Projects

Conservation Education Through Outreach Scholarships

Coral Conservation

Coral Conservation Through High School Education

Husbandry Capacity Building and Training of Multiple Institutions

Sea Turtle Education Conservation and Sanctuary

SEACAMP Outreach Education Support

Syngnathidae Conservation

Veterinarian Support

Research

Aequorea victoria Jellies Research in Benefit of Human Medical Research

Comparison of Radiographic, Ultrasound, and Magnetic Resonance Imaging for the Detection of Retained Stingray Foreign Body: an *In Vitro* Study

Coral Research/Conservation

Distinct Microstructure of the Dermal Denticles of Three California Shark Species

Kelp Forest Sound and Underwater Imaging Projects

San Diego Zoo Sperm Atlas

Scripps Institution of Oceanography - Pier Data Analysis

Syngnathid Research

CABRILLO MARINE AQUARIUM

Field Conservation

Biannual Survey of Intertidal Marine Life at Point Fermin Marine Life Refuge, Los Angeles County, California

Cabrillo Coastal Park Survey

Cabrillo Salt Marsh Survey

Combfish Husbandry

Garibaldi Aquaculture, Territorial Behavior, and Conservation

Grunion Greeters

Peninsula Shorewatch

White Abalone Husbandry and Conservation

Green Practices

FOOD

Sourced Local Food or Grew it On-Site

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Research

Copepod Aquaculture

Grunion Aquaculture

Pacific Seahorse Husbandry and Development

Rotifer Aquaculture

CALIFORNIA SCIENCE CENTER

Field Conservation

Reef Check California Recertification and Surveys

Survey of Southern Steelhead

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Building Energy Management

Commingled Recycling

Completed Greenhouse Gas Inventory

Composting (On-Site or Off-Site)

Denitrification Systems On Ground

Energy Submetering

Green Building Policy/Commitment

Green IT

Green Purchasing Policy/Green Procurement

Water Submetering

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

Research

Catalina Marine Society Thermograph Array

Diversity Initiative for the Southern California Ocean (DISCO)

CHARLES PADDOCK ZOO

Field Conservation

Confiscated Turtle Program

Pacific Pond Turtle Program

Quarters for Conservation

CURIODYSSEY

Education

Afterschool Science Adventures Mid-Penisula Boys & Girls

Club

CuriOdyssey Summer Camp

Fiesta Garden School Program

Homeschool Science Discovery

LEAD School Program

Physical and Life Science Workshops

Science Explorers

Self-Guided Visits

Teacher Personal Development Workshop

Weekend Workshops

Wildlife Presentations

Winter & Spring Camp

Field Conservation

AZA FrogWatch USA

Bay Area Bobcat Study

Coyote Point Beach Clean Up

Marsh Habitat Restoration Project – Removal of Invasive Limonium ramosissimum

Pacific Tree Frog (Pseudacris regilla) Garden Habitat Project

River Otter Ecology Project

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Purchased Renewable Energy

FOOD

Sourced Local Food or Grew it On-Site

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Purchased Green Power or Renewable Energy Credits (RECs)

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

Research

Experimental Restoration at Coyote Point Marsh

Landscape Genetics and Habitat Fragmentation of a Vulnerable Californian Valley Mesocarnivore - the Ringtail (Bassariscus astutus)

Urban Wildlife Project: Bay Lands Gray Fox Project

Western Pond Turtle (*Emys pallida*, formerly *Emys marmorata pallida*) Ecology and Conservation in Central California

FRESNO CHAFFEE ZOO

Education

Ask Me Cart

Beach Cleanup

Birthday Presentations

Community Events

Group Behind the Scenes

Individual Behind the Scenes

Overnight Safari

Raptors

School Lab Programs

Story Time

Teacher Workshops

Teen LEADERS (Lead by Educating With Activities and Demonstrations on the Environment, Resources, and Sciences)

Tot Time

Valley Farm Outreach

Zoo Camp

Zoo Preview

Zoo Talks

Zoo Tour

ZOOMobile

Field Conservation

Ambassadors Schools Network

Assessing the Current Population Status of Abbott's Starlings

AZA Ape TAG - Conservation Initiative

AZA Sloth Bear SSP

AZA Tiger SSP - Malayan Tiger Project

AZA Western Pond Turtle SSP - Genetic Testing for Species Identification

Bat Monitoring and Conservation Assessment in the Central Valley

Bay Area Puma Project

Brazilian Amphibian Documentation

California Condor Nest Guarding Program

Chacoan Peccary Project

Cheetah Adaptations in Varied Land-Use Regions of Kenya

Community Based Habitat Restoration for the Critically Endangered Guatemalan Beaded Lizard

Community Education for Cheetah and Carnivore
Conservation in the Kalahari

Community Guardianship for the Sustainable Conservation of Himalayan Musk Deer

Community-Based Elephant Conservation at the Eyumojock-Korup Reserve

Community-Based Grevy's Zebra Conservation in Northern Kenya

Connecting Wildlife Through Zambia's Transboundary Wildlife Movement Corridors

Conservation of Threatened Cavity-Nesting Birds in Argentina

Conserving Grauer's Gorillas in Itombwe Nature Reserve

Conserving the African Wild Dog

Critically Endangered Gyps Vulture Conservation through Safe Zone Project

Friends of the Island Fox Support for Channel Islands
National Parks

Guinea High Forest Sanctuary

International Rhino Foundation (IRF)

Iringa Red Colobus Monkey

Kibale Fuel Wood Project

King Cobra

Lowland Tapir Conservation Initiative - Pantanal Tapir Program

Margay

Marsh Deer

Mount Cameroon Francolin

Olive Ridley Sea Turtle

Pangolin Management in Côte d'Ivoire

Pantanal Giant Armadillo Project

Population Status of the Endangered Ashy Red Colobus Monkey

Primate Inventory and Conservation in Ikpa River Basin

Promoting Chimpanzee Conservation Through Education Programs in Uganda

Radiated Tortoise Rescue and Rehabilitation in Madagascar

Red Wolf Film

Reticulated Giraffe Project

Ruaha Carnivore Project (RCP)

Saving the Chinese Pangolin

Tarangire Elephant Project (TEP)

Ungulate Antipredator Responses to Perceived Risk of Amur Tiger Predation

VulPro

Vulture Poisoning Response

West African Crocodile Assessment

Whale Shark Conservation

Green Practices

GREEN PRACTICES IMPLEMENTED

Community Solar Program

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Procured Local Food for On-Site Animals and/or Guest

Stormwater Management Program

HAPPY HOLLOW ZOO

Field Conservation

Chaco Jaguar Project

Cheetah Conservation Fund (CCF)

Progress for Pollinators

Quarters for Conservation: Virunga National Park *No longer Heart of the Congo

Red Panda Network

Ruaha Carnivore Project (RCP)

Green Practices

ENERGY

Generated Renewable Energy On-Site

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

One or More Buildings LEED-Certified by the US Green Building Council

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

LOS ANGELES ZOO AND BOTANICAL GARDENS

Education

California Condor Rescue Zone

Duttenhaver Conservation Field Study Student Fellowship

Elephant Training Demonstration

Family Classes

Family Overnights

Los Angeles Zoo Camp

Scout Overnights

Zoo Pals

Field Conservation

Amakhala Mounted Anti-Poaching Unit

Black-Winged Starling Conservation in Indonesia

Bushmeat Education at Limbe Wildlife Center

California Condor Recovery Project - Rear and Prepare for Release to the Wild

Community Conservation to Protect Critical Orangutan Habitat in Sabangau, Central Kalimantan, Indonesia

Conservation of Armenian Vipers (*Montivipera raddei*) Inhabiting Anthropogenic Modified Landscapes

Conservation of Egyptian Vultures

Drill Conservation on the Island of Bioko

Drill Rehabilitation and Breeding Center (DRBC)

Finding and Providing Appropriate Conditions Under Which to Hold the Endangered Southern Mountain Yellow-Legged From

Giant Otter (*Pteronura brasiliensis*) Coexistence With People in the Peruvian Amazon

Gorilla Rehabilitation and Conservation Education (GRACE) Center

Harpy Eagle Conservation and Research

Human-Elephant Conflict in Cambodia

IUCN/SSC Asian Wild Cattle Specialist Group - Saola Working Group - Saola Conservation Project

Minimizing the Conflict Between Asian Elephants and Local Villagers

Okapi Conservation Project

Painted Dog Kavango Zambezi Trans-Frontier Satellite and Anti-Snare Collar Fieldwork

Paso Pacífico - Paso del Istmo Jaguar Conservation Project

Philippine Threatened Hornbills Conservation Project (Panay Island)

Proyecto Taguá/Chaco Center for Conservation and Research (CCCR)

Remote Monitoring of Red Uakari Monkeys and Hunting on the Yavari River, Peru

Sahara Conservation Fund

Saiga Conservation Alliance

Sanctuary Staff Training in Cameroon

Turtle Survival Alliance (TSA)

Research

Assessing Effects of Evening Events on Daytime Behavior of Zoo Residents

Changes in Conservation Caring With Different Experiences

Changes in Orientation of Asian Elephants as Social Introductions Proceed

Development of Rapid Facial Mimicry (RFM) in Chimpanzees

Do Chimpanzees Spontaneously Engage in Empathetic Yawning?

Effects of Zoo and Nature Experiences on Stress Reduction

Evaluation of Animals and Their Exhibits

Gorilla Activity and Social Interactions

Play in Chimpanzees

Relationship Between Available Space and Elephant Activity

MONTEREY BAY AQUARIUM

Education

Auditorium Programs

Discovery Labs School Program

Education Conferences

Field Conservation

Aquarium Conservation Partnership (ACP)

Assessing Population Structure and Post-Release Survival of Mobulid Rays in the Eastern Pacific Ocean

Conservation and Science Program Administration

Conservation Research Program Administration

Migratory Movements, Depth, and Temperature Preferences of Dolphinfish (*Coryphaena hippurus*) Along the Western Baja California Coast of Mexico

Natural History of Mobulid Rays in the Gulf of California

Ocean Conservation Policy

Ocean Sunfish Research

Pacific Bluefin Tuna

SANCCOB Professional Volunteers

Satellite Tagging to Reveal the Early Life History of Steelhead Kelts on California's Central Coast

Sea Otter Program

Seafood Watch

Sevengill Shark Research

Shorebird and Seabird Rehabilitation

Subtidal Diver Stewardship

White Shark Research

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Purchased Renewable Energy

FOOD

Sourced Local Food or Grew it On-Site

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Building Energy Management

Commingled Recycling

Community Supported Agriculture (CSA) Program for Staff

Community-Based Sustainability Projects

Completed Greenhouse Gas Inventory

Composting (On-Site or Off-Site)

Denitrification Systems On Ground

Diverted or Recycled Construction Waste

Energy Submetering

Generated Energy through Anaerobic Digester

Green Building Policy/Commitment

Green IT

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Purchased Carbon Offset(s) for On-Site Utility Use

Smart Building Strategies

Stormwater Management Program

Water Submetering

Waterwise Landscaping

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

Research

Deep Sea Cephalopods

Marine Macroalgae – Ecosystem Indicators of Historic Conditions

Pelagic Red Crab Gut Contents: Plastics Study

Use of Non-Invasive Methods to Evaluate Stress in Iconic Fish and Invertebrates

Visitor Research

Whole Genome Sequencing of the Sea Otter

OAKLAND ZOO

Field Conservation

Africa Matters

Amboseli Trust for Elephants

Animals Asia

Arroyo Viejo Creek On-Site Restoration Project

Asociación de Rescate y Conservación de Vida Silvestre (ARCAS)

AZA Puerto Rican Crested Toad SSP

Bay Area Puma Project - Felidae Conservation Fund

BEAR League

Big Life Foundation

Bornean Sun Bear Conservation Centre (BSBCC)

Budongo Snare Removal Project

California Condor Recovery Program

California Wolf Center

Centre ValBio at Stony Brook University

Cheetah Conservation Fund (CCF)

David Sheldrick Wildlife Trust

Elephant Voices

Golden Gate Audubon Society

Hornbill Research Foundation (HRF) - Nest Adoptions in

Thailand

Iinnii Initiative

Kaminando Habitat Connectivity Initiative

Kibale Bead Community Action Project

Kibale Fuel Wood Project

Lubee Bat Conservancy

Marine Mammal Center

Mountain Lion Foundation

Mountain Yellow-Legged Frog Project

Oakland Zoo Heron Initiative

Oakland Zoo Mountain Lion Initiative

People and Carnivores

Proyecto Tití

Reticulated Giraffe Project

Save the Elephants

SaveNature.Org - Rainforest Conservation Parking Meter

Turtle Survival Alliance

Uganda Carnivore Program

Ventana Wildlife Society

WCN - Elephant Crisis Fund

Western Pond Turtle Headstart Program (On-Site)

Wildlife Conservation Network (WCN) - Ewaso Lions

Wildlife Conservation Society (WCS) - 96 Elephants

Wildlife Conservation Society (WCS) - Tiger Project

Green Practices

FOOD

Sourced Local Food or Grew it On-Site

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

One or More Buildings LEED-Certified by the US Green

Building Council

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Building Energy Management

Commingled Recycling

Community Solar Program

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Green IT

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Wastewater Reduction
Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

Research

Determining Qualitative Behavioral Assessment (QBA) as a New Method of Evaluating Animal Welfare

Investigating Wide-Scale Patterns in Urban Wildlife Distributions in Alameda County, California

Ursid Tooth Mark Taphonomy

SACRAMENTO ZOO

Education

Animal Encounters

Behind-the-Scenes Tours

Career Talks

Discovery Room

Docent Presentation Stations

Docent Training

Family and Group Overnights

Keeper Chats

Little Peeps Preschool Classes

Nature Explorers

Resource Library and Zoo Animal Fact Sheets

Roots & Shoots Teen Program

School & Group Field Trips

Special Events Such as Boo at the Zoo and Party For The

Starlight Safaris

Summer Camp

Survive and Thrive Animal Adaptation Show

Tea & Tours

Teacher Resources

Teen Public Education Tables

Zoo Mobile

Field Conservation

2017 A Day in the Park

2017 Securing Population Status Yellow Billed Stork

2018 Mountain Yellow Legged Frog Conservation

2018 Wild Tracks

African Wildlife Foundation

American Association of Zoo Keepers (AAZK) - Bowling for Rhinos

Amphibian Ark

AZA Jaguar SSP - Cockscomb Basin Wildlife Sanctuary (CBWS)

AZA SAFE - Western Pond Turtle

AZA SAFE Giraffe Program

AZA Tiger SSP – Tiger Conservation Campaign: Sumatran Tiger

Biodiversity Conservation Organization - Conserving Southern Ground Hornbill Through Local Capacity Building

Biodiversity Conservation Organization - Mitigating Human/ Lion Conflict in Meru National Park Kenya With Community Involvement

Building Community Capacity Conserving Golden Rumped Elephant Shrews in Arabuko Sokoke Forest Kenya

CLAWS Human Lion Co-Existence Community Participation and Training

Dhartee Development Society - Critically Endangered Gyps Vulture Conservation

Eco Kenya Monitoring Yellow Spotted Tree Frog in Arabuko Sokoke Forest Kenya Through Community Involvement

Felidae Conservation Fund/Bay Area Puma Project

Food Procurement for Rehabilitation Centers

Garter Snake Ecology Studies

Grevy's Zebra Trust

Hornbill Research Foundation (HRF) - Nest Adoptions in Thailand

International Bird Rescue

Itombwe Generation Pour l'Humanite Conserving the Eastern Chimpanzee in the Itombwe Reserve

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Lemur Conservation Foundation

Mabula Ground Hornbill Project (MGHP)

Madagascar Fauna and Flora Group (MFG)

Mitigating Human Leopard Conflict in Maasai Mara

Mountain Lion Foundation - Citizen Science for Mountain Lions on the Cosumnes River Preserve

New Nature Foundation (NNF) - Sustainable Innovations With Wildlife-Neighboring Communities in Uganda

Okapi Conservation Project

Orangutan Outreach

Pan African Sanctuary Alliance (PASA) - Conservation Educators Workshop

Pantanal Giant Armadillo Project

Paso Pacífico Stopping Illegal Trade of Sea Turtle Eggs

Red Panda Network (RPN)

Ring Tail Live Trapping Morphometrics and Radiotelemetry Workshop

Sahara Conservation Fund (SCF)

Seafood Watch

Shared Conservation Biologist

Snow Leopard Conservancy (SLC)

Snow Leopard Trust (SLT)

SURUDEV - Conservation Education, Field Survey of Birds Species Disappearance, Ako-Mbembe Forest Reserve and Kilum-Ijim Forest of the Bamenda Highlands, North West Region of Cameroon

Szinda Nature School Painted Dog Research Trust

Tropical Research and Conservation Center Primate
Inventory and Conservation in Ikpa River Basin Nigeria

Tuleyome California Naturalist In-Situ Citizen Science Project

Turtle Survival Alliance (TSA)

Union Island Gecko Conservation Program

Vulture Conservation Programme (VulPro)

Wangechi Marine Biodiversity Evaluating the Distribution, Ecology, and Movement of Straw Colored Fruit Bat in Kakamega Forest Kenya

Wild Nature Institute - Masai Giraffe Conservation Demography

WildAid - Shark Savers

Wildlife Care Association

Wildlife Conservation Expo

Zoo Conservation Outreach Group (ZCOG)

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

Purchased Renewable Energy

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Carbon Offsets for Employee Travel

Commingled Recycling

Composting (On-Site or Off-Site)

Generated Solar or Wind Energy

Green IT

Procured Local Food for On-Site Animals and/or Guest

Purchased Carbon Offset(s) for On-Site Utility Use

Purchased Green Power or Renewable Energy Credits (RECs)

Smart Building Strategies

Wastewater Reduction

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

Research

2018 Allostatic Load Stress in Great Apes

2018 Giraffe Improvest Trial

2018 Great Ape Interactive Technology

2018 Ground Hornbill Husbandry Survey

2018 Pharmacokinetics of Single and Multiple Dose Subcutaneous Voriconazole in Healthy Western Pond Turtles (*Actinemys marmorata*)

2018 Red Panda Mucoid Stool Survey

2018 Sloth Genetic Testing

2018 Snow Leopard Eye Diseases

2018 Western Pond Turtle Genetic Survey of Captive Population

Amdovirus Investigation in Red Pandas

Clinical Medicine Research Publications

Kurtz - Bear Stress Physiology Study

SAFARI WEST WILDLIFE PRESERVE

Education

Conservation Dinner Series

Guided Safari Tour

Husbandry Internship

Off-Site Presentations

Research Internship

Safari Summer Kids Camp

Safari Trek Field Trip

Field Conservation

African Wildlife Foundation

Andean Cat Alliance

Ape Action Africa

Bonobo Conservation initiative

California Academy of Sciences

California Wolf Center

Cheetah Conservation Botswana

Cheetah Conservation Fund (CCF)

Claws Conservancy

Cornell Lab of Ornithology

Ewaso Lions

Global Penguin Society

Grevy's Zebra Trust

Hungry Owl Project

International Rhino Foundation (IRF)

Lion Recovery Fund

Litterati

Marine Mammal Center

MYCAT

Napa Solano Audubon Society

National Wildlife Federation (NWF)

Native Songbird Care & Conservation

North Coast Resource Conservation and Development

Council

Okapi Conservation Project

Pacific Manta Research Group

Painted Dog Conservation

Paso Pacífico

Paula Lane Action Network

Planet Bee

Point Blue Conservation Science

Provecto Tití

River Otter Ecology Project

Rwanda Wildlife Conservation Association

Sahara Conservation Fund

Save The Snakes

Save Vietnam Wildlife

SaveNature.Org
Shark Stewards

Small Wild Cat Education and Conservation Fund

Snow Leopard Conservancy

The Bird Rescue Center

The Bonobo Project

Urban Wildlife Research Project

Wild Aid

Wild Nature Institute - Project Giraffe

Wildcare Bay Area

Wildlife Conservation Network

Wildlife Rescue Sonoma County

World Parrot Trust (WPT)

Worth a Dam - Martinez Beavers

Green Practices

FOOD

Sourced Local Food or Grew it On-Site

GREEN PRACTICES IMPLEMENTED

Composting (On-Site or Off-Site)

Graywater Reuse and/or Rainwater Harvesting

Procured Local Food for On-Site Animals and/or Guest

Stormwater Management Program

Wastewater Reduction

Waterwise Landscaping

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

Research

Occupancy and Turnover of Native Fauna

SAN DIEGO ZOO GLOBAL

Education

Institute Advanced Inquiry Program

Institute - Conservation Education Lab School Visits

Institute - Outdoor Learning Lab

Institute - Summer Teacher Workshops in Conservation

Science

Price Family Watershed Heros

Safari Park - Behind-the-Scenes Safari

Safari Park - Caravan Safari

Safari Park - Cart Safari

Safari Park - Conservation Corp

Safari Park - Conservation in Action

Safari Park - Fur, Feathers, and Scales

Safari Park - Roar & Snore Safari

Safari Park - Safari Express

Safari Park - Save Our Aquatic Resources

Safari Park Self Guided Field Trips

Safari Park Summer Camp

Safari Park - Tram

Safari Park - Ultimate Safari

Safari Park - Wildlife Education and Conservation Action

Reaching Everyone (WECARE)

San Diego Zoo Kids

Zoo - Animals in Action

Zoo - Aussie Outback Birthday Bash

Zoo - Be a Bug's Buddy

Zoo - Classic Summer Camp

Zoo - Critter Coverings

Zoo - Cub Camp

Zoo - Discovery Tours

Zoo - Early Morning With Pandas

Zoo - Epic Teen Camp

Zoo - Exclusive VIP Experience

Zoo - Expeditionary Learning Program

Zoo - Girls in Science

Zoo - Guided Bus Tour

Zoo - Healing Animal Arts

Zoo - Inside Look Tours

Zoo - Inside Story Tour

Zoo - Internguest

Zoo - Kids Free Month

Zoo - KinderZoo

Zoo - Little Artists

Zoo - Outreach Assembly and Classroom Programs

Zoo - School in the Park

Zoo - Second Grade Adaptations Connections

Zoo - Self Guided School Field Trips

Zoo - Special Tours

Zoo - Summer Art Camp

Zoo - Sunrise Surprise Strolls

Zoo - Watershed Heroes

Zoo - Wild Heroes

Zoo - Wildlife Conservancy Tour

Zoo - Wildlife Overnights

Zoo - Winter Educator Preview

Zoo - Zoo Corps

Zoo - ZooTV: Video-Conference Connection in Your

Classroom

Field Conservation

African Penguin Conservation

An Adaptive Management Approach to Recovering
Burrowing Owl Populations and Restoring a Grassland

Ecosystem

Andean Bear Conservation Research - Building Capacity in

Peru

Andean Condor Recovery in Colombia, South America

Anegada Iguana Recovery Program

Aye-Aye Dispersal Patterns

AZA Andean Condor SSP - Colombian Reintroduction

Program

AZA Grand Cayman Blue Iguana SSP - Population

Management and Recovery Program

AZA Jamaican Iguana SSP - Population Management and

Recovery Program

AZA Okapi SSP - Consortium

Behavior, Ecology, and Conservation of Gelada Baboons

Behavioral Ecology and Conservation of Andean Bears in Peru

Behavioral Ecology and Reintroduction of the Tasmanian Devil

Cactus Scrub Habitat Enhancement and Cactus Wren
Monitoring

California Condors and Endocrine Disruptors

California Least Tern and Western Snowy Plover Conservation Program

Captive Breeding and Reintroduction of the San Clemente Loggerhead Shrike

Central Africa Program

Cheetah Conservation

Chinese Dhole Recovery

Coastal Sage Scrub Restoration and Biodiversity Monitoring at the Safari Park

Collaborative Conservation Research for Sloth Bears

Combatting the Illegal Trade in Asiatic Black Bears and Bear Parts in Southeast Asia

Conservation and Captive Rearing of the Critically Endangered Mangrove Finch

Conservation and Ecology of Wild Giant Panda Populations

Conservation Breeding and Reintroduction of the Critically Endangered Pacific Pocket Mouse

Conservation Breeding and Release of the Aga or Mariana Crow

Conservation Breeding of the Giant Panda

Conservation Ecology of the Sun Bear

Conservation Management of Leopards in Northern Kenya's Rangelands: Integrating Ecology and Social Science Into Community-Based Conservation

Conservation of the Quino Checkerspot Butterfly

Conserving Endangered Vultures in Northern Kenya: Taking Action Against Key Threats

Desert Tortoise Health

Dian Fossey Gorilla Fund International

Disease Modeling and Tasmanian Devils

Effects of Roads on Space Use, Habitat Selection, Diet, Population Dynamics, and Health of Ringtails in Rural San Diego County

Effects of Wind Turbines on Golden Eagles and Condors in Northern Baja California, Mexico

Enhancing California Condor Genetic Management

Ewaso Conservation Company - Lion Scouts

F.E. Falz-Fein Biosphere Reserve

Fiji Iguana Conservation

Galápagos Pink Land Iguana Recovery Program

Gelada Ecology and Conservation

Gharial Conservation Fund

Giant Panda Conservation - Disease Surveillance and Risk Assessment in China

Grevy's Zebra Trust

Hawaii Endangered Bird Conservation Program

Hornbill Research Foundation (HRF)

Human Dimensions of Lion Conservation

Human-Wildlife Coexistence With Jaguars in the Bolivian Amazon

International Rhino Foundation (IRF)

Investigating Ecological and Health Requirements for Long-Term Sustainability of Coastal Patch-Nosed Snake Populations

Investigating the Role of Disease in Declining Thick-Billed Parrot Populations in Northern Mexico

IUCN/SSC Tapir Specialist Group

Jaguar Costa Rica Corridor Research

Jungle Friends Primate Sanctuary, Inc.

Koala Management, Education, and Conservation Program

Las Californias Linkages for Large Mammals: Peninsular Bighorn Sheep in Baja California, Mexico

Light-Footed Clapper Rail Reintroduction Program

Living With Elephants – Conservation and Human Dimensions Efforts

Living With Elephants – Conservation, Communities, Rescues, and Human Dimensions

Madagascar Fauna and Flora Group (MFG)

Management of the Cocha Cashu Biological Station in Manu, Peru

Molecular Conservation Genetics: Development and Application to Management of Captive and Wild Populations

Mountain Yellow-Legged Frog Recovery Program

New Technologies in Support of Grevy's Zebra Conservation: Integrating Genomes, Microbiomes, Parasites, Diets, and Demography Northern Rangelands Trust - Black Rhino Translocation to Sera Community Conservancy

Northern Rangelands Trust - Ishaqbini Hirola Community Conservancy Project

Northern Rangelands Trust - West Gate Community Conservation

Northern White Rhinoceros Initiative

Okapi Conservation Project

Peninsular Pronghorn Recovery Program

Peregrine Fund - Wildlife Poisoning Response Training

Point Loma Nazarene University (PLNU) - Project Jaguar and Other Predators of the Talamanca

Point Loma Nazarene University Summer Internships

Polar Bear Conservation Research and Educational Outreach

Population Health and Genetics of Black-Footed Cats and Infectious Disease Prevalence in Sympatric Carnivores

Population Management for Caribbean Rock Iguana SSP Recovery Programs

Prevalence of Haemosporidian in the Endangered African
Penguin: Effects on Morbidity and Mortality in a Changing
World

Przewalski's Horse: Asian Wild Horse Conservation Project

Quokka Project Support

Recovery of the California Condor

Red Panda Network (RPN)

Reteti Elephant Orphanage

Reticulated Giraffe Conservation With Pastoralists

Rock Iguana Breeding Program

Rodrigues Fruit Bat Conservation Support

Sahara Conservation Fund (SCF)

Saiga Conservation Alliance

Snow Leopard Trust (SLT)

The Genetic Diversity of Addax in Reintroduced and *Ex-Situ*Managed Populations

Translocation Biology of Endangered Heteromyids in Southern California

Turks and Caicos Boa Project

Turks and Caicos Iguana Project

Turtle Survival Alliance (TSA)

Understanding Public Attitudes Towards the Use of Tiger Parts in Southeast Asia

Wildlife Conservation Society (WCS) - Sumatran Tiger Project

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

Purchased Renewable Energy

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

One or More Buildings LEED-Certified by the US Green Building Council

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Alternative Transportation Benefits for Staff

Building Energy Management

Commingled Recycling

Community Solar Program

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Green IT

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Smart Building Strategies

Wastewater Reduction

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

Research

Cape Vulture Reintroduction Program in South Africa

Determining the Genetic Basis for Serum Amyloid A Amyloidosis in Island Foxes

Dietary Reconstruction of Jaguar Using Metagenomics and Next-Generation Sequencing

Exploring Conservation Science Field Trips and Teacher Workshops in Conservation Science: African Elephant Reproductive Endocrinology

Investigating the Cause of Fatal Spinal Osteoarthropathy

IUCN SSC Cat Specialist Group Workshop to Develop Jaguar Action Plans for Under-Served Range Countries

IUCN Wild Cattle and Babirusa Conservation and *In-Situ*Animal Care Skill Development

Jaguar Ecology and Conservation in Peru

Keeping Hirola Healthy: Hirola Antelope Disease Surveillance and Risk Assessment

Nesting Ecology and Human Harvest of the Yellow Spotted River Turtle

Pelecaniformes Morbidity and Mortality Review

Population and Genetic Assessments of Varecia rubra

Preventing the Decline of the Iconic Platypus and Other Key Threatened Australian Freshwater Fish Species

Stop Poisoning Now: Tackling Wildlife Poisoning in Northern Kenya

Tapir Conservation, Anti-Poaching, and Habitat Work

Understanding Illegal Wildlife Trade of Jaguar Parts

Understanding the Impact of Elephant Endotheliotropic Herpesvirus in African Elephants

Wintering Habitat Use Patterns of Tufted Puffins

SAN FRANCISCO ZOOLOGICAL GARDENS

Education

Adult Volunteer Program

Conservation Lecture Series

Docent Program

Early Childhood - Young Zoologist Series, Little Learners, and Animal Adventures

Earthwatch Field Programs

Paid Tours

Senior Stroll

Wildlife Illustration

Wildlife Theater

Youth Volunteers - Junior Zoologist

Youth Volunteers - Nature Trail

Youth Volunteers - Talk on the Wild Side

Youth Volunteers - Zoo Crew

Youth Volunteers - Zoo Teaching Assistant

Zoo Camp

ZooMobile: Close Encounters and Biodiversity Basics

Field Conservation

Asociación Panameric

AZA Komodo Dragon SSP

AZA SAFE - Vaquita Project

AZA SAFE - Western Pond Turtle Project

AZA SAFE - African Penguin

Charles Darwin Foundation

Earthwatch Institute

Fauna and Flora International (FFI) - François' Langur

Gorongosa Lion Project

Jane Goodall Institute

Lake Merced Restoration and Conservation

Madagascar Fauna and Flora Group (MFG)

Mountain Lake Restoration/Zoo Crew

Mountain Yellow-Legged Frog Conservation Program

National Network for Ocean Climate Change Interpretation (NNOCCI) - Climate Change Interpretation Trainings

Red Panda Network (RPN)

Reintroduction of Western Pond Turtle to Golden Gate National Recreation Area

San Francisco Forktail Damselfly Project

SANNCOB

Snow Leopard Conservancy (SLC)

Yosemite National Park Conservation Partnership

Yosemite Toad Rearing

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Alternative Transportation Benefits for Staff

Alternative Transportation Discounts for Guests

Commingled Recycling

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green IT

Procured Local Food for On-Site Animals and/or Guest

Waterwise Landscaping

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

Research

Behavioral Assessment of Quality of Life in Aging Zoo Animals

Describing Anticipatory Behavior

Sequoia Kings Canyon Yellow-Legged Frog Headstart Project

Species Identification of Western Pond Turtle SSP Program Animals Through Genetic Analysis

Testing the Effectiveness of Headstarting as Part of a Conservation Toolbox to Restore the Sierra Nevada Yellow-Legged Frogs (*Rana sierrae*) to the Lake Tahoe Basin

ZooMonitor

SANTA ANA ZOO

Green Practices

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Alternative Transportation Benefits for Staff

Building Energy Management

Commingled Recycling

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Graywater Reuse and/or Rainwater Harvesting

Procured Local Food for On-Site Animals and/or Guest

Stormwater Management Program

Wastewater Reduction

Waterwise Landscaping

SANTA BARBARA ZOOLOGICAL GARDENS

Education

Barnyard Feeding

Condor Kids

Homeschool Science

School Science Night Outreach

Zoo Safaris

Field Conservation

2nd International Wildlife Reintroduction Conference

Amphibians of the Los Padres National Forest

AZA SAFE - African Vulture

AZA SAFE - Vaquita

Bitter Creek National Wildlife Refuge

Black-Footed Ferret Reintroduction

California Condor Conservation Program

California Red-Legged Frog Translocation in Santa Monica

Mountains

Channel Islands Fox Conservation Program

ECO-CELL

Hornbill Research Foundation (HRF)

International Elephant Foundation (IEF)

Local Watershed and Ocean Cleanups

Marine Sampling

Naval Base Ventura County Southwest Pond Turtle

Monitoring Program

Oiled Wildlife Care Network (OWCN)

San Nicolas Island Restoration

Snow Leopard Trust (SLT)

Southern Sea Otters in the Santa Barbara Channel

The Ocean Project

The Xerces Society - Western Monarch Thanksgiving Count

Virunga National Park Fallen Rangers Fund

Western Snowy Plover Rearing Project

Wildlife Trafficking Alliance

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Discounts for Guests

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Generated Solar or Wind Energy

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Stormwater Management Program

Water Submetering

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WATER

Documented Amount Spent

Documented Amount Used

Research

Assessment of the Vitamin D and Calcium Physiology in Asian Elephants

SEA LIFE CARLSBAD AQUARIUM AT LEGOLAND

Education

Daily Talks and Feeds

Guest Interaction Staff

School Programs

Shark Identification Sheet

Shark Station

Sustainable Seafood Card

Field Conservation

Beach Cleanups

Green Practices

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Denitrification Systems On Ground

Diverted or Recycled Construction Waste

Procured Local Food for On-Site Animals and/or Guest

Wastewater Reduction

Waterwise Landscaping

Research

Cephalopod Welfare Group

Coccidia Reduction With Copper Wire Treatments for Cownose Stingrays

SEAWORLD SAN DIEGO

Field Conservation

Acoustic Monitoring of Penguins in the Social-Ecological Systems of Tierra del Fuego

Alaska SeaLife Center - Response and Post-Release Monitoring of Stranded Marine Mammals in Alaska

Assessing Health and Population Status of Bottlenose Dolphins Off Southern California

Diets of Walruses in Bristol Bay Alaska

Hubbs-SeaWorld Research Institute

Is She Eating for Two: Validating a Non-Invasive, Early Pregnancy Detection Tool in Fecal Samples of the Endangered Steller Sea Lions (*Eumetopias jubatus*) Marine Debris Survey at a Sea Turtle Nesting Beach

Ocean Connectors

Project Wildlife

Promoting Wild Wolf Recovery in California & the Southwest

Rising Tide Conservation

SeaWorld San Diego Animal Rescue, Rehabilitation, and Release

Southern California Native Bird Crisis Response, Rescue, and Rehabilitation

The Ecology, Population Dynamics, and Status of Polar Bears (*Ursus maritimus*) in Relation to Environmental Change

The Hidden Lives of Emperor Penguins: Cameras and Movement Loggers Provide Insight Into Foraging of an Antarctic Icon

Upscaling Coral Larval Culture in the Bahamas for Reef Restoration

Wildlife Rescue and Conservation Association (ARCAS)

SEQUOIA PARK ZOO

Education

Cub Club: Fur, Feathers, & Scales

Cub Club: Growing Up Wild

Junior Zookeepers: If I Ran the Zoo

Junior Zookeepers: ZSI Junior Zookeepers: ZSI

Nature Exchange

President's Week Camp

Spring Camp

Stories & Stuffies

Stormwater Pollution Prevention

Thanksgiving Camp

Winter Camp

ZooSnooze

Field Conservation

AZA Chacoan Peccary SSP

Cotton-Topped Tamarin Project

Improving Estimates of Shorebird Abundance on Humboldt Bay

Monitoring Disease Threats for the Reintroduction of the Endangered Iberian Lynx in Extremadura Oregon Silverspot Butterfly Pilot Rearing Lab for Population Supplementation

Porcupine Habitat Selection Northern California Project

Recolonization of Coho Salmon on the Klamath River Above the Iron Gate Dam

Red Panda Network (RPN)

Save the Giants - Giant Otters

Temporal Roost Selection and Strategy of Hoary Bats

Tropical Research and Conservation Centre - Primate Inventory

Vaquita Monitoring and Habitat Protection

Green Practices

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting (On-Site or Off-Site)

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Stormwater Management Program

Research

Assessing the Impact of a Native Landscape Conversion on the Local Bird Community at the Sequoia Park Zoo

Presence of Amdoparvovirus in the Red Panda SSP Population

Red Panda Mucoid Stool Survey

Species Identification of Western Pond Turtle SSP Program Animals Through Genetic Analysis

STEINHART AQUARIUM

Education

3D Theater

Careers in Science Interns

Citizen Science

Curiosity Grove

Distance Learning

Family Programs

Hohfeld Hall

Lectures

Morrison Planetarium

NightLife Programs

Online Education Resources

Out of State and International Student or Youth Field Trips

Portable Planetarium Dome

Public Floor Presentations

Public Programs Volunteer Engagements

Public Programs Volunteer Trainings

Science Action Club

Self-Guided Student Fieldtrips

Teacher Professional Development

Teen Advocates for Science Communication (TASC)

Teen Science Night

The Naturalist Center

The Rock Program Student Fieldtrips

Tidepool

Field Conservation

Aquarium Conservation Partnership (ACP)

AZA Conservation Grants Fund (CGF)

AZA SAFE - African Penguins

AZA SAFE - Atlantic Acropora Corals

Center for Research and Outreach on Amphibian Conservation (CROAC)

Coral Conservation: Florida

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Reef Check California

SExual COral REproduction (SECORE)

Southern African Foundation for the Conservation of Coastal Birds (SANCCOB)

Turtle Survival Alliance (TSA)

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

Purchased Renewable Energy

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified by the Green Restaurant Association

One or More Buildings LEED-Certified by the US Green Building Council

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Alternative Transportation Discounts for Guests

Building Energy Management

Commingled Recycling

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Energy Submetering

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Green IT

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Purchased Green Power or Renewable Energy Credits (RECs)

Smart Building Strategies

Stormwater Management Program

Wastewater Reduction

Water Submetering

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Used

Research

Characterization of the Holobiome of Bat Stars (*Asterina miniata*)

Coral Spawning Lab

Disease Processes in Temperate Marine Fishes

Exploring the Least-Known Coral Reefs: Mesophotic Coral Ecosystem, the "Twilight Zone"

Fluorescence and Color Vision in Deep Reef Fishes

Marine Mammal Taxonomic Collections

New Species from Mesophotic Coral Ecosystems

Oversight of Outside Research Requests by Aquarium Research Committee

Reproductive Biology of Seadragons

The Benthic Ctenophore Lyrocteis imperatoris

The SubCAS: A Portable, Submersible Decompression Chamber for Mesophotic Coral Reef Fishes

THE LIVING DESERT ZOO AND GARDENS

Education

Living Desert University

Me & You at the Zoo

NAI Certification Programs

School Field Trips

Starry Safari

STEM Programs Scouts & Home School

Teacher/Volunteer and Community Workshops

Zoo Camp

Zoo Teen Volunteer Program

Field Conservation

Action for Cheetahs in Kenya's Ongoing Research Programs

African Wild Dog Rescue

Black Mamba Anti-Poaching Unit

Bush Babies Environmental Education Program

Capacity Building for Conservation Science in India

Casey's June Beetle Population Surveys

Celebrating Africa's Giants: Environmental Education for Conservation of Giraffes, Elephants, and Rhinoceroses

Cheetah Conservation Botswana

Cheetah Conservation Fund (CCF)

Desert Pupfish Ex-Situ Refugia Management

Desert Tortoise Adoption Program

Desert Tortoise Conservation Education Program

Mexican Wolf Recovery Program

Mojave River Pond Turtle Conservation Assessment

Native Plant Propagation Project for Restoration in California's Deserts

Peninsular Pronghorn Recovery Program

Rebuilding the Pride

Reintroducing Endangered Antelopes in the Sahara

Sahara Conservation Fund (SCF)

Save the Vaquita Porpoise

SnapShot Safari at Kenya's Olare Orok Conservancy

Species Conservation Toolkit Initiative

The Living Desert's Wildlife Rehabilitation Program

Winter Radio Tracking for Mojave River Western Pond Turtles

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Energy Submetering

Generated Solar or Wind Energy

Water Submetering

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

Research

Access Closure and Local Species Conservation Study

Black Mamba Anti-Poaching Unit Impact Assessment Study

The Conservation Status of the Southern Western Pond Turtle in the Mojave River in the Mojave Desert

TURTLE CONSERVANCY

Field Conservation

Aldabra Giant Tortoise Re-Wilding

Bolson Tortoise

Geometric Tortoise Critical Habitat Preservation

Northern Diamondback Terrapin Nesting Project

Philippine Forest Turtle

Ploughshare Tortoise

Radiated Tortoise Confiscation - Madagascar

Trade Interdiction

Colorado

BUTTERFLY PAVILION

Field Conservation

Bees for Elephants

Colorado Butterfly Monitoring Network

Dragonfly Captive Breeding for Conservation

Dragonfly Conservation Program

Firefly Conservation

Parnassian Butterfly Conservation in Mongolia

Pollinator Highway

Senior Habitat Gardening

Urban Prairies Project

Green Practices

ENERGY

Documented Amount Used

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Green Building Policy/Commitment

Green Purchasing Policy/Green Procurement

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Used

Research

Dragonfly Citizen Science

Grammostola rosea Safety Web for Arthropod Reproduction and Management (SWARM)

Impacts of Coastal Dune Restoration on Insect Communities

Invertebrate Survey of Mongolia's Ikh Nart Nature Reserve: An Assessment of Biodiversity

Tarantula Growth Study

CHEYENNE MOUNTAIN ZOO

Field Conservation

African Vulture Conservation

AZA SAFE

Black-Footed Ferret Recovery Program

EWASO Lions

Giraffe Conservation Foundation (GCF)

Mountain Tapir Habitat Ecology in Ecuador

Okapi Conservation Project

Palm Oil Crisis and Orangutan Conservation

Panama Amphibian Rescue and Conservation (PARC)

Pollinator Gardens in Local Schools

Radiated Tortoise Conservation

Saola Working Group

Snow Leopard Trust

Tsavo Trust: African Elephant and Black Rhino Conservation in Kenya

Wyoming Toad Recovery

Research

Giraffe Thermography: Assisted Lameness Management

Giraffe: Blood Gas and Lactate Monitoring During Field Immobilizations of Wild Rothschild's Giraffe

Giraffe: Comparing Foot Shape and Health in Zoos and in the Wild

Giraffe: Utilizing Banked Plasma to Reduce Giraffe Calf Mortality in United States' Zoos

Wyoming Toad Vitamin A Level Monitoring With Different Vitamin Supplement

COLORADO WOLF & WILDLIFE CENTER

Field Conservation

Wildlife Trafficking Alliance

Green Practices

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Diverted or Recycled Construction Waste

Green Purchasing Policy/Green Procurement

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

Specified a Portion of the Amount Saved for Next Year's Green Practices

Research

PRP/ESWT

DENVER ZOO

Education

Adult Volunteers

Advanced Inquiry Program (AIP)

Animal Academy

ASK Me's

Assemblies

Awareness Days

Be a Zookeeper Zone

Booths

Bunks

Camps and Mini-Camps

Community Leadership Programs and Service-Learning Programs

Docent Volunteer Training

Explore the Shore

General Meetings

Giraffe Viewing Platform

Guest Assistance Ambassadors

Guide Stations & Exhibit Interpreter - Adult and Teen Led

Guide Volunteer Training

Middle and High School Programs

Mini-Classes

Multi-Contact Outreach Programs

New Volunteer Training

Nurturing Scientists Through Nature Play

Outreach Afterschool and Enrichment

Scout Night

Secret Science Days

Senior Safaris

Shows and Demos (Tier 1 & 2)

Tours

Up-Close Animal Encounters

Urban Advantage Family Science Events

Urban Advantage Field Trips

Urban Advantage Teacher Professional Development

Veterans Tours

Volunteer Scoop Electronic Newsletter

Young Scientists

Zoo Ed-Venture Treks

Zoo Ed-Ventures

Field Conservation

AZA Tiger SSP - Tiger Conservation Campaign

Black-Footed Cat Working Group

Boreal Toad Breeding, Inventory Surveys, and Habitat

Restoration

Botswana Prey Survey

Botswana Raptor Project

Botswana Vet Assistance

Botswana Wild Dog Ecology Research

Citizen Science: Pika Monitoring Program in Colorado's Front

Range

Conservation Education and Outreach in Botswana

Denver Zoo Field Conservation Department

Denver Zoo Research Associate

Denver Zoological Foundation Conservation Award

Developing a Model for Local Management of Protected

Areas in Mongolia

Ecological Restoration of Arroyos and Head Cuts

Ecology and Conservation of Mongolian Ungulates

Ecology and Social Behavior of Gunnison's Prairie Dogs

Effects of Bison on Plant and Animal Communities in the

Southern Great Plains

Fishing Cat Fund

Flat-Tailed Horned Lizard Biomonitoring Training

General Botswana Conservation Project Support

General Botswana Program Support

General Conservation Program Support at the Rio Mora

National Wildlife Refuge

General Mongolia Program Support

General Peru Conservation Program Support

General Rocky Mountain/Great Plains Program Support

General Vietnam Program Support

Graduate Student Fellowships

Great Lakes Piping Plover Recovery Effort - Northern

Michigan

Ibex Ecology and Conservation

IdeaWild

Ikh Nart is Our Future Women's Cooperative in Mongolia

Ikh Nart Nature Reserve Vegetation Map

International Elephant Foundation (IEF)

International Rhino Foundation (IRF)

Kea Conservation Trust

Lake Titicaca Research and Conservation

Malagasy Radiated Tortoise Rescue Emergency

Mariana Avifauna Conservation (MAC) Project

Mongolia Education and Outreach Program

Mongolian Gazelle Conservation

Mongolian Raptors Project

Mongolian Reptile Ecology Research

Nomadic Nature Conservation

Peru Community Engagement

Polar Bears International (PBI)

Restoring the Mora River

Rio Mora Conservation Outreach

Rio Mora Vegetative Restoration

Rocky Mountain Wild

Save Vietnam's Wildlife

Seafood Watch - Conservation Outreach Partner

Snow Leopard Conservancy

Southern African Foundation for the Conservation of Coastal Birds (SANCCOB)

Springbok of the Kalahari

Tonkin Snub-Nosed Monkey Conservation Education

Tonkin Snub-Nosed Monkey Conservation in Vietnam

Untapped: Women in Conservation

Veterinary Support for Field Conservation Projects in Mongolia

Vietnam Gibbons: Rehab, Return, Conservation, and CET

Wildlife Corridors Programs

Zoos and Aquariums Committing to Conservation (ZACC) – Support

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Purchased Renewable Energy

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

GREEN CERTIFICATIONS

Certified Under ISO 14001

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Alternative Transportation Benefits for Staff

Alternative Transportation Discounts for Guests

Building Energy Management

Community Supported Agriculture (CSA) Program for Staff

Green IT

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Stormwater Management Program

Used Enterprise (IT) Solutions to Track and Measure Sustainability Performance

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

Specified a Portion of the Amount Saved for Next Year's Green Practices

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

Research

2017-007 Assessing the Efficacy of Improvest® in Female Giraffe

2017-009 Development of a Genome Resource Bank and Transcervical Insemination for the Genetic Management of Tigers

2017-011 Comparing the Physiologic Effects of Two Ultra-Potent Opioid Anesthesia Protocols in Non-Domestic Equids

2017-016 Prevalence, Risk Factors, and Survival of Zoo Animals With Cancer

2017-019 Characterizing the Diversity of Milk Composition Among Mammals

2017-021 Longitudinal Assessment of Gorilla (*Gorilla gorilla gorilla*) Fecal Microbiome Populations

2018-008 Effects of Socialization on Behavioral, Physiologic, and Reproductive Parameters of Bull Asian Elephants

2018-014 Analysis of Microhabitat Choice and Social Dynamics in Captive California Sea Lions

2018-015 Validation of Immunological Tools in African Buffalo

2018-018 Evolution of Antiviral Factors Among Carnivora Species

2018-020 Comparative Tissue Specific Gene Expression in the Giraffe, Okapi, Cow, Sheep, and Goat

2018-022 Geriatric Elephant Survey

Asian Elephant Female Reproductive Tract Neoplasia Review

Assessment of Fecal Hormone Metabolites for Monitoring Reproductive Activity in Captive Female Aye-Aye (*Daubentonia madagascariensis*)

Comparison of Circulating Vitamin D (250HD) in Captive North American and Free-Ranging South African Black Rhinoceros (*Diceros bicornis* spp.)

Constraints of Biomass on Innate Immunity Across Terrestrial Mammals

Development of a Database of Fetal Ultrasound

Measurements for the Creation of Orangutan-Specific

(Pongo spp.) Growth Curves and Determination of

Parturition Dates

Drinking Water Quality and Water Husbandry in Association of Zoo and Aquarium (AZA) Zoos

Evaluation of Abnormal Molting in Captive African Penguins (Spheniscus demersus)

Genetic and Endocrine Predictors of Reproductive Success in African Painted Dogs

Investigating Mangshan Pit Viper Habitat Preference and Nocturnal Time Budget for Improved Quality of Life and Future Breeding Success

Investigation Into Potential Nepal Viper (Ovophis monticola)
Parthenogenesis

Probable Enalapril Hepatotoxicityin a 15 Year Old Male Western Lowland Gorilla (*Gorilla gorilla gorilla*)

Red Panda Amdoparvovirus (RpAPV)

Survey of AZA Zoo and Aquarium Participation in Bio-Materials Related Research With External Investigators

LANDRY'S DOWNTOWN AQUARIUM - DENVER

Field Conservation

Birds of Prey Foundation

Fins Attached

Owl's Nest Rescue and Rehabilitation

Rocky Mountain Raptor Center

SECORE (SExual COral REproduction)

Wildlife Alliance

PUEBLO ZOO

Field Conservation

AZA SAFE - African Penguin Nest Box Project

Painted Dog Conservation (PDC)

Red Panda Network (RPN)

Southern African Foundation for the Conservation of Coastal Birds (SANCCOB)

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

Connecticut

CONNECTICUT'S BEARDSLEY ZOO

Education

Scout Overnights

Field Conservation

AZA Tiger SSP - Tiger Conservation Campaign - Anti-Poaching Activities

Conservation Discovery Corps - Invasive Plant Removal

Eastern Pearl Shell Mussel Population Monitoring

Piping Plover Monitoring

Trout in the Classroom

Turtle Survival Alliance (TSA)

MARITIME AQUARIUM AT NORWALK

Field Conservation

Alewife Monitoring

AZA FrogWatch USA

Barrens Topminnow Conservation

Long Island Sound Biodiversity Project

Osprey Nation

Project Horseshoe

Sand Tiger Shark Conservation

Sea Turtle Conservation

Trout in the Classroom

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Building Energy Management

Community-Based Sustainability Projects

Generated Solar or Wind Energy

Procured Local Food for On-Site Animals and/or Guest

Smart Building Strategies

Wastewater Reduction

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WATER

Documented Amount Spent

Documented Amount Used

Research

Aquaculture Gear as Finfish Habitat

Effects of Climate Change Conditions on Animals:

Freshwater

Effects of Climate Change Conditions on Animals: Marine

Invasive Species Monitoring

Local Climate Monitoring

Ocean Soundscapes

Phytoplankton Monitoring Network

Protecting Water Quality

MYSTIC AQUARIUM

Education

Autism Night

Birthday Parties

Career & STEM Days

Citizen Science

Classroom Programs

Coastal Field Studies

Conservation Club

Conservation Events

Distance Learning

Family Engagement Events

Internships & Seminars

Outreach Programs

Overnights

School/Youth Group Exhibit Talks & Animal Interactions

Sea School Preschool

STEM Mentoring

Summer Camps

Teacher E-Newsletter

Teacher Workshops/Events

Youth Organization Events

Field Conservation

Amphibian Monitoring

Behavioral Ecology of Piscivores at Gray's Reef National Marine Sanctuary

Coastal Marine Debris Removal Events

Detection of Influenza A Viruses From Seals Stranded in the Northeastern United States

Ecology of Piscivores at Isla del Coco National Park, Costa Rica

Habitat Restoration of Dodge Paddock and Beal Preserve

Health Assessment of Belugas in the Chukchi Sea and Bristol Bay

Horseshoe Crab Monitoring

Long Island Sound Coastal Field Studies

Rescue and Rehabilitation of Stranded Marine Mammals and Sea Turtles Along the Connecticut and Rhode Island Shorelines Southern African Foundation for the Conservation of Coastal Birds (SANCCOB) - Assisting With the African Penguin Chick Bolstering Project in South Africa

Green Practices

ENERGY

Documented Amount Used

FUEL

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Green IT

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Research

A Framework for the Selection of Marine Aquarium Fishes to Target for Aquaculture and Sustainable Species Selection

Assay for Illegally Caught Coral Reef Fishes Using Cyanide Poison

Assessing the Role of Marine Protected Areas for Conservation of Biological Diversity and Sustainable Use

Determination of a Suitable Dilution Marker in Blow

Discovering the U.S. Marine Aquarium Industry

Effect of Therapeutic Laser as a Multi-Modal Approach to Treatment of Dermal Abrasions in the Cownose Ray (*Rhinoptera bonasus*)

Etiological Study of Molt Abnormalities in the African Penguin (*Spheniscus demersus*)

Evaluating the Use of Blow for Reproductive Hormone and Genetic Analysis in Belugas (*Delphinapterus leucas*)

Evaluation of Non-Lethal Effects of Nitrogen Gas (N2) Bubbles on Marine Mammal Immune Function and Complement Activation

Further Investigation of Blow or Exhaled Breath Condensate as a Non-Invasive Tool to Monitor the Physiological Response to Stressors in Cetaceans

Investigation of the Marine Mammal Immune System and Impacts of Stress on Health

Investigation of the Molecular Response of Belugas to "Stressors" to Aid in Assessing the Impact of Environmental and Anthropogenic Challenges on Health

Investigation of the Use of Biochemical Markers for Cardiac Disease in Marine Mammals

Measurement of Cortisol in the Blood, Blow, Saliva, and Feces of Beluga Whales

Molecular Biomarkers of Immune System Health in Beluga Blowhole

Monitoring of Health and Welfare in the Endangered African Penguin Through Fecal Glucocorticoid and Microbiome Analysis

Research and Development of Aquaculture Techniques for Marine Ornamental Fishes

Sustainable Sourcing of Aquatic Species for Mystic Aquarium

Delaware

BRANDYWINE ZOO

Education

Animal Shows and Informal Interpretation

Family Programs

Special Events

Traveling Zoo

Volunteer Program

Zoo Camp

Zoo School

Field Conservation

African Vulture SAFE

American Bird Conservancy

Andean Condor SSP

Delaware Kestrel Project

Delaware Wildlife Rehabilitators Association

Kaminando

Paso Pacífico

Red Panda Network

Tri-State Bird Rescue

Urban Wildlife Monitoring Project

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Green Purchasing Policy/Green Procurement

Waterwise Landscaping

Research

American Kestrel Monitoring Project

AZA Contraceptive Management Center

Developing Genomic Tools for North American River Otter

Does Oxidative Stress Differ Between Mammals and Birds?

General Research Specimen Collection for Delaware Museum of Natural History

Red Panda Fecal Survey of Amdoparvovirus

Survey of AZA Zoo and Aquarium Participation in Bio-Materials Related Research With External Investigators

The Sweet Smell of Poop: Using Chromatography and Mass Spectrometry to Identify Species From Their Feces

Urban Wildlife Monitoring Projects

Florida

BREVARD ZOO

Field Conservation

AfricanBats NPC

AZA FrogWatch USA

AZA SAFE - Sea Turtles

Borneo Nature Foundation

Brevard Zoo's Sea Turtle Healing Center

Dominica Sperm Whale Project

Endangered Wildlife Trust

Florida Keys Wildlife Society

Florida Scrub Jay Translocations and Monitoring

Game Rangers International

GLOBE Citizen Science

Grevy's Zebra Trust

IUCN SSC Small Mammal Specialist Group (SMSG)

Landscape and Conservation Mentors Organization (LCMO)

Madagascar Wildlife Conservation

Marine Megafauna Foundation

Pan African Sanctuary Alliance (PASA)

Peace for Conservation

Perdido Key Beach Mouse Breeding Program

Restore Our Shores

Saola Working Group

Save the Frogs!

Save the Giants

Turtle Survival Alliance

VulPro

Whales of Guerrero/Oceanic Society

Wildtracks

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Discounts for Guests

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green IT

Procured Local Food for On-Site Animals and/or Guest

Smart Building Strategies

Stormwater Management Program

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Research

Behavioral Monitoring of Resident Animals at Brevard Zoo

The Paddle-Box Task

The Primate Gambling Task

BUSCH GARDENS TAMPA BAY

Field Conservation

Assessing the Threats to Painted Dogs in the Mid Zambezi Vallev

Cheetah Conservation Fund: Cheetah Reintroduction and Data Collection

Cheetah Outreach Trust-Livestock Guarding Dogs

Community-Driven Conservation of Kibale National Park, Uganda Conservation Education in Bohorok, North Sumatra

Conservation of Lions in Murchison Falls and Kidepo Valley National Parks

Emerging Wildlife Conservation Leaders

Evaluating the Reintroduction Success of Bornean Orangutans

Ewaso Lions

Grauer's Gorilla Conservation in the Eastern Democratic Republic of the Congo

Gunung Palung Orangutan Conservation Program (GPOCP) – Creating a Network of Informants to Fight Wildlife Crime in West Kalimantan

Imbewu Youth Wilderness Experiential Trails

International Rhino Foundation (IRF) - Black Rhino Conservation and Anti-Poaching, Zimbabwe

Maasai Giraffe Project

Mabula Ground Hornbill Project (MGHP)

Pantanal Giant Armadillo Project

Poisoning of Wildlife - Urgent Ranger Training Intervention Required

Primate Care Training Program

Protection of Grauer's Gorillas in Congo From Bushmeat Hunting

Providing Solutions for Human - Snake Conflicts and Protecting Threatened King Cobra Populations in the Eastern Ghats of India

Reducing Marine Debris, Increasing Environmental Stewardship

Reducing Threats to Wildlife in Malawi's Critical Habitats – Sustainable Livelihoods through Beekeeping Training

Rehabilitating Wildlife Poachers Into Alternative Professions

Ruaha Carnivore Project (RCP) - Building Capacity to Monitor Carnivores and Reduce Conflict in the Ruaha Landscape of Tanzania

Satellite Collars for Cheetah Re-Wilding and Data Collection

Saving Sumatran Tigers: Bukit Tigapuluh National Park Survey

Sowing the Seeds of Conservation: Kasese Wildlife Conservation Awareness Organization's Queen Elizabeth National Park Field Trip Project

Sumatran Orangutan Reintroduction at Jantho Nature Reserve, Indonesia

Supporting Recovery of the Asian Elephant Population in Prey Lang Forest, Cambodia Taking Flight

Tampa Bay Watch: The Great Bay Scallop Search

The Snares to Wares Initiative: Conserving Wildlife and Improving Human Livelihood via Artistic Employment

Training the Next Generation of African Conservation Educators

Wilderness Foundation Africa – Forever Wild Conservation Programme

Wildlife Alliance - Kouprey Express Environmental Education and Outreach

Youth Education for Carnivore Conservation

CENTRAL FLORIDA ZOO & BOTANICAL GARDENS

Education

Animal Encounters

Bat House Building Workshop

Central Florida Zoo After Dark - Nighttime Safaris

Community Outreaches

Cub Scout and Boy Scout Programs

Curriculum Programs

Florida Black Bear Awareness Program

Girl Scout Programs

Guided Tours

Homeschool Family Workshops

Homeschool ZOOventure Classes

Keeper for a Day and Family Zoo Keeper Experience

Night Hike

Preschool Programs

Storytime

Summer Camps

Wild Art & Wine

Zoo to You Programs

Field Conservation

Central Florida Zoo's Orianne Center for Indigo Conservation

Cheetah Conservation Fund (CCF)

Claxton Rattlesnake and Wildlife Festival

International Rhino Foundation (IRF)

Proyecto Tití

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Diverted or Recycled Construction Waste

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

Research

An Investigation Into Melanism in the Captive Amur Leopard (*Panthera pardus orientalis*) Population

Reintroductions and Translocations

Serval Reproductive Physiology

DISCOVERY COVE

Field Conservation

Rising Tide Conservation

DISNEY'S ANIMAL KINGDOM

Education

A Path Less Traveled - Disney's Animal Kingdom 20th Anniversary

Backstage Safari

Backstage Tales

Behind the Seeds Tour

Behind-The-Scenes at Disney's Animal Kingdom Complimentary Tours

Caring for Giants

Community Hospital Program

Conservation Day Camp - Summer

DAK Youth Education Series (YES) Programs

DAKL Onstage Guest Activities

Dine With an Animal Specialist

Earth Day at Disneyland Resort

Earth Day at Disney's Animal Kingdom

Elephants and Bees: Reducing Human-Elephant Conflict in Kenya

Epcot Flower and Garden Festival Themed Weekends

Gorilla Rehabilitation & Conservation Education Center (GRACE)

Meet a Sea Turtle Specialist at Disney's Vero Beach Resort

Proyecto Tití: Conservation of the Cotton-Top Tamarin in Colombia

Purple Martin Palooza

Sea Turtle Night Walks

Sense of Africa

Starlight Safari

Tour de Turtles

Up Close With Rhinos

Wanyama Safari

Wild Africa Trek and Savor the Savanna

Wilderness Explorers

Field Conservation

Anteaters and Highways

Archie Carr National Wildlife Refuge - Education Program

Assessing Threats in the Mid-Zambezi

Association of Zoological Horticulture (AZH) - Plant Conservation Grant Program

Audubon Canyon Ranch - Mountain Lion Project

AZA Guam Rail SSP - Pre-Release Quarantine Program

AZA SAFE - Saving Animals From Extinction

Backyard Bat Survey

Backyard Conservation of Tasman Parakeets

Black Lion Tamarin Conservation in a Fragmented Landscape

Blue Iguana Recovery Achieves Sustainability

Bring Back the King

Bring Back the Pollinators Campaign

Building Communities That Conserve Wetlands

Butterfly Conservation in Greater Yellowstone

California Condor Nest Guarding Program

Collaborative Conservation of Endangered Vertebrates

Community Based Vulture Conservation

Community Conservation for Spectacled Bears

Community Education for Carnivore Conservation

Community Field Conservation Training Initiative

Community Forest Restoration and Conservation in the United States

Community Support for Okapi Conservation

Community-Based Conservation of River Turtles

Connect to Protect - Reverse the Decline of Butterflies

Connect to Protect - Reverse the Decline of Cranes

Connect to Protect - Reverse the Decline of Elephants

Connect to Protect - Reverse the Decline of Great Apes

Connect to Protect - Reverse the Decline of Monkeys (Cotton-Top Tamarins)

Connect to Protect - Reverse the Decline of Monkeys (Golden Lion Tamarins)

Connect to Protect - Reverse the Decline of Rhinos

Connect to Protect - Reverse the Decline of Tigers

Connecting Songbird Conservation Across Hemispheres

Conservation Hero Award: Cheetah Conservation Botswana Community Outreach Team

Conservation Hero Award: Gorilla Rehabilitation and Conservation Education (GRACE) Center

Conservation Hero Award: Heracleo "Laqui" Duarte Lopez

Conservation Hero Award: Ibnu Andrian

Conservation Hero Award: Kris Inman

Conservation Hero Award: Maria Njamba

Conservation Hero Award: Neovitus Sianga

Conservation Hero Award: Pablo Bordino

Conservation Hero Award: Serge Jacob Meye and the MINFOF Ecogardes Patrol Team

Conservation Hero Award: Sumadi Hasmaran

Conservation Hero Award: Tashi Ghale

Conservation Hero Award: Tasrif Kartawijaya

Conservation Hero Award: Tri Kurnia

Conservation of Fijian Iguanas

Conservation of Sumatran Elephants

Conservation Planning Specialist Group (CPSG) Support

Conserving Breeding Shearwaters in Oahu

Conserving India's Lion-Tailed Macaques

Conserving Jaguars in Southern Belize

Conserving Jamaica's Rock Iguana

Conserving Rhinos Through Community Engagement

Conserving Southwest Florida's Coastal Wildlife Corridor

Conserving the Cao Vit Gibbon

Conserving the Pygmy Sloth

Conserving Vultures Through Community Ambassadors

CRAYARC

Creating Conservation Champions, Madagascar

Dian Fossey Gorilla Fund International - Support and Board Member

Disney Conservation Focused Labor

Disney's Wildlife Monitoring Program

Drone Monitoring of Grevy's Zebra Habitat

Eastern Caribbean Offshore Islands Network

Empowering Communities to Conserve Large Carnivores

Endangered Hawaiian Yellow-Faced Bee Conservation

Engaging Herders in Vulture Conservation

Enhancing Human-Elephant Coexistence in Ruaha-Rungwa

Ensuring Right of Passage

Expanding Critical Habitat Conservation: Vietnam

Full Lifecycle Conservation - Semipalmated Sandpiper

Future Farmers of Africa

Gopher Tortoise Conservation Program

Gorilla Rehabilitation and Conservation Education (GRACE)
Center

Grassroots Conservation of Rare Turtles in Metro-Boston

Grauer's Gorilla Conservation Through Education

Guatemalan Endangered Reptile Awareness Program

Hahamongna to Tujunga Wildlife Corridor

Indian Turtle Conservation Program

Innovative Community-Based Predator Protection Program Saving African Lions

Integrated Gorilla and Human Health

International Emergency Relief Network and Response Fund

International Iguana Foundation (IIF) - Support and Board Member

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Jane Goodall Institute - Roots and Shoots Global

Javan Loris Community Conservation Project

Jay Watch: Citizen Science Program

Jersey Shore Terrapin Conservation Project

Kibale Forest Schools Conservation Project

Kiwikiu Habitat Restoration and Re-Introduction

Landscape Level Bird Habitat Conservation

Least Tern and Shorebird Conservation

Long-Term Monitoring Program and Experimental Training for Students (LiMPETS) Program

Tor Students (LIMPETS) Program

Lowland Tapir Conservation Initiative - Pantanal Tapir Program

Mabula Ground Hornbill Project (MGHP)

Mariana Avifauna Conservation (MAC) Project

National Wildlife Federation (NWF) - Kids and Families

Outreach - Be Out There

Northern Jaguar Project - Viviendo con Felinos

Northern Tanzania Big Cats Conservation Initiative

Of Bats and Men

Okapi Conservation Project (WCGI)

Orangutan Protection Through Community Development

Orangutan Research, Education, and Conservation

Pacific Island Avifauna Health Assessment

Pantanal Giant Armadillo Project

Penguins, People, and the Planet

Pickersgill's Reed Frog: Wetland Custodian

Primate Conservation Project Peninsular Malaysia

Project Safe Flight Atlanta

Project Wildcat

Promoting Coexistence to Safeguard Wildlife

Protecting Mongolia's Endangered Snow Leopard

Purple Martin Migration and Nesting Research

Rare Plant Restoration and Research

Restoring the Pygmy Hog

Rewilding Australia With Tasmanian Devils

Rhino Management in Zimbabwe's Lowveld

Sandhill Habitat Restoration

Sarus Cranes, Wetlands, and Dipterocarp Forest

Save the Elephants - Elephants and Bees

Saving Maine's Migratory Seabirds

Saving the Critically Endangered Hirola

Saving the Ploughshares From Extinction

Saving the World's Rarest Duck

Saving Wildlife: African Apes

Saving Wildlife: Conservation and Recovery of At-Risk

Butterflies

Saving Wildlife: Developing a Strategy to Reverse the Decline

of the Critically Endangered Sumatran Rhinoceros

Saving Wildlife: Monkeys (Expanding Outreach for Proyecto

Tití)

Saving Wildlife: Monkeys (Golden Lion Tamarin Integrated

Conservation)

Saving Wildlife: Recovery Program for Siberian Cranes

Saving Wildlife: Reversing the Decline of the Critically

Endangered Sumatran Tiger

Saving Wildlife: Saving Africa's Elephants

Smorgasbords in the Agroforestry Canopy

Taking Root and Spreading Wings

Tasmania Island Ark Bushrangers

Thames European Eel Conservation Project

Towards Black-Capped Petrel Conservation

Transforming Indonesia's Forest Management Paradigm

Turtle Survival Alliance (TSA)

Umbrella Bird Conservation in the Chocó, Colombia

Urban Oasis for Migrating Songbirds

Vocal Culture of Hawaiian Crow

Wildlife Rehabilitation Center of Central Florida Support

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

Purchased Renewable Energy

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Alternative Transportation Benefits for Staff

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Completed Greenhouse Gas Inventory

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Energy Submetering

Generated Energy through Anaerobic Digester

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Purchased Carbon Offset(s) for On-Site Utility Use

Purchased Green Power or Renewable Energy Credits (RECs)

Smart Building Strategies

Stormwater Management Program

Used Enterprise (IT) Solutions to Track and Measure

Sustainability Performance

Used Environmental Management System

Waterwise Landscaping

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

Specified a Portion of the Amount Saved for Next Year's

Green Practices

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Research

- A Comparison of the Fecal Microbial Community and Metabolites From Southern Black Rhinoceros (*Diceros bicornis minor*) and Southern White Rhinoceros (*Ceratotherium simum simum*)
- Agonistic Behavior in an All-Male Group of Nile Crocodiles (Crocodylus niloticus)
- Assessing Animal Visibility as a Tool for Enhancing Guest Satisfaction at the Pangani, Tree of Life, Maharajah Trek, Safari Attractions
- Assessing Thermoregulation and Agonistic Behaviors in an All Male Colony of Malayan Flying Fox and Rodrigues Fruit Bats
- Assessing Welfare of Northern Carmine Bee-Eaters (*Merops nubicus*) During the Transition From Disney's Animal Kingdom's Avian Research Center to Africa Aviary
- Assessment of Dietary Vitamin E Supplementation in Black and White Rhinoceros
- Assessment of Dietary Vitamin E Supplementation in Elephants
- Captive Management, Stress, and Reproduction in the Guam Kingfisher
- Casting a Wider Net: An Analysis of Scholarly Contributions of Behavior Analysis Graduate Program Faculty
- Disney's Animal Kingdom® Research Focused Labor
- Effects of Increased Hay-To-Grain Ratio on Behavior,
 Metabolic Health Measures, and Fecal Bacterial
 Communities in Four Masai Giraffe (*Giraffa camelopardalis tippelskirchi*) at Cleveland Metroparks Zoo
- Elephants and Bees: Reducing Human-Elephant Conflict in Kenya
- Expansion and Animal Monitoring Initiative
- Gopher Tortoise Management and Conservation
- Hybridization Within the North American Population of Wildebeest (*Connochaetes taurinus*)

- In-House Monitoring of Steroid Hormone Metabolites in Urine Informs Breeding Management of a Giant Anteater (Myrmechophaga tridactyla)
- Investigating Decision-Making and Perception in Box Turtles
- Investigation of Parental Investment and Genetic Relatedness of Carmine Bee-Eaters
- Latitudinal Comparisons of Nesting and Migratory Ecology of a Long-Distance Migrant the Purple Martin
- Management of Iron Overload in the Black Rhinoceros (*Diceros bicornis*) Using an Oral Iron Chelator
- Method and Assay Validation for Ambassador Animals Study
- Monitoring and Controlling Ovarian Function in the Rhinoceros
- Ovarian Cycle and Pregnancy Monitoring of the Common Hippopotamus (*Hippopotamus amphibius*) Through Salivary Analyses and Trans-Abdominal Ultrasound
- Pilot Study: a Test of GonaCon™ Gonadotropin-Releasing Hormone (GnRH) Vaccine as an Effective Contraception Method in Zoo-Managed Hippopotamus
- Preliminary Feeding Trial of Atala Caterpillars (*Eumaeus atala*) on Standard Caterpillar Medium
- Prevalence and Methodology for Detection of *Rhabdias* spp. in Dart Frogs Including Risk Factors for Disease
- Reintroduction of the Mandrill: Stress Hormone Study
- Serum Osmolality in Captive African Elephants (*Loxodonta africana*)
- Ultrasound Characteristics and Hormone Values in Red Wolves (*Canis rufus*) With and Without Reproductive Disease
- Use of GNRH Agonists as Contraceptives in Male Lion Tailed Macaques (*Macaca silenus*)
- Use of Radio-Frequency Identification (RFID) Technology to Study the Reproductive Biology of an *Ex-Situ* Colony of Northern Carmine Bee-Eaters (*Merops nubicus*)
- Validating the Measurement of Oxytocin in Western Lowland Gorilla (*Gorilla gorilla gorilla*) Urine and Saliva Using a Commercially Available Enzyme Immunoassay
- Work-for-Food Enrichment Program Increases Exploration and Decreases Stereotypies in Four Species of Bears

JACKSONVILLE ZOO AND GARDENS

Field Conservation

Archbold - Crotalaria avonensis

Archbold - Hartwrightis floridana

Australian Rainforest Trust

Avian Research and Conservation Institute (ARCI) - Swallow-Tailed Kite Project

AZA Komodo Dragon SSP

AZA SAFE

Belize Foundation for Research and Environmental Education (BFREE)

Bok Tower Gardens - Clasping Warea

Bonobo and Congo Biodiversity Initiative (BCBI)

Chapman's Fringed Orchid

Cheetah Conservation Botswana

Giant Armadillo Project

Giraffe Conservation Foundation (GCF)

Gorilla Rehabilitation and Conservation Education (GRACE) Center

Grevy's Zebra Trust

Gulf Coast Waterdog Breeding Program

Indonesia Initiative

Institute for Regional Conservation

International Rhino Foundation (IRF)

Lowland Tapir Conservation Initiative

Madagascar Fauna and Flora Group (MFG)

Marine Mammal Rescue Program

Migratory Whooping Crane Temporary Winter Holding Refurbishment

Okapi Conservation Project

Pine Flatwood Restoration

Rupununi Region Jaguar Project

Southern African Foundation for the Conservation of Coastal Birds (SANCCOB) - African Penguin Rescue Campaign

Turtle Survival Alliance (TSA) - Turtle Survival Center

VulPro

Zoo Conservation Outreach Group (ZCOG) - Scholarship Program

LEMUR CONSERVATION FOUNDATION

Education

Ako Conservation Education Program

Open House

Field Conservation

Field Training Programs for Malagasy Conservationists

Lemur Conservation and Community Development in Northeastern Madagascar

Madagascar Fauna and Flora Group (MFG)

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting (On-Site or Off-Site)

Procured Local Food for On-Site Animals and/or Guest

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan

Research

Agonistic Grooming in Lemurs

Carnivore Camera Trapping in Anjanaharibe-Sud Special Reserve, Madagascar

Eastern Kentucky University Field School

Ontogeny of Lemur Chewing System

Silky Sifaka and Ruffed Lemur Survey in the Unprotected Maherivaratra Forest, Madagascar

The Effects of Range Size on Intestinal Parasite Richness and Intensity in Lemur Species

LION COUNTRY SAFARI

Education

An Animal Tale

Animal Adaptations II

Animal Adaptations II

Animal Senses

Animal Theater Shows

Backyard Florida General Scout Program

Bear: Critter Care

Bear: Fur, Feathers, and Ferns

Boy Scout Bird Study

Boy Scout Mammal Study

Brownie – Bugs Brownie – Pets Brownie – Senses

Brownie: Outdoor Adventurer
Brownies: Outdoor Art Explorer

Cadette - Animal Helpers
Cadette: Naturalist-Trees

Careers in Zoos Classification I Classification II

Conservation

Daisy - Three Cheers for Animals

Daisy: Between Earth and Sky

Dinosaurs
Ecology
Enrichment

Exhibit Talks

Food Chain

Fall Toddler Programs

Fur, Feathers, and Scales

Girl Scout General Program: Animal Helpers

Habitats II
Habitats III

Junior - Animal Habitats

Junior - Detectives

Junior: Naturalist - Flowers

LCSI Animal Mystery

Off-Property Community Events

Outreach Presentations

Party for the Planet

Premium Guest Experiences

Preserve Tour Materials

Rock On! Geology

Safari Day Camp

Safari Queen Boat Tour

Senior - Voice for Animals Species Appreciation Days

Spooky Safari Halloween

Tigers: Tigers in the Wild

Virtual Field Trips

Webelos: Earth Rocks
Webelos: Into the Wild

Webelos: Into the Woods Wolf: Digging in the Past Wolf: Paws on the Path

World Oceans Day

Field Conservation

American Association of Zoo Keepers - LCS Chapter

AZA SAFE - Eastern Indigo Snakes

AZA SAFE - Giraffe

AZA's Conservation Grants Fund (CGF)

Conservation Centers for Species Survival (C2S2)

Conservation Staff Salary

Giraffe Conservation Foundation (GCF) - Giraffe Painting/

Experience

Grevy's Zebra Trust

International Rhino Foundation (IRF)

Jane Goodall Institute

Lion Guardians

Lubee Bat Conservancy

Pan African Sanctuary Alliance (PASA)

Sloth Conservation Foundation

Source Population Alliance (SPA)

Turtle Survival Alliance

Wetlands Preservation/Restoration

World Parrot Trust

Green Practices

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Research

A Survey of the Prevalence and Perceived Efficacy of Biofloors in Great Ape Exhibits Within AZA Zoos

Allostatic Load in Chimpanzees as an Index of Welfare

Blackbuck Microchip Loss

Guest Retention of Conservation Messaging

Hepotic Neoplasia and Cirrhosis in Nile lechwe

Lion Behavioral Monitoring (Panthera leo)

Research Internship

Species and Sex Genetic Testing of Two-Toed Sloths

LUBEE BAT CONSERVANCY

Education

Annual Florida Bat Festival

General Lubee Bat Conservancy Educational Programming

Field Conservation

Mauritius Fruit Bat Cull

Rodrigues Environmental Education Project

Saving the Ontong Java Flying Fox (*Pteropus howensis*) of a Vanishing Pacific Atoll

Green Practices

ENERGY

Documented Amount Spent

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

WASTE

Documented Amount Recycled

MOTE MARINE LABORATORY & AQUARIUM

Field Conservation

Coral Reef Restoration, Monitoring, and Assessment Programs

Fisheries Habitat Ecology & Acoustics Program

Manatee Research Program

Mote Animal Hospitals

Sea Turtle Conservation, Research Program, and Sea Turtle

Sharks & Rays Conservation Research Program

Stranding Investigations Program

Research

Benthic Ecology

Chemical and Physical Ecology Program

Coral Health and Disease Program

Ecotoxicology Program

Environmental Laboratory for Forensics

Fisheries Ecology and Enhancement Program

Marine and Freshwater Aquaculture Research Program

Marine Immunology Program

Ocean Acidification Program

Sensory Research With Two Resident Manatees

NAPLES ZOO

Education

Camp WILD

Field Trip Experiences

Keeper Talks

Primate Expedition Cruise

Safari Canyon Shows

Safari Squad/Toddler Programs

Wild Encounters

Zoo Yoga

ZooCon Distance Learning Programs

ZooMobile Outreach Programs

Field Conservation

African People and Wildlife Fund

AZA Conservation Grants Fund (CGF)

AZA SAFE - African Penguin

AZA SAFE - Founders Circle

AZA Tiger SSP - Tiger Conservation Campaign

Black Bear: Smarter Than the Average Bear Secure Trash Campaign

Burmese Python Monitoring and Eradication Testing

Conservation Staff Labor

Florida Bonneted Bat Monitoring and Rehab

Florida Panther Species Recovery - Outcome-Oriented Education

Florida Panther Species Recovery - Rehabilitation Facility

Florida Panther: Testing the Potential of Rarámuri Criollo Cattle to Protect U.S. Herds and Endangered Panthers

Fruit Bats, Habitat Restoration, and Natural Forest Sustainable Management in Eastern Madagascar

Giant Armadillo Project

Giraffe Conservation Foundation (GCF)

Hyacinth Macaw Project (Projeto Arara Azul)

Madagascar Fauna and Flora Group (MFG)

Orchid Conservation in South Florida and Cuba

Palm Oil Advocacy

Panthera - Leopards

Ruaha Carnivore Project (RCP) - Support Through African Wildlife Foundation

Seafood Watch

Tarangire Elephant Project

Tree Planting

Turtle Survival Alliance - Radiated Tortoise Rescue

Wildlife Trafficking Alliance

Zoo Conservation Outreach Group (ZCOG)

Zoo Conservation Outreach Group (ZCOG) - Anteaters and Highways

Green Practices

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Generated Solar or Wind Energy

Research

Florida Bonneted Bat Research

NATURAL ENCOUNTERS, INC.

Field Conservation

The Peregrine Fund

World Parrot Trust (WPT)

Green Practices

ENERGY

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting (On-Site or Off-Site)

Generated Energy through Anaerobic Digester

Procured Local Food for On-Site Animals and/or Guest

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Composted

PALM BEACH ZOO

Education

Afterschool Series

Conservation Leadership Lectures

Guided Tours

Keeper Talks

Night Owls Overnight Adventure

STEM Teacher Open House

Toddler Workshops

Zoo Camp

Zoo Classes

Zoo Interpreters Training

Zoo Labs

Zoo School

Field Conservation

Florida Wildlife Corridor Project

Panamanian Jaguar Research Through APPC

Perdido Key Captive Breeding and Reintroduction

Turtle Survival Alliance

Wildlife Conservation Society (WCS) - Greater Madidi Tambopata Landscape Project

Wildlife Conservation Society (WCS) - Malaysia Field Project

Zoological Society of London (ZSL) – Evolutionarily Distinct and Globally Endangered (EDGE) Fellowship

Green Practices

ENERGY

Documented Amount Spent

Generated Renewable Energy On-Site

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FUEL

Documented Amount Spent

GREEN CERTIFICATIONS

One or More Buildings LEED-Certified by the US Green Building Council

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Alternative Transportation Discounts for Guests

Carbon Offsets for Employee Travel

Community Solar Program

Community Supported Agriculture (CSA) Program for Staff

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Energy Submetering

Generated Solar or Wind Energy

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Purchased Carbon Offset(s) for On-Site Utility Use

Purchased Green Power or Renewable Energy Credits (RECs)

Smart Building Strategies

Water Submetering

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

WATER

Documented Amount Spent

Research

Chordoma Prevalence in Perdido Key Beach Mice

SANTA FE COLLEGE TEACHING ZOO

Education

Animal Encounters

AZA FrogWatch USA

Birthday Party

Boo at the Zoo

College for Kids

Community Outreach Program

Education Carts

Keeper Talks

Party for the Planet

Rotary Reading Safari

Special Event Outreach

Training Demonstrations

Tree Kangaroo Awareness Day

VIP Tour

Zoo Guided Tours

Zookeeper Day

Zookeeper for a Day

Field Conservation

Alachua Conservation Trust (ACT) - North Florida Wetlands Conservation Project (NFWCP)

Ashton Biological Preserve

Earthwatch's Trinidad Ocelot Project

Gopher Tortoise Rehabilitation and Release Program

IUCN-SSC Crocodile Specialist Group (CSG)

Tree Kangaroo Conservation Program

Turtle Survival Alliance (TSA)

Green Practices

FOOD

Sourced Local Food or Grew it On-Site

GREEN PRACTICES IMPLEMENTED

Community-Based Sustainability Projects

Diverted or Recycled Construction Waste

Generated Solar or Wind Energy

Green IT

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Waterwise Landscaping

SEA LIFE ORLANDO AQUARIUM

Field Conservation

Coastal Cleanups

Shingle Creek Canoe Cleanups

Stormwater Pollution Prevention

Tour de Turtles

Green Practices

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Discounts for Guests

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Green IT

Green Purchasing Policy/Green Procurement

Smart Building Strategies

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Research

Investigating Stingray Reproductive Disease

SEAWORLD ORLANDO

Field Conservation

Audubon Center for Birds of Prey - Bald Eagle Rescue and Rehabilitation

Bioengineering Plastic-Degrading Microbes To Eliminate
Plastic Waste

Causal Agents of Reproductive Disease in Wild and Captive Female Southern Stingrays

Conserving Coastal Sharks and Rays Through Health Research

Locating the Birthing Grounds of the Migratory Bonnethead Shark

Mapping Wood Duck Migration Routes in the Northeast, U.S.A.

Marsh Restoration-Replenishing Natural System Water Through Willow Removal

Molecular Biomarkers of Immune System and Health in Beluga Blowhole

Monitoring the Health and Distribution of Dolphin Communities Along the East Coast of Central Florida: A Region of Increased Dolphin Entanglements and Repeated Unusual Mortality Events

National Audubon Society - Conservation of Maine Coast Alcids

National Fish and Wildlife Foundation - Killer Whale Research and Conservation Program

National Ocean Sciences Bowl

Norwegian Orca Survey: Ecological Variations in Norwegian Killer Whales

Panamerican Conservation Association (APPC): Sloth and Anteater Rescue, Rehabilitation, and Education Program in the Republic of Panama

Reproductive Research to Support Captive Sustainability of Sand Tiger Sharks, *Carcharias taurus*

Rising Tide Support for Culture of Hawaiian Reef Species

SeaWorld Orlando - Animal Rescue and Rehabilitation Program

Southern African Foundation for the Conservation of Coastal Birds (SANCCOB) - Conservation of Endangered African Penguins

Tackling Turtle Trade: Developing Capacity to Combat Sea Turtle Poaching in Southeast Asia via the Use of Unmanned Aerial Vehicles

TAMAR Kids: Reconnecting Sea, Sea Turtles, and Local Culture

Wild Earth Allies (Flora and Fauna): Critically Endangered Hawksbill Turtle Conservation in Central America

ST. AUGUSTINE ALLIGATOR FARM

Field Conservation

Ark Wildlife Rescue and Rehabilitation

Audubon of Florida - Monitoring the Roseate Spoonbill

Bird Endowment Nido Adoptivo

Galapagos Tortoise Movement Ecology Program

Gharial Ecology Project

IUCN/SSC Crocodile Specialist Group

King Cobra - Agumbe Rainforest Research Station (ARRS), Western Ghats

Madagascar Fauna and Flora Group (MFG) - Betampona Natural Reserve

Sea Turtle Hospital at Whitney

Seafood Watch

Turtle Survival Alliance (TSA)

Vulture Conservation Programme (VulPro)

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

WATER

Documented Amount Spent

Documented Amount Used

Research

A Preliminary Analysis of Prolonged Absorption Rate of Ponazuril in Red-Footed Tortoises (*Chelonoidis carbonaria*)

Alligator Egg Degradation Study Under Artificial Incubation

Antimicrobial Peptide Release in American Alligator Blood Cells

Chemical Analyses of Crocodylian Skin Gland Lipids

Comparison and Analysis of Vocalizations From the World's Crocodilians to Develop a Database for the Crocodilian Specialist Group (CSG)

Crocodilian Color Change

Cuban Crocodile Molecular Analysis

Cuban Crocodile Nutritional Analysis

Evaluation of Incubation Styles by Investigating Eggshell Micro- and Ultra-Structure

Unprovoked Mouth Gaping Behavior in Extant Crocodylia

THE FLORIDA AQUARIUM

Education

Adopt A School Partnerships

AMIKids Tampa Partnership

Aqua Tots

Behind the Scenes Tours (Non School Groups)

BOAT Stations

Camps (School-Year)

Camps (Summer)

Dive With the Sharks

Evening Tide Talks

Explorers Club

Homeschool Classes

Interactive Touch Experiences

Junior Educators

Lifelong Learning Program

Mission Tampa Bay

Party With the Fishes (Birthday Parties)

Regional Oceans Conference for Students (ROCS)

School Group Classroom Programs

Scout Badge Workshops (Both Boy Scouts and Girl Scouts)

Sleep With the Fishes (Sleepover Program)

Spring to Shore (Formally What's in your Watershed?)

Swim With the Fishes

Teacher Workshops

Water Wheels (Outreach)
Watershed Investigations

Wild Dolphin Adventure Cruise

Field Conservation

Artificial Fertilization and Larval Rearing of Threatened Caribbean Coral Species for Reintroduction to Natural Reefs in the Florida Keys

Cuba Coral Project

Fantasy Island: A Cooperative Conservation and Education Project

Reptile Conservation Projects

Sea Turtle Rehabilitation

Shark Reproduction and Restoration

Southern African Foundation for the Conservation of Coastal Birds (SANCCOB)

Swallow-Tailed Kite Conservation Project

THE SEAS

Education

Abaco Reef Restoration and Environmental Education

Aqua Tours

Aulani Rainbow Reef

Aulani Supplied Air Snorkeling

Castaways Rays

DiveQuest

Dolphins in Depth

Seas Onstage Guest Programs

Seas Youth Education Series (YES) Programs

World Oceans Day

Field Conservation

African Manatee Research and Conservation

Angel Shark Conservation Programme

Bahamas Piping Plover Recovery Initiative

Community Engagement for Dolphin Conservation

Connect to Protect - Reverse the Decline of Corals

Connect to Protect - Reverse the Decline of Sea Turtles

Connect to Protect - Reverse the Decline of Sharks and Rays

Conservation of Eastern Pacific Leatherback Turtles

Conservation of the Douala-Edea Landscape

Conserving Coastal Sharks and Rays

Conserving Sea Turtles Through Community Participation and Stakeholder Stewardship

Coral Reef Youth Education Program

Developing (Elkhorn) Coral Restoration Techniques

Developing Solar-Powered Illuminated Nets to Reduce Sea Turtle Bycatch in Gillnet Fisheries

Establishing the Next Generation of Resilient Coral Species

Franciscana Interactions With Argentinean Fisheries

Hawaiian Monk Seal Conservation and Education

Latin America Conservation Capacity-Building

Life in a Biosphere Reserve

Manta Conservation and Capacity Building

Outreach Inspiring Lake Sturgeon Conservation

Recovery of Endangered Smalltooth Sawfish

Right Whale Emergency Initiative

Saving Wildlife: Coral Reefs

Saving Wildlife: Reversing the Decline of Sharks and Rays

Saving Wildlife: Sea Turtles

Sustainable Fisheries Partnership

Tour de Turtles - Sea Turtle Conservancy

Urban Shark Conservation/Research Program

Wading Birds and Oyster Reefs

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

Purchased Renewable Energy

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Alternative Transportation Discounts for Guests

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Completed Greenhouse Gas Inventory

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Energy Submetering

Generated Energy through Anaerobic Digester

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Purchased Carbon Offset(s) for On-Site Utility Use

Purchased Green Power or Renewable Energy Credits (RECs)

Smart Building Strategies

Stormwater Management Program

Used Enterprise (IT) Solutions to Track and Measure Sustainability Performance

Used Environmental Management System

Waterwise Landscaping

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

Specified a Portion of the Amount Saved for Next Year's Green Practices

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Research

A Multi-Faceted Health Assessment for a Sample of Nesting Loggerhead Sea Turtles

Addendum to Head and Lateral Line Erosion Syndrome Research: Effects of Ful-Humix®-Laden Gel Food (Added Dissolved Organic Matter) on the Development of HLLES

Assessment of Social Rake Marks in Common Bottlenose Dolphins (*Tursiops truncatus*)

Cetacean Welfare Study

Coelomic Fluid Analysis in Normal and Abnormal Elasmobranchs

Contraceptive Drug Trials at Disney's Animal Kingdom and The Seas Developmental Life Cycle of Marine Monogeneans
(Decacotyle sp.) on Captive White-Spotted Eagle Rays and
Possible Treatments

Effects of Dietary Vitamin D Supplementation and UV Light Exposure on Nutritional Health Parameters Including Vitamin D in Sea Turtles

Evaluation of an Aquatic Gel Diet Made With a Novel Feed Ingredient

Evaluation of Stress in Elasmobranchs

Lionfish & Coralliphic Snail Research: Abaco Reef Restoration and Environmental Education Addendum

Monitoring the Effects of Construction Noise on Resident Animals in Regards to Space Utilization

Serum Iodine Levels in Round Ribbontail Rays (*Taeniura meyeni*) (Black Blotched Ray) After Consumption of a Commercially Prepared Supplement

Sex Determination of French Grunts (*Haemulon* flavolineatum) in The Seas' Recirculating Research System

Space Utilization of Resident Sand Tiger Sharks

Statewide Sea Turtle Nesting Surveys

Studies of the Dolphin Mind: Echolocation, Communication, and Social Life

Studies on the Development of Head and Lateral Line (HLL)
Disease

The Seas Research Focused Labor

To Determine the Plasma Concentrations of Oral Praziquantel in Plasma of Spotted Eagle Rays

Training a Scent Detection Dog to Locate Sea Turtle Nests and Gopher Tortoises

Understanding Causal Agents of Southern Stingray Reproductive Disease for Treatment Development

Use of a Scent-Detection Dog for Sea Turtle Nest Monitoring and Conservation Outreach

Using Ultrasound and Metabolic Parameters to Assess Energy and Body Condition Stores of Elasmobranchs (Retrospective Study)

Using Ultrasound to Measure Cardiac Parameters of Stingrays (Retrospective Study)

WHITE OAK CONSERVATION CENTER

Education

Adult Education Workshop: Florida Master Naturalist
Program

Conservation Summer Camp

K-12 Field Experiences (Off-Site)

K-12 Field Experiences (On-Site)

Monthly Public Special Event

Off-Site Lectures and Presentations

Staff Guided Public and Private Wildlife Tours

Topics in Conservation

Undergraduate/Graduate Level Field Experience

Field Conservation

Antelope Restoration - Chad

Florida Grasshopper Sparrow Propagation and Recovery Program

Florida Panther Rehabilitation and Reintroduction

IUCN/SSC Antelope Specialist Group

Madagascar Tortoise Rescue

Mississippi Sandhill Crane Propagation and Recovery Program

Okapi Conservation

Whooping Crane Restoration

Research

Assessment of Stress by Transport of Okapi (Okapia johnstoni)

Coxiella burnetti Exposure of the White Rhinoceros (*Ceratotherium simum*) in South Africa

Curvularia Treatment with Itraconazole in the Black Rhinoceros (*Diceros bicornis*)

Detection of Lyme (*Borrelia burgdorferi*) and Other Tick-Borne Diseases in Serum Samples from Captive Cheetahs

Determining a Correlation Between Serum Amyloid A (SAA) and Zinc Deficiency in Captive Cheetahs (*Acinonyx jubatus*)

DNA Polymorphism Associated With Variation in Susceptibility to Porcine Circovirus 2

Examining the Effectiveness of a Low-Power Acoustic Deterrent to Discourage Bats from Treated Airspace

Giraffe Neoplasia

Grasshopper Sparrow Genome Project

Identification of Preimplantation Factor in Pregnant White Rhinoceros

Identifying and Sequencing *Atoxoplasma* spp. Affecting *Ammodramus savannarum floridanus*

Impact of Dietary Phytate Supplementation on Iron and Phosphorus Utilization in Black Rhinoceros

Influence of *Ex-Situ* Management on Gut Microbiota of the Southern Black Rhinoceros (*Diceros bicornis*)

Investigating Embryo Loss Using Embryo Transfer

Investigating Genetic Differences in Okapi With Pregnancy Hypertension: are There Similarities With Human Pre-Eclampsia?

Molecular Basis of Abnormal Iron Metabolism in Southern Black Rhinoceros

Monitoring of Florida Panther Genetic Introgression Through Reproductive Assessment and Banking of Genetic Material

Optimizing a Field-Based Dung-to-DNA Isolation Technique for Studying Rhino Social Structure and Population Census

Ossicones in Giraffidae

Pharmacokinetics of a Single Oral Dose of Phenylbutazone in Southern White Rhinoceros (*Ceratotherium simum simum*)

Presence of Grass Endophytes and Mycotoxins in Florida Pastures

Prevalence, Risk Factors, and Survival of Zoo Animals With Cancer

Quantifying Serum Amyloid A (SAA) Concentrations in Captive Cheetahs

Relatedness in Southern White Rhinoceros and Implications for Breeding Management

Statistical Evaluation of Subject-Based Reference Values for Potential Clinical Applications in a Population of Cheetahs (*Acinonyx jubatus*) and White Rhinoceros (*Ceratotherium simum*)

Use of Molecular Diagnostics for Rapid Detection of Wildlife Pathogens

White Rhino Calf Behavioral Study: Captive-Born vs Wild Caught Female

White Rhinoceros (*Ceratotherium simum*) Hemoparasite Identification and Characterization via PCR

ZOO MIAMI

Field Conservation

Atala Reintroduction

Audubon Christmas Bird Count

AZA FrogWatch USA

AZA Tiger SSP - Tiger Conservation Campaign

Bat Acoustical Survey of Zoo Miami Grounds

Butterfly Surveys of Pine Rockland and Developed Grounds of Zoo Miami

Cheetah Outreach

Citizen Science: Invasive Fish Removal Derby

Conservation and Research Manager Expenses

Conservation and Research Specialist

Florida Bonneted Bat Rehabilitation

Hope Gardens and Zoo Jamaican Iguana Headstart Facility

International Elephant Foundation (IEF)

International Iguana Foundation (IIF)

International Rhino Foundation (IRF)

Invasive Species and Fire Management of the Zoo Miami Pine Rocklands

Investigating the Habitat Usage and Impacts of Non-Native Boa Constrictors

Komodo Survival Program

Native Bat Roosting Mitigation and Enhancement

New Nature Foundation

Okapi Conservation Project

Pan American Conservation Association

Pine Rockland Public Restoration

Puerto Rican Crested Toad Recovery Program

Range Wide Conservation Program for Cheetah and African Wild Dogs

Restoration of Sea Turtle Nesting Habitat on Elliott Key,

Reversing Tropical Amphibian Declines

Ron Magill Conservation Heroes Award

Ron Magill Conservation Scholarship

The Ecology of Gopher Tortoises in the Pine Rocklands

Tree Kangaroo Conservation Program

Turtle Survival Alliance (TSA) - Radiated Tortoise

Zoo Miami Butterfly Conservation Area

Zoo Miami Lake Enhancement Project

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Energy Submetering

Generated Solar or Wind Energy

Green IT

Smart Building Strategies

Water Submetering

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Research

Anteaters and Highways Project

Cuban Crocodile Subcaudal Scale Irregularities

Ecology of Invasive Burmese Pythons in Big Cypress National Preserve

Exploring Exuma Sound

Hormonal Manipulation of Male Burmese Python Pilot Study

Lowland Tapir Conservation Initiative

Population Genetic Characterization of Highly Fragmented Florida Duskywing Relict Populations

Securing the Habitats of Critically Endangered Taita Warty Frog (*Callulina dawida*) in the Taita Hill Forest in Kenya Through Community Involvement

South-East Zoo Alliance for Reproduction and Conservation

Spectacled Eider Tracking

The Natural History, Habitat Usage, and Origins of Florida Flamingos

The Prusten Project

ZOOTAMPA AT LOWRY PARK

Education

Animal Interactive Experiences - Aldabara Encounter

Animal Mingles/Meet and Greets

Bird of Prey Presentation

Birthday Parties

Camps

Early Childhood Education - Childcare

Keeper Chats (Animal Mingles, Red Wold, Manatee, Koala, Aldabara, Orangutan, Birds of Prey, and Clouded Leopard)

Koala Photo Encounter Presented Yob Family Foundation

Scavenger Hunts

Self-Guided Field Trip

Signature Experiences Tours (Greater One Horn Rhino, White Rhino, African Elephant, and African Penguin)

Sleepovers

Teen Workshops

Teens for Tampa Bay

Tot Classes

World Strides Travel Program

Field Conservation

BOS - Bornean Orangutan Survival Foundation

CrocFest

Florida Fish and Wildlife Conservation Commission (FWC) – Florida Black Bear Rescue, Rehab, and Release Program

Florida Panther Recovery Plan

Freeland

Gyps Vulture Restoration Program

Manatee Rescue, Rehabilitation, and Release

Marine Mammal Research Patrol

Okapi Conservation Project

Painted Dog Research Trust

Pan African Sanctuary Alliance (PASA) - Primate Care

Southern African Foundation for the Conservation of Coastal Birds (SANCCOB)

Turtle Survival Alliance

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Composting (On-Site or Off-Site)

Energy Submetering

Generated Solar or Wind Energy

Green Building Policy/Commitment

Procured Local Food for On-Site Animals and/or Guest

Smart Building Strategies

Stormwater Management Program

Wastewater Reduction

Water Submetering

WATER

Documented Amount Spent

Documented Amount Used

Georgia

GEORGIA AQUARIUM

Field Conservation

Georgia Dolphin Ecology Project

Health and Environmental Risk Assessments (HERA) – Dolphins

Health and Environmental Risk Assessments (HERA) – Indian River Lagoon Dolphin Health Assessment

Health and Environmental Risk Assessments (HERA) – Manatees

Manta Ray Population Assessment

Whale Shark Genome Project

Whale Shark Population Study - Worldwide

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

Purchased Renewable Energy

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Energy Submetering

WASTE

Documented Amount Sent to Landfill

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Research

Flukebook

Marineland Mantas

SEZARC - Sand Tigers

Whale Sharks St. Helena

THE ZOO AT CHEHAW

Green Practices

GREEN PRACTICES IMPLEMENTED

Composting (On-Site or Off-Site)

Procured Local Food for On-Site Animals and/or Guest

ZOO ATLANTA

Education

Adult Volunteer Program

Adventure Cubs

Birdwatch

Camp - School's Out

Camp - Spring Break

Camp - Summer

Camp - Winter

Case for Conservation

Docent Program

Educator Day

External Volunteers

Family Volunteer Program

Homeschool Academy

Intern Program

Interpretive Program - Animal Tales

Interpretive Program - Conservation Carts

Interpretive Program - Conservation Workshop

Interpretive Program - Forage Like a Kori

Interpretive Program - Groove Like an Animal

Interpretive Program - Vet Academy

Interpretive Program - Wild Women

Interpretive Program - Zoo's Clues

Interpretive Program - Quarters for Conservation

Interpretive Program - STEM Sunday

Keeper for a Day

Nightcrawler - Groups

NightCrawler Overnights - Family

Professional Learning

Scout Day

Scout Workshop

Self-Guided Field Trips

The HIVE

Volunteen Program

Wild Encounters

Wild Walks

Zoo Challenge

ZOOMobile - Outreach

Field Conservation

Amphibian Ark

Atlanta Audubon Society

Bird Studies Canada

Birdlife Botswana

Bush Dog - St Louis Zoo

Community-Based Red Panda Conservation and Monitoring

in Eastern Nepal

Conservation South Luangwa

Dian Fossey Gorilla Fund International

Giant Panda Conservation

Headstarting Diamondback Terrapins

International Reptile Foundation

Lion Guardians U.S.

Madagascar Fauna and Flora Group (MFG)

Pine Snake Conservation - Clemson University

Project Golden Frog

Red Panda Network (RPN)

Sahara Conservation Fund (SCF)

Tigers - Minnesota Zoo Foundation

Vulture Conservation Programme (VulPro)

Wildlife Conservation Society (WCS) - 96 Elephants

World Parrot Trust (WPT)

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Green IT

Purchased Green Power or Renewable Energy Credits (RECs)

Smart Building Strategies

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Research

Blood Collection for Paternity Analysis of Captive
Guatemalan Beaded Lizards to Guide Captive Management

Great Ape Heart Project

Primate Cognition

Taxonomy and Biodiversity of Amphibians and Reptiles

Veterinary Research

Idaho

IDAHO FALLS ZOO AT TAUTPHAUS PARK

Education

Behind the Scenes Tours

Career Days

Exploration Stations

Junior Zoo Crew

Penguin Interaction Program

Quarters for Conservation

Special Events

Spring Break Classes

STEM Day at the Zoo

Water Awareness Festival

Weeklong Summer Camp

Winter Break Classes

Zoo Tots Classes

Zoomobiles

Field Conservation

Gorongosa National Park

Snow Leopard Trust (SLT)

Southern African Foundation for the Conservation of Coastal Birds (SANCCOB)

Research

St. Anthony Dunes Tiger Beetle Distribution

Summer Entry by Humans Into Bat Roosts in the Sand Creek Desert, Idaho

ZOO BOISE

Field Conservation

American Association of Zoo Keepers (AAZK) - Bowling for Rhinos

AZA SAFE - Cheetah Conservation Action Plan (CAP)

Cottonwood Creek Restoration

EcoHealth Program in Gorongosa National Park

Gorongosa National Wildlife Park Restoration

IUCN/SSC Asian Wild Cattle Specialist Group - Saola Working Group

New Nature Foundation Khau Cha Forest Project

Reintroduction of Southern Idaho Ground Squirrels

Saving the Snowy Cats of the Himalaya

Table Rock Fire Restoration

Wildlife SOS - ForestWatch!

Green Practices

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Research

Development of Reintroduction Protocol for Southern Idaho Ground Squirrel

Illinois

CHICAGO ZOOLOGICAL SOCIETY - BROOKFIELD ZOO

Education

A Zoo for All: Access and Inclusion

Advanced Inquiry Program Master's Degree

Backstage Adventures

Badges

Bridges

Certified Interpretive Guide Training

College Experiential Learning Opportunities

Common Foundations in Informal Science Learning for Zoo Staff and Volunteers

CZS Sarasota Dolphin Research Program Undergraduate Internship Program

Dolphins in Action Presentations

Early Childhood Education Nature Assistant Certificate with Morton College, Cicero, Illinois

Family Fun Saturdays

Free Field Trips for Illinois Schools

Graduate Teacher Classes

Hamill Family Play Zoo

Inclusive Visits

Institute of Science Teaching Excellence

King Conservation Science Scholars

Lecture Series

Nature Play Zoo Adventure Passport (Nature Play ZAP!)

NatureStart AZA Course

NatureStart Networks

Postdoctoral Fellowship in Veterinary Anesthesia and Analgesia

Project SEARCH

Roving Naturalists

Science Fellows Program

SCIENCES (Supporting a Community's Informal Education Needs) Project

Sleepover Safari

The World's Longest-Running Study of a Wild Dolphin Population - Lessons From 4 Decades and 5 Generations

Volunteer Program

Wild Encounters, Keeper Chats, and Ambassador Animals Program

Zoo Adventure Passport (ZAP!)

Zoo Camp

Zoo Explorers Club

Zoological and Aquatic Animal Residency Program - Illinois

Field Conservation

Behavioural Response of Sea Turtles to the FaunaGuard Turtle Module

Biopsy Sampling

Bottlenose Dolphin Health Assessment in Sarasota Bay

Community Engagement for Dolphin Conservation

Dolphin Communication Research with DTAGs

Ecological and Ethonolgical Basis for Pangolin Management in and Around the Tanoe-Ehy Swamp Forest, Côte d'Ivoire

Franciscana Dolphins

Gulf of Mexico Dolphin Identification System

Post-Release Monitoring of Injured, Out-of-Habitat, or Stranded Cetaceans in the Southeastern U.S.

Punta San Juan Health Assessments

Red Tide Intervention and Study

Sarasota Dolphin Research Program

Species Conservation Toolkit Initiative

Tagging Project

Vaquita Project

Green Practices

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Building Energy Management

Commingled Recycling

Diverted or Recycled Construction Waste

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Green IT

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Wastewater Reduction

COSLEY ZOO

Education

Animal Encounter

AZA FrogWatch USA Cosley Zoo

Bobcat's Backstage

Camps

Critter Cart

Eco Exploration Backpack Tours

Jr. Zookeeper Program

Morning Chores

Park District Programs

Party for the Planet

School & Group Programs

Scout Programs

Teacher Workshop

Training Demonstrations

Zoo to You

Field Conservation

Asian Wild Horse

AZA FrogWatch USA

AZA SAFE - Vaquita

Blanding's Turtle Headstart Project

Giraffe

The Great Backyard Bird Count

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Composting (On-Site or Off-Site)

Graywater Reuse and/or Rainwater Harvesting

Stormwater Management Program

WASTE

Documented Amount Recycled

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Research

Blanding's Turtle Head Start Program Microbiome Project

Hi-C Genomic Zoo

HENSON ROBINSON ZOO

Green Practices

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

JOHN G. SHEDD AQUARIUM

Education

Animal Chats

Animal Encounters

Aquatic Presentations

Assistantships

Behind The Scenes Tours

Beluga Encounters

Caribbean Reef Dive

Club Shedd

Fish Tales Educator E-news

Floor Engagements

Freshwater Ecology

Great Lakes Action Days

Great Lakes Digital Badging

Group Overnights

High School Lake Ecology

High School Marine Biology

Interpretive Volunteers

Kayak For Conservation

Learning Labs: 3rd-12th Grades

Live at Shedd

Live From Behind the Scenes

Marine and Island Ecology of The Bahamas

NOAA How & Why We Explore The Deep Ocean Workshop

Penguin Encounter

Pre-Presentation Trivia

Pre-Presentation Turtle Time Activity

Science Tech Treks

Shark Feeding Tour

Shedd Science Educator Conference

Shedd Stewards

Spring Break Camp

Summer Road Trip

Summer Worlds Tour

Sustainable Seafood Culinary School Partner Training

Teen Learning Lab

Trainer For A Day

Underwater Robotics - Club and Competition

Underwater Robotics - Teacher Professional Development

Wreath-Cycled

Field Conservation

Amphibian Response to Habitat Restoration

Aquarium Conservation Partnership (ACP)

Aquatic Invasive Species Monitoring and Research Program

Bahamian Iguana Research and Conservation

Conch Population Assessment and Management in the Bahamas

Conservation Policy and Advocacy

Coral Reef Research

General Operating Expenses

Great Lakes Action Days

International Iquana Foundation

Investigating the Effects of the Bahamas as a Shark Sanctuary

Madagascar Tortoise Rescue

Migratory Fishes in Great Lakes Tributaries

Monitoring Beluga Populations in the St. Lawrence River in Partnership With the Group for Research and Education on Marine Mammals (GREMM)

Rescue and Rehab of Stranded Beluga

Rescue and Release of African Penguins

Rescue and Release of Stranded Pinnipeds

Research Vessel

SExual COral Reproduction (SECORE) - Coral Reef Conservation Partnership

Spatial Dynamics of Nassau Grouper Spawning in the Bahamas

State of Alaska Department of Fish and Game: Cook Inlet Beluga Study

Urban Ecology of Mudpuppies in the Chicago Area

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

FUEL

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Community Supported Agriculture (CSA) Program for Staff

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Energy Submetering

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Smart Building Strategies

Stormwater Management Program

Wastewater Reduction

Water Submetering

Waterwise Landscaping

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

Research

Assessment of Proposed Marine Mammal Water Quality Indicator Organisms in a Recirculating Artificial Seawater System

AZA Western Pond Turtle SSP - The Role of the Microbiome in the Reintroduction of Species

Baylor Hi C Genomic Zoo

Cetacean Welfare Project

Metagenomic Investigation Into the Cause of Shell Disease in Western Pond Turtles (*Actinemys marmorata*)

Microbial Diversity as a Disease Management Tool

Mycobacterial Control Strategies

Role of Water, Treatment, Nutrients, and Physicochemical Factors in Regulating Viral and Microbial Composition in an Aquarium by Metagenomics Approaches

Sea Star Social Behavior

LINCOLN PARK ZOO

Education

Access Tours

Amplify

Animal Encounters

Animal Enrichment Workshops

Ape Cognition

Ape Termite Fishing

Artecito

Campout at the Zoo

Canvas for Conservation

Chicago Environmental Stewards Spring Break Camp

Community Pop Up Events

Conservation Ambassador Board

Conservation Camp (School Holidays)

Conservation Camp (Summer)

Cow Milking

Douglass 18

DreamNight

Educator Conference

Free-Flight Feeding

Gorilla Operant Conditioning

Guest Engagement Chats

Guest Engagement Leadership Program

Guest Engagement Mobile Learning Stations

Hammond School Learning Garden

LEAP - Learn Explore and Play

Learning Lab Pop-Ups

Morning Safari/Twilight Safari

Nature Boardwalk Tours

Partners in Fieldwork

Penguin Encounters

Play Days at the Farm

Programa ProTEJA

Research Apprenticeship Program

Science For All Students

Seal Training and Feeding

Second Saturday Garden Tours

Sing Along With Mr. Singer

Snow Monkey Science

Teacher Workshops

Up Close With Polar Bears

WILD Marshall Square Sculpture Program

Wine and Wildlife

Young Researchers Collaborative

Zoo Crew Camp Zoo Explorers

Zoo Intern Program

Field Conservation

Administrative Costs for Staff Managing Field Conservation Grants

AZA SAFE - Founders Circle

Bali Mynah Reintroduction Project

Bird Trade in the United States of America: A Review and Analysis of the Legal and Illegal Imports of Bird Species from Asia Into the U.S.

Black Footed Ferret SAFE Administration

Building Evidence for Effective Conservation Interventions Around the Serengeti Ecosystem

Developing Non-Invasive Methods to Monitor the Health of Urban Bats

Endangered Black-Crowned Night Heron Wild Colony Support

Evaluating an Incentive-Based Payment to Promote Human-Lion Coexistence in Ngorongoro Conservation Area, Tanzania

Evaluating Conservation and Development Impacts of Serengeti National Parks on Adjacent Communities

Goualougo Triangle Ape Project (GTAP)

Great Lakes Piping Plover Recovery Effort

Investigating Denver's Vanishing Prairie Dogs

Investigating the Effect of Population Density and
Provisioning on Stress Physiology in the Black-Crowned
Night Heron Across Two Urban Zoos

Little Brown Bat Priority Species

Long-Term Monitoring of an Eastern Massasauga Rattlesnake (EMR) Population in Southwest Michigan

Miscellaneous Conservation Donations to Field Conservation Organizations

Monitoring Bat Diversity in the Chicago Area and the Influence of Prey Availability

Monitoring Infertility in Black-Footed Ferrets

Monitoring the Health and Stress of Urban Wildlife and Implications on Human Health

Painted Turtle Relocation and Monitoring at Nature Boardwalk

Pilot Study: Evaluating the Use of Prostaglandin Metabolite Assay to Determine Pregnancy in the Black-Footed Ferret

Population Biology Advising for Reintroduction of Greater Sage Grouse in Canada

Population Management Advising for Species Recovery and Conservation Assurance Populations

Population Viability Analysis (PVA) for Tanzanian Eastern Black Rhinoceros Populations

Population Viability Analysis (PVA) of the Eastern Indigo Snake

Population Viability Analysis (PVA) of Zoo and Wild Populations of Endangered Red Wolves (*Canis rufus*)

Puerto Rican Parrot Population Management

Regional Survey of Amphibian Chytrid (*Batrachochytrium dendrobatidis*) and Amphibian Stress

Serengeti Health Initiative - Distemper and Rabies Vaccination Project

Southern African Foundation for the Conservation of Coastal Birds (SANCCOB) - Penguin Rehabilitation

Tracking Fecal Metabolites to Determine Estrous Cycle and Cortisol Levels of *Tamiasciurus hudsonicus grahamensis* in an *Ex-Situ* Setting

Trends in Long-Term Urban Bird Research

Understanding Stress Physiology of the Mountain Gorilla

Urban Wildlife Information Network (UWIN)

Using Camera Traps to Assess Mammalian Community Composition, Abundance, and Diversity

Using Mate Choice to Improve Reproductive Success in the Black-Footed Ferret

Green Practices

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified by the Green Restaurant Association

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Commingled Recycling

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Green IT

Waterwise Landscaping

Research

A Meta-Analysis of Shifts in Wildlife Health With Urbanization

A Test of Gorilla Short Term Memory (ManyPrimates Pilot Study)

Administrative Costs for Staff Managing Research Grants

An Interdisciplinary Evaluation of the African Penguins'
Behavior, Welfare, and Educational Impact at Lincoln Park
Zoo

Ape Cognition Using Touchscreen Testing

Avian Model for Clinical Use of Adequan®

Behavioral and Physiological Effects of Construction Activity and Noise on the Baringo Giraffe Housed at Lincoln Park Zoo

Behavioral Monitoring of Chimpanzees and Gorillas

Behavioral, Physiological, and Spatial Patterns of Light Pollution in Chicago, Illinois

Case Series Evaluation of Smooth Green Snake Oral Squamous Cell Carcinoma

Chimp Haven

ChimpCARE

Classification and Management Assessment of Canine Fractures in Captive Managed Populations of Great Apes

Cognitive Bias in Japanese Macaques, Chimpanzees, and Gorillas

Combining Site-Based Initiatives and Collaborative Partnerships to Strengthen Great Ape Health

COMPADRE: COMADRE Plant and Animal Matrix Database

Comparing the Stress of Urban and Rural Red-Winged Blackbirds

Contribution of Zoos and Aquariums to Endangered Species Recovery in the United States

Costs Associated With Testing Field Equipment That Will be Used in Research Projects

Costs for Any Staff Serving on Institutional Animal Care and Use Committee (IACUC), Research and Institutional Review Board (IRB) Committees

Costs of Person(s) Managing Review of Research in the Institution, Including Any Institutional Animal Care and Use Committee (IACUC), Research Committee or Institutional Review Board (IRB) Committees

Cross-Facility Survey of Chimpanzee Welfare Measures

Cross-Validation of Androgen Metabolite Enzyme
Immunoassay (EIA) Results Using Alternative Substrates

Determining the Predominant Glucocorticoid in Sea Otters
Using an Adrenocorticotropic Hormone (ACTH) Challenge

Determining the Relationship Among Baculum Size and Shape, Genetic Relatedness, and Breeding Success in the Endangered Black-Footed Ferret

Determining the Relationship Among Egg Incubation Temperature, Immune Function, and Glucocorticoid Production in American Robin (*Turdus migratorius*) Nestlings

Developing a Meta-Population Model for Heterogeneous Environments

Developing Noninvasive Methods to Assess Health in Bats Threatened by White-Nose Syndrome

Developing Techniques to Measure Glucocorticoids in Toenails of the Fiji Crested Iguana

Effects of Contraceptive Implants on Macaque Cycling/ Fertility

Effects of Urbanization on Long-Term Stress in Mammalian Communities in the Chicagoland Area

Electrocardiogram (EKG) Monitoring of Chimpanzees With Behavioral Overlay

Establishing Non-Invasive Predictive Tools to Monitor Hormones, Microbiome, and Behavior During Stress and Senescence in Octopus

Evaluating Novel Techniques to Assess Chimpanzee Welfare in a Sanctuary Setting

Evaluating Socioecological Predictors of Stress and Health Condition in Western Lowland Gorillas

Evaluation of Animal Ambassador Experiences

Examining the Local and Migratory Movements of Black-Crowned Night Herons

Exploring the Biodiversity of Snakes Surrounding the Lincoln Park Zoo's Nature Boardwalk

Facilitation of External Research

Flexible Problem-Solving in Great Apes

Gathering Hormonal Measures of a Gorilla Bachelor Group

Goods, Equipment, or Supplies Donated to Research Projects Outside of the Institution

Goualougo Triangle Ape Project (GTAP) - Video Analysis Lab

Health and Behavior of Migratory and Resident Urban Canada Geese

House Sparrow Microbial Ecology and Endocrinology

Impact of Lighting on Nocturnal Mammal Welfare

Institutional Support (Direct and In Kind) for Hosting of Scientific Conferences Focused on Presentation of Research Results

Investigating Diversity, Stress, and Health of Small Mammal Communities Across an Urban to Exurban Gradient

Investigating Ovulation Failure in the Endangered Black-Footed Ferret

Investigating Post-Hatch and Post-Transfer Survival in the Blue-Grey Tanager Species Survival Plan Program

Investigating the Influence of an Ape's Social Group on Their Individual Decision-Making

Investigating Whether and How Invasive Plants are Impacting the Presence and Health of Three Species of Conservation Concern – Field Sparrows, Yellow-Breasted Chats, and Bell's Vireos

Investigation of Hormone Metabolites in Mountain Gorilla Fecal Samples Using High-Performance Liquid Chromatography (HPLC)

Japanese Macaque Behavioral Monitoring

Japanese Macaque Personality Assessment: Development of a Novel Scale for Use in Zoo Setting

Japanese Macague Touchscreen Research

Local Drivers of Bushmeat Hunting in the Greater Serengeti Ecosystem, and Its Impact on Migratory Wildlife Populations

Message Framing Effects on Animal Welfare Donation Appeals

Microbiome Comparisons Among Great Apes and Humans

Patterns in Demography Based on Endangerment Status

PMCTrack - Analyses of Historic Breeding and Transfer Recommendations in AZA's SSPs

Population Viability Analyses (PVAs) of AZA Species Survival Plans® (SSPs)

Predictors of Wounding in Japanese Macaques

Prospective Assessment of the Incidence of Mammary Neoplasia in Chimpanzees (*Pan troglodytes*): Pathology, Genetic Markers, and Clinical Application

Rat Zoonotic Pathogens Across Chicago Neighborhoods

Retrospective Mortality Review in Chimpanzees

Retrospective Risk Assessment of Perianesthetic Mortality in Captive Managed Populations of Chimpanzees (*Pantroglodytes*)

Salary and Benefit Costs of Staff Involved in Mentoring Undergraduate, Graduate, or Postgraduate Training Focused on Scientific Research

Sandy Potatoes: Setting the Stage for Behavioral Transmission in Japanese Macaques

Small Mites, Big City: Using Large-Scale Wildlife Camera Monitoring to Examine the Spatio-Temporal Dynamics of Sarcoptic Mange in Chicago's Urban Coyotes

Testing the Use of Surrogate Demographic Data for Species Recovery

Training and Administration of Citizen Science Projects

Travel Costs Associated With Staff Presenting Research Results at Scientific Meetings

Understanding and Analyzing Patterns in Life Expectancy for Zoo Animal Populations

Validating a Noninvasive Dermal Swabbing Method to Study Stress Hormones in the Critically Endangered Wyoming Toad

Visitor-Directed Behavior in Japanese Macaques and the Role of Rank

Zoo Biology Special Issue on Sustainability

ZooMonitor

MILLER PARK ZOO

Field Conservation

AZA FrogWatch USA

AZA Tiger SSP - Tiger Conservation Campaign - Sumatran Tiger and Prey Research

Eastern Box Turtle Conservation

Eastern Box Turtle Field Conservation

Parklands Foundation

Red Wolf Donation

Snow Leopard Trust (SLT)

PEORIA ZOO

Field Conservation

Alligator Snapping Turtle Recovery Plan

American Association of Zoo Keepers (AAZK) - Bowling for Rhinos

AZA FrogWatch USA

AZA Tiger SSP - Tiger Conservation Campaign

Center for Ecosystem Survival (SaveNature.Org)

Chopsticks For Salamanders (CFS)

Giraffe Conservation Foundation

Turtle Survival Alliance

Wild Aid

Xerces Society

Green Practices

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Composting (On-Site or Off-Site)

Smart Building Strategies

Research

Identify and Determine the Prevalence of Normal
Gammaherpesvirus Flora in Eastern Black-and-White
Colobus Monkeys (*Colobus guereza*) and Develop a qPCR
Assay

Ontogenetic Relationship of Bite Force in Common Snapping (Chelydra serpentina) and Alligator Snapping Turtles (Macrochelys temminckii)

SCOVILL ZOO

Field Conservation

Cheetah Conservation Fund (CCF)

Conservation Centers for Species Survival (C2S2)

National Cheetah Coordinator Training Course

SaveNature.Org

Indiana

FORT WAYNE CHILDREN'S ZOO

Education

Amazing Animals/Animal Encounters

Animal Tales

Care-a-Van

Career Presentations

Community Events

Discovery Boxes

Dive Demonstration Chat

Education Interpreters

Job Shadow

Keeper Chats

Kids4Nature

Mini-Classes

Sea Lion Feeding Demonstration

Storytime

Summer Safari Day Camp

Teacher Workshops

Wild Nights

Zoo School

ZOOMobile

ZSI (Zoo Scientific Inquiry)

Z-Team Volunteer Program

Field Conservation

Acres Land Trust

AZA Conservation Grants Fund (CGF)

AZA SAFE - African Penguins

AZA Tiger SSP – Tiger Conservation Campaign – Sumatran Tiger

Coffee and Primate Conservation in Central Java

Giraffe Conservation Foundation (GCF)

Hellbender Headstarting Project

Hornbill Research Foundation (HRF)

Indiana University – Purdue University Fort Wayne (IPFW)
Turtle Fund

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Leatherback Trust

Lion Guardians

Little River Wetland Project

Mariana Avifauna Conservation (MAC) Project

Mitchell's Satyr Butterfly Conservation

Motus Station Project

Orangutan Conservancy (OC)

Pacific Marine Mammal Rescue Center

Pan African Sanctuary Alliance (PASA)

Red Panda Network (RPN)

Sahara Conservation Fund (SCF) - Adopt-an-Ostrich Program

Save the Tasmanian Devil Program

Southern African Foundation for the Conservation of Coastal Birds (SANCCOB)

Sumatran Orangutan Conservation Programme (SOCP)

Thailand Clouded Leopard Consortium

Turtle Survival Alliance (TSA)

WildCats (Formerly ALTA)

Wildlife Conservation Society (WCS) - Sharks and Rays Conservation

World Parrot Trust (WPT)

Green Practices

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

GREEN PRACTICES IMPLEMENTED

Composting (On-Site or Off-Site)

WATER

Documented Amount Spent

Research

Blue River Water Quality Analysis 2018

Characterization of Reproductive Endocrinology in Female Servals (*Leptailurus serval*) for Improved Population Management

Evaluation of Algae Concentration and Species in Zoo Water Systems

Nutritional Analysis of Prey Commonly Consumed by the Eastern Hellbender (*Cryptobranchus alleganiensis* alleganiensis)

INDIANAPOLIS ZOOLOGICAL SOCIETY, INC.

Education

Adult Education Programs

Animal Art Adventure

Animal Chats

Behind The Scenes Tours

Boy Scout Programs

Bunk for a Badge

Career Tours

Conservation Educator Academy

Daisy Scout Programs

Dolphin In-Water Adventure

Dolphin Presentation

Dolphin Trainer Explorer Camp

Education Kits

Educator E-News

Educator Open House

Educator Professional Development

Family Nature Center

Family Overnight

Girls in Science

Nocturnal Adventures

Oasis Senior Programing

Preschool Programs

Saturday Science Programs

Science Investigator Series

Skype Chats

Summer Safari Overnight

Summer Zoo Camps

Zoo Educator Advisory Council

Zoo Explorer Camps

Field Conservation

Amur Tiger Conservation Project

AZA SAFE - Visionary Funder

Champions for our Planet

Cheetah Conservation in Namibia

Conservation International

Contribution to Support the Chair of the IUCN Species

Survival Commission

Dian Fossey Gorilla Fund International

Educational Documentaries for Field Projects

Generation Conservation

Giraffe Conservation Foundation - Round Up for

Conservation

Global Wildlife Conservation

Goualougo Triangle Ape Project (GTAP)

Indiana Stonefly Assessment for the Indiana Natural Heritage

Data Center

Indianapolis Prize

Indianapolis Zoo Conservation Program Administration

Indonesian Vet Training Program

International Elephant Foundation (IEF)

Kutai National Park

Kutai National Park Reforestation

Macaw Recovery Network - Formerly Known as the Ara

Project

Massasauga Rattlesnake Conservation

Migratory Bird Conservation

Northern Rangelands Trust: Hirola Recovery Project

Snow Leopard Conservancy

Sumatran Orangutan Conservation Programme (SOCP)

Tarangire Elephant Project (TEP) - Development of Corridors

Outside of Tarangire National Park

The Nature Conservancy - Kankakee Sands Prairie

Restoration

TSA Radiated Tortoise Confiscation Support

Wildlife Direct

World Parrot Trust (WPT)

Green Practices

ENERGY

Documented Amount Used

Purchased Renewable Energy

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Building Energy Management

Commingled Recycling

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Graywater Reuse and/or Rainwater Harvesting

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Purchased Green Power or Renewable Energy Credits (RECs)

Smart Building Strategies

Stormwater Management Program

Wastewater Reduction

Waterwise Landscaping

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

Research

Orangutan Mental Complexity and Its Relationship to

Survival in the Tropical Forest

MESKER PARK ZOO & BOTANIC GARDEN

Education

Adventure Amazonia

Animal Play

Boo at the Zoo

Destination - Discovery!

Expedition - Zoo/Dr. Zoo

Mission Green Possible

New Docent Training

New ZooTeen Intake and Training

Party Animals!/ZooTopia

Spaceship Earth/Planet Rangers/S.A.F.E. Keepers

Zoo Master (Jr.)/Junior Zookeeper

Zoo Master/The Zookeeper's Apprentice

700 Mission/Go Green!

Zoo Party

Zoo Play

Zoo Scientists/Expedition Zoo

ZooTeen Conferences (Spring & Fall)

Field Conservation

Action For Cheetahs in Kenya

AZA SAFE - Founders Circle

ChAG Chelonian Conservation Fund Donation

Friends of Laguna Atascosa NWR

Giraffe Conservation Foundation Donation

International Crane Foundation

LightHawk

Long-Term Monitoring of an Eastern Massasauga Rattlesnake

(EMR) Population in Southwest Michigan

Ovate-Leaved Catchfly Conservation in Indiana

Proyecto Tití, Inc Donation

Save Vietnam's Wildlife - Otter Enclosure

Snow Leopard Trust Donation

Tapir Specialist Group Conservation Fund

Wildlife Conservation Society (WCS) - 96 Elephants

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified by the Green Restaurant Association

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Composting (On-Site or Off-Site)

Graywater Reuse and/or Rainwater Harvesting

Smart Building Strategies

Stormwater Management Program

Waterwise Landscaping

WASTE

Documented Amount Composted

WATER

Documented Amount Spent

Documented Amount Used

Research

Application of Stem Cell Therapy in Sichuan Takin (*Budorcas taxicolor*) for the Treatment of Degenerative Joint Disease

Cuora mccordi Parentage DNA Testing

Pygmy Slow Dental Disease Project

Red Panda Amdoparvovirus Project

Takin Morbidity & Mortality Study

POTAWATOMI ZOO

Education

Conservation Scouts

Endangered Species Days

Evening Safari Programs

Field Conservation

Conservation Grant Fund - AZA

Madagascar Fauna and Flora Group

Okapi Conservation Project

Painted Dog Research Trust

Pangolin Conservation

Sahara Conservation Fund

Snow Leopard Trust (SLT)

Wildcat Conservation Alliance

Zoo Conservation Outreach Group (ZCOG)

Iowa

BLANK PARK ZOO

Field Conservation

Animal TB Research Group

AZA SAFE - African Penguin and Vaquita

AZA Tiger SSP - Tiger Conservation Campaign

AZA Zoo Park Partnership

Bioko Biodiversity Protection

Blank Park Zoo's Stomp the Straw Campaign

Chimpanzee Sanctuary and Wildlife Conservation Trust

Conservation Fusion (CF)

Danau Girang Field Centre

Eco Cell Cell Phone Recycling

Giraffe Conservation Foundation (GCF)

Health in Harmony

Hornbill Research Foundation (HRF) - Nest Adoptions in

Thailand

International Rhino Foundation (IRF)

Iowa Hunters: Leading the Way

Iowa Rivers Revival

Iowa State University Wildlife Care Clinic

Kasiisi

Marine Mammal Center

Marine Megafauna Foundation

Nomadic Nature Conservation, Mongolia

Okapi Conservation Project

Painted Dog Research Trust

Pan African Sanctuary Alliance

Peregrine Fund

Plant. Grow. Fly.

Prairies for Agriculture

Ruaha Carnivore Project

Save the Snakes

Snow Leopard Trust (SLT)

Travel Scholarships for Zoos & Aquariums Committed to Conservation (ZACC) Conference

Trumpeter Swan Restoration Project

UpCycle

Green Practices

ENERGY

Documented Amount Spent

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Green IT

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Stormwater Management Program

Wastewater Reduction

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Research

Amyloidosis in Avian and Mammalian Species

Anesthesia in Zoos

Anesthetic Considerations in Pinnipeds

Anesthetic Monitoring: the Balance Between Awake and Dead

Behavior of the White Handed Gibbon, Hylobates lar

Behaviors and Social Interactions Among Japanese Macaques

Biomechanical Variables of the Foot in Normal Reticulated Giraffes (Giraffa camelopardalis reticulata)

Black Rhino Reproduction

Bone Mineral Density Determined by Densitometry Method (DXA) for Egyptian Fruit Bats (*Rousettus aegyptiacus*) in Human Care

Boot Wash: What is it Good for... Absolutely Nothing

Boy or Girl? - an Overview of the Neonatal Examination

Capture Myopathy

Case Series of Intraocular Neoplasia Diagnosed in California Sea Lions

Chilean Flamingo Reproduction: Clutch of 2018

Clostridial Infections in Zoo Animals

Conditions for Survival of Pathogens Commonly Affecting Zoo Animals

Connecting the Dots: A Case of Sudden Illness in a Macropod Mob Boss

Crikey, You've Got Cataracts Mate!: An Overview of Cataracts in Wallabies

Decreasing Stereotypical Behaviors in Zoo Animals Through Enrichment

Do Egyptian Fruit Bats Drink Water?

Epidemiology of Lumpy Jaw in Captive Macropods

Ethogram Creation and Baseline Behavioral Time Budget of the Aldabra Tortoise

Exhibit Space Usage in Relation to Crowd Size in the Slender-Horned Gazelle

Extraskeletal Osteosarcoma in an Egyptian Fruit Bat (Rousettus aegyptiacus)

Giraffe Activity Budget in the New Barn

Hot or Not: Using Thermal Imaging for Pregnancy Detection

How Can You Mend a Broken Heart? The Basics and Treatment of Heart Disease

I Spy: The Reasons to Choose a Type of Imaging

Identification and Correlation of a Novel Siadenovirus in a Flock of Budgerigars (*Melopsittacus undulates*) Infected with *Salmonella typhimurium* in the U.S.

Immobilizing an Elk: A Case Study and Practical Guide

Indolent CD3+ T-Cell Lymphoma in an Amur Tiger (*Panthera tigris*)

Inflammatory Bowel Disease in Exotic Cats

Investigating Gate Lurking Behaviors in Reticulated Giraffes

I've Been Bitten! Now What?

Lesions of the Female Reproductive Tract in Japanese Macaque (*Macaca fuscata*) of Two Captive Colonies

Lionfish Ethogram

Marburg Virus in Egyptian Fruit Bats

Monitoring the Behavioral, Spatial, and Social Preferences of Japanese Macaques

Mycobacteriosis: Clinical Presentation in Wallaby 2130

Never Make a RASH Decision: A Guide to Goat Dermatology

Nyala and Okapi Habitat Usage

Nyala and Okapi Space and time Management in a Multispecies Enclosure

Nyala Time Budget

Observing *Centrochelys sulcata* Behavior for Development Enrichment

Observing How Long Zoo Visitors Engage with Signage and How Interactive Elements Affect this Engagement

Outside the Admissions Area: the Unknown Routine Behaviors of the Bactrian Camels

Pain Management

Parasite Control in Zoos

Penguin Pathogens and Preventative Medicine

Phosphorus - What it Does and Why it's Important

Positive Reinforcement Training in Zoo Medicine

Ratite Ethogram

Retrospective Evaluation of Non-Tuberculous

Mycobacteriosis in a Captive Population of Red-Necked

Wallabies

Reversible Anesthesia of North American River Otters
(Lontra canadensis) With Dexmedetomidine-Butorphanol-Midazolam and Atipamezole-Naltrexone-Flumazenil

Seasonal Variation of 25-Hydroxy-Vitamin D in Two Captive Eastern Black Rhinoceros

Seasonal Variation of Serum 25-Hydroxy-Vitamin D in Two Captive Eastern Black Rhinoceros (*Diceros bicornis michaeli*) Housed in a North American Zoo

Seroprevalence of *Leptospira* spp., *Toxoplasma gondii*, & *Dirofilaria immitis* in Free-Roaming Cats in Iowa – Vector Borne & Zoonotic Diseases Volume XX, Number XX, 2018 ^a Mary Ann Liebert, Inc. DOI: 10

Skunks, Opossums, Raccoons, Oh My! The Role of Wildlife in Zoo Animal Disease

Space Use of Guineafowls in Relation to Elands and Ostriches

Squeezes & People & Boredom, Oh My! - A Look at Stress in Captive Animals

The Daily Movement of Blank Park Zoo's Giraffe Heard

The Effect of Foraging Enrichment Pipes on the Behavior of Lontra Canadensis in a Zoological Setting

What is the Cognitive Ability of a Red Panda

Where's Waldo? Pregnancy Diagnosis in Addax and Tamarins

Why Zoos Matter

NATIONAL MISSISSIPPI RIVER MUSEUM & AQUARIUM

Education

Camp

Classroom Program

Education Outreach

Guided Educational Tours

Live Animal Program

Overnight Program

Pioneer Days

RiverWorks Discovery

Student Environmental Conference

Student Led River Research Program (SLRRP)

Toddler Tuesday

Field Conservation

AZA Wyoming Toad SSP

Freshwater Mussel In-Situ Conservation

Good Neighbor Iowa

Plant. Grow. Fly.

Seafood Watch

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

WATER

Documented Amount Spent

Documented Amount Used

Research

AZA FrogWatch USA

Developing Genomic Tools for North American River Otter Population Management

Freshwater Mussel Propagation Research

Iowa Mussel Blitz

IOWATER Volunteer Water Monitoring Program Facilitator

Laotian Warty Newt Propagation

Sheltopusik Breeding Studies

Use of Carbon Dioxide to Prevent Biofouling by Dreissenid Mussels

Kansas

HUTCHINSON ZOO

Education

A Book & A Beast

Birthday Party Programs

Camps

Guided Tours

Outreach Programs

Field Conservation

Reintroduction and Monitoring of Black-Footed Ferrets in Logan County, Kansas

Green Practices

ENERGY

Documented Amount Spent

FUEL

Documented Amount Spent

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

LEE RICHARDSON ZOO

Education

Adult & Senior Zoomobiles

Adult Distance Learning

Behind the Scenes Tour

Birthday Parties

Booths at Events

Discover Cart

Discovery Boxes

Education Center Programs for Non-School Groups

Education Center Programs for School Groups

Events

General Zoomobiles

Homeschool Programming

Keeper Talks

Non-School Youth Zoomobiles

School Distance Learning

School Zoomobiles

Story Time

Volunteer Training

Walking Tours

Zoo Edventures

Field Conservation

Anteaters and Highways

Butterfly Conservation

Crane Conservation

Field Monitoring Support for Kansas Black-Footed Ferret Reintroduction

Genotyping Captive Trumpeter Swans to See if They can Contribute to Rocky Mountain Population Restoration

Giraffe Conservation Status Project

International Elephant Foundation (IEF) - Protecting Elephants Through the Conservation Detection Dog Network

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Management of the Lee Richardson Zoo Field Conservation Grant Program

Reticulated Giraffe Conservation With Pastoralists

Slow Loris Little Fireface Project

Snow Leopard Conservation

Turtle Survival Center

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Procured Local Food for On-Site Animals and/or Guest

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

WASTE

Documented Amount Composted

Documented Amount Recycled

WATER

Documented Amount Used

Research

Assessing the Health of a Waterway by Assessing Presence of Macroinvertebrates

Assessment of Recovery of Testicular Function in Male Pallas's Cats After Eight Years of Deslorelin Treatment

Institutional Animal Care and Use Committee (IACUC)
Review of Proposed Research Projects

ROLLING HILLS ZOO

Field Conservation

Amphibian Ark

Association of Zoological Horticulture (AZH) - Conservation

AZA Conservation Grants Fund (CGF)

Black-Footed Ferret (*Mustela nigripes*) Reintroduction Project in Kansas

Borneo Orangutan Survival Foundation (BOS)

Giraffe Conservation Foundation (GCF)

International Rhino Foundation (IRF)

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Jane Goodall Institute

Milford Nature Center, Junction City, Kan.

Monarch Watch

Painted Dog Research Trust

Prairie Wildlife Research

Sahara Conservation Fund (SCF)

Smoky Hills Audubon Society

Snow Leopard Trust (SLT)

Turtle Survival Alliance (TSA)

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Composting (On-Site or Off-Site)

Procured Local Food for On-Site Animals and/or Guest

WATER

Documented Amount Spent

Documented Amount Used

SEDGWICK COUNTY ZOO

Education

Animal Tales Preschool

Senior Wednesday

Social Hours

Summer Classes

Zookeeper Apprentice Program

Field Conservation

Amphibian Ark

Amur Leopard and Tiger Alliance (ALTA)

AZA Ape TAG - Conservation Initiative

AZA Chacoan Peccary SSP

AZA Matschie's Tree Kangaroo SSP - Tree Kangaroo Conservation Program, Papua New Guinea

AZA SAFE - Founders Circle

AZA SAFE - Giraffe

AZA Tiger SSP - Tiger Conservation Campaign/Initiative

Black-Footed Ferret Kansas Reintroduction Program

Caucasus Nature Fund - Zangeur Biosphere Complex

Center for American Burying Beetle Conservation

Crocodilian Advisory Group Fund

Dian Fossey Gorilla Fund International

Gorilla Rehabilitation and Conservation Education (GRACE)

Center

International Iguana Foundation (IIF)

International Rhino Foundation (IRF)

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Mariana Avifauna Conservation (MAC) Project

Ngwenya Rhino Fund

Okapi Conservation Project

Orangutan Information Centre

Painted Dog Conservation (PDC)

Painted Dog Research Trust

Red Panda Network (RPN)

Sahara Conservation Fund (SCF)

Save the Cassowary From Extinction in Australia/Rainforest

Rescue/Project Rainforest

WildCare Institute: Center for Conservation (of the Humboldt

Penguin) in Punta San Juan, Peru

WildCare Institute: Center for Conservation in Western Asia

WildCare Institute: Conservation of the Armenian Mountain

Viper Inhabiting Human-Modified Landscapes

WildCare Institute: Grevy's Zebra

Wildcare Institute: Ron Goellner Center for Hellbender

Conservation

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting (On-Site or Off-Site)

Generated Solar or Wind Energy

Procured Local Food for On-Site Animals and/or Guest

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

WASTE

Documented Amount Composted

Documented Amount Sent to Landfill

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Research

A Comprehensive Approach to Improve Management of an Endangered Wild Canid

Combining Ecological Research and Citizen Science to
Develop the First Automated Face Recognition System for
Brown Bears

Comparing Seasonal Vitamin D Levels in 1.2 Aldabra Tortoises

Comparison of Circulating Vitamin D (250HD) in Captive North American and Free-ranging South African Black Rhinoceros (*Diceros bicornis* spp.)

Endocrine Trajectories of Orangutan Male Secondary Sexual Development

Genetic and Phenotypic Characterization of Cystic Fibrosis Airway Disease in Non-Human Primates

Great Ape Neuroscience Project

Imported Elephant Welfare Initiative

Integration of Multi-Institutional Tumor Data in Exotic and Zoological Species for Characterization of Novel Cancer Models

Investigating the Genetic Basis for Inflammatory Bowel Disease in the Maned Wolf

Male Western Lowland Gorilla (*Gorilla gorilla gorilla*)

Hormonal Variation During Social Group Dissolution and
Formation

Monitoring Body Condition, Reproductive, and Metabolic Hormones in African Elephants: Using Science to Aid Management Decisions to Optimize Health and Welfare of Zoo Elephants

Prevalence of Amdovirus in Red Pandas

Prevalence, Risk Factors, and Survival of Zoo Animals With Cancer

SUNSET ZOOLOGICAL PARK

Field Conservation

AZA Conservation Grants Fund (CGF)

AZA FrogWatch USA

Bug Safari Citizen Science Project

Friends of Sunset Zoo Conservation Scholar Program 2018-1

Friends of Sunset Zoo Conservation Scholar Program 2018-2

Friends of Sunset Zoo Conservation Scholar Program 2018-3

Honey Bee Conservation Project

Puerto Rican Crested Toad Breeding Facility

Wildlife SOS - Conservation Education Project

Zoo Conservation Outreach Group (ZCOG) - Wildlife Conservation and Education

Green Practices

ENERGY

Documented Amount Used

Generated Renewable Energy On-Site

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Commingled Recycling

Generated Solar or Wind Energy

Green Building Policy/Commitment

Stormwater Management Program

Wastewater Reduction

THE DAVID TRAYLOR ZOO OF EMPORIA

Education

Animal Presentations/Classroom Brief Animal Encounters

Birthday Parties

Boo in the Zoo

Care Home Visits

Career Fair

Docent in the Zoo

Docent Meetings

Docent Training

Kidzoocation

Lessons

Open House

Party for the Planet

QR Code Project

Safari Edventure

Scout Programs

Spring Forward

Stroll and Show

Summer Library Visits

Zoo Camp

Zoo Tours

Field Conservation

Additional Pollinator Plantings

AZA Conservation Grants Fund (CGF)

Conservation Graphics

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Monarch Waystations and Tagging

National Wildlife Federation - Wildlife Habitat Certification

Party for the Planet "Seed Bombs"

Reintroduction of Black-Footed Ferrets in Kansas

Species 360

Symbolic Migration at Safari Edventure

Green Practices

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Graywater Reuse and/or Rainwater Harvesting

Stormwater Management Program

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

Research

Black-Footed Ferret Survey

Pronghorn Antelope Field Survey

TOPEKA ZOO

Education

A Sense of Touch

Animal Adaptations

Animal and Their Young

Animal Classifications

Birds of Prey

Body Coverings

Bugs Bugs Bugs

Career Talk

Conservation Connection

Discovery Home School

Eco-Club

Ecosystems and Habitats

Library Programs

Monarch Citizen Science

Myth Busters

Native Americans of the Prairie

Preschool Class (Previously Tots and Tales)

Scout Programs

Spiders

Spring Break Camp

Summer Camp

The Hunters and the Hunted

The Untouchables

Threatened and Endangered

Why Zoos Matter

Winter Camp

Field Conservation

AZA FrogWatch USA

AZA SAFE

AZA Tiger SSP - Tiger Conservation Campaign

Black-Footed Ferret Reintroduction Project of Western Kansas

Elephants Helping Elephants in Sumatra - Asian Elephant Support

Firefly Watch

Genetic Testing of Hoffmann's Sloth SSP Population

International Elephant Foundation (IEF)

Katie Adamson Conservation Fund

LuBee Bat Conservancy

Monarch Watch

Ornate Box Turtle Survey

Salt Creek Tiger Beetle Recovery Plan

Trumpeter Swan Reintroduction Program

Turtle Survival Alliance

Wildlife Conservation Society (WCS) - 96 Elephants

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Generated Solar or Wind Energy

Green IT

Research

American Black Bears and Sun Bears - Bear TAG Survey

Constraints of Biomass on Innate Immunity Across Terrestrial Mammals

Developing Genomic Tools for North American River Otter (*Lontra canadensis*) Population Management

Identifying Hepatoxicity From ACE Inhibitor Administration in Gorillas

Interactive Technology Use With Captive Great Apes

Oxytocin as a Measure of Social Bond and Welfare in
Western Lowland Gorilla (*Gorilla gorilla gorilla*) in NA Zoos

Species and Sex Genetic Testing of Two-Toed Sloths (*Choloepus* spp.) in the SSP Programs

Kentucky

LOUISVILLE ZOOLOGICAL GARDEN

Field Conservation

Black-Footed Ferret Conservation Center

Dian Fossey Gorilla Fund International

FlutterFest

International Elephant Foundation (IEF)

Monarch Watch - Monarch Waystation Program

Pan African Sanctuary Alliance (PASA)

Polar Bears International (PBI)

Snow Leopard Trust (SLT)

Wildlife Conservation Society 96 Elephants Program

NEWPORT AQUARIUM

Education

Camp WAVE

Career Exploration Initiative: Job Shadow Programs

Community Development Contribution

Gills Club

Living Curriculum Initiative

Marine Biology and Conservation Lecture Series

Overnight Adventure Program

The Finstitute

WAVE on Wheels Outreach Program

Field Conservation

Aquarium Conservation Partnership (ACP)

AZA SAFE - African Penguin - Global Penguin Conservation Initiatives

Global Sea Turtle Conservation - North Carolina

River Sweep

SAVE LOCAL WATERS

Seafood Watch

WAVE Foundation

Green Practices

ENERGY

Documented Amount Used

FUEL

Documented Amount Spent

Documented Amount Used

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

Specified a Portion of the Amount Saved for Next Year's Green Practices

WATER

Documented Amount Spent

Documented Amount Used

Research

Living Curriculum Initiative

Shark Research

Louisiana

AUDUBON AQUARIUM OF THE AMERICAS

Field Conservation

Gulf United for Lasting Fisheries (GULF)

Green Practices

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Community-Based Sustainability Projects

Procured Local Food for On-Site Animals and/or Guest

Water Submetering

Research

Conservation Wildlife Network (Formerly LMSSTRP)

AUDUBON NATURE INSTITUTE

Green Practices

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Green Building Policy/Commitment

Green IT

Green Purchasing Policy/Green Procurement

AUDUBON ZOO

Education

AZA FrogWatch USA

EarthFest

JR. KEEPERS

Self Guided Explorations

Sensory Sundays

Summer Camp

Swamp School/Jungle School

Field Conservation

Giraffe Conservation Foundation (GCF)

International Elephant Foundation (IEF)

International Iguana Foundation (IIF)

Malaysian Ape Conservation

Mariana Avifauna Conservation (MAC) Project

Turtle Survival Alliance (TSA)

Zoo Conservation Outreach Group (ZCOG)

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FUEL

Documented Amount Spent

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

Certified by the Green Restaurant Association

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Completed Greenhouse Gas Inventory

Composting (On-Site or Off-Site)

Denitrification Systems On Ground

Diverted or Recycled Construction Waste

Energy Submetering

Generated Energy through Anaerobic Digester

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Green IT

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Smart Building Strategies

Stormwater Management Program

Used Enterprise (IT) Solutions to Track and Measure

Sustainability Performance

Used Environmental Management System

Wastewater Reduction

Water Submetering

Waterwise Landscaping

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WATER

Documented Amount Spent

BREC'S BATON ROUGE ZOO

Green Practices

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Denitrification Systems On Ground

Diverted or Recycled Construction Waste

Procured Local Food for On-Site Animals and/or Guest

Stormwater Management Program

FREEPORT-MCMORAN AUDUBON SPECIES SURVIVAL CENTER

Field Conservation

Mississippi Sandhill Crane Propagation and Recovery Program

Proyecto Taguá/Chaco Center for Conservation and Research (CCCR)

Whooping Crane Recovery Program

Green Practices

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Green Purchasing Policy/Green Procurement

Research

A Comparison of Nesting Material Preferences in Milky Storks (*Mycteria cinerea*)

PINOLA CONSERVANCY

Field Conservation

Pinola Conservancy Wetland and Migratory Bird Conservation Initiative

Maryland

NATIONAL AQUARIUM

Education

Aqua-Partners Schools

Aquarium on Wheels Youth Program

Free School Group Admission Program

Gills Club

Henry Hall Summer Camps

Middle School After School Program - All About Water

On-Site Classroom Programs

Outreach Programs

Summer Student Volunteers

Teacher Orientation

Teacher Training Workshops

Terrapins in the Classroom

Wetland Nursery

What Lives in the Harbor

Youth Ocean Conservation Summit - Baltimore

Field Conservation

Animal Rescue

Atlantic White Cedar Restoration in Nassawango Creek Preserve, Maryland

Citizen Science: BioBlitz

Delaware Shorebird Project

Fort McHenry Tidal Wetland Restoration Project

Habitat Restoration

Marine Debris Prevention and Removal

Model Urban Waterfront

National Oceanic and Atmospheric Administration (NOAA)

- Apex Predator Program (APP) - Shark Tagging/Semen Collection for South-East Zoo Alliance for Reproduction and Conservation (SEZARC)

Sand Dune Restoration - Virginia

SaveNature.Org - Marine Conservation Meter

SaveNature.Org - Rainforest Conservation Parking Meter

Shoreline Restoration and Community Engagement at Masonville Cove

Urban Conservation and Community Engagement

Urban Conservation and Education Internship

Wildlife Habitat Gardening

Green Practices

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

One or More Buildings LEED-Certified by the US Green Building Council

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Building Energy Management

Commingled Recycling

Community Supported Agriculture (CSA) Program for Staff

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Denitrification Systems On Ground

Diverted or Recycled Construction Waste

Graywater Reuse and/or Rainwater Harvesting

Green IT

Procured Local Food for On-Site Animals and/or Guest

Purchased Green Power or Renewable Energy Credits (RECs)

Stormwater Management Program

Wastewater Reduction

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

Research

Assessment of Visual Laterality in Bottlenose Dolphins (*Tursiops truncatus*) During Touchscreen Sessions and During Peephole Sessions

Controlled Environmental Testing for an Integrated Genomics
Platform for Temporal Analysis of Marine Biodiversity

Dolphin Blowhole Oil Droplet Study

Dolphin Genomics Study

Dolphin Touchscreen Study

Environmental Impact Statement Patuxent River

Hormonally-Induced Oviposition in the Smooth-Sided Toad (Rhaebo guttatus)

Identifying and Understanding Parasitic Nematode Infections in Marine Mammals

Interspecific Variation of Cutaneous Water Loss (CWL)
Among Reptiles and Amphibians

Northeast Region Sea Turtle Sampling Protocol

SALISBURY ZOOLOGICAL PARK

Field Conservation

Andean Bear Conservation Partnership

THE MARYLAND ZOO IN BALTIMORE

Education

Adult Summer Camp

Animal Ambassador Encounters

Animal Craft Safari

Art Class Outreach

Community Event Programs

Conservation Conversation

Exploration Stations

Field Talks

Field Trips (Self-Guided)

Guided Zoo Tours

Kids in Kayaks Partnership

On-Site Interpretation

Partner Package

Pediatric Hospital Outreach

Penguin Feeding Talks

Pop-Up Labs

Puppet Shows

Sip and Stroll

Special Interest Workshop

Storytime With the Zoo

Stroller Safari

Summer Camp

Superkids

Walks on the Wild Side

Zoo Introduction

Zoo Snooze Overnight

ZOOlabs

ZOOMobile

Field Conservation

Adkins Arboretum

AZA Conservation Grants Fund (CGF)

AZA HAZWOPER Training

AZA SAFE - African Penguin Disaster Response

AZA SAFE - African Penguin SSP Sustainability Project

Bluebird Nest Project

Brown Pelican Banding and Health Survey

Cheetah Conservation Fund (CCF)

Crocodilian Conservation Center of Florida

Elephants for Africa

Goualougo Triangle Ape Project (GTAP)

Health and Ecology Survey of Maryland Black Bear Sows and

Cubs (*Ursus americanus*)

Health Status and Welfare of Translocated Bolivian River Dolphins (*Inia boliviensis*) Experiencing High Anthropogenic Disturbances

IA DNR Trumpeter Swan Restoration Project

International Elephant Foundation (IEF)

Mabula Ground Hornbill Project (MGHP)

Madagascar Fauna and Flora Group (MFG)

Maryland Zoo Restorative Ecosystem and Storm Water Management Project

Microbiota and Innate Immunity of Amphibian Skin

Mountain Gorilla Veterinary Project

Okapi Conservation Project

Polar Bears International (PBI)

Project Golden Frog

Project SNOWstorm

Sahara Conservation Fund (SCF)

Southern African Foundation for the Conservation of Coastal Birds (SANCCOB)

Susquehannock Wildlife Society

Turtle Survival Alliance (TSA)

Green Practices

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Stormwater Management Program

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

Research

Artificial Insemination of Female Polar Bears

Assessment for Avian Malaria Transmission in Captive African Penguins

Behavioral Changes in Lion-Tail Macaques Following Introduction of a Singly Housed Male to an Established Male-Female Pair

Cheetah ConservationFIT

Comparison of a Dry Powder vs a Complete Gel Diet Over Time in House Cricket Nymphs (Acheta domesticus)

Ecology and Health Study of Free-Ranging Eastern Box Turtles Within the Grounds of The Maryland Zoo in Baltimore

Effect of Dietary Shifts on the Microbiome of African Savannah Herbivores

Exogenous Hormone Induction of Oviposition in Gravid Panamanian Golden Frogs (*Atelopus zeteki*)

Health Surveillance of Free-Ranging Raccoons (*Procyon lotor*) and Red Foxes (*Vulpes vulpes*) on the Grounds of The Maryland Zoo in Baltimore

Improvement of the Diagnosis of Aspergillosis in Penguins

Interspecific Variation of Cutaneous Water Loss (CWL)
Among Reptiles and Amphibians

Malaria Pathogen Amplification and Gene Sequencing

Pharmacokinetics of Antimalarial Primaquine in African Penguins

STEM Matters: Investigating a Confluence of Visitors and Institutional Agendas

Use of Herbal Supplements to Decrease Anxiety in an Adult Female Chimpanzee (*Pan troglodytes*)

Massachusetts

BUTTONWOOD PARK ZOO

Education

Animal Ambassador Encounters

Bear Cub Club

Boo at the Zoo

Creature Creations

Education Volunteers

Elephant Appreciation Day

Endangered Species Day

FrogWatch USA Training

Keeper Chats

Overnight Programs

Party for the Planet

Puddle Jumpers

School Programs

Science On a Sphere

Vulture Awareness Day

Wildlife Education Series

World Oceans Day

ZooCrew

Field Conservation

Elephant Care International

Genetic Analysis of the US Population of Baer's Pochard (*Aythya baeri*) for Improved Captive Management

Grow Trees for Golden Lion Tamarins

Proyecto Tití

The Muriqui Project of Caratinga

Green Practices

ENERGY

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Composting (On-Site or Off-Site)

Green Purchasing Policy/Green Procurement

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Used

Research

A Review of Asian and African Elephant Gastrointestinal Anatomy, Physiology, and Pharmacology

Clinical Management of a Complete Gastrointestinal Obstruction and Ileus in a Geriatric Female Asian Elephant (Elephas maximus)

CAPRON PARK ZOO

Field Conservation

Red Panda Network

Research

Developing Genomic Tools for North American River Otter (*Lontra Canadensis*) Population Management

Genomic Investigation of Cardiomyopathy in Meerkats

FRANKLIN PARK ZOO

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Composting (On-Site or Off-Site)

Procured Local Food for On-Site Animals and/or Guest

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

MUSEUM OF SCIENCE

Education

Animal Habitats

Butterfly Garden Experience

Charles River Field Station

Eye Opener Behind the Scene at the Live Animal Center

IMAX Film

Life Cycles

Live Animal Presentations

Meet The Curator

Overnight Field Trips

Traveling Programs - Animal Invaders

Field Conservation

Karner Blue Butterfly Restoration Project

Northern Red-Bellied Cooter (*Pseudemys rubriventris*) Headstart Program

Green Practices

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Generated Solar or Wind Energy

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

Research

Designing for Productive Struggle

NEW ENGLAND AQUARIUM

Education

Aquarium Teen Internship Program

Behind the Scenes Tours

Harbor Discoveries Summer Camp

Interpretation

Live Blue Ambassadors

Live Blue™ Service Initiative

Marine Biologists in Training

National Network for Ocean and Climate Change

Interpretation

Public Programs

Student Programs

Teacher Services

Visualizing Change

Field Conservation

Conservation Medicine Program

Consortium for Wildlife Bycatch Reduction

Marine Conservation Action Fund

Marine Spatial Planning

Right Whale Research Project

Sea Turtle Conservation and Research

Sustainable Aquaculture

Sustainable Ornamental Fish Initiative

Sustainable Seafood Programs

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Purchased Renewable Energy

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FUEL

Documented Amount Spent

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Alternative Transportation Discounts for Guests

Building Energy Management

Commingled Recycling

Community Supported Agriculture (CSA) Program for Staff

Completed Greenhouse Gas Inventory

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Generated Solar or Wind Energy

Green IT

Green Purchasing Policy/Green Procurement

Purchased Green Power or Renewable Energy Credits (RECs)

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

Research

Elasmobranch Mortality and Stress Physiology

Marine Stress Research

National Network for Ocean and Climate Change Interpretation (NNOCCI) - Research and Evaluation

Research Support: Administration

Research Support: Administration Overhead

Research Support: Animal Care and Use Committee (ACUC)

WALTER D. STONE MEMORIAL ZOO

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Composting (On-Site or Off-Site)

Procured Local Food for On-Site Animals and/or Guest

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

ZOO NEW ENGLAND

Field Conservation

Anteaters and Highways

AZA Ape TAG - Conservation Initiative

AZA Wildlife Trafficking Alliance

Bat Conservation International (BCI)

Blanding's Turtle Conservation, Management, and Education

Blue-Spotted Salamander Population Assessment

Eastern Box Turtle Conservation and Management

Eastern Spadefoot Toad Reintroduction

Giraffe Conservation Foundation

Gorilla Rehabilitation and Conservation Education (GRACE) Center

Hicatee Turtle Conservation With BFREE

International Giraffe Day

Jaguar Cockscomb Wildlife Sanctuary

Lowland Tapir Conservation Initiative

Marbled Salamander Conservation and Management

New England Blazing Star and Other Rare Wildflower Conservation

Panama Amphibian Rescue and Conservation (PARC)

Pangolin Conservation

Peregrine Fund

Pollinator Partnership

Snapping Turtle Education Program

Snow Leopard Trust (SLT)

Spotted Turtle Conservation and Management

Wood Frog Headstarting and Education Program

Wood Turtle Conservation and Management

Green Practices

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting (On-Site or Off-Site)

Research

Addendum to: Oxytocin as a Measure of Social Bond and Welfare in Western Lowland Gorillas (Gorilla gorilla gorilla) in North American Zoos

Assessment of Basal Seminal Traits and Semen Cryopreservation in the Canada Lynx (Lynx canadensis)

Collection Stewardship of Endangered Small Wild Felids

Developing New Tools for Integrating DNA Data Into AZA **Breeding Programs**

Drinking Water Quality and Water Husbandry in AZA Zoos

Fecal Survey of Red Panda SSP Population for Amdoparvovirus

Generation and Characterization of an Immortalized Erythroroid Progenitor Cell Line From Western Lowland Gorilla Peripheral Blood

Nonhuman Primate Lymphocryptoviruses

Tapir Baby Photo Database for *In-Situ* Field Researchers

Michigan

BINDER PARK ZOO

Education

BIG Zoo Lesson

Birthday Parties

Critter Encounters and Biofacts

Family Slumber Party

FAWN Playgroup

Overnight Safari

Safari Day Camps

Wild Encounters

Wild Walks

Zoo Snooze

Zoomobile

Field Conservation

Action for Cheetahs in Kenya

Adopt-A-Beach

American Association of Zoo Keepers (AAZK) - Bowling for Rhinos

Amphibian Conservation Project

AZA SAFE - Cheetah

Butterfly Monitoring

Giraffe Conservation Foundation

Piping Plover Patrol and Recovery Program

Snow Leopard Trust (SLT)

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Research

A Comprehensive Approach to Improve Management in an

Endangered Wild Canid

DETROIT ZOO

Education

Adult Programs

After School Programs

Family Fun Fridays

Hospital Programs

Humane Education Horticulture Program

Learning Labs

Nature Tots

Outreach

Professional Development

School District Partnerships

Scout Program

Volunteen Activities

Wild About Animal Days

Zoo Tots

Zoo Tots II

Zookeeper Camps

Field Conservation

African Elephant Conservation Trust

American Association of Zoo Keepers (AAZK) - Bowling for

Rhinos

American Beaver Project

American Marten Management Project

Amphibians in Peru

Amur Tiger Conservation

Animals Asia

Ape Action Africa

Armenian Brown Bear-Human Conflict Mitigation

Armenian Otter Conservation

Armenian Viper Project

AZA Ape TAG - Conservation Initiative

AZA Avian Scientific Advisory Group (ASAG)

AZA Conservation Grants Fund (CGF)

AZA Dusky Gopher Frog SSP - Reintroduction Project

AZA Eastern Massasauga Rattlesnake SSP

AZA FrogWatch USA

AZA Panamanian Golden Frog SSP

AZA Puerto Rican Crested Toad SSP

AZA Wyoming Toad SSP

Bat Conservation International (BCI)

Bird Strike Prevention at the Detroit Zoo

Black Crowned Night Herons

Blanding's Turtle Headstart Project

Blue Spotted Salamanders

Common Tern Nesting Habitat Restoration in the Detroit

River and Lake St. Clair

Conservación de la Naturaleza Amazónica del Perú

(CONAPAC)

Conservation International - Amphibian Survival Alliance

Conservation Staff Labor

Craig Packer Lion Conservation Project

Cryptobranchid Interest Group

Eastern Massasauga Rattlesnake Field Survey

Falkland Island Conservation

Giraffe Conservation Foundation (GCF)

Gorilla Doctors

Gorilla Rehabilitation and Conservation Education (GRACE)

Center

Great Lakes Colonial Waterbird Monitoring

Great Lakes Piping Plover Salvage Captive Rearing

Grevy's Zebra Trust

Hanzaki Institute - Japanese Giant Salamander Conservation

Hawkwatch International

Honduras Amphibian Rescue and Conservation Center

(HARCC)

Isle Royale Wolf Study

IUCN Red List of Threatened Species

IUCN/SSC Conservation Planning Specialist Group (CPSG)

IUCN/SSC Flamingo Specialist Group IUCN/SSC Penguin Specialist Group

Jane Goodall Institute

Jane Goodall Institute - Nepal Kirtland's Warbler Initiative

Lao Conservation Trust for Wildlife

Lion Conservation, West Africa

Mad Dog Initiative (MDI)

Michigan Bird Conservation Initiative

Mudpuppy Monitoring

Ngogo Chimpanzee Project

Osprey Management in Southeast Michigan

Ostrich Specialist Group

Pan African Sanctuary Alliance (PASA)

Pandrillus Foundation

Partula Field Program Consortium

Penguin Sentinels

Peregrine Monitoring

Peru Adopt-A-School

Polar Bear and Grizzly Resource Overlap in Kaktovik, Alaska

Polar Oceans Research Group

Pollinator Conservation

Rainforest Trust

Red Panda Network (RPN)

Science and Conservation Centre

Snares to Wares, Lion Conservation

Snow Leopard Conservation in Nepal and China

Snow Leopard Trust (SLT) Striped Newt Conservation

The Ocean Project

The Peregrine Fund

The Think Tank for Kangaroos (THINKK) of the University of Technology Sydney Center for Compassionate

Conservation

Tree Kangaroo Conservation Program

Turtle Survival Alliance (TSA)

Urban Bird Treaty

Urban Ecology of Bats

VulPro

Wild Camel Protection Foundation (WCPF)

Wildlife Conservation Network (WCN) - Ewaso Lions

Wildlife Conservation Society (WCS) - Shark Campaign

Wildlife SOS

World Conservation Monitoring Center (WCMC)

Wyoming Toad Survey

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

Purchased Renewable Energy

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

Certified by the Green Restaurant Association

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Energy Submetering

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Green IT

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Purchased Carbon Offset(s) for On-Site Utility Use

Purchased Green Power or Renewable Energy Credits (RECs)

Stormwater Management Program

Used Enterprise (IT) Solutions to Track and Measure Sustainability Performance

Wastewater Reduction

Water Submetering

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

Research

Aesthetics, Emotions, and Choice in Western Lowland Gorillas

Affective Bias Tests in Gorillas

An observational study on the contributions of environmental factors to social behaviors of Pan troglodytes

Behavioral Impacts of Cataract Surgery for Crested Penguins

Cause of Mortality in a Captive Assurance Population of Wyoming Toads Over a 16 Year Period

Dominance, Individual Welfare, and Spatial Compression in a Captive Bachelor Gorilla Group

Evaluating Oxidative Physiology as an Indicator of Welfare in Crested Penguins

Evaluating the Impacts of Habitat Expansion on the Welfare of Three Male Grizzly Bears at the Detroit Zoo

Evaluating the Welfare Impacts of a Major Habitat Change for Japanese Giant Salamanders (Andrias japonicus)

Evaluation of Behavioral Opportunities for Aardvarks

Great Ape Heart Project

Holtzman Wildlife Foundation Red Panda Forest Post-Occupancy Evaluation

Personality in Blanding's Turtles

Survey of Ocular Health and Pathology in Two Populations of Captive Panamanian Golden Frogs (Atelopus zeteki)

The Effects of a New, More Complex Habitat on Indicators of Welfare in Penguins at the Detroit Zoo

The Effects of Foraging Opportunities on the Activity Levels of Geriatric Chimpanzees (Pan troglodytes)

The Efficacy of Enrichment Items for Eliciting Foraging and Feeding Behaviors in Seals Living in the Care of Humans

The Impact of Browse Availability on the Behavior and Hormones of Captive Gorillas

The Impact of Visitor and Keeper Presence on the Welfare of Captive Southern White Rhinoceros at the Detroit Zoo

Ultrasound Measurement of Yolk Sac Dimension and Appearance as Predictors of Yolk Sac Retention and Infection in the Penguin Chick

Underwater Behavior of Gentoo (Pygoscelis papua) Penguins

Validating Infrared Thermography as a Tool to Assess the Impact of Human-Animal Interactions

Welfare Assessment of Five Juvenile Madagascar Giant Hognose Snakes (Leioheterodon madagascariensis) During a Habitat Modification

Wyoming Toad Habitat Choice

JOHN BALL ZOO

Education

AZA FrogWatch USA

Behind the Scenes Tours

Keeper for a Half Day and Job Shadows

Kids' Night Out

Overnight Adventures

Scout Programs

Sprouts

STEM Classes

Teen Volunteer Program

Traveling Zoo

Twilight Tours

Wild Encounters

Zoo Camp

Zoo Explorers

Zoo Lab

Field Conservation

AZA SAFE

AZA Tiger SSP - Tiger Conservation Campaign

Conservation of the Endemic Chelonians of Sulawesi: Foresten's Tortoise and Sulawesi Forest Turtle

Eastern Massasauga Rattlesnake Longitudinal and DNA Study

Great Lakes Piping Plover Recovery Effort

Inspiring Community for Wildlife Conservation

John Ball Zoo Turtle Population Monitoring Project

Lake Sturgeon Conservation

Limbe Wildlife Centre

Limbe Wildlife Centre Green Leaf Project

Monarch Butterfly Raise and Release Program

Preserving Hesperapis oraria (Gulf Coast Bee) Through Better Food Security

Preventing the Transference of the Fatal Canine Distember Virus (CDV) to African Wild Dog Around the Okavango

Primate Care Training Program

Red Panda Network (RPN)

Tsavo Cheetah Project

Wood Turtle Headstarting Project

Green Practices

ENERGY

Documented Amount Spent Documented Amount Used

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Energy Submetering

Smart Building Strategies

Water Submetering

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

POTTER PARK ZOOLOGICAL GARDENS

Education

Animal Science and Zoo Management High School Class

Arbor Day

AZA FrogWatch USA

BIG Zoo Lesson

College and University Lectures

Conservation Talks

Earth Day Celebration at the Capitol

Encounters **FALCONERS**

Michigan Bat Festival

Nights at the Living Museum

One Day Extended Learning

Outreach Program

Outreach Station

Overnight Experiences

Party for the Planet

Red Panda Day

Scout Badge Workshops

Summer Camp

Tours

Two at the Zoo

World Migratory Bird Day

World Rhino Day

Zoo In Your Neighborhood

Field Conservation

American Association of Zoo Keepers (AAZK) - Bowling for Rhinos

AZA FrogWatch USA

AZA Puerto Rican Crested Toad SSP

AZA SAFE - Vaquita

Eastern Massasauga Rattlesnake Field Study

Great Lakes Piping Plover Management and Restoration

Guam Kingfisher SSP - Breeding/Reintroduction

Least Shrew Field Research Project

Michigan Wildlife Conservancy

Quarters for Conservation

Red Panda Day

World Rhino Day

Green Practices

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Green IT

Smart Building Strategies

Waterwise Landscaping

Research

Behavioral and Biological Reasons for Unsuccessful Breeding in Black Rhinos: Olfactory Stimulation as a Method for Improvement

SAGINAW CHILDREN'S ZOO

Education

Behind the Scenes Tours

E-Newsletter

Exhibit Interpretation

Hatchlings

Living Learning Lab

Lunch and Learn

Outreach

Palm Oil Handout

Party for the Planet

Rainforest Brochure

Samaritas After School Program

SaveNature.Org Pamphlet

Seafood Watch Pocket Guide & Interpretation

Zoo Camp

Field Conservation

Adopt-A-Highway

AZA Conservation Grants Fund (CGF) - Silent Auction

AZA Cotton-Top Tamarin SSP

AZA Mexican Wolf SSP

AZA SAFE

Citizen Bat League

Citizen Science Training

Great Lakes Piping Plovers

Hingeback Tortoise Headstart Project

Invasive Species Removal

Kirtland's Warbler Alliance

Kirtland's Warbler Jack Pine Planting

Lake Sturgeon Recovery

Michigan Frog and Toad Survey

Mr. Ellie Pooh Provecto Tití

Saginaw River Clean-up

Samaritas Community Center After School Program

SANCCOB Animal Professional Exchange

Sandhill Crane Population Survey

SaveNature.Org

Seafood Watch Visitor Cart

Snow Leopard Trust

Southern African Foundation for the Conservation of Coastal

Birds (SANCCOB)

Wood Duck Nests at Discovery Preserve

World Oceans Day

Zoo Brown Bag Lunch Series

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Graywater Reuse and/or Rainwater Harvesting

Green IT

Procured Local Food for On-Site Animals and/or Guest

WATER

Documented Amount Spent

Documented Amount Used

Minnesota

COMO PARK ZOO AND CONSERVATORY

Education

After School Program

Animal Ambassadors

Animal Demo/Training

AuSM (Autism Society of Minnesota)

Birthday Parties

Camp Como

Discovery Series

Early Childhood Programs

Free Educational Events

Gardener Talks

Group Tours

Interpretive Interactive

Keeper Talk

Residency Program

School and Group

Scouting Programs

Storytime

Field Conservation

Audubon Society's Project Puffin

AZA Orangutan SSP - Field Initiative Program

AZA Wyoming Toad SSP - Master Plan Meeting and Fieldwork

Biosphere Expeditions Snow Leopard Survey in Kyrgyzstan

Channel Islands Marine and Wildlife Institute

Mariana Avifauna Conservation Project Through Pacific Bird

Conservation

Mississippi Gopher Frog Breeding Project

Polar Bears International (PBI)

SAFE Orangutan

Seafood Watch

Sloth Conservation in Costa Rica

Snow Leopard Trust (SLT)

Tropical Ecology of Costa Rica

Wild Nature Institute

Green Practices

ENERGY

Documented Amount Used

Generated Renewable Energy On-Site

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Community Supported Agriculture (CSA) Program for Staff

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Energy Submetering

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green IT

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Purchased Carbon Offset(s) for On-Site Utility Use

Smart Building Strategies

Stormwater Management Program

Water Submetering

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

WASTE

Documented Amount Sent to Landfill

WATER

Documented Amount Used

Research

Germplasm Project With Omaha's Henry Doorly Zoo and Aquarium

Giraffe Welfare Project

Gonadal Rescue Project With Omaha's Henry Doorly Zoo and Aquarium

LAKE SUPERIOR ZOO

Education

Behind-the-Scenes Tours

Birthday Party Animal Encounters

Docent Animal Encounters

Family Programs

Homeschool Classes

Interpretive Carts

Job Shadowing Programs

Keeper Talks

Outreach Programs

Overnight Programs

Preschool Classes

School Group Programs

School Kits

Summer Day Camps

Toddler Classes

Volunteer Continuing Education

Winter Camps

Zoo Crew Summer Teen Program

Field Conservation

AZA Felid TAG

Bat Conservation International (BCI)

Big Island Resource Conservation and Development Council

Mexican Wolf SSP

Proyecto Tití

Snow Leopard Trust (SLT)

The Peregrine Fund

Turtle Survival Alliance

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

FOOD

Sourced Local Food or Grew it On-Site

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Composting (On-Site or Off-Site)

Generated Solar or Wind Energy

Procured Local Food for On-Site Animals and/or Guest

MINNESOTA ZOOLOGICAL GARDEN

Field Conservation

Amur Leopard and Tiger Alliance (ALTA)

AZA SAFE

AZA SAFE - African Penguins

AZA Tiger SSP - Tiger Conservation Campaign

Bird Window Collision Conservation Research

Bison Recovery - Minnesota

Black Rhino Conservation - Namibia

Coral Reef Restoration

Dhole Field Conservation

Freshwater Mussel Conservation

Hartmann's Mountain Zebra Conservation

Hawaiian Monk Seal Conservation

Invest in the Nest - African Penguin Conservation

In-Water and Nesting Beach Conservation of Marine Turtles

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Macaw Conservation

Malayan Tapir Conservation

Minnesota Turtle Conservation

Moose Conservation Research: Minnesota

Prairie Butterfly Conservation: Minnesota

Przewalski's Horse Conservation in China and Mongolia

Recycle for Rainforests

Reducing Bear-Human Conflict

Rusty-Patched Bumble Bee Research and Conservation

Save the Wild Chinchillas

Sea Otter Conservation

Southern African Foundation for the Conservation of Coastal Birds (SANCCOB) - African Penguin Conservation

Ulysses S. Seal Conservation Grant Program

Green Practices

GREEN CERTIFICATIONS

One or More Buildings LEED-Certified by the US Green **Building Council**

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Alternative Transportation Discounts for Guests

Commingled Recycling

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Green IT

Green Purchasing Policy/Green Procurement

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

Research

Asian Wild Horse Anesthesia Study

Development of a Genome Resource Bank and Transcervical Insemination for the Genetic Management of Tigers

Dolphin Demographic Parameters in Captivity and in the Wild

Epidemiology of *Trueperella pyogenes* Infection in Pronghorn Antelope

Evaluating the Effects of Enrichment Treatments on Behavior of Animals at the Minnesota Zoo

Genetic Values of Possible Parents With Analysis of Pedigrees That Contain MULT Groups

IUCN Red Listing for Butterflies

Reproductive Biology of Canada Lynx

Missouri

DICKERSON PARK ZOO

Field Conservation

Action for Cheetahs in Kenya

American Association of Zoo Keepers (AAZK) - Bowling for Rhinos

AZA Conservation Grants Fund (CGF)

AZA Tiger SSP - Tiger Conservation Campaign

Cheetah Conservation Fund (CCF)

Dian Fossey Gorilla Fund International

Dong Phayayen-Khao Yai Carnivore Conservation Project

Giraffe Conservation Foundation (GCF)

International Bongo Foundation

International Crane Foundation (ICF)

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Madagascar Fauna and Flora Group (MFG)

Niassa Carnivore Project

Proyecto Taguá/Chaco Center for Conservation and Research (CCCR)

Proyecto Tití - Conserving the Critically Endangered Cotton-Top Tamarin in Colombia

Raptor Rehabilitation

Sahara Conservation Fund (SCF) – Adopt-an-Ostrich Program

Save the Golden Lion Tamarin

SaveNature.Org

The Katie Adamson Conservation Fund

Turtle Survival Alliance (TSA)

Wildlife Conservation Society (WCS) - Grizzly Bear Conservation in the United States/96 Elephants

Zoo Conservation Outreach Group (ZCOG)

Research

A Survey of Elephants Having Had Human Assisted Lifts and Their Relevant Health Issues and Survivability

Ameoblastic Fibroma in a Captive Female Mexican Wolf (Canis lupus baileyi)

Analysis of Female Asian Elephant Prolactin Levels

Concentration-Dependent Chemosensory Responses
Towards Pheromones are Influenced by Receiver Attributes
in Asian Elephants

Endocrine Analysis and Assisted Reproductive Techniques in the Malayan Tiger (*Panthera tigris jacksoni*)

Evaluation of Prey Items and Their Effect on Predatory Behavior of Captive Wild Raptors

Evaluation of Progesterone and Luteinizing Hormone (LH) Concentrations in Female Asian Elephants

Evaluation of Symmetric Dimethylarginine Assay as a Marker for the Detection of Renal Disease in Domestic Chickens (*Gallus gallus domesticus*)

Geriatric Elephant Survey

Herd Dynamics in Captive Elephants of North America

High Diversity of Cryptic Piroplasm Infections in Raccoons From Selected Areas of the United States and Canada (Formerly named Babesia study)

Investigate the Approaches of AZA Accredited Zoos in Connecting Their Research With the Public

National Elephant Endotheliotropic Herpesvirus (EEHV) Lab

Pulmonary Aspergillosis in an Aldabra Tortoise (Aldabrachelys gigantean)

Reproductive Tract Neoplasia in Adult Female Asian Elephants

The Pharmacokinetics of Tramadol in African (*Loxodonta africana*) and Asian Elephants (*Elephas maximus*)

Wildlife Computational Ecology Lab

ENDANGERED WOLF CENTER

Field Conservation

AZA Mexican Wolf SSP - Meeting

KANSAS CITY ZOO

Field Conservation

Amphibian Ark

AZA Ape TAG - Conservation Initiative

AZA Tiger SSP - Tiger Conservation Campaign

Bird Endowment - Saving the Blues - Nido Adoptivo

Black Footed Cat Working Group

Black Mamba Anti-Poaching Initiative

Bolivian Amphibian Initiative - Lake Titicaca Water Frog

Botswana Predator Conservation Trust

Brown Hyena Project

Cheetah Conservation Fund (CCF)

Conservation Lower Zambezi

Eastern Spotted Skunk Health and Disease Assessment

Freshwater Mussel Propagation and Reintroduction

Giraffe Conservation Fund

Humboldt Penguin Consortium

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Kansas City Zoo African Elephant Reproductive Conservation Initiative

Mabula Ground Hornbill Project

Marine Mammal and Pinniped Rescue Program/Marine Mammal Center

Marine MegaFauna Foundation

Panamanian Golden Frog Breeding Program

Pangolin Conservation

Polar Bear Arctic Ambassador and Research Program

Red Panda Network

Roundtable on Sustainable Palm Oil (RSPO)

The CREATE Project

TRAFFIC South East Asia

Trumpeter Swan

Turtle Survival Alliance

Wildlife Conservation Society (WCS) - 96 Elephants

Wyoming Toad Breeding, Reintroduction, and Field Survey Program

Zoo Conservation Outreach Group (ZCOG)

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

One or More Buildings LEED-Certified by the US Green Building Council

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Building Energy Management

Commingled Recycling

Community Solar Program

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Green IT

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Wastewater Reduction

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Recycled

SAINT LOUIS ZOO

Education

#byetobags

Adult Programs

Animal Awareness Days

AZA FrogWatch USA

Behind the Scenes Tours

Birthday Parties

Boo at the Zoo-Spooky Saturday

Camp KangaZoo and Teen Camp

Career Programs

Docent Carts and Seasonal Interpreter Program

Earth Day - Party for the Planet

Enrichment Eggstravaganza

Internal Training - Education Department, Docents, and

Interpreters

Jungle Boogie

Just Like You at the Zoo

Lecture Series Programs

Library and Teacher Resource Center - Scavenger Hunts

Library and Teacher Resource Center - ZooCases

Make Tracks for the Zoo

Monsanto Education Gallery (Camp Joey, Early Childhood,

Zoo Preschool, and the Wild Wonder Outpost)

Outreach and Distance Learning Programs

Overnight Programs

Public Officials Family Day

Raja's Birthday Celebration

School Programs

School Tours

Shark Week

Stingrays at Caribbean Cove - Traveling Exhibit

Trivia Gone Wild

Wild Lights

Youth Programs

Zoo ALIVE Teen Volunteer Program

Zoo Friends Day

Zoo Parents Picnic

Zootoberfest

Field Conservation

Core Operating Support for the Sahara Conservation Fund (SCF)

Dama Gazelle Conservation Project Support Through the Sahara Conservation Fund (SCF)

Andean Bear Conservation Alliance

Arboviruses in Brazil

Box Turtle Ecology and Health: Comparison Between an Urban and a Rural Site

Camel Health at the Livestock-Wild Animal-Human Interface

Celebrating 10 Years of Zebra Conservation Through Film

Celebrating Grevy's Zebra Conservation Achievements and Sharing Great Grevy's Rally Results, Great Grevy's Ball, Great Goat Roast, and Associated Events

Center for American Burying Beetle Conservation

Center for Avian Conservation in the Pacific Islands

Center for Avian Health in the Galápagos Islands

Center for Conservation in Forest Park

Center for Conservation in Punta San Juan, Peru

Center for Conservation in Western Asia

Center for Conservation of Large Carnivores in Africa

Center for Native Pollinator Conservation

Developing a Communications Strategy for Grevy's Zebra Trust

Ecuadorian Amphibian Collaboration

Environmental Education for the Conservation of the Mountain Nyala and its Habitat at the Bale Mountains National Park, Ethiopia

Establishing a Local Molecular Ecology and Veterinary Laboratory for the Conservation of the Fauna of Madagascar

Goualougo Triangle Ape Project (GTAP)

Grevy's Zebra Trust

Grevy's Zebra Warrior Program

International Elephant Foundation (IEF)

Ishaqbini Wildlife Release Bomas

Kinabatangan Orangutan Conservation Project

Madagascar Fauna and Flora Group (MFG) - Capacity
Building

Madagascar Fauna and Flora Group (MFG) - Core Support

Madagascar Fauna Group Research Director

Mitigating the Threat of County and National Development Initiatives on the Endangered Grevy's Zebra in Northern Kenya

Northern Rangelands Trust

Okapi Conservation Project

Partula Snail Conservation Program, French Polynesia

Ron Goellner Center for Hellbender Conservation

Ruaha Carnivore Project (RCP)

Turtle Survival Alliance (TSA)

University of Missouri - St. Louis Graduate Student Support

Variation in Musth Among Asian Elephants (*Elephas* maximus): Applications for Management and Conservation

Zoo Staff Labor for Field Conservation

Green Practices

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Alternative Transportation Benefits for Staff

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Denitrification Systems On Ground

Diverted or Recycled Construction Waste

Energy Submetering

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Procured Local Food for On-Site Animals and/or Guest

Water Submetering

Waterwise Landscaping

Research

Animal Awareness Days Evaluation

Annual Visitor Study

Assessment of Zoo Veterinarian Attitudes Regarding Population Management Euthanasia

Changes in Human Health Parameters Associated With an Immersive Exhibit Experience at a Zoological Institution

Chinchilla (*Chinchilla lanigera*) Behavioral Responses to a Visual Signal Preceding Handling

Collaborating to Improve Conservation of the Critically Endangered Cuban Crocodile

Determining the Potential Effects of Electrofishing on Hellbenders

Distribution of Lizards in Big Desert Habitat Before, During, and After Installation of Dimmable Lights

Distribution, Ecology, and Conservation of the Endangered Black-Breasted Leaf Turtle (*Geoemyda spengleri*) in China

Distribution, Ecology, and Conservation of the Endangered Black-Breasted Leaf Turtle (*Geoemyda spengleri*) in Northern Vietnam

Educational Participatory Asset Mapping in North St. Louis County

Efficacy and Reversal of Suprelorin® (Deslorelin) in the Clouded Leopard (*Neofelis nebulosa*)

Empathy and Moral Reasoning Development at Saint Louis Zoo Preschool

Evaluating Housing Parameters and Their Effects on Snake Welfare

Feasibility of an Offsite Conservation and Animal Science Center and Safari Park

Fecal Glucocorticoid Monitoring of Carnivores, Birds and Primates During Quarantine and Introduction to a New Habitat at the Saint Louis Zoo

Fecal Glucocorticoid Monitoring of Guinea Pigs Serving as Ambassador Animals in the Saint Louis Zoo's Children's

Fecal Glucocorticoid Production and Behavior of Juvenile Somali Wild Asses

Fecal Hormone Monitoring of Ovulatory Cycles, Testosterone Production, and Glucocorticoid Production in Banteng

Genetic Diversity of Peter's Angola Colobus Monkey
Populations in Northern Tanzania and in American Zoos

Hormone Monitoring of Free-Ranging Channel Island Foxes

Impact of Allowing Mate Choice on Reproductive Success and Animal Welfare

Improving the Impact of Zoo and Aquarium Conservation Education Experiences: A Values Orientation Approach

Investigating Social Networks of African Wild Asses and Grevy's Zebras in a Zoo Setting

Investigation of Possible Genetic and Environmental Factors Leading to Uterine Disease in African Painted Dogs

Lifetime Reproductive Planning for the Fennec Fox

Mother-Infant Antelope Study

Observations and Management of Cryptosporidium Infection in Snakes

Observing Flighted and Flightless Waterfowls' Behavioral Diversities on Bodies of Water

Pacific Bird Conservation MAC Education and Outreach
Program Evaluation

Patterns of Fecal Steroids Associated With Reproduction in Cinereous Vultures (*Aegypius monachus*)

Phylogenomics of Endangered Asian Box Turtles (Cuora)

Polar and Grizzly Bear Use of Space and Activity Level in New Zoo Habitats

Population Management and Reversibility from Melengestrol Acetate (MGA) Implants in Black and White Colobus Monkeys (*Colobus guereza*)

Primate Canopy Trails Frontend and Formative Evaluation

Reproductive Viability Analysis (RVA) for Fennec Fox

Reproductive Viability Analysis (RVA) for the Asian Small-Clawed Otter

Reproductive Viability Analysis (RVA) for the Mexican Wolf

Reproductive Viability Analysis (RVA) for the Red River Hog

Salamander Relative Abundance and Disease Prevalence Study

Serum Concentration Comparisons of Fatty Acids, Amino Acids, Vitamins, Minerals, and Cholesterol, Between Free-Ranging and Zoo Polar Bears (*Ursus maritimus*)

Serum Nutrient Comparisons Between Free-Ranging and Zoo Painted Dogs (*Lycaon pictus*)

Status, Conservation, and Ecology of the Crocodilians in Cuba

STEM Matters: Investigating the Confluence of Visitor and Institutional Learning Agendas

Summative Evaluation of Grizzly Ridge Exhibit

The Effect of Educational Programs on the Behavior and Physiology of Fennec Foxes (*Vulpes zerda*)

Tracking Changes in Primate Behavior Throughout a Construction Period Validating Noldus EthoVision as a Tool for Tracking Movement

Validation of a Canine Anti-Mullerian Hormone Assay for Use in Mexican Gray Wolves

SEA LIFE KANSAS CITY AQUARIUM

Education

Animal Adaptations

Bay of Rays Talk

Home Sweet Home

Marine Science Careers

Ocean Discovery Talk

Octopus Talk

Seahorse Talk

Shark Talk

Turtle Conservation Chat

Weedy Seadragon Talk

What's For Lunch

Field Conservation

River and Wetlands Clean Up

Teaching Rivers in an Urban Environment (T.R.U.E. Blue) - Blue River Watershed Association

THE BUTTERFLY HOUSE

Education

Adventures in a Butterfly Garden

Brownie Bugs

Buzzing a Hive

Daisy Clover Petal

Hide a Butterfly

Insect Photography

Junior Gardener

Keeper for a Day

Ladybugs

Little Bugs

Story of a Butterfly

The World According to Insects

Webelos: Into the Wild

Wings of Wonder

Field Conservation

El Bosque Nuevo

Missouri Butterfly Monitoring Network

Project Pollinator

Green Practices

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Montana

GRIZZLY & WOLF DISCOVERY CENTER

Education

Bear Pepper Spray Demonstration

Birds of Prey Outreach

The View From Down Here

Field Conservation

Bear-Resistant Container Testing

West Yellowstone Christmas Bird Count

Green Practices

ENERGY

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Diverted or Recycled Construction Waste

Green Purchasing Policy/Green Procurement

Wastewater Reduction

WASTE

Documented Amount Recycled

WATER

Documented Amount Used

Nebraska

LEE G. SIMMONS CONSERVATION PARK & WILDLIFE SAFARI

Education

Campouts

Day Camps

Family Classes

Keeper Talks

Outreach

Scout Programs

Special Events

Step-on Tours

Student Workshop

Teacher Workshops

Field Conservation

Cheetah Conservation Fund (CCF)

Citizen Science

Nature Conservancy

Whooping Crane Trust

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting (On-Site or Off-Site)

Graywater Reuse and/or Rainwater Harvesting

Procured Local Food for On-Site Animals and/or Guest

Wastewater Reduction
Waterwise Landscaping

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

LINCOLN CHILDREN'S ZOO

Field Conservation

Salt Creek Tiger Beetle Propagation and Reintroduction Project

Green Practices

FOOD

Sourced Local Food or Grew it On-Site

Research

Allostatic Load of Captive and Free-Ranging Giraffe

Directional Freezing as a Method of Sperm Cryopreservation for Field Conservation Projects

OMAHA'S HENRY DOORLY ZOO & AQUARIUM

Education

African Goat Kraal

After School Program

Animal Encounters

Backstage Experiences

Campouts

Citizen Science

Day Camps

Eco Adventure

Family Programs

Free Flight Bird Show

Giraffe Encounter

Keeper Talks

Lemur Walkway

LION Classes

Little Lions Preschool

Long Distance Learning

Outreach Programs

Professional Development Workshops

School Group Walkabout Tours

Scout Classes

Stingray Beach

Student Workshops

The Wildlife Show

Touch Tank

Youth Volunteer Program

Zoo 2 You Trunks

Zoo-Wide Activity Event

Zoo-Wide Conservation Events

Field Conservation

American Bird Conservancy (ABC) - Bird Strike

Amphibian Conservation Area

Amphibian Enhancement in Urban Areas

Andasibe Reintroduction and Translocation Project (ART

Project)

Andasibe Reintroduction and Translocation Project (ART

Project) - Lemur Research Initiative

Aquarium Conservation Partnership (ACP)

AZA Puerto Rican Crested Toad SSP - Reintroduction

AZA SAFE

AZA SAFE - Cheetah

AZA Tiger SSP - Tiger Conservation Campaign

Bat Conservation International (BCI)

Belize Antillean Manatee Health Project

Belize Jaguar Project Bermuda Fern Project

Bighorn Sheep Disease Study

Black-Footed Cat Project

Botswana Lion Disease and Genetics Survey

Catching Hope

Cheetah Conservation Fund (CCF)

Citizen Science: Butterfly, Amphibian

Colobus Conservation, Ltd.

Colors for Conservation

Conservation Centers for Species Survival (C2S2)

Conservation Fusion

Conservation of Madagascar's Endemic Orchids

Coral Propagation Project

Cryptobranchid Interest Group

Crystal River Florida Manatee Health Project

Dian Fossey Gorilla Fund International

Florida and Belize Manatee Conservation Project

Foundation for the Conservation of Salamanders

Giant Armadillo: The Pantanal Project

Giraffe Conservation Foundation (GCF)

Gladys Porter Zoo - American Crocodile Conservation

Honduras Amphibian Rescue and Conservation Center

(HARCC)

Iganyana Arts - Africa Matters

International Crane Foundation (ICF) - Crowned Crane

International Crane Foundation (ICF) - Whooping Crane

International Elephant Foundation (IEF)

International Rhino Foundation (IRF)

IUCN/SSC Conservation Planning Specialist Group (CPSG)

IUCN/SSC Conservation Planning Specialist Group (CPSG) -

Amphibian Ark

Kianjavato Project

Lavavolo Project

Little Fireface Project - Protection of the Slow Loris

Mabula Ground Hornbill Project (MGHP)

Madagascar Biodiversity and Biogeography Project

Monarch Joint Venture

Montagne des Français Project

National Geographic Photo Ark

Nature Conservancy - China Land Trust

Northern Tuli Predator Project - Botswana

Okapi Conservation Project

Polar Bears International (PBI)

Project Puffin

Rare and Endangered Plant Program

Red Panda Network (RPN)

Salt Creek Tiger Beetle

Saola Conservation

Save Our Seabirds

Save the Snakes

SExual COral REproduction (SECORE)

Snow Leopard Trust

Southern African Foundation for the Conservation of Coastal Birds (SANCCOB)

Spectacled Bear Society

Swaziland Rhinoceros Protection and Conservation

Tiger Conservation Campaign

Torotorofotsy Project

Turtle Survival Alliance (TSA) - Turtle Survival Center

Wildcats Conservation Alliance

Wildlife Conservation Society (WCS) - 96 Elephants

Wildlife SOS - India

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Commingled Recycling

Composting (On-Site or Off-Site)

Denitrification Systems On Ground

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Procured Local Food for On-Site Animals and/or Guest

Waterwise Landscaping

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Research

African Elephant Project

Browse Nutrition Initiative

Conservation Center for Species Survival (C2S2) - The Cheetah Sustainability Project (CSP)

Conservation, Propagation, Genetics, and Reintroduction of the Yellow Lady's Slipper Orchid in Nebraska

Conserving the Highly Threatened Fern – *Diplazium* molokaiense

Development of a Genome Resource Bank for Tigers

Development of Methods for Voluntary Semen Collection in the Philippine Crocodile

Development of Transcervical Artificial Insemination in Tigers

Evaluation of Pork as a Protein Source for Managed Carnivores

Factors Affecting Breeding Success in Zoo Managed Male Snow Leopards (*Panthera uncia*)

Fish Breeding Project

Investigating the Interactions Between Obesity, Stress, and Reproductive Cyclicity in Elephants

Kianjavato Project: Data Analysis

Lavavolo Project: Data Analysis

Madagascar Biodiversity and Biogeography Project: Laboratory Genetic Work

Montagne des Français Project: Research

Nutrition Research Program

Prevalence of Irritable Bowel Disease, Infanticide, Bloat, and Cystinuria in Managed Maned Wolves and Factors Contributing to Occurrences

Torotorofotsy Project: Data Analysis

Urchin Breeding Project

RIVERSIDE DISCOVERY CENTER

Field Conservation

Panhandle Frogwatch USA Chapter RDC

Salamander Saturday

Tiger Conservation Campaign

Green Practices

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting (On-Site or Off-Site)

Green Building Policy/Commitment

Nevada

SHARK REEF AQUARIUM AT MANDALAY BAY

Field Conservation

AZA Conservation Grants Fund

Komodo Conservation

Reef Check

S.A.F.E.

Sea Turtle Conservancy

The Ocean Project

New Jersey

ADVENTURE AQUARIUM

Education

21st Century Community Learning Centers - Science Enrichment

Behind the Scenes Tours

Camden Waterfront Trail Engagement - Trail and On-Water Programming

Canoe Mobile

CAUSE (Community Urban Science Enrichment) Program

Classroom and Auditorium Programs

Community and Urban Science (CAUSE) Summer Camp

Embedded School Programming

Field Trip Planner

Fins for the Future

High School Student Shadow Program

Hippo Awareness Weekend

Marine Advanced Technology Education (MATE) - Remotely-Operate Vehicle (ROV) Program

Meet Us in the Wild - Field Programs

Outreach - Traveling Programs

Penguin Awareness Day

Philadelphia Science Festival

Philadelphia-Camden Informal Education Collaborative (PISEC)

River Days

Science on Screen

Scout Badge Workshops

Sea Turtle Awareness Weekend

Shark Awareness Weekend

Shark in the Dark - Overnights

Summer Seafari Camp

Teacher Professional Development

Teen Marine Institute

That's A-Moray: Love Below Sea Level (Valentines Event)

Field Conservation

AZA FrogWatch USA

AZA SAFE - African Penguin Artificial Nest Box Program

Bald Eagle Nest Monitoring

Coral Restoration Foundation

Feathers for Native Americans

Horseshoe Crab Monitoring

Horseshoe Crab Rearing

RiverSweep

Sea Turtle Conservancy

Southern African Foundation for the Conservation of Coastal Birds (SANCCOB)

Turgwe Hippo Trust

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Denitrification Systems On Ground

Green IT

Wastewater Reduction

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

Research

Hippo Saliva Cortisol Study

BERGEN COUNTY ZOOLOGICAL PARK

Education

96 Elephants

A Touch of Nature

Amazing Adaptation

Amphibian Day

Amphitheater Show - Mammals

Amphitheater Show - Pets!

Amphitheater Show - Reptiles

Amphitheater Show - Story Time

Amphitheater Show - Wild New Jersey

Animal Enrichment

Animal Families

Animal Habitats

Animal Wrappers

Autism Awareness Day

Bergen Zoo School

Bison Day

Brownie Bugs

Classy Animals

Colors and Shapes

Endangered Species Day

Hawks Over the Hudson

In My Backyard

Members Night

Night Owls

Nocturnal Gators

Party for the Planet

Playtime at the Zoo

Recycled Art

Save the Eagles Day

Sheep Shearing

Spineless Wonders

Super Science Days and Career Days

Theme Day Story Times

Wild and Crafty Animal Tales

Wild and Crafty Zoo Tour

Wild Pets

World Tapir Day

Zoo Babies

Zoo Camp

Zoo Careers

Zoo Kids

Green Practices

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Waterwise Landscaping

CAPE MAY COUNTY PARK ZOO

Field Conservation

Conserve Wildlife Foundation of New Jersey

Giraffe Conservation Foundation (GCF)

International Bongo Foundation for Mt. Kenya Wildlife

Conservation

Turtle Survival Alliance (TSA)

JENKINSON'S AQUARIUM

Education

Amazing Amphibians

Animal Encounters

Behind the Scenes Tour

Breakfast With the Animals

Fishy Tales and Shark Scales

Habitat Habits

Mermaid Tea Party

NJ's Precious Pinelands

No Bones About It

Outrageous Reptiles

Penguin Pointers

Pizza and Penguins

Polar Bears in a Warming World

Species Survival

Tea by the Sea

Field Conservation

American Littoral Society

AZA Conservation Grants Fund (CGF)

AZA FrogWatch USA

AZA SAFE - Vaquita Rescue Project

AZA/Wildlife Trafficking Alliance

B.E.A.R.

Channel Islands Marine and Wildlife Institute

Clean Ocean Action

Delaware Bay Horseshoe Crab Spawning Survey

Gotham Whale

Marine Academy of Technology and Environmental Science

New Jersey Beach Buggy Association

Ocean Conservancy

Polar Bears International (PBI)

Project Terrapin

Save Barnegat Bay

SaveNature.Org

Sawfish Conservation Society (SCS)

Sea Turtle Recovery (STR)

Seabird Ecological Assessment Network (SEANET)

Southern African Foundation for the Conservation of Coastal Birds (SANCCOB)

The Marine Mammal Center

The Ocean Project

Turtle Survival Alliance (TSA)

Wildlife Center Friends

Green Practices

ENERGY

Documented Amount Used

FOOD

Sourced Local Food or Grew it On-Site

Research

Beach Sweeps (Bi-Annual Coastal Cleanup)

Operation Oyster

New Mexico

ALBUQUERQUE BIOLOGICAL PARK

Education

Animal Encounters at the Aquarium

Animal Encounters at the BUGarium

Animal Encounters at the Zoo

Aquarium Overnights

BioVan and Rio Rangers

Discover the BioPark

Discovery Days at the Aquarium

Discovery Days at the Botanic Garden

Discovery Days at the Zoo

Earth Week Celebration

Endangered Species Awareness Week

Garden Workshop Series

Monthly Lecture Series

Narrated Aquarium Feedings

Narrated Zoo Feedings

Preschool Program

Spring Break Camps

Story Time Program

Summer Camps

Summer Evening Tours

World Oceans Week

Zoo to You

Field Conservation

Abidjan Zoo Project: Côte d'Ivoire

IUCN Species Assessments

Native Species Program - Herpetology

Socorro Dove Conservation

Green Practices

GREEN PRACTICES IMPLEMENTED

Procured Local Food for On-Site Animals and/or Guest

ALEXANDRIA ZOOLOGICAL PARK

Green Practices

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Procured Local Food for On-Site Animals and/or Guest

Stormwater Management Program

LIVING DESERT ZOO & GARDENS STATE PARK

Field Conservation

Bolson Tortoise Program

Green Practices

ENERGY

Generated Renewable Energy On-Site

New York

BUFFALO ZOO

Education

Animal Encounters - Free

AZA FrogWatch USA - Buffalo Zoo Chapter

Birthday Parties

Buffalo Public School #59/90 Zoo Science Program

Buffalo Zoo Preschool

Camps (Combines Spring, Summer, and Winter)

Cub Club Preschool Program

Distance Learning Programs

Docent Training

Educator's Guide

Gnus - Docent Newsletter

Guided Tours

Homeschool Programs

Junior Zoo Teen Naturalist Program

Keeper Talks

Living Treehouse

On-Site School Programs

Outreach Programs

Scout Badge Programs

Shows/Demonstrations

Sidewalk Safari Carts

Strolling Around the World Stroller Program

Western New York Family Nature Club

Wild Weekend Workshops

Zoo Quests

Zoo Snooze Overnight Program

Zoo Teen Naturalist Program

Field Conservation

Asian Elephant Support

Asian Elephant Support (AES)

Association of Zoological Horticulture (AZH) - Plant

Conservation Fund

AZA Conservation Grants Fund (CGF)

AZA FrogWatch USA

AZA Puerto Rican Crested Toad SSP - Caribbean Wildlife Alliance via Fort Worth Zoo

Buffalo Niagara Riverkeeper

Dian Fossey Gorilla Fund

Gorilla Doctors

International Elephant Foundation

International Rhino Foundation (IRF) - Indian and Sumatran Rhinos

Polar Bears International (PBI)

Sahara Conservation Fund (SCF)

Snow Leopard Trust (SLT)

Turtle Survival Alliance (TSA)

World Parrot Trust (WPT)

Green Practices

ENERGY

Documented Amount Spent Documented Amount Used

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Graywater Reuse and/or Rainwater Harvesting

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Specified a Portion of the Amount Saved for Next Year's **Green Practices**

WASTE

Documented Amount Composted

Documented Amount Sent to Landfill

Research

Decline in Stereotypic Behavior of Asian Elephants

The Influence of Contraceptive on Hormonal Patterns and Behavior in Captive Western Lowland Gorillas

ROSAMOND GIFFORD ZOO AT BURNET PARK

Field Conservation

American Association of Zoo Keepers (AAZK) - Bowling for Rhinos

Amphibian Ark

International Elephant Foundation (IEF)

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Laguna Atascosa National Wildlife Refuge

Ocean Conservancy

Plastic Free July Sponsorship

Red Panda Network (RPN)

Snow Leopard Trust (SLT)

Turtle Survival Alliance

SENECA PARK ZOO

Education

Animal Presentations

Bunk With Beasts

Expeditions

Family Overnights

Homeschool classes

KinderZoo

Nature Hikes

Park Clean Ups

Scout Workshops

ZooCamp

ZooTeen Leaders + ZooTeens

Field Conservation

American Association of Zoo Keepers (AAZK) - Bowling for Rhinos

Black Bear Den Surveys

Chittenango Ovate Amber Snail Annual Count

Eastern Massasauga Rattlesnake Mark and Recapture

Giraffe Conservation Alliance

Giraffe Conservation Foundation

Health in Harmony

International Animal Rescue (IAR)

International Elephant Foundation (IEF)

International Rhino Foundation (IRF)

Lake Sturgeon Restoration in the Genesee River at Seneca

Park

Polar Bears International (PBI)

Snow Leopard Trust (SLT)

Southern African Foundation for the Conservation of Coastal

Birds (SANCCOB)

Turtle Survival Alliance (TSA)

Green Practices

ENERGY

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting (On-Site or Off-Site)

WATER

Documented Amount Used

Research

Assessment of Basal Seminal Traits and Semen

Cryopreservation in the Canada Lynx

STATEN ISLAND ZOO

Education

Animal Training Demonstrations

Autism Awareness Day

Breakfast and Lunch With Santa

Breakfast With the Beasts

Breakfast With the Bunny

CASA (Cultural After School Adventure Program)

Conservation Celebration

Cub Scout Day

Dinosaurs and Fossils

Dinosaurs Rock

Docent Presentations

Docent Program - Training

Education Animal Presentations

Girl Scout Day

I Heart the Zoo

In Zoo Education Programs

Kid Fun Days

New York Adventure Club Tours (NYAC)

Penguin Day

Pizza With the Keepers

Public Education/Outreach

Serpent Day

Shear Madness/Farm Day

SIZ After Dark

Sky Kings Raptor Show

Southern Ground Hornbill Day

Special Needs Adult Programming

Spooktacular

Spring Zoofari

STEM Wildlife Camp

Thanksgiving With the Beasts

Traveling Zoo Education Programs

Urban Advantage - Student Programming

Urban Advantage - Teacher Training

World Lemur Day

World Turtle Day

Zoofari Summer CIT Program

Zoofari Summer Programming

Zoolympics

Field Conservation

AZA FrogWatch USA - Local Chapter Coordinators

AZA FrogWatch USA - Volunteers

Blue Heron BioBlitz

King Cobra Conservancy

Lemur Love. Inc

Research

Milk Composition of Two-Toed Sloth (Choloepus hoffmanni)

Normal Cytology and Bacterial Flora From Pouches of Red

Kangaroos (Macropus rufus) at SIZ

TREVOR ZOO

Education

Birthday Party Presentations

Climate Change Exhibit Media

College Volunteer & Fieldwork Program

Conservation Handouts

Group Animal Presentations On-Site

Keeper Talks

Millbrook School Community Service

Science Presentation (Talk and/or Animal Presentations) Off-Site

Staff Guided Tours

Staff Presentations (Animal Behavior, Adaptations, Nutrition, Zoo's Roles, and Conservation)

Summer Counselor Program

Summer Volunteer Program

Trevor Zoo Teacher's Guide

Field Conservation

Bog Turtle Population Analysis and Habitat Restoration

Invasive Species Control: Pale Swallowwort

Trevor Conservation Support Fund: TSA

Wood Turtle Population Survey and Habitat Analysis

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Community Solar Program

Completed Greenhouse Gas Inventory

Composting (On-Site or Off-Site)

Generated Solar or Wind Energy

Green Building Policy/Commitment

Green Purchasing Policy/Green Procurement

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

Research

Red Panda Juvenile Mortality Study

The Effects of Snow Leopard Stimulants on Red Panda Corticosterone Levels at the Trevor Zoo

UTICA ZOO

Education

Guided Tour

Home School Classes

Preschool Classes

Zoo Camps

ZooMobile

Green Practices

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

WILDLIFE CONSERVATION SOCIETY

Education

Adult Overnight

Adult Volunteer Interpretation

Advanced Inquiry Program (AIP)

Afterschool Programs

Aquarium Outreach

Birthday Parties

Brooklyn Cultural Adventures Program

Community Outreach Program/Special Events

Discovery Guides

Family Overnight Adventures

Family/Science Days

Guided Tours

Informal Programs: Adult Programs

Informal Programs: Children & Families

Informal Programs: Scouts

Informal Programs: Zoo Play Classes

Nature Club

NatureStart™

Professional Development Courses

Project TRUE (Teens Researching Urban Ecology)

Scavenger Hunts

School Partnerships

School Programs (Classroom)

Urban Advantage

WCS Presents Field Sight

WCS Youth JIVE (Job, Internship, and Volunteering Expo)

WCS-U

Wildlife Conservation Corps

Wildlife Theater

Youth Advisory Council (YAC)

Youth Ocean Conservation Summit

Zoo and Aquarium Summer Camp

Zoo Quests

Field Conservation

AZA Komodo Dragon SSP - Conservation Fund

AZA SAFE

Curatorial Conservation Project - Batagur Conservation in India With Turtle Survival Alliance

Curatorial Conservation Project - Big Headed Turtle Conservation Program

Curatorial Conservation Project - Cambodian Royal Turtle Conservation

Curatorial Conservation Project - Canada Goose Population Management

Curatorial Conservation Project - Cuban Crocodile Breeding Facility Support and Reintroduction Effort

Curatorial Conservation Project - Headstart Program for Eastern Hellbender

Curatorial Conservation Project - Propagation of the Extinctin-the-Wild Kihansi Spray Toad

Curatorial Conservation Project - Puerto Rican Crested Toad Propagation

Curatorial Conservation Project - Resident Bat Species in the Bronx, New York

Curatorial Conservation Project - Siamese Crocodile Conservation in Cambodia

Curatorial Conservation Project - Siamese Crocodile Conservation in Indonesia

Curatorial Conservation Project - Support of the Madras Crocodile Bank Trust, King Cobra Ecology Project

Give A Sip Campaign

Global Conservation Projects - Africa

Global Conservation Projects - Asia

Global Conservation Projects - Challenges and Central Initiatives

Global Conservation Projects - Conservation Science and Solutions

Global Conservation Projects - Latin America and the Caribbean

Global Conservation Projects - Marine-Seascape Conservation

Global Conservation Projects - North America

IUCN/SSC Conservation Planning Specialist Group (CPSG)

New England Cottontail Rabbit Conservation Project

Veterinarian and Pathological Project - Philippine Forest **Turtles Confiscation Event**

Veterinarian Project - Assessing the Health of Atlantic Shark Populations via Hematology, Plasma Biochemistry, Protein Electrophoresis, Cholesterol Electrophoresis, and Acute **Phase Proteins**

Veterinarian Project - Citizen Science Reveals Female Sand Tiger Sharks (Carcharias taurus) Exhibit Signs of Site Fidelity on Shipwrecks

Veterinarian Project - Health Assessment and Disease Surveillance of Grand Cayman Iguanas

Veterinarian Project - Health Assessment of Common Loons in the Adirondacks

Veterinarian Project - Health Assessments of Bog Turtles in the Northeastern United States

- Veterinarian Project Heath Assessment, Reproductive Research and Telemetry Studies of Atlantic Ocean Sharks
- Veterinarian Project Identification of Critically Endangered Yangtze Giant Softshell Turtle in Environmental Samples
- Veterinarian Project Massive Radiated Tortoise (Astrochelys radiata) Confiscation - Medical Care, Husbandry and Health Assessment
- Veterinarian Project Microplastic Trophic Transfer and Plastic-Associated Toxin Exposure in North Atlantic Elasmobranchs
- Veterinarian Project Monitoring Health of Roofed Turtles Prior to Reintroduction
- Veterinarian Project Myanmar Big-Headed Turtles Confiscation (Clinical and Pathology)
- Veterinarian Project Physiological Effects of Capture Stress in the White Shark
- Veterinarian Project Population Survey and Health Assessments of Turtles in the Bronx River
- Veterinarian Project Prey Identification Through Assessment of Fecal DNA of Various Species of Sharks
- Veterinarian Project Semen Analysis of White Sharks
- Veterinarian Project Unusual Recurring High Mortality in Southern Right Whales (Pathology)
- Wildlife Conservation Society (WCS) 96 Elephants
- Wildlife Health Program Assessing White-Nose Syndrome in the West
- Wildlife Health Program Central New York
- Wildlife Health Program Democratic Republic of Congo
- Wildlife Health Program Identification of Regulated and Endangered Shark Species in the Illegal Wildlife Trade in Indonesia
- Wildlife Health Program Laos and Cambodia One Health Network (LACANET)
- Wildlife Health Program Latin America
- Wildlife Health Program Predict
- Zoo Health Program Assessing Arctic Migratory Bird Health in the Context of Climate Change
- Zoo Health Program Developing and Deploying a Rapid Field-Friendly Genetic Test for the Detection of Canine Distemper Virus (CDV) in Wildlife
- Zoo Health Program Health Assessment, Pre-Release Health Screening, and Disease Surveillance of Southern River Terrapin in Cambodia

Green Practices

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Building Energy Management

Completed Greenhouse Gas Inventory

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Stormwater Management Program

Research

- Curatorial Research Project Evaluation of the "Buddy" Digital Egg Monitor as a Tool for Measuring and Tracking Avian Embryonic Heart Rate
- Curatorial Research Project Genetic Analysis of the Inca Tern Colony at the Wildlife Conservation Society (WCS)/ Bronx Zoo
- Curatorial Research Project Genetic Analysis of the US Population of Baer's Pochard for Improved Captive Management
- Curatorial Research Project Investigation of Problematic Interactions Between Bolivian Gray Titi Monkeys and Superb Starlings in a Mixed-Taxa Exhibit
- Curatorial Research Project Investigation of Waterfowl Egg Density as a Predictor for Artificial Incubation Relative **Humidity Needs**
- Curatorial Research Project Monitoring Behavior During Breeding Introductions of a Naive Snow Leopard Pair
- Curatorial Research Project Quantifying Social Changes Within a Troop of Japanese Macaque After Introduction of a New Male
- Curatorial Research Project Retrospective Analysis of Waterfowl Propagation Records at the Central Park Zoo
- Veterinarian Project Investigation Into Diagnostic and Therapeutic Options for Sarcocystosis in Captive Thick-**Billed Parrots**
- Veterinarian Project Acute Phase Protein and Protein Electrophoresis Values for Captive Bongo (Tragelaphus eurycerus)
- Veterinarian Project Assessing Efficacy of an Aspergillus Fumigatus Vaccine in Inca Terns and Eider Ducks
- Veterinarian Project Husbandry, Morbidity, and Mortality of Cloud Rats

Veterinarian Project - Investigating Cardiac Disease in Gelada

Veterinarian Project - Investigation Into the Distribution and Speciation of Entamoeba Infection and Species Within the Reptile Collection at the Bronx Zoo

Veterinarian Project - Investigations Into the Causes and Treatment of Ulcerative Dermatitis in Captive Waldrapp

Veterinarian Project - Pharmacokinetics of Ponazuril in Indian

Veterinarian Project - Reproductive Assessments of Select Ex-Situ Shark Populations Within the New York Aquarium

Veterinarian Project - Retrospective Analysis of Mortality in Captive Bongo (Tragelaphus eurycerus)

Veterinarian Project - Retrospective Mortality Review of Tentacled Snakes in the Wildlife Conservation Society (WCS) Collections

Veterinarian Project - Speciation of Malaria (Plasmodium) Parasites in Species of Captive Penguin, Tern, and Eider at the Wildlife Conservation Society

Veterinarian Project - The Use of Awake CT-Scan for the Evaluation of Penguin Air Sac and Lung Volumes and Identification of Pulmonary Lesions

North Carolina

DUKE UNIVERSITY LEMUR CENTER

Field Conservation

Duke Lemur Center - Sambava-Andapa-Vohemar-Antalaha (SAVA) Conservation Initiative

Madagascar Fauna and Flora Group (MFG)

Green Practices

GREEN PRACTICES IMPLEMENTED

Composting (On-Site or Off-Site)

Research

Facilitation of External Research

GREENSBORO SCIENCE CENTER

Field Conservation

AZA Conservation Grants Fund (CGF)

Coral Restoration Foundation

Island Conservation - Mona Iguana Project

Sawfish Conservation Society

Southern African Foundation for the Conservation of Coastal Birds (SANCCOB)

Turtle Survival Alliance

Zoo Conservation Outreach Group (ZCOG)

Green Practices

ENERGY

Generated Renewable Energy On-Site

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

GREEN CERTIFICATIONS

One or More Buildings LEED-Certified by the US Green **Building Council**

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Graywater Reuse and/or Rainwater Harvesting

Stormwater Management Program

Waterwise Landscaping

WATER

Documented Amount Spent

Research

Bat Species Utilization of Forest Canopy

Box Turtle Connection Project

Candid Critters

MUSEUM OF LIFE AND SCIENCE

Education

Girl Scout Programs

Homeschool Programs

Keeper Talks

School Programs

Summer Camp

The Lab

Field Conservation

Red Wolf Education

Turtle Survival Alliance

Green Practices

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting (On-Site or Off-Site)

Smart Building Strategies

Used Enterprise (IT) Solutions to Track and Measure Sustainability Performance

Water Submetering

Waterwise Landscaping

Research

Building With Biology

Citizen Science, Climate Change, and Resilient Communities

Community Resilience to Climate Change Public Forums

Electroreception in Butterflies

NSF Career: Method Development for High-Resolution Underway N2 Fixation Measurements

NORTH CAROLINA AQUARIUM AT FORT FISHER

Education

Alligator Egg Hunt - Easter Program

Animal Encounters

Animal Programs

Auditorium Program

AZA FrogWatch USA

Behind-the-Scenes Tours

Birthday Parties

Camps - Summer Camps and Year-Round Day Camps

Cape Fear Shoals Dive Presentation

Distance Learning

Family Nature Club

Feeding Presentations

General Outreach

Homeschool Programs

Indoor Programs

Nature Play With Girls Leadership Academy of Wilmington

Outdoor Exploration Programs

Outreach Events

Scout Programs

Sea Scholars

Self-Guided Tours for School Groups

Sleepovers

Summer Teen Volunteer Program

Teen Ocean Stewards

Field Conservation

Aquarium Conservation Partnership (ACP)

Carolina Gopher Frog Reintroduction

Conservation Coordination

Elasmobranch Reproductive Studies

Habitat Use Patterns of Cownose Rays

Habitat Utilization of Mature Female Sand Tiger Sharks (Carcharias taurus) in North Carolina Coastal Waters

(Using Acoustic Telemetry Techniques)

Lionfish Management

Marine Mammal Stranding Response

SAFE Within

Sand Tiger Shark Identification

Sea Turtle Stranding Response Team

The Ocean Project

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FUEL

Documented Amount Spent Documented Amount Used

WATER

Documented Amount Spent Documented Amount Used

Research

Fish Propagation Programs in North Carolina Aquariums

NORTH CAROLINA AQUARIUM AT PINE KNOLL SHORES

Education

Animal Encounters

Behind the Scenes Tours

Camp Programs

Digital Puppetry Program

Distance Learning

Dive Presentations

Early Childhood Education Programs

Feeding Presentations

Fishing Programs

Kid's Parties and Sleepovers

Large Group Outreach Programs

Live Animal Programs

Outdoor Recreation Programs

Outreach Programs - Festivals and Community Events

Paddling Programs

School Group - Lab Programs

School Group Auditorium Programs

Scout Programming

Small Group Outreach Programs

Sustainable Seafood Programs

Teacher Workshops

Teen Programs

Themed Daily Programs

Field Conservation

Aquarium Conservation Partnership (ACP)

Carolina Gopher Frog Reintroduction

Conservation Coordination

Elasmobranch Reproductive Studies

Habitat Use of Sand Tiger Sharks

Habitat Use Patterns of Cownose Rays

Lionfish Management

Marine Mammal Stranding Response

SAFE Within

Sand Tiger Shark Identification

Sea Turtle Stranding Network

The Ocean Project

Theodore Roosevelt Nature Inventory

Green Practices

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green IT

Procured Local Food for On-Site Animals and/or Guest

Purchased Green Power or Renewable Energy Credits (RECs)

Stormwater Management Program

Wastewater Reduction

Waterwise Landscaping

Research

Fish Propagation Programs in North Carolina Aquariums

NORTH CAROLINA AQUARIUM ON **ROANOKE ISLAND**

Education

Adult Craft

All About Alligators All About Sharks

Alligator Encounter Alligator Feeding

Aqua Tots

Aquarist for the Day

Art in the Ocean **Beach Exploration**

Behind the Scenes Tours

Believe It or Not

Big Sweep

Birthday Parties Breakfast With the Rays

Career Fairs Circle of Life

Cold Blooded Critters Tour

Creating Change

Creature Features

Day Camps

Dialogue With the Diver Disaster Zone

Dolphin Math

Earth Day **Educational Videos**

Endangered Species Day

Ends of the Earth

Fish Feeding

Flying Reptiles Freshwater Turtles

Getting to Know: Owls

Got Fur?

Growing Green

Guide to the Solar System: SOS Program

Gyotako

Happy Otter Hour

Impromptus

International Shark Awareness Day

Jellies

Let's Go Crabbing Library Programs

Lights Out!

Lobby Feed

Marine Invertebrate Lab Nature of the Outer Banks

Nature's Heroes Nautical Wreaths

Noxious Nature

Ocean Jeopardy

Ocean Rescue Training

Oceans 101 Octopus

Opossum Encounter

Otter Enrichment

Paddling Around Roanoke Island PM Live Animal & Tour - 2 Hours

Proper Pet Awareness Day

Puppet Shows Quarantine Tours

Rescue Men

Saltwater Badge Program

Sea Turtle Egg Hunt Sea Turtle Encounter

Sea2Sound Walking Field Trip

Shark Bites

Shark Dissection Shark Exhibit Tour

Shark Feeding Program

Sharks!

Sleeping With the Sharks

Snake Encounter

Squid Dissection

Standup Paddleboarding

STAR Center Tour and Program

Stars and More

Stingray Feeding

Summer Camp

Tail Spin

Tank Talks

Touch Tank Animals

Trick or Treat Under the Sea

Wandering Nomads: Turtles

Weather or Not

Wetland Walks

What's the Catch

World Oceans Day

World of Weird

Field Conservation

Carolina Gopher Frog Reintroduction

Conservation Coordination

Elasmobranch Characterization in the Cape Fear River

Elasmobranch Reproductive Studies

Habitat Use Patterns of Cownose Rays

Lionfish Management

Marine Mammal Stranding Response

SAFE Within

Sand Tiger Shark Conservation and Management

Sand Tiger Shark Identification

Sea Turtle Rehabilitation

The Ocean Project

Green Practices

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Stormwater Management Program

Wastewater Reduction

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

Research

Aquatic Conservation Partnership

Fish Propagation Programs in North Carolina Aquariums

NORTH CAROLINA ZOO

Field Conservation

Big Cat and Other Wildlife Conservation in Southern Africa

Carolina Gopher Frog Headstarting

Conservation of Avifauna on the Mariana Islands

Conservation of Elephants and Other Wildlife in Nigeria's

Yankari Game Reserve

Conservation of Vultures in Tanzania

Conservation Staff

Cross River Gorilla Monitoring in Nigeria and Cameroon

Giraffe SAFE

Hellbender Surveys in Western North Carolina

Local Land Purchase and Management

Mabula Ground Hornbill Conservation

Madagascar Radiated Tortoise Rescue

Monarch Watch - Monarch Waystation Program

Namibia Rhino Conservation

Puerto Rican Crested Toad Conservation

Red Wolf Breeding and Reintroduction

Sahara Conservation Fund (SCF)

Snare Removal Patrols in Kibale National Park, Uganda

Spatial Monitoring and Reporting Tool (SMART) Conservation Monitoring Software Development

The Elephants of Cameroon

Turtle Survival Alliance Support

UNITE for the Environment Conservation Education Project -Uganda's Kibale National Park

Virgin Islands Boa Recovery

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified Under ISO 14001

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Energy Submetering

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Green IT

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Smart Building Strategies

Stormwater Management Program

Used Enterprise (IT) Solutions to Track and Measure Sustainability Performance

Used Environmental Management System

Wastewater Reduction

Water Submetering

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Research

African Vulture Research

Analysis of Fatty Acid Profile in Eastern Box (Terrapene carolina carolina) and Common Snapping (Chelydra serpentina) Turtles for Wild and In-Human Care Environments

Ape Movement

Assessment of Disease in Raccoon Latrines

Black Bear Behavioral Study

Chimpanzee Behavior Study

Cross River Gorilla Disease Transmission Study

Eastern Box Turtles (Terrapene carolina) and Marine Toads (Bufo marinus) Blood Study

Education Evaluation of *In-Situ* Conservation Education Work

Effect of Multi-Radiance Low-Level Laser Therapy and Topical Silver Sulfadiazine on Healing Characteristics of Dermal Wounds in Marine Toads (Rhinella marina)

Elephant Behavioral Study at the North Carolina Zoological Park

Elephant Body Condition

Elephant Nutrition Study

Enrichment Use by Arctic Seabirds

Gorilla Enrichment and Behavior

Gorilla Fecal Microbiome Assessment

Hamadryas Baboon Behavior Study

Insect Nutrition as Feed Animals

Marine Toad Diet Study

Otter Behavior Study

Polar Bear Behavior

Proteins in Box Turtle Post Trauma

Rhino Fatty Acid Profile

Sand Cat Behavior

Snake Mark-Recapture Study

Virgin Island Boa Study

Visitor Studies

White Tailed Deer Reproduction

SEA LIFE CHARLOTTE-CONCORD AQUARIUM

Field Conservation

Brown-Banded Bamboo Shark

Catawba Riverkeeper Foundation

Potbelly Seahorse Breeding

Rocky River Stream Cleanup (Adopt-A-Stream)

Seafood Watch

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Community-Based Sustainability Projects

Green Purchasing Policy/Green Procurement

Purchased Carbon Offset(s) for On-Site Utility Use

WESTERN NORTH CAROLINA NATURE CENTER

Education

AZA FrogWatch USA

Critter Time for Tikes and Tots

One-Day Special Events

Summer Camp Programs

Young Naturalists and Young Curators

Field Conservation

American Chestnut Tree Recovery Program

Appalachian Wildlife Refuge - Host Site

AZA FrogWatch USA

Bat and Bird Box Installation and Monitoring

Eastern Hellbender Rehabilitation Program

E-Bird Monitoring

Ecology Project International

Elk Ecology Family Camping Workshop

Great Smoky Mountains All-Taxa Biodiversity Inventory

Project (ATBI)

The North Carolina Urban/Suburban Black Bear Study -

Waste Management Bin Testing

Trout in the Classroom - Trout Headstart Program

Green Practices

FOOD

Sourced Local Food or Grew it On-Site

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Commingled Recycling

Green IT

Procured Local Food for On-Site Animals and/or Guest

Waterwise Landscaping

North Dakota

DAKOTA ZOO

Field Conservation

Are There Black-Footed Ferrets in Theodore Roosevelt National Park?

AZA FrogWatch USA

AZA Tiger SSP - Tiger Conservation Campaign

Bison Collaring Project - Theodore Roosevelt National Park

Black-Footed Ferret Population Monitoring in the Conata Basin, South Dakota

Field Conservation Interpretation For Dakota Zoo Visitors

Golden Eagle and Prairie Falcon Nest Surveys in Theodore Roosevelt National Park

Helping Communities Protect Snow Leopards

Mongolian Wild Horse Sustainability in Wild Project

Raptor Rehabilitation

Snow Leopard Trust (SLT) - Long-Term Ecological Study of Snow Leopards in Mongolia's South Gobi Province

Support for Prairie Wildlife Research, Inc.

Transportation of SSP Animals Between Facilities

Green Practices

GREEN PRACTICES IMPLEMENTED

Composting (On-Site or Off-Site)

RED RIVER ZOO

Research

North Dakota State University (NDSU)

Potential Multi-Species Pregnancy Test

ROOSEVELT PARK ZOO

Education

Canvas, Corks, and Conservation

Family & Friends Snore N Roar

FrogWatch USA - Citizen Scientist

On-Site Outreach

Snore N Roar

Summer Zoo Camp

Winter Zoo Camp

Zoo to You Outreach

Zoo Tots

Field Conservation

AZA FrogWatch USA

Black-Footed Ferret Spotlighting

Giraffe Conservation Alliance

Okapi Conservation Project

Saving Vanishing Species Stamp

Snow Leopard Trust (SLT)

Green Practices

GREEN PRACTICES IMPLEMENTED

Smart Building Strategies

Research

Nutrient Analysis of Frozen Browse

Ohio

AKRON ZOOLOGICAL PARK

Education

Career Programs

College Vet Day

Early Childhood Programs

Grizzly Bear Training Wall Talk

Learning Lab

On-Grounds Programs and Tours

Snooze at the Zoo

Wild World Animal Show

ZooCamp

ZooMobile

Field Conservation

American Association of Zoo Keepers (AAZK) - Cans for Corridors

AZA FrogWatch USA

AZA Tiger SSP - Tiger Conservation Campaign

Greater Akron Audubon - Akron Zoo Christmas Bird Count

Humboldt Penguin Project: Punta San Juan, Peru

Instituto de Pesquisas Ecológicas (IPÊ)

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Madagascar Fauna and Flora Group (MFG)

Medina Raptor Center

Ohio Lights Out

Rebuilding the Pride - African Lion Conservation

Red Panda Network (RPN)

Red Wolf Coalition

Snow Leopard Trust (SLT)

Turtle Survival Alliance (TSA)

White-Winged Duck: Conservation Status and Site-Specific

Threats to it in and Around Dehing Patkai Wildlife

Sanctuary

Wildlife SOS

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

Certified by the Green Restaurant Association

One or More Buildings LEED-Certified by the US Green **Building Council**

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Alternative Transportation Benefits for Staff

Building Energy Management

Carbon Offsets for Employee Travel

Commingled Recycling

Completed Greenhouse Gas Inventory

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Energy Submetering

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Green IT

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Purchased Carbon Offset(s) for On-Site Utility Use

Purchased Green Power or Renewable Energy Credits (RECs)

Smart Building Strategies

Stormwater Management Program

Wastewater Reduction Water Submetering

Waterwise Landscaping

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

Specified a Portion of the Amount Saved for Next Year's **Green Practices**

WATER

Documented Amount Spent

Documented Amount Used

Research

Akron Zoo - Hiram College Partnership

Eastern Carolina University White-Winged Wood Duck Genetics and Tuberculosis PCR Development

BOONSHOFT MUSEUM OF DISCOVERY

Field Conservation

AZA SAFE Fund

Sloth Conservation Foundation

CINCINNATI ZOO & BOTANICAL GARDEN

Education

Adult Programs

Advanced Inquiry Program

America Recycles Day

Barrows Conservation Lecture Series

Behind-the-Scenes Experiences

Blakely's Barnyard Bonanza

Cat Ambassador Outreach Program

Center for Conservation and Research of Endangered

Wildlife (CREW) Tours

Cheetah Encounter

Corporate Community Service Program

Earth Expeditions

Family Community Service Program

Family Programs

Go Bananas Cell Phone Recycling Challenge

Greater Cincinnati Environmental Educators (GCEE) Ultimate

Educator Expo

Green Programs

Internships

Keeper Chats

Overnight Adventures

School Close Encounters

Seasonal Highlights

Self-Guided Activities & Tours for Schools

University of Cincinnati "At the Zoo" Courses

Wild Discover Zones

Wild Encounters

Wings of Wonder Bird Encounter

Wings of Wonder Outreach Program

Zoo Camp

Zoo on the Move - Community

Zoo on the Move - Schools

Zoo Troop

ZooTeens

Field Conservation

African Manatee Research and Conservation in Senegal

African Wildlife Conservation Fund - Conserving Africa's Endangered Wild Dogs in Zimbabwean Lowveld

American Burying Beetle (ABB) Reintroduction Program

Asian Elephant Support (AES)

Autumn Buttercup (Ranunculus aestivalis) Reintroduction

Bird Strike Mitigation Program

Black-Footed Cat Working Group

Blue Throated Macaw

Botswana Predator Conservation Trust (BPCT)

Bowyer Farm Habitat Restoration

Enhancement of Gorilla Related In-Situ Conservation Education in Northern Democratic Republic of Congo

International Elephant Foundation (IEF) - Elephant Conservation Units in Sumatra

International Rhino Foundation (IRF) - Sumatran Rhino

Conservation

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Kea Conservation in New Zealand

Lights Out Cincinnati

Madagascar Tortoise Rescue

Manatee Rehabilitation Centre of Belize

Manatee Rescue and Rehabilitation Partnership (MRP)

Northern Wild Monkshood (Aconitum noveboracense)

Ocelot Conservation in Texas

Okapi Conservation Project

Pallas' Cat Conservation

Polar Bears International (PBI)

Pollen Nation

Propagation of Rugel's Pawpaw for Restoration

Propagation of South Florida Ferns for Restoration

Raptor, Inc. - Local Raptor Rehabilitation

Rebuilding the Pride - African Lion Conservation

Red Panda Paintings

Sand Cat Conservation

Southern African Foundation for the Conservation of Coastal

Birds (SANCCOB)

Survey for Rare Graptemys Species and Green Salamander in Northeastern Mississippi

The Sloth Institute Costa Rica

Uganda Waterways Project

Urban Fishing Cat Project

VulPro - Vulture Conservation

Wild Camel Protection Foundation (WCPF)

Wild Nature Institute

Zoos Victoria Fighting Extinction

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified by the Green Restaurant Association

One or More Buildings LEED-Certified by the US Green **Building Council**

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Completed Greenhouse Gas Inventory

Denitrification Systems On Ground

Diverted or Recycled Construction Waste

Energy Submetering

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Green IT

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Purchased Carbon Offset(s) for On-Site Utility Use

Purchased Green Power or Renewable Energy Credits (RECs)

Smart Building Strategies

Stormwater Management Program

Used Enterprise (IT) Solutions to Track and Measure Sustainability Performance

Wastewater Reduction

Water Submetering

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Specified a Portion of the Amount Saved for Next Year's **Green Practices**

WATER

Documented Amount Spent

Documented Amount Used

Research

African Painted Dog Reproduction Study

An Evaluation of Putative Dinosaur Socio-Sexual Behaviour and its Implications for Paleobiology

Aquatic Salamander Program

Assessing Long-Term Stress in Great Apes: Allostatic Load in Bonobos (Pan paniscus)

Assessment of Fecal Hormone Metabolites for Monitoring Reproductive Activity in a Captive Female Aye-Aye (Daubentonia madagascariensis)

Association of Fecal Corticoid Concentrations With Clinical Avian Bornavirus in Kea

AZA Gorilla Survey: Regurgitation/Reingestion and Diets

Brazilian Jaguar Semen Banking and Artificial Insemination

Characterization of Milk Composition in Gorillas Throughout Lactation

Comparative Stable Isotope Analysis of Post-Consumed

Comparison of Circulating Vitamin D 3 (250HD) in Captive North American and Free-Ranging South African Black Rhinoceros (Diceros bicornis)

Development of a Rhino Ferritin Specific Assay for Monitoring the Progression of Iron Overload Disorder in **Browsing Rhinos**

Ecological Studies of Neotropical Primates

Effects of Laser and Swimming Treatments on Bumblefoot of Varying Severity in Little Blue Penguins

Exceptional Plant Signature Conservation Project

Genetic and Genomic Diversity of the Asian Elephant (Elephas maximus)

Genetic Diversity of Peter's Angola Colobus Monkey Population in Northern Tanzania and in Accredited American Zoos

Great Ape Heart Project

Great Ape Heart Project (GAHP): Bonobo Blood Pressure Study

Identification of Differentially Expressed, Circulating microRNAs as Biomarkers for Diagnosing and Monitoring Iron Overload Disorder in Rhinos

Investigation of the Genetic Diversity and Ex-Situ Collection of Federally Threatened Lakeside Daisy

Large Cat Semen Banking and Artificial Insemination

Mating Behavior and Chemical Communication of Necturus Salamanders

Novel Assessments of Body Composition and Relation to Metabolic Status and Fat Stores in Asian Elephants

Orangutan Biologger Design Testing

Ovarian Cycle and Pregnancy Monitoring of the Common Hippopotamus (Hippopotamus amphibius) Through Salivary Analyses and Trans-Abdominal Ultrasound

Patterns of Diversity in the Indigenous Microbiota of Captive Mammals

Polar Bear Signature Conservation Project

Rhino Signature Conservation Project

Rhinoceros Iron Overload Disorder Research

Small Cat Signature Conservation Project

Social Relationships of and Reciprocity in Vampire Bats

The Variation in Musth Among Asian Elephants (Elephas maximus): Applications For Management and Conservation

Understanding Bumblefoot Through Behavioral Manipulations: Radio-Frequency ID Tags for Measuring Swimming Behavior in Little Blue Penguins (Eudyptula

Use of Multiple Play Signals in Captive Immature Western Lowland Gorillas

CLEVELAND METROPARKS ZOO

Education

Advanced Inquiry Program

Biomimicry

Break Camps

Career Day

Certified Interpretive Guide Training

Collaborative Inquiry Project

Connections to Africa

Conservation Leadership (Rhodes)

Docent Training

Educator Open House

Future for Wildlife Training

Life of Pi

NNOCCI Trainings

Rising Waters Adult Overnight Program

Rising Waters Overnight Program

Seasonal Interpreter Training

Summer Day Camp

Summer Day Camp Staff Training

Teacher Workshops

Tiger Tracks

Zoo Genetics

Zoo Tram Narration

Field Conservation

Africa and Asia Seed Grants

Amphibian Ark

Andean Bear Conservation Alliance

Asian Turtle Conservation Program

AZA Conservation Grants Fund (CGF)

AZA Puerto Rican Crested Toad SSP - Recovery Program

AZA Tiger SSP - Tiger Conservation Campaign

Bwindi Apes Conservation Education Partnership

Cheetah Conservation Fund (CCF) - Cheetah Conservation and Human Impact in Kenya

Combating Illegal Hunting and Wildlife Trafficking in Sabah

Conservación de la Naturaleza Amazónica del Perú (CONAPAC)

Conservation Grants Administration

Eastern Gorilla Conservation - Capacity-Building, Gorilla Monitoring, and Core Support

Eastern Plains Gartersnake Conservation Project

Education for Nature - Vietnam

Employing Conservation Dogs to Help Fight Wildlife Trafficking in Africa

Evaluation of Body Condition and Glucose Metabolism as Part of the Health Assessment of Nubian Giraffe (Giraffa camelopardalis camelopardalis) During Conservation Translocation

Giraffe Conservation Foundation (GCF)

Human-Wildlife Conflict Collaboration/Center for Conservation Peacebuilding

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Kinabatangan Orangutan Conservation Project

Little Fireface Project - Slow Loris Conservation

Madagascar Fauna and Flora Group (MFG)

Mbeli Bai Study (MBS) - Club Ebobo

Monitoring Wildlife Trade in the Wildlife Markets of Java and Bali

Operation: Stop Poaching Now

Red Panda Network (RPN)

Ruaha Carnivore Project (RCP)

Sea Turtle Research and Conservation in the Paria Peninsula, Sucre State, Venezuela

Snow Leopard Trust (SLT) - Natural Partnerships Program

The Amazon Center for Environmental Education and Research (ACEER) Foundation

TRAFFIC: The Wildlife Trade Monitoring Network

Tree Kangaroo Conservation Program

Turtle Survival Alliance (TSA)

UNITE for the Environment

University of Rwanda Memoirs Program

Using African Forest Elephant Behavioral Ecology to Inform **Anti-Poaching Strategies**

WildAid

Wildlife Conservation Society (WCS) - 96 Elephants - Anti-Poaching and Law Enforcement

Green Practices

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting (On-Site or Off-Site)

Generated Solar or Wind Energy

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Research

CS2014-010 Assessing Welfare in Zoo-Housed Cheetahs **Under Different Management Strategies**

CS2015-015 Effect of Meal Frequency on Biological Indicators of Inflammation and Glucose Metabolism, Fecal Microbiome, and Behavior in Cheetahs Housed at Cleveland Metroparks Zoo

CS2016-003 Developing Techniques for Studying Effects of a Novel Skin Disease on Locomotion in Giraffa camelopardalis

CS2016-009 Addendum to CS2015-011 Developing Assisted Reproductive Technologies in Freshwater Turtles

CS2016-014 The Impact of Diet on Sloth Bear Physiology, Health, and Behavior

CS2016-026 Learning and Behavior Outcomes Associated With Conservation Education Teacher Training in Communities Adjacent to Kibale National Park (UNITE) and Bwindi Impenetrable National Park (BACEP)

CS2016-027 Bear Behavior Monitoring

CS2017-009 Investigating Giraffe Behavior and Space Use in Relation to a Guest Feeding

CS2017-013 Effects of a Low Starch, High Fiber Diet on Health and Behavior of Orangutans at Cleveland Metroparks Zoo

CS2017-014 Gorilla Behavior and Health Monitoring

CS2017-016 Salivary Sample Request for Validation of Oxytocin Assay for Black Rhinoceros

CS2017-017 Urine Sample Request for Validation of Assays Leptin, Adiponectin, and C-Peptide for Gorillas

CS2017-019 Monitoring Effects of Anxiolytic Medication on Allen's Swamp Monkey

CS2017-022 Which Methods of Quantifying Pacing Behavior Are Most Effective?

CS2017-026 Monitoring Behavioral and Physiological Indicators of Welfare in Several Species Moved to a Novel Zoo Environment

CS2017-036 Examining Adrenal Activity and Relationship to Reproductive Hormones and Behavior in a Female Matschie's Tree Kangaroo

CS2017-038 Oxvtocin as a Measure of Social Bond and Welfare in Western Lowland Gorillas in North American Zoos

CS2018-011 STEM Matters: Investigating the Confluence of Visitors and Institutional Agendas

CS2018-001 Reproductive Management of the Eastern Black Rhino

CS2018-002 Zoo Keeper/Aquarist Survey

CS2018-003 The Effects of Enclosure Choice on the Behavioral Welfare of Zoo-Housed Amur Tigers (Panthera tigris altaica)

CS2018-006 Investigation of the Relationship Between Oxalate Fermenting Gut Bacteria and Urolithiasis in Asian Small Clawed Otters in Human Care

CS2018-007 Effects of Two Novel Enrichment Strategies on the Welfare of a Zoo-Housed Giant Pacific Octopus (Enteroctopus dofleini)

CS2018-010 Comparison of Circulating Vitamin D 3 (250HD) in Captive North American and Free-Ranging South African Black Rhinoceros (Diceros bicornis spp.)

CS2018-014 An Examination of Welfare Indicators of a Zoo-Housed Green Tree Monitor (Varanus prasinus) in Response to Environmental Enrichment

CS2018-016 Geriatric Elephant Survey

CS2018-018 Evaluating Various Conservation Behaviors in Zoo Audiences: a Mixed Methods Study

Disease Surveillance of Cleveland Metroparks Deer Herds

COLUMBUS ZOO AND AQUARIUM

Education

Camp-Ins

Canvases for Conservation

Classroom Safari

Germain Keeper Talks

Homeschool Adventure Tours

Interpretive Contacts

Library Requests

Little Explorers' Base Camp

Outreach

School's Out Camps

Summer Experience Day Camp

Sunrise on the Savanna

Teacher Workshops

Teen Eco Summit

Twilight/Wildlights Tours

University Courses

VIP Tours

Wild Encounters Tours

Zoo School

ZooKids

ZooKids Seedlings

Zoombezi Bay Science Day

Field Conservation

Akagera National Park

Akagera National Park Rhino Trackers

American Bird Conservancy

Amphibian Ark

Asociación de Rescate y Conservación de Vida Silvestre (ARCAS)

AWF Protecting Black Rhino in Kenya

AZA Eastern Massasauga Rattlesnake SSP

Bat Conservation International

Boots on the Ground - Omo-Shasha-Oluwa

Brown Bear Conservation and Research Programme in a Model Area in Romania

Captina Conservancy - Hellbender Research and Assessment

Caribbean Manatee Conservation

Center for Conservation Peacebuilding (Formerly) Human-Wildlife Conflict Collaboration

Center for the Conservation of Tropical Ungulates -Assessment of the Lowland Tapir

Centre for Bat Research and Conservation

Cheetah Conservation Fund (CCF) - Cheetah Conservation Education and Community Outreach

Cheetah Outreach Trust - Conserving Southern Africa's Free-Ranging Cheetah Through Farmer-Predator Conflict Mitigation

Club PAN (People, Animals, Nature): A Conservation Education Project of the Wild Chimpanzee Foundation Around the Tai National Park

Columbus Zoo Conservation

Connecting Zoo Professionals with Giraffe Conservation

Conserving the Endemic and Endangered Iringa Red Colobus Monkey

Dian Fossey Gorilla Fund International

Eastern Plains Garter Snake State Recovery Program

Elephants for Africa

Evaluating Local Community Sources of Intelligence for Tackling the Illegal Wildlife Trade

EWASO: Ecology and Conservation of Lions - Studying Factors Affecting the Population Dynamics in Northern Kenya

Fishing Cat Conservancy

Freshwater Mussel Conservation and Research Center

Giant Armadillo Project

Giraffe Conservation Foundation (GCF) - Conserving Africa's Giraffe Through Research and Education

Hawk Conservancy: Combating Wildlife Poisoning Through Training in Southern Africa

Herpetofauna Responses to Reduced Impact Logging in Borneo

Hirola Conservation Programme

Integrating Science and Community Stewardship for Conservation of Critically Endangered Chinese Pangolins

International Elephant Foundation (IEF)

International Gorilla Conservation Program

International Iguana Foundation (IIF)

International Rhino Foundation (IRF)

International Rhino Foundation (IRF) - Black Rhino Conservation in Zimbabwe

J.A.C.K. Chimpanzee Sanctuary in Lubumbashi, DRC

Jane Goodall Institute - Release of Wild Born Mandrill

Kinabatangan Orangutan Conservation Project

Limbe Wildlife Centre

Little Fireface Project - Saving the Javan Slow Loris Through Ecology, Education, and Empowerment

Lola Ya Bonobo - Integrated Bonobo Conservation in the Democratic Republic of Congo

Lowland Tapir Conservation Initiative

Lwiro Primates (CRPL) Chimpanzee Habitat for Conservation and Education

Manatee Rescue and Rehabilitation Partnership (MRP)/
Manatee Species Recovery Plan

Marine Mammal Center - Advancing Ocean Conservation
Through Marine Mammal Rescue, Rehabilitation, Scientific
Research, and Education

Misión Tiburón Conservation of the Hammerhead Shark and its Critical Habitats in Golfo Dulce

Monitoring Disease Threats for the Reintroduction of the Endangered Iberian Lynx in Extremadura

Mountain Gorilla Veterinary Project

New Nature Foundation - Vietnam

Nubian Giraffe Health Assessment During Relocation

Ohio Wildlife Center

Ohio Wildlife Center - Central Ohio Lights Out Program

Okapi Conservation Project

Orangutan Appeal UK

Painted Dog Conservation

Pan African Sanctuary Alliance - Education Components

Pan African Sanctuary Alliance (PASA)

People and Carnivores - Carnivore and Rangeland Conservation on the Rocky Mountain Front

Polar Bears International (PBI)

PROCETUS - Photo Identification of Cetaceans

Project Wildcat

Protecting Grevy's Zebras in Northern Kenya

Raptors Botswana

Research and Community Outreach to Conserve Threatened Atlantic Forest Birds in Argentina

Rwanda Wildlife Conservation Association

Satellite Tracking and Social Behavior of the Bornean Elephant in Kinabatangan

Save the Tasmanian Devil Program

Sea Turtle Watch Liberia

SExual COral REproduction (SECORE)

Snow Leopard Trust (SLT)

Snow Leopard Trust (SLT) - Long-Term Ecological Study of Snow Leopards in Mongolia's South Gobi Province

Spatial and Temporal Patterns in the Occurrence of (Leopardus wiedii) Margay

Status and Conservation of *Mecistops cataphractus* in Obuasi Municipality

Supporting the Anti-Snaring Activities of the South Luangwa Conservation Society

Tacugama Chimpanzee Sanctuary

The Kasiisi Project

Tree Kangaroo Conservation Program

Turtle Conservation Project: Capacity Development Program in Sri Lanka

Turtle Survival Alliance (TSA)

Turtle Survival Alliance (TSA) - Central American River Turtle (Project Hicatee)

Uganda Wildlife Society

US Wildlife Trafficking Alliance

Vulture Conservation Programme (VulPro) - Cape Vulture Rehabilitation and Release

Walk the Line: Monitoring Animal Movement in Botswana Game Reserve

Wildlife Conservation Society - Beekeeping Project

Wildlife Poisoning Prevention and Conflict Resolution -Wildlife Poisoning Prevention and Anti-Poaching Support

Wildlife SOS Sloth Bear Attack Behavior and Behavioral Approach to Safety

WildSEAS Conservation

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified by the Green Restaurant Association

One or More Buildings LEED-Certified by the US Green **Building Council**

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Alternative Transportation Benefits for Staff

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Denitrification Systems On Ground

Diverted or Recycled Construction Waste

Energy Submetering

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Green IT

Procured Local Food for On-Site Animals and/or Guest

Purchased Green Power or Renewable Energy Credits (RECs)

Smart Building Strategies

Stormwater Management Program

Water Submetering

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Research

Assessing Long-Term Stress in Great Apes: Allostatic Load in Bonobos

AZA Gorilla Survey: Regurgitation/Reingestion and Diet

Characterization of Haemonchus Parasitism at the Columbus Zoo

Comparative Serum Proteomics Project

Computerized Tomographic Evaluation of Hepatic Liver Concentration in Two Turtle Species

Developing Diagnostic Tools to Characterize African Tree Pangolin Growth and Development, Implications for Species Conservation, and Health Assessments

Evaluating SDMA as a Renal Insufficiency Marker in Captive Cheetahs (Acinonyx jubatus) Through the Design of an Iohexol Clearance

Integration of a Bachelor Elephant Herd: Behavior, Endocrine. and Physiological Monitoring

Investigating the Composition of Milk of Apes

Orangutan Growth, Development, and Reproductive Strategies

Prosimian Biomedical Research Project

Quantitatively Measuring Welfare of Black Footed Penguins (Spheniscus demersus) Based on the 'Five Domains Model' and the AZA Animal Welfare Template

Quantitatively Measuring Welfare of Cheetahs Based on the 'Five Domains Model' and the AZA Animal Welfare Template

Quantitatively Measuring Welfare of Macaws Based on the 'Five Domains Model' and the AZA Animal Welfare Template

Spatial Relationships and Allostatic Load in Western Lowland Gorillas

Stress Levels and Behavioral Responses in North American Cougars (Puma concolar) in Human Care

Understanding Asian Elephant Welfare and Behavior After 700 Hours

Variation in Musht Among Asian Elephant Applications for Management and Conservation

THE WILDS

Education

Education/Youth Safari

Homeschool Programs

Kids' Discovery Field Station

Outreach

Overnights

WildeCamp

Field Conservation

Assessing Grassland Bird Diversity in The Wilds Bison Grazed

Assessing the Vegetation Community of Reclaimed Grasslands at The Wilds

Augmenting Barn Owl Nesting Opportunities

Bat Acoustic Surveys

Building Conservation Capacity for Future Restoration **Ecologists**

Cavity Nester Usage of Nest Boxes and Reproduction on a Reclaimed Surface Coal Mine

Comparing Microclimate Suitability for Terrestrial Salamanders Between Remnant and Reclaimed Forest

Conservation Genetics and Population Structure of Two Garter Snake Species in Western Montana

Control of Invasive Species Across the Landscape

Detecting the Endangered Mussel Carolina Heelsplitter Using eDNA Survevs

Determination of Eastern Hellbender Presence in Ohio Utilizing Environmental DNA (eDNA)

Determination of Predator-Avoidance Conditioning Techniques for Headstarted Eastern Hellbenders

Evaluation of Beaver Community at The Wilds

Evaluation of Miller Valley Wetland Following Restoration

Habitat Modeling of Loggerhead Shrike

Habitat Variables Associated With Meso-Predator Distribution and Abundance on a Reclaimed Surface Mine Using Camera Traps

Habitat Variables Associated With Salamander Distribution and Abundance on a Reclaimed Surface Mine

Headstarting Operations for Eastern Hellbenders

Improving Hardwood Forests Through Invasive Species Control

Long-Term Lepidopteran Surveys and Pollinator Habitat Enhancement

Miller Valley Stream Restoration

Monarch Butterfly Conservation

Monitoring the Health of the Miller Stream: An Assessment of Macroinvertebrate Communities

Native Bee Diversity and Abundance on Reclaimed Surface Mine Land

Native Taxon Inventories

Natives in Reclamation

Prairie Creation, Restoration, and Management of Native Plant Communities

Przewalski Horse and Onager Reproduction

Reforestation of Reclaimed Grasslands

Reintroduction of American Burying Beetles to Ohio

Scat Surveys for Genetic Identification and Diet Analysis of Carnivores on a Reclaimed Surface Coal Mine

Snake Fungal Disease

Surveying for Wintering Raptor Presence and Abundance Across Multiple Habitat Types at Reclaimed Coal Mines

Testing a Detection Dog Survey for the Black-headed Bushmaster in Costa Rica

Testing Prairie for Biomass and Carbon Sequestration on Reclaimed Mine Land

Using Soil eDNA to Test for Presence of Terrestrial Salamanders

Utilizing Fire Management to Maintain Prairie Ecosystems

Variables Associated With Artificial Vernal Pool Utilization by Spring-Breeding Amphibians on a Reclaimed Surface Mine

TOLEDO ZOO & AQUARIUM

Education

Animal Contact Yard

Animal Demonstrations

Behind-the-Scenes Tours

Birthday Party Animal Demonstrations

Bug Festival

Camps

Climate Change Symposium

Distance Learning

Dive Show Interpretation

Elephant Exhibit Inquiry Kiosks

Fisher-Price Amphitheater Show

Homeschool Programs

iEvolve With STEM

Junior Zookeeper

Nature's Neighborhood

Nature's Neighborhood Free Play Workshop

Ocean Lab

On Grounds School Programs

Outreach Programs

Overnight Programs

Party for the Planet

Play Naturally Toledo

Pop Up/Backyard Activities

Preschool

Preschool Programs

Project PRAIRIE

Safari Train Ride Interpretive Narrative

Scout Badge Programs

Seasonal Activity Carts

Teacher Professional Development

Field Conservation

Aruba Island Rattlesnake Field Research

Conservation of the Kihansi Spray Toad

Ecology of the Cuban Boa on the United States Naval Base, Guantanamo Bay, Cuba

Great Lakes Piping Plover Recovery Effort - Salvage Rearing

Kirtland's Snake Monitoring and Assessment

Koala Education and Conservation

Maumee River Lake Sturgeon Rearing Facility

Mitchell's Satyr Reintroduction Program

Monarch Butterfly Rearing and Release

Native Orchid Conservation

Northwest Ohio Canid Assessment

Ohio Hellbender Headstart and Reintroduction

Ohio Turtle Survey and Monitoring

On-Grounds Biodiversity Monitoring

Pacific Bird Conservation/Mariana Avifauna Conservation (MAC)

Polar Bear Conservation Initiatives

Reintroduction of the Karner Blue Butterfly to the Oak Openings of Northwestern Ohio

Rewilding of Urban Brownfields With Prairie Installations

Santa Cruz Ground Dove Conservation

Save the Tasmanian Devil Program

Scaly-Sided Merganser Task Force

Snow Leopard Conservation in Kyrgyzstan

Wyoming Toad Field Surveys

Zooteen Field Conservation Efforts

Green Practices

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Smart Building Strategies

Stormwater Management Program

Water Submetering

Waterwise Landscaping

TOLEDO ZOOLOGICAL GARDENS

Green Practices

ENERGY

Generated Renewable Energy On-Site

Purchased Renewable Energy

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FUEL

Documented Amount Spent

Documented Amount Used

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

Oklahoma

OKLAHOMA CITY ZOO AND BOTANICAL GARDEN

Education

Animal Presentations

Day Camps/Summer Camps

Nature Explorers Preschool

Overnight Programming

Schools/On Grounds

Schools/On Grounds GRANTS

Scout Badge Programs

Tuition/Family Classes

Zoomobiles - Outreach

Zoomobiles - Outreach Grants

Field Conservation

American Association of Zoo Keepers (AAZK) - Bowling for Rhinos

American Bird Conservancy

AZA Conservation Grants Fund (CGF)

AZA Komodo Dragon SSP

AZA Tiger SSP - Wildlife Conservation Society (WCS) -Sumatran Tiger Conservation Project

Belize Foundation for Research and Environmental Education

Connecting Wildlife Through Zambia's Transboundary Wildlife Movement Corridors in the Kavango Zambezi Tranfrontier Conservation Area (KAZA TFCA)

Conservation Ambronia

Conserving Grauer's gorilla in the Mwana Valley of Itombwe Natural Reserve, Democratic Republic of Congo

CrocFest

Dama Gazelle Conservation

Dian Fossey Gorilla Fund International

Diversity = Resilience: Marine Conservation in Urban Schools

Ecology, Conservation, and Reintroduction of Central American River Turtles

Giraffe Conservation Foundation (GCF)

International Otter Survival Fund

International Rhino Foundation

Jatun Sacha Foundation

Kedestes Butterfly Conservation Project

Monarch Butterfly

Monarch Watch

Northern Rangelands Trust - Conservancies Support

Okapi Conservation Project

Oklahoma Department of Wildlife Conservation

Painted Dog Research Trust

Pan African Sanctuary Alliance

Reintroduction Strategy for Radiated Tortoises

Seafood Watch

Snapshot Safari

Texas Horned Lizard Behavioral Ecology and Reintroduction

The Nature Conservancy - Oklahoma Chapter

Turtle Survival Alliance (TSA)

Warriors Protecting Grevy's Zebra in Laisamis, Northern Kenya

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FUEL

Documented Amount Spent

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Building Energy Management

Commingled Recycling

Composting (On-Site or Off-Site)

Energy Submetering

Graywater Reuse and/or Rainwater Harvesting

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan

WATER

Documented Amount of Wastewater Generated

Research

A Study of Dominance Hierarchies in African Painted Dog

Blood Coagulation Assessment of Captive Asian Elephants (Elephas maximus)

Post-Occupancy Evaluation of Sanctuary Asia: Animal, Staff, and Visitor Responses

Small Mammal Survey

Social Behavior and Activity Budget of Orangutans at the Oklahoma City Zoo

Variation in Musth Among Asian Elephants (Elephas maximus): Applications for Management and Conservation

TULSA ZOO

Field Conservation

American Burying Beetle Project

AZA Tiger SSP - Tiger Conservation Campaign - Endau-Rompin Landscape of Peninsular Malaysia

Berdiri Foundation Elephant Response Unit - Way Kambas

International Elephant Foundation (IEF)

International Rhino Foundation (IRF) - Operation: Stop Poaching Now

Mabula Ground Hornbill Project (MGHP)

Monarch Butterfly Watch Program and Waystation Program

Monarch Initiative of Tulsa

Save the Wild Chinchillas

Seafood Watch - Conservation Partner

Snow Leopard Trust (SLT) - Natural Partnerships Program

Southern African Foundation for the Conservation of Coastal Birds (SANCCOB)

The Scarlet Macaw Population Recovery Program

West African Primate Conservation Action - Creation and Management of a Community-Protected Forest on the Border of Ghana and Côte d'Ivoire to Promote Conservation of Endemic Wildlife and Habitat

Wild Nature Institute

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Generated Energy through Anaerobic Digester

Green IT

Procured Local Food for On-Site Animals and/or Guest

Purchased Carbon Offset(s) for On-Site Utility Use

Stormwater Management Program

Used Enterprise (IT) Solutions to Track and Measure

Sustainability Performance

Waterwise Landscaping

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Composted

Documented Amount Recycled

WATER

Documented Amount Spent

Documented Amount Used

Research

Comparing Cortisol Levels to Behavior in Female Grizzly Bear in Captivity

Osteohistological Research to Build an Osteohistology Thin Section Database

Pharmacokinetics of Rectally and Orally Administered Levofloxacin in Asian Elephants (*Elephas maximus*)

The National Elephant Herpesvirus Laboratory (NEHL)

Understanding the Neurological Evolution of Bird Flight

Oregon

OREGON COAST AQUARIUM

Education

Adult Volunteer Interpreters

Animal Encounters

Aqua Tots

Behind the Scenes Tour

Behind the Scenes Tours - Careers

Biofact Carts

Coastal Learning Symposium

Day Events

Dive Interpretation Presentations

Guest Displays

Job Shadows

Lab Programs

Magic Moments

Ocean Literacy Initiative

Oceanscape Network

Oregon Coast Education Partnership

Outreach

Passages Discovery Zone

Plankton Station

Public Animal Feedings

Sleepovers

Virtual Explorations

Volunteer Guided Walks

Volunteer Interpreter Training

Waterlines

Youth Volunteer Interpreters

Field Conservation

Monitoring Transplanted Eelgrass (Zostera Marina) in a Newly

Created Inter-Tidal Habitat

Oregon Marine Reserves

Sea Otter Disaster Plan

Wildlife Rehabilitation

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting (On-Site or Off-Site)

Energy Submetering

Waterwise Landscaping

WATER

Documented Amount Spent

Documented Amount Used

Research

Crafting Actionable Messages About Marine Plastic Pollution

at the Oregon Coast Aquarium

OREGON ZOO

Education

Behind the Scenes Tours

Camp Programs

Education Center Partner Programs

Headstart ZooMobile

Insect Zoo

Teacher Partnerships

Teacher Professional Development

Urban Nature Overnights (UNO)

Wildlife Live Show

Zoo Ambassadors

Zoo Animal Presenters (ZAP) - First Year

Zoo Guides

Zoo School/Zoo To You

Zoo Teens (General)

ZooSnooze - Overnights Program

ZooTeens - Conservation Corps

Field Conservation

Action for Cheetahs in Kenya

American Association of Zoo Keepers (AAZK) - Bowling for

AZA FrogWatch USA

AZA Tiger SSP - Tiger Conservation Campaign

California Condor Breeding Program

Cascades Pika Watch

Cheetah Conservation Fund (CCF)

Forest Elephant Conservation in Borneo

Future for Wildlife Field Conservation Grant Program

HUTAN-Kinabatangan Orang-Utan Conservation Project

International Rhino Foundation (IRF)

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Kasese Wildlife Conservation Awareness Organization

Long-Term Reproductive Hormone Monitoring of Asian

Elephants

Northern Leopard Frog Recovery

Oregon Silverspot Butterfly (Speyeria zerene hippolyta)

Cascade Head Population Supplementation

Oregon Zoo Conservation Crew

Orphan Cougar Placement

Painted Dog Conservation (PDC)

Panthera

Polar Bear Metabolic, Nutrition, and Accelerometer Behavior

Studies in Support of Field Conservation Efforts

Polar Bears International (PBI)

Pygmy Rabbit (Brachylagus idahoensis) Captive Care and

Breeding

SaveNature.Org

Taylor's Checkerspot Captive Rearing and Release Program, Oregon

Taylor's Checkerspot Captive Rearing and Release Program, Washington State

Vulture Conservation Programme (VulPro)

Western Pond Turtle Headstarting

Wildlife and Lead Outreach Program

Zoo Animal Presenters (ZAP) Conservation Work

Zoo Teen Conservation Corps

Zoo-Quatama Partnership

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

Purchased Renewable Energy

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified by the League of American Bicyclists

One or More Buildings LEED-Certified by the US Green **Building Council**

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Alternative Transportation Benefits for Staff

Alternative Transportation Discounts for Guests

Building Energy Management

Commingled Recycling

Completed Greenhouse Gas Inventory

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Energy Submetering

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Purchased Green Power or Renewable Energy Credits (RECs)

Smart Building Strategies

Stormwater Management Program

Used Enterprise (IT) Solutions to Track and Measure Sustainability Performance

Wastewater Reduction

Water Submetering

Waterwise Landscaping

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Research

Animal Behavior Audit Program

Asian Elephant Hormone Monitoring

Continued Pharmacokinetic Study to Investigate the Potential Use of Nebulized Terbinafine: an Antifungal in Treating Shell Disease in Western Pond Turtles

EEHV Consortium at the National Elephant Herpesvirus Laboratory Research Partner

Pilot Pharmacokinetic Study to Investigate the Potential Use of Terbinafine in Western Pond Turtles

Research Support: Biomaterial Requests (Review and Completion)

Role of Mate Choice in Reproductive Success of Taylor's Checkerspot Butterfly

The Role of Noise in Zoo Animal Health

WILDLIFE SAFARI

Field Conservation

Cheetah Conservation Fund (CCF)

Costa Rica Animal Rescue Center

International Elephant Foundation (IEF)

International Rhino Foundation (IRF)

Wildlife Conservation Network (WCN)

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Graywater Reuse and/or Rainwater Harvesting

Green IT

WATER

Documented Amount of Wastewater Generated

Pennsylvania

CLYDE PEELING'S REPTILAND

Field Conservation

AZA Crocodilian Advisory Group (CAG) - Conservation Fund

AZA Komodo Dragon SSP - Conservation Fund

Campaign for Hellbender Conservation

Merill Linn Land and Waterways Conservancy

Turtle Survival Alliance (TSA)

ELMWOOD PARK ZOO

Field Conservation

American Association of Zoo Keepers (AAZK) - Bowling for Rhinos

AZA Jaguar SSP - Cockscomb Basin Wildlife Reserve

Centro Chaqueño para la Conservación e Investigación (CCCI)

Pennsylvania Audubon Society

Proyecto Tití - Tití Conservation Alliance

Red Panda Network (RPN)

Green Practices

GREEN PRACTICES IMPLEMENTED

Smart Building Strategies

WASTE

Documented Amount Composted

ERIE ZOO

Education

Adult Programs

Animal Meet and Greets

Behind the Scenes Tours

Birthday Parties

Day Camps

Family Programs

Homeschooler ZooSchool Club

Job Shadows

Junior Zookeeper

Meet a Keeper Talks

On-Site Classroom Programs

Outreach

PreZooSchool

Scout Programs

Touch Tables

Volunteer Program

Zoo Tots

ZooSchool Classes

Field Conservation

Amphibian TAG

Giraffe Conservation Foundation (GCF)

Hawk Creek Rehabilitation

International Rhino Foundation (IRF)

International Rhino Keepers Association

Northern Jaguar Project

Orangutan Conservancy
Painted Dog Conservation

Red Panda Network (RPN)

Southern African Foundation for the Conservation of Coastal Birds (SANCCOB)

Tamarack Wildlife Rehabilitation Center

Wildcat Conservation Alliance

Research

Heterozygosity of Captive Burmese Starred Tortoises (Geochelone platynota)

New Bolten Center

The Cognitive Capabilities of the Siamang (Symphalangus syndactylus)

LEHIGH VALLEY ZOO

Green Practices

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Green Purchasing Policy/Green Procurement

NATIONAL AVIARY

Field Conservation

Connectivity of Migratory Populations of the Louisiana Waterthrush

Conservation of Birds in Cacao Plantations

Conservation of the Andean Condor

Effects of Anthropogenic Activities on Birds in Polylepis Fragments, Cloud Forest, and Exotic Tree Plantations in the Ecuadorian Andes

Factors Affecting Reproductive Success and Overwintering Survival of a Riparian-Obligate Migratory Bird

Guam Rail SSP - Breeding and Reintroduction

Hummingbird Network

Impacts of Natural Gas Development on an Indicator Species

Las Cruces Area, Costa Rica Avian Monitoring Program

Marianas Avian Conservation Program (MAC)

Monitoring Birds in the Sierra de Bahoruco

Monitoring Peregrine Falcon Nesting Sites in Pittsburgh

Pittsburgh Neighborhood Nestwatch

Pittsburgh Project Owlnet

RBURG

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Community-Based Sustainability Projects

Diverted or Recycled Construction Waste

Purchased Green Power or Renewable Energy Credits (RECs)

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Composted

WATER

Documented Amount Spent

Documented Amount Used

PHILADELPHIA ZOO

Education

Animal Training Demos

Animals in the Classroom

Barnyard

Behind the Scenes Tours

CAP (Community Access Programs)

Daytime Seasonal Events

Docent Tours

Docent Training Course

Evening Rentals/Events

Insect Barn

Interpretation Carts

Interpreters

KidZooU Climbing Structure

Little Zoo on Wheels

McNeil Avian Center Rainforest

Member Morning Strolls

New Volunteer Orientation

Overnights

Reptile Exercise Yard

Scout Badge Activity

Teacher Pass

Unless Contest

Wildlife Discovery Tours

Wings of Asia

You Belong in the Zoo

Zoo on Wheels

ZooCREW

Field Conservation

Amphibian Ark

AZA FrogWatch USA

Finding Lost Frogs of Ecuador

Golden Lion Tamarin Conservation Program

Haitian Frog Rescue

Rodrigues Environmental Education Project

Saving Endangered Frogs of Haiti

Snow Leopard Trust (SLT)

Zoo Amaru - Amphibian Conservation Center

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

Purchased Renewable Energy

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

One or More Buildings LEED-Certified by the US Green

Building Council

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Completed Greenhouse Gas Inventory

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Energy Submetering

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Green IT

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Purchased Green Power or Renewable Energy Credits (RECs)

Smart Building Strategies

Stormwater Management Program

Used Enterprise (IT) Solutions to Track and Measure

Sustainability Performance

Wastewater Reduction

Water Submetering

Waterwise Landscaping

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

Specified a Portion of the Amount Saved for Next Year's

Green Practices

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Research

Description of an Acoustic Assemblage of Frogs and the Discovery of Two New Frog Species (Adenomera spp.) From Putumayo, Colombia

PITTSBURGH ZOO & PPG AQUARIUM

Green Practices

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Commingled Recycling

Composting (On-Site or Off-Site)

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Purchased Green Power or Renewable Energy Credits (RECs)

Waterwise Landscaping

ZOOAMERICA NORTH AMERICAN WILDLIFE PARK

Education

After-Hours Tour

Animal Encounter

Animal Tales

Early Bird Tour

Falconry Experience

Job Shadow

Outreach

Photography Tour

Public Programs - Seasonal

Special Event - Creatures of the Night

Special Event - Party for the Planet

Sweet Access Experience

Tours - Guided

Wild Winter Adventure

ZooCamp - Middle School

ZooCamp - Preschool Age

ZooCamp - School Age

ZooCrew Camp - High School Age

Field Conservation

AZA Conservation Grants Fund (CGF)

Barn Owl Nest Box

Monarch Butterfly Tagging

Regal Fritillary Conservation

Rhode Island

ROGER WILLIAMS PARK ZOO

Education

Advanced Course Network

Adventures ZooCamp

Afterschool Programs

Amazon Adventures Movie

Ambassador Animal Encounters

AMP RI-Marketing Meeting

Animal Care Internship

Armadillo Encounters

BioBlitz

BioBlitz Information Session

Birthday Parties

Breakfast With the Animals

Bronx Zoo Trip

Brown University SPARK

Central Falls H.S. Program

Collette Travel Information Sessions

Community Zoomobiles

Conservation Heroes ZooCamp

Contact Yard

Counselor Trainings & Team Building

Cranston Summer Program

Docent Ambassadors Docent Training Class Docent Zoomobiles

Dream Night

Eco Agents

Elephant Barn Interpretation

Exhibit Informal Interpretation

FrogWatch USA

Giraffe & Seal Feedings

Hasbro Children's Hospital Animal Therapy

Homeschool

JOLS (Jack-O-Lantern Spectacular) Theme Nights

Jr. Docent Training Series

Members Night

Nature Swap

Opt Out Day - Black Friday

Our Big Back Yard Areas and Beyond the Fence

Party for the Planet

Pawtucket Boys and Girls Club Summer Program

Pets & Vets

Play Partner Training

Preschool Adventures

Rise and Play Sensory Friendly Mornings in the Big Backyard

Rock & Roar Concerts

Saki Monkey Gender Reveal

School Zoomobiles On & Off Grounds

Scout Safari Day

Snore & Roar Overnights

Sponsor Night JOLS (Jack-O-Lantern Spectacular)

Spooky Zoo

Tadpole Academy ZooCamp

Teacher Institute

Teacher Workshops on Play

University of Rhode Island Animal Management Course

Urban Nature Explorers

Wild Bunch Show

Wild Bunch Training

Woonsocket Summer Program

Yoga With the Elephants

Youth Advisory Counsel

Zoo Career Workshop

ZooCamp Newsletters

Field Conservation

American Burying Beetle (Nicrophorus americanus) Captive Propagation and Reintroduction Program

AZA Conservation Grants Fund (CGF)

AZA FrogWatch USA

AZA Komodo Dragon SSP

Can the Federally Endangered American Burying Beetle be Successfully Reintroduced in New York? Habitat Suitability Assessments Based Upon Community Composition of

Burying Beetles (Nicrophorus spp.)

Characterizing Primate Pet Trade and Use in the Yucatan Peninsula and Implementing Conservation Education to Preserve Endangered Geoffroy's Spider Monkeys

Community Based Habitat Restoration for the Critically Endangered Guatemalan Beaded Lizard (Heloderma charlesbogerti)

Conservation Genetics of a Kinixys homeana (Testudines: Testudinidae) Population in Central Ghana and Microsatellite Development Within Kinixys

Conservation of the Slow Loris Through Community Participation and Coffee-Growing Agroforestry in Western Java

Environment Council of Rhode Island

Habitat Assessment and Awareness Activities on Conservation of Himalayan Musk Deer (Moschus chrysogaster) in Langtang National Park, Nepal

Increasing Capacity in Chile with a Breeding Facility for **Endangered Chilean Amphibians**

International Elephant Foundation (IEF)

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Karner Blue Butterfly Recovery/Butterfly Conservation Initiative - Partnerships for Recovery

Kibale Fuel Wood Project

Moving Amphibian Probiotics From the Lab to Wild Populations Under Threat From Disease

New England Cottontail Rabbit Recovery Program

Ocean Foundation

Rhode Island Natural History Survey BioBlitz

Save the Giants Inc.

Snow Leopard Trust (SLT)

Tarangire Elephant Project (TEP)

The Transition to Nutritional Independence and Associated Conservation Risks in an Insectivorous Bat

Timber Rattlesnake Recovery Program

Tree Kangaroo Conservation Program - Papua New Guinea

VulPro/Roots and Shoots After School Programme

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Building Energy Management

Commingled Recycling

Composting (On-Site or Off-Site)

Generated Solar or Wind Energy

Green Purchasing Policy/Green Procurement

Stormwater Management Program

Water Submetering

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

Research

Are We Expecting? Developing a Test for Early Pregnancy Detection in Captive Snow Leopards (Panthera uncia)

Utilizing Pre-Recorded Video to Quantify African Elephant Behavior

South Carolina

BROOKGREEN GARDENS

Education

Children's Activity Days

Day Camps

Meet the Animals

Mother Nature's Cafe

School Field Trip Programs

Zoo to You Outreach Programs

Zookeeper for a Day

Field Conservation

Audubon Climate Watch Project

Backyard Habitat Restoration

Grow and Propagate Sea Beach Amaranth (Amaranthus pumilus)

Restoration and Monitoring of Wood Duck Houses Along Brookgreen Gardens Waterways

Restoring and Repairing Bluebird Houses to Encourage Breeding

Sea Turtle Nest Monitoring at Huntington Beach State Park

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Composting (On-Site or Off-Site)

Procured Local Food for On-Site Animals and/or Guest

Stormwater Management Program

Waterwise Landscaping

WASTE

Documented Amount Recycled

WATER

Documented Amount Spent

Documented Amount Used

Research

Determination of Environmental Factors that Influence the Population Dynamics of Bacteriophages and Bacteria in an Aviary

GREENVILLE ZOO

Education

Behind the Scenes - Backstage Expeditions

Career Day

City Appreciation Night

Distance Learning Programs at the Zoo

Field Conservation

ARCS Education and Outreach Workshops

AZA Conservation Grants Fund

AZA FrogWatch USA/ Frogwatch Researchers Of Greenville Zoo (F.R.O.G.Z.)

AZA SAFE

California Wolf Center

Community-Based Conservation of Endangered Sea Turtles Nesting Along Akassa Coast, Bayelsa Nigeria

Community-Based Habitat Restoration for the Critically-Endangered Guatemalan Beaded Lizard (Heloderma charlesbogerti)

Current Status and Conservation of Persian Leopard (Panthera pardus ciscaucasicus) in Daghestan, Russia

Ecological Drivers of Spatial Clustering in Social Behavior in Critically-Endangered Diademed Sifaka (Propithecus diadema) in a New Protected Area

Florida Panther Conservation - Captive Management Group

From Conflict to Coexistence: Investigating Drivers of Leopard-Livestock Conflict and Suitable Husbandry **Techniques**

International Rhino Foundation

Kids for Compassionate Conservation - Pan African Sanctuary Alliance

Long-Term American Alligator Feeding Behavior in Coastal South Carolina

Madagascar Fauna and Flora Group (MFG)

Maternal Transfer of Radiocesium in Nerodia floridana (Florida Green Watersnake)

Multidisciplinary Mapping: Toward a Better Understanding of Human-Carnivore Conflict and Landscape Use by Carnivores and People

Pine Snakes of Glade Farms: A Stronghold for a Vanishing Species?

Save the Frogs

Sumatran Orangutan Conservation Programme (SOCP)

Tigers Always

Training Local Scientists in Guyana

Using Wildlife Genetics to Alleviate Human-Carnivore Conflict in Tanzania

Wildcats Conservation Alliance

Xerces Society for Invertebrate Conservation

Zoo Conservation Outreach Group (ZCOG)

Zoo Conservation Outreach Group (ZCOG) - Anteaters and Highways

Green Practices

ENERGY

Documented Amount Used

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan

WATER

Documented Amount Used

Research

Monitoring Black Rat Snakes on the Greenville Zoo Campus

Turtle Trapping Project

RIPLEY'S AQUARIUM IN MYRTLE BEACH

Field Conservation

Beach Sweep

Sea Turtle Conservation

Research

Macrobaterial Infections in Seadragons

Mycobacterial Infections in Seadragons

Plasma Chemistry Database for Elasmobranchs

Reproduction of the Sand Tiger Shark in Captivity

Reproductive Cycle and Gestation of the Spotted Eagle Ray (Aetobatus narinari)

Reproductive Patterns of Cownose Rays (Rhinoptera bonasus)

Sea Turtle Reproductive Physiology

Seasonal Movement Patterns of Sand Tiger Sharks

Surgical Techniques in Cownose Rays and Southern Rays

RIVERBANKS ZOO & GARDEN

Education

Adult Programs

Animal Keeper's Forum - Population Management Dedicated Issue Sponsorship

Backyard Buds

Camp - Summer Zoo Camp

Camp - Winter Camp

Camp - Sprout Camp

Event Days - Party for the Planet, World Oceans, Enrichment Days, and Endangered Species Day

Family Events

Garden Outreach

Garden Tours

Guest Engagement

Homeschool

Junior Master Gardeners

Little Learners at Riverbanks

Outreach

Overnights

School Programs - Classroom Style

School Programs - Tour Style

Zoo Teens

ZooBots

Field Conservation

African Penguin Chick Bolstering Project

American Association of Zoo Keepers for the International Rhinoceros Foundation

Building an Evidence Base for Gharial (Gavialis gangeticus) Conservation in Nepal

California Condor Restoration

Conservation of Threatened Cavity-Nesting Birds and Their Atlantic Forest Communities in Argentina

Construction of the Rabonga Hills Ranger Post, Murchison Falls National Park Recovery Program

Ecology and Conservation of King Cobras in the Western Ghats of India

Environmental Correlates of Survival and Extinction for the Critically Endangered Blue-Crowned Laughingthrush

Komodo Dragon SSP General Fund

Marc MacDonald - Staff Conservation Presentation

MOTUS Wildlife Tracking System

Population Assessment of a Newly Discovered Population of Nautilus off of the Coast of Thailand

Prevalence of Snake Fungal Disease in Watersnakes on the Savannah River Site

Protecting Southern Africa's Most Endangered Carnivore Through Rabies Vaccination Campaigns

Riverbanks Field Conservation Associates Program

Silent Forest Campaign

South Carolina Wildlife Federation Scholarship Fund

The Kids for Compassionate Conservation Program in Gabon

Turtle Survival Alliance (TSA) - Turtle Survival Center

Understanding Endocrine Control of Egg Production for Improved Reproduction of Whooping Cranes

Using a Multipronged Approach to Make a Biological Corridor in Misiones, Argentina a Reality

Using Stable Isotope Analysis to Assess Diet and Competition in Two Rare Island Endemics: Implications for Habitat Restoration and Species Persistence

Why, When, and How Giant Anteaters Cross Roads? Understanding Impacts and Effects of Roads on Giant **Anteater Populations**

Wildlife Poisoning Forensic Training and Awareness for Rangers, Enforcers, and Communities in Africa

Green Practices

ENERGY

Generated Renewable Energy On-Site

FOOD

Sourced Local Food or Grew it On-Site

GREEN CERTIFICATIONS

Certified by the Green Restaurant Association

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Generated Solar or Wind Energy

Green Building Policy/Commitment

Green IT

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Used Enterprise (IT) Solutions to Track and Measure Sustainability Performance

WASTE

Documented Amount Composted

Research

Documenting the Mammalian Biodiversity of Sumaco National Park

SOUTH CAROLINA AQUARIUM

Education

"Good Catch" Seafood Initiative Educational Publications/ Materials

Adult Learning Series

Aquarium AquaTeen Program

Aquarium Rovers

Behind the Scenes Tours

Daily Interpretive Program

Discovery Cart Program

Discovery Lab

Distance Learning

Good Catch (Sustainable Fisheries) Special Events

Good Catch Sustainable Seafood Initiative Dinner Series

High School Intern Program

Homeschool Programs

Member Educational Programs

Ollie's Trading Post Trades

Roving Interpretation

Scavenger Hunts

Sea Turtle Hospital Tours

Shadow Day

South Carolina Aquarium Curriculum

South Carolina Aquarium Species Sheets

Structured School Program

Teacher Workshops

Tributaries Member Magazine

Volunteer Training

Field Conservation

Answering Management Questions Surrounding the Atlantic Horseshoe Crab: Impacts of Biomedical Bleeding in South Carolina

Cape Island Turtle Project

Robust Redhorse Conservation Committee

Sea Turtle Stranding Pathology - Formalized Data Collection and Disease Surveillance

South Carolina Aquarium Sea Turtle Care Center

South Carolina Department of Natural Resources (SCDNR) Marine Resources Division - In-Water Sea Turtle Study

South Carolina Oyster Restoration and Enhancement Program

South Carolina Phytoplankton Monitoring Network

Turtle Survival Center Veterinary Care Program

Research

Assessing the Impact of Invasive Red Lionfish (Pterois volitans) on the Diversity and Abundance of Fishes Associated With Artificial Reef Marine Protected Areas (MPAs)

Field-Based Bottlenose Dolphin Habitat Usage and Distribution Surveys

Nesting Population Assessment of the Atlantic Horseshoe Crab (Limulus polyphemus) in Charleston Harbor

South Dakota

BRAMBLE PARK ZOO

Field Conservation

American Kestrel Partnership

Raptor Rehabilitation

Upper Big Sioux River Watershed Project

Green Practices

GREEN PRACTICES IMPLEMENTED

Procured Local Food for On-Site Animals and/or Guest

Research

Lead Testing of Rehab Birds of Prey

Seasonal Fluctuations in Adult Mosquito Populations in Fastern South Dakota

GREAT PLAINS ZOO & DELBRIDGE MUSEUM OF NATURAL HISTORY

Field Conservation

AZA Conservation Grants Fund (CGF)

AZA SAFF

AZA Tiger SSP - Tiger Conservation Campaign

Giraffe Conservation Foundation (GCF)

International Rhino Foundation (IRF)

Minnesota Zoo Rhino Project

National Park Partnerships Planning

Native Raptor Rehabilitation

Okapi Conservation Project

Raptor Rehabilitation Flight Cage

Snow Leopard Trust (SLT)

Turtle Survival Alliance

Wildlife Conservation Network (WCN) - Ewaso Lions

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Tennessee

CHATTANOOGA ZOO AT WARNER PARK

Education

Zoo Club

Zooniversity

Field Conservation

Chattanooga Zoo Conservation Award

Pantanal Giant Armadillo Project

Snow Leopard Trust (SLT)

Wildlife Rehabilitation

Green Practices

ENERGY

Documented Amount Used

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Building Energy Management

Commingled Recycling

Energy Submetering

Green Building Policy/Commitment

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Wastewater Reduction

Water Submetering

Waterwise Landscaping

WATER

Documented Amount Spent

Documented Amount Used

Research

Asleep or Faking it? The Patient State Index as a Novel Anesthetic Monitoring Tool in Captive Chimpanzee (Pan troglodytes)

Clinicopathological Features of Toxoplasmosis in Four Red Pandas (Ailurus fulgens)

Pulmonary Silicosis in Two Adult Rock Hyraxes

Treatment of Suspected Exertional Myopathy Using Dantrolene in a Coyote (Canis lantrans)

Using Internet Technology to Connect Chimpanzees

ELEPHANT SANCTUARY IN TENNESSEE

Green Practices

ENERGY

Documented Amount Used

Generated Renewable Energy On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Graywater Reuse and/or Rainwater Harvesting

Stormwater Management Program

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

WASTE

Documented Amount Composted

MEMPHIS ZOO

Education

Earth Day

Explorers Academy

Homeschool Days

International Polar Bear Day

Zoo Camp

Zoo Classes

Zoo Snooze

Field Conservation

African Elephant Population Monitoring in the Okavango Delta, Botswana

Boreal Toad Conservation Program

Conserving the World's Largest Amphibian: Reintroduction and Translocation of the Chinese Giant Salamander Into the Wild

Creating a New Self-Sustaining Population of the Critically Endangered Dusky Gopher Frog to Restored Habitat

Development of Assisted Reproductive Technologies for Endangered North American Amphibians

Development of Sperm Collection, Extension, Cryopreservation, and Al for Endangered U.S. Snakes

Fit for the Wild? A Comparison of Captive Raised and Wild Caught Dusky Gopher Frogs to Assess their Fitness for Reintroduction

Giant Panda Conservation

Jaguar Conservation in Brazil

Monitoring Local Avian Productivity and Survivorship

Pangolin Consortium

Purseweb Spider Conservation: Occupancy Modeling for Urban Forest Fragments

Returning the Louisiana Pine Snake to Restored Habitat

Urban Snake Ecology

Validating Non-Invasive Dermal Swabbing Method to Study Stress Hormones in Wyoming Toads

NASHVILLE ZOO, INC.

Education

Camp Programs - Animal Olympics

Camp Programs - Creature Features

Camp Programs - Grossology

Camp Programs - Project GLOBE

Camp Programs - The Great Zoo Detective

Camp Programs - We Built A Zoo

Camp Programs - Zooper Heroes

Camp Programs - Zootastic Beasts

Event Programs - Avian Awareness Day

Event Programs - Great Backyard Bird Count

Event Programs - Party for the Planet

Event Programs - World Rhino Day

Homeschool Programs - A Day in the Life

Homeschool Programs - Animal Wrappers

Homeschool Programs - Come To Your Senses

Homeschool Programs - Endangered Species

Homeschool Programs - Surviving The Wild

Interpretive Programs - Adult Guided House Tour

Interpretive Programs - Andean Bear

Interpretive Programs - Cassowaries Love To Garden

Interpretive Programs - Children's Guided House Tour

Interpretive Programs - Gibbons

Interpretive Programs - Lemurs

Interpretive Programs - Rhinos

Interpretive Programs - Tapirs

Interpretive Programs - Zebra

Overnight Programs - 3 Cheers for Animals

Overnight Programs - Animal Habitats

Overnight Programs - Animal Helpers

Overnight Programs - Bugs

Overnight Programs - Cub Scout Pack Program

Overnight Programs - Fur, Feathers, and Ferns

Overnight Programs - Girl Scout Troop Program

Overnight Programs - Senses

School Programs - A Day in the Life

School Programs - Animal Wrappers

School Programs - Croft Middle Partnership

School Programs - Endangered Species

School Programs - Rosebank Elementary Partnership

School Programs - Sensational Animals

School Programs - Surviving the Wild

School Programs - The Rainforest

Scout Programs - 3 Cheers for Animals

Scout Programs - Animal Habitats

Scout Programs - Animal Helpers

Scout Programs - Bugs

Scout Programs - Cub Scout Pack Program

Scout Programs - Digging In The Past

Scout Programs - Girl Scout Troop Program

Scout Programs - Reptile and Amphibian Study

Tots Programs - All In The Family

Volunteer Programs - Docents

Volunteer Programs - Volunteer Corps

Volunteer Programs - ZooTeens

Field Conservation

American Association of Zoo Keepers (AAZK) - Bowling for Rhinos

Andean Bear Conservation Alliance

Association for the Conservation of Amazonian Biodiversity - Dallas World Aquarium Zoo (ACOBA-DWAZOO)

AZA SAFE - Vaquita Project

AZA Tiger SSP - Tiger Conservation Campaign

Bat Conservation International (BCI)

Belize Zoo and Tropical Education Center

Bongo Surveillance Project

Borneo Nature Foundation - Clouded Leopard, Leopard, Flat-Headed, and Marbled Cat

Cheetah Conservation Fund (CCF)

Clouded Leopard Project

Duke Lemur Center - Projects in the Sambava-Andapa-Vohemar-Antalaha (SAVA) Region of Madagascar

Garissa Giraffe Project

Giant Anteater Pilot Program in the Brazilian Pantanal

Gorilla Rehabilitation and Conservation Education (GRACE) Center

Hornbill Conservation: Borneo

Instituto de Pesquisas Ecológicas (IPÊ)

International Rhino Foundation

Lewa Wildlife Conservancy

Niassa Carnivore Project

Proyecto Tití

Red Panda Network (RPN)

Save Vietnam's Wildlife Centre

Sia Eagle Center

The Sustainable Management of the Critically Endangered Goliath Grouper (Epinephelus itajara) and Smalltooth Sawfish (Pristis pectinata) in Belize

Turtle Survival Alliance (TSA)

Wildlife Conservation Network (WCN) - Cheetah Conservation Project

Wildlife Conservation Network (WCN) - Spectacled Bear Conservation

Wildlife Conservation Network (WCN) -Okapi Conservation Project

Green Practices

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Procured Local Food for On-Site Animals and/or Guest

RIPLEY'S AQUARIUM OF THE SMOKIES

Field Conservation

Apex Predator Tagging Study

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Generated Solar or Wind Energy

Smart Building Strategies

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WATER

Documented Amount Spent

Documented Amount Used

Research

Bamboo Shark Reproduction

Fungal Infections in Horseshoe Crabs (Limulus polyphemus)

Mycobacterial Infections in Seadragons

Pharmacokinetics of Cefovecinin Teleost, Elasmobranchs, and Invertebrates

Plasma Chemistry Database for Elasmobranchs

Reproduction Cycle and Gestation of the Spotted Eagle Ray

Reproduction of the Sand Tiger Shark in Captivity

Reproduction Patterns of Cownose Rays

Sea Turtle Reproductive Physiology

Seasonal Movement Patterns of Sand Tiger Sharks

Surgical Techniques in Cownose Rays and Southern Rays

TENNESSEE AQUARIUM

Field Conservation

Adopt-A-Stream

Alligator Snapping Turtle Monitoring

Constructing a Freshwater Conservation Institute and Field

Cumberland Darter Conservation Genetics

Endangered Fishes of the Upper Mobile Basin

Freshwater Information Network

Monitoring and Recovery of the Laurel Dace

Rearing Barrens Topminnows (Fundulus julisia) for

Conservation Purposes

Restoring Southern Appalachian Brook Trout

Ridges to Rivers

River Teachers

Serve and Protect - Supporting Sustainable Seafood

South Chickamauga Creek Assessment

Southeastern Freshwater Biodiversity Conservation Plan

Tennessee and Cumberland River Darter Conservation

Tennessee Lake Sturgeon Reintroduction Program

Green Practices

GREEN PRACTICES IMPLEMENTED

Community Supported Agriculture (CSA) Program for Staff

Composting (On-Site or Off-Site)

Denitrification Systems On Ground

Green IT

Research

Headwater Stream Community Ecology

Morphology and Hybridization in River Sturgeons

Turtle Morphology and Conservation

ZOO KNOXVILLE

Education

Animal/Biofact Chats

Animals in Action Show

Bedtime With the Beasts

Camp Wild

Exhibit Chats

Field Science Programs

Homeschool Days

Night Safaris

School Ambassador Animal Encounters

School Classroom Programs

School Tours

Scout Workshops

Teacher In-Service/Workshops

ZooCamp

ZOOMobile Outreach Classroom Programs

ZOOMobile Outreach Community Programs

ZOOMobile Outreach Display Program

Field Conservation

Appalachian Bear Rescue

Bog Turtle In-Situ Project

Center for Ecosystem Survival (SaveNature.Org) - Rainforest Conservation Parking Meter

Dian Fossey Gorilla Fund International

Game Rangers International - Elephant Orphanage Project and Kafue Conservation Project

Gorilla Rehabilitation and Conservation Education Center (GRACE)

Homopus Research Foundation

International Crane Foundation - Friends of Muraviovka Park

Mabula Ground Hornbill Project (MGHP)

Malaysian Conservation Alliance for Tigers (MYCAT)

Monarch Watch

Painted Dog Research Trust

Pan African Sanctuary Alliance (PASA)

Project Necturus

Radiated Tortoise SAFE

Red Wolf Coalition

Southern African Foundation for the Conservation of Coastal Birds (SANCCOB)

Tennessee Butterfly Monitoring Network

The Gibbon Rehabilitation Project

Tiger Conservation Campaign

Toucan Rescue Ranch

Turtle Conservancy - Ploughshare

Turtle Survival Alliance (TSA) - Madagascar Fund

VulPro

Wildlife Trafficking Alliance (USWTA)

World Parrot Trust (WPT)

Green Practices

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green IT

Wastewater Reduction

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Texas

ABILENE ZOOLOGICAL GARDENS

Education

Behind the Scenes

Birthday Parties

Camp Programs

DreamNight

Homeschool Classes

Junior Keeper

Kid's Night Out

Night Hike

Party for the Planet

Preschool Classes

School Group Classes

World Giraffe Day

Zoo to You

Field Conservation

African People and Wildlife Fund

Amphibian Ark

AZA Avian Scientific Advisory Group (ASAG)

AZA Conservation Grants Fund (CGF)

AZA Crocodilian Advisory Group (CAG)

AZA Tiger SSP - Tiger Conservation Campaign

Chaco Jaguar Project

Colobus Conservation, Ltd.

Friends of the Attwater's Prairie Chicken National Wildlife Refuge

Friends of the Laguna Atascosa National Wildlife Refuge

Giraffe Conservation Foundation (GCF)

International Crane Foundation (ICF)

International Rhino Foundation (IRF)

IUCN/SSC Conservation Planning Specialist Group (CPSG)

King Cobra Telemetry Project

Peregrine Fund

Proyecto Tití

Rattlesnake Preservation Trust

The Cougar Fund

Toucan Rescue Ranch

Turtle Survival Alliance (TSA)

Wild Animal Health Fund

Wild Neighbors Database

Wildtracks

World Parrot Trust

Zoo Conservation Outreach Group (ZCOG)

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

CALDWELL ZOO

Field Conservation

Attwater's Prairie Chicken Recovery Program

International Elephant Foundation (IEF) - Elephant Painting Sales

International Rhino Foundation (IRF) - Animal Painting Sales

Various Organizations - Animal Painting Sales

World Giraffe Day Event - Giraffe Conservation Foundation

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FUEL

Documented Amount Spent

Documented Amount Used

WATER

Documented Amount Spent

Documented Amount Used

Research

Comparison of Circulating Vitamin D in Captive North American and Free-Ranging South African Black Rhinoceros

Compilation and Review of Archival Elephant Postmortem

Determining Genetic Variability, Kinship, and Uniqueness in the North American Cheetah Population

Developing Genomic Tools for Elephant Conservation

Developing Genomic Tools for North American River Otter Population Management

Improvement of Diagnostic Methods of Round Cell Neoplasia in Psittacine Birds

TVMDL Avian Study - Hematology of Galliformes & Anseriformes

Validation of a Rhino Specific Ferritin Enzyme Immunoassay for the Black Rhino, White Rhino, and Indian Rhino and the Impact of Individual/Environmental Factors on Serum Ferritin Concentrations

CAMERON PARK ZOO

Field Conservation

Bornean Orangutan Release

Borneo Orangutan Survival Foundation (BOS) - Milk Drive

Cameron Park Zoo Amphibian Conservation Award

Status of Conservation of Crocodile Species in Cuba

Green Practices

ENERGY

Documented Amount Used

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Generated Solar or Wind Energy

Purchased Green Power or Renewable Energy Credits (RECs)

Stormwater Management Program

Wastewater Reduction Waterwise Landscaping

WATER

Documented Amount Used

Research

AZA Orangutan SSP - Sanctioned Tooth Emergence Project

Comparing Arm Vs. Finger Blood Pressure in Orangutans

Great Ape Cardio Health Workshop

Investigating the Composition of Milk of Apes

DALLAS ZOO

Education

Animal Adventures Outreach

Backstage Safari

Cheetah Encounter

Dallas Zoo Teen Science Cafe

Dallas Zoo Wild Earth Action Team

Dallas Zoo Wild Earth Weekends

Discovery House

Exploring

Family Campout

Family Conservation Club

Family Pop-Up

Family Zoo Adventures

Frog Club

Homeschool Day

Junior Rancher Adventure

Keeper Talks

Life On The Ranch

Lights Out Overnight

Love Birds and Wild Things

Nature Exchange

Nature Play

On-Site School Programs

Preschool Safari

Science Day

Sensory Friendly Day

Sleeping With the Fishes Overnight

Stroller Buddies

Summer Science Institute

Teacher Workshops

Trivia and Trails

Twilight Safari Night Hike

Wild About Art

Wild Adventures Camps

Wild Earth Preschool

Wild Encounters Stage

Wild F.U.N. (Families United in Nature)

Wild Gatherings

Wilds Of Africa Adventure Safari

Youth Volunteer Programs

Zoo Corps

Field Conservation

African Vulture Conservation Programme (VulPro)

American Association of Zoo Keepers (AAZK) - Bowling for

Rhinos

Amphibian Ark

AZA Ape TAG - Conservation Initiative

AZA SAFE - African Penguin

AZA SAFE - Founders Circle

AZA SAFE - Vultures

Brazos River Water Snake Population Monitoring

Cheetah Conservation Fund (CCF)

Dian Fossey Gorilla Fund International

Dusky Gopher Frog Recovery Plan

Earthwatch Institute

Gorilla Rehabilitation and Conservation Education (GRACE) Center

Horned Lizard Management Project

Houston Toad Recovery Plan

Humboldt Penguin Monitoring Status in Peru

International Elephant Foundation (IEF)

International Rhino Foundation (IRF)

International Wildlife Reintroduction Conference

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Jane Goodall Institute

Ngwenya Rhino Fund

Okapi Conservation Project

Rattlesnake Preservation Trust

Restoring Wildlife Habitat Across Texas: Forest Habitat Restoration

Restoring Wildlife Habitat Across Texas: Pollinator Habitat Restoration

Restoring Wildlife Habitat Across Texas: Waterways; Rivers, Creeks, and Coast Habitat Restoration

Sea Turtle, Inc.

Southern African Foundation for the Conservation of Coastal Birds (SANCCOB) - Penguin and Sea Bird Conservation

Tarangire Elephant Project (TEP)

Texan by Nature Summit

Turtle Survival Alliance (TSA)

Whooping Crane Recovery Program

Wild Earth Expeditions

Wild Earth Wristbands Project

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified Under ISO 14001

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Alternative Transportation Benefits for Staff

Alternative Transportation Discounts for Guests

Commingled Recycling

Completed Greenhouse Gas Inventory

Composting (On-Site or Off-Site)

Energy Submetering

Graywater Reuse and/or Rainwater Harvesting

Stormwater Management Program

Used Environmental Management System

Wastewater Reduction

Water Submetering

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

Research

AZA - Integration of Multi-Institutional Tumor Data in Exotic and Zoological Species for Characterization of Novel Cancer Models

AZA Great Apes SSPs - Great Ape Cardiac Project: Brain Natriuretic Peptide (BNP) in Great Apes

AZA Tiger SSP - The Prusten Project - Heard but Not Seen: Acoustic Monitoring of Wild Tiger Populations

Cats: Is Symmetric DiMethylArginine (SDMA) Testing a Valid Indicator of Kidney Function in Sumatran Tigers, Indochinese Tigers, or Cheetahs?

Chimps - Assessing Long-Term Stress in Great Apes: Allostatic Load in Chimpanzees and Bonobos

Comparative Morphological and Molecular Studies of **Mammal Brains**

Elephant Endotheliotropic Herpesvirus (EEHV) Consortium -EEHV Surveillance: Serum

Elephant Endotheliotropic Herpesvirus (EEHV) Consortium -EEHV Surveillance: Trunk Wash and Blood Samples

Elephant Endotheliotropic Herpesvirus (EEHV) Consortium - Elephant Endotheliotropic Herpesvirus (EEHV) Surveillance: Necropsy Tissue Collection

Elephant: Animal Wellness Assessment, Research, and Education (AWARE) Institute: Elephant Welfare Initiative

Elephant: Developing Genomic Tools for Elephant Conservation

Elephant: Paternity and Genetic Diversity of Imported African Elephant Founders

Great Ape Neuroscience Project

Meerkats: Genomic Investigation of Cardiomyopathy in Meerkats

Rat Snake: Population Dynamics of Urban Texas Rat Snakes (Elaphe obsoleta lindheimeri) at the Dallas Zoo

Reptile: Use of Fentanyl Transdermal Systems as Pain Management in a Black Mamba (Dendroaspis polylepis)

Reptiles: Coccidia (Apicomplexa) of Reptiles Utilizing Fecal Samples from Dallas Zoo Captives

EL PASO ZOO

Education

Animal Encounters

Animal Presentations

Behind the Scenes Tours

Bird Show

Birthday Party Animal Encounter

Classroom Programs

Meet the Keeper

Public Programs - Enrichment

Public Programs - Trainings

Scout Badge Program

Sleepovers

Field Conservation

American Association of Zoo Keepers (AAZK) - Rainforest Conservation Parking Meter

AZA Jaguar SSP

Black-Footed Ferret Monitoring

Bolson Tortoise Conservation Project

Burrowing Owl Conservation

Chihuahuan Desert Education Coalition Certified Habitat Program

El Paso County's Ascarate Park Project

Franklin Mountains State Park Wildlife Monitoring

Indonesia Species Conservation Program (ISCP)

Keystone Heritage Park

Lion Guardians - Kenyan Maasailand

Mexican Wolf Conservation

Orangutan Foundation International

Palm Oil Public Awareness Effort

Peninsular Pronghorn Conservation

Raptor Rehabilitation

Rio Bosque Wetlands Park Conservation Program

Save the Vaquita

Saving Asian Wild Horses

Second Chance Wildlife Rescue

Stickhouse Wildlife Sanctuary

Turtle Survival Alliance

World Wildlife Fund (WWF) - Flying Squad Project

Green Practices

ENERGY

Generated Renewable Energy On-Site

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified by the Green Restaurant Association

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Commingled Recycling

Composting (On-Site or Off-Site)

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Procured Local Food for On-Site Animals and/or Guest

Wastewater Reduction

Research

Endoscopic Sexing of Juvenile and Hatchling Bolson **Tortoises**

Inca Tern Kinship Study

Two-Toed Sloth Genetic Testing SSP Project

ELLEN TROUT ZOO

Field Conservation

AZA Conservation Grants Fund (CGF)

AZA Louisiana Pine Snake SSP - Conservation Initiative

Black Bear Task Force

Croc School Scholarship

CrocFest

Turtle Survival Alliance

Zoo Conservation Outreach Group (ZCOG)

FORT WORTH ZOO

Field Conservation

Arthur A. Seeligson Jr. Conservation Fund

Black-Capped Vireo Monitoring

Bonobo and Congo Biodiversity Initiative (BCBI)

Caribbean Wildlife Conservation

Chiricahua Leopard Frog Rescue and Reintroduction

Conservation of the Critically Endangered Anegada Iguana

Cryptobranchid Interest Group

Health Evaluation, Pathogen Screening, and Hematologic Values In Free Ranging Texas Horned Lizards (Phrynosoma cornutum)

High Andean Flamingo Project

Houston Toad Rescue and Reintroduction

International Elephant Foundation (IEF)

International Iguana Foundation (IIF) - Iguana Conservation

International Rhino Foundation (IRF) - Rhino Conservation

Jamaican Iguana Conservation and Reintroduction Project: Health Assessment

Jamaican Iguana Recovery Program

Louisiana Pine Snake SSP - Reintroduction

Monarch Watch

Mountain Bongo Project

Okapi Conservation Project

Panamanian Golden Frog Conservation and Education Outreach

Pecos Pupfish Rescue

Pollinator Habitat Restoration

Puerto Rican Crested Toad Reintroduction and Research

Puerto Rican Harlequin Butterfly Monitoring

Roatan Iguana Conservation Program

Spot-Tailed Earless Lizard Assurance Population and Research

Texas Freshwater Mussel Propagation and Research

Texas Horned Lizard Reintroduction

Texas Kangaroo Rat Reintroduction and Research

Turtle Survival Alliance (TSA) - Turtle and Tortoise Conservation

Virgin Islands Tree Boa Reintroduction and Research

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Research

A Living Collections Stewardship Initiative for Sustainability of Endangered Salamanders

Activity Budget for the Fort Worth Zoo Asian Elephants Before and After Introduction to a New Exhibit

Behavioral Monitoring of a Fort Worth Zoo Gorilla Troop

Behavioral Monitoring of a Male Mandrill at the Fort Worth Zoo

Linking In-Situ and Ex-Situ Populations of Threatened Amphibians: Using the Puerto Rican Crested Toad and Chiricahua Leopard Frog as a Model

Research Support - Research Committee Management and Service

Scales on Trails

FOSSIL RIM WILDLIFE CENTER

Field Conservation

Addax Antelope Assurance Population

Attwater's Prairie Chicken Database

Attwater's Prairie Chicken Recovery Program - Captive Breeding and Release

Dama Gazelle Conservation Assurance Population

Dama Gazelle Genetic Study

International Elephant Foundation (IEF) - Salary Administration

International Rhino Foundation (IRF)

Masked Bobwhite Quail Recovery Team Participation

Mexican Wolf Assurance Population

Red Wolf Assurance Population

Red Wolf Inflammatory Bowel Disease: Microbiome and Fecal Corticoid

Role of Diet in the Severity of Inflammatory Bowel Lesions in **Red Wolves**

Sahara Conservation Fund (SCF)

Scimitar-Horned Oryx Conservation Assurance Population

Source Population Alliance (SPA)

Southern Black Rhinoceros Conservation Assurance Population

Green Practices

FNFRGY

Documented Amount Spent

Documented Amount Used

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Green IT

Procured Local Food for On-Site Animals and/or Guest

Stormwater Management Program

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WATER

Documented Amount Spent

Research

Attwater's Prairie Chicken Fenbendazole Toxicity Study

Biomarkers of Gastrointestinal Disease in Cheetahs

Comparison of Butorphanol-Azaperone-Medetomidine (BAM) and Thiafentanil in Addax Antelope

Determining Sexual Maturity in Male Addax (Addax nasomaculatus) via Electroejaculation

GLADYS PORTER ZOO

Education

Birthday Safari

Off-Site Presentations

On-Site Presentations

Outreach Program

Starlight Safari

Students Teaching Students

Summer Safari

Teacher Workshops

Tours

Field Conservation

CrocFest

Giraffe Conservation Foundation (GCF)

Health Screening of Ocelots

International Iguana Foundation (IIF)

Kemp's Ridley Sea Turtle Recovery Program: Mexico/United

States

Pangolin Consortium

Sea Turtle, Inc.

Support for Conservation Planning Specialist Group

Green Practices

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Green IT

Green Purchasing Policy/Green Procurement

Wastewater Reduction

Waterwise Landscaping

HOUSTON AQUARIUM, INC.

Education

"Built for Survival" Animal Presentation Outreach

Animal Encounter

Animal Meet and Greet

Aquarium Adventure Exhibit Tours

Behind the Scenes Tour

Biologist Chat

Career Day

Classroom Programs

Community Outreach

Educator Open House

Endangered Species Day

Home School Day

Hospital Outreaches

Marine Biologist/Zoologist for a Day Programs

Party for the Planet

Private Interactive Diver Show

Sawfish Day

Scout Programs

Sea Safari Camp

Self-Guided Tours

Shark Weekend

Sloth Weekend

Stingray Reef

Tiger Chat

Tiger Weekend

Wild Dreams Overnight

Working on the Wild Side

World Oceans Day

World Rainforest Day

Field Conservation

American Association of Zoo Keepers (AAZK) - Bowling for Rhinos

Fins Attached

World Parrot Trust (WPT)

HOUSTON ZOO, INC.

Education

Adult Camp Zoofari

Adult Volunteer Story Tellers

Animal Encounters

Camp Zoofari - Summer Only

College-Aged Zoo Internship

Collegiate Conservation Program (CCP)

Educator Workshops Educators Night Out

Educators Open House Family Adventure Programs

Family Nature Club

Family Travel Program - Yellowstone National Park

Homeschool Programs Interpretive Programs

School Break Camp Zoofari

School Partnerships

Wild Together - Zoo Tour for Early On-Set Alzheimers

Zoo Crew - Teen Program (October - May)

Zoo Crew - Teen Summer Only Program

Zoo Overnights

Zoo Sprouts! - 18 Months to 23 Months With Favorite Adult

Zoo Sprouts! - 2-3 Year Olds With Favorite Adult

Zoo Sprouts! - 4-5 Year Olds and Their Favorite Adult

ZooMobile

Field Conservation

Alaotran Gentle Lemur (Hapalemur alaotrensis), Increased and Concerted Monitoring and Research Efforts for it's Conservation: A Unique Wetland Primate on the Brink of

Attwater's Prairie Chicken Recovery Program

AZA SAFE

Baird's Tapir Survival Initiative

Black Rhino - Namibia, Integrated Rural Development and Nature Conservation

Blue-Billed Curassow: Acoustic Monitoring and Camera Traps to Determine Landscape Connectivity

Bornean Elephant: Satellite Tracking and Social Behaviour in the Lower Kinabatangan Wildlife Sanctuary: Sabah, Malaysia

Chapman's Fringed Orchid

Conservation Centers for Species Survival (C2S2) - Cheetah

Conservation Heritage Turambe Rwanda

Conservation of the Painted Terrapin in Indonesia

Crab-Trap Clean Up

East Texas Black Bear Task Force

Eastern Ghats Wildlife Society

Ewaso Lions

Galápagos Education: Ecology Project International

Galápagos Tortoise Movement Ecology Project Giant Anteaters and Highways Program, Brazil

Giant Armadillo: Conservation and Ecology in the Brazilian

Pantanal Gorilla Doctors

Gorilla Rehabilitation and Conservation Education (GRACE) Center

Goualougo Triangle Ape Project (GTAP)

Groupe d'Étude et de Recherche sur les Primates de Madagascar (GERP)

Herpetofauna Survey of the Tillari Bioregion, Northern Western Ghats, India

Hirola Antelope

Hornbill Conservation, Sabah, Malaysia

Houston Toad Headstart and Recovery Program

Human-Wildlife Conflict Collaboration International Crane Foundation (ICF)

International Elephant Foundation (IEF)

International Rhino Foundation (IRF)

IUCN CPSG

Jane Goodall Institute

Kinabatangan Orangutan Conservation Project

Landscape Ecology and Behavioral Responses of the Sunda Pangolin (Manis javanica) to Habitat Fragmentation and Degradation in Sabah, Malaysia

Laos Elephant Conservation Center

Lion Guardians

Lion Landscapes

Lowland Tapirs as Landscape Detectives for the Atlantic Forest, Pantanal, and Cerrado

MarAlliance

Microcebus gerpi - Preliminary Assessment of the Distribution and Conservation Challenges of the Critically **Endangered Mouse Lemur**

Niassa Lion Project

Niassa Lion Project - Elephant-Beehive Fence

Ocelot - Friends of Laguna Atascosa National Wildlife Refuge

Okapi Conservation Project

Painted Dog Conservation (PDC)

Panama Amphibian Rescue and Conservation (PARC)

Pride Lion Conservation Alliance

Rattlesnake Preservation Trust

Ruaha Carnivore Project (RCP)

Rwanda Bat Conservation: Using Bat Ecosystem Services to Trigger Their Conservation

Saving Endangered Grey Crowned Cranes in Rwanda

Saving Vietnam's Wildlife: Pangolin and Small Carnivore Rescue, Rehabilitation, and Release

Sea Turtle Rescue and Rehabilitation in the Gulf of Mexico

Sea Turtles: Argentina

Tiger Conservation in the Endau-Rompin Landscape of Peninsular Malaysia

Wildlife Conservation Program - Staff Salaries

Green Practices

ENERGY

Documented Amount Used

Generated Renewable Energy On-Site

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent Documented Amount Used

GREEN CERTIFICATIONS

Certified by the Green Restaurant Association

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Alternative Transportation Discounts for Guests

Commingled Recycling

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Procured Local Food for On-Site Animals and/or Guest

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Used

Research

Behavior and Fecal Hormone Monitoring During Zoo Lights

Collaborative Research Project Investigating Elephant Endotheliotropic Herpesvirus (EEHV)

Comparison of Gastrointestinal Transit Times Using 3 Different Indigestible Materials in the Houston Toad (Bufo houstonensis)

Evaluation of Cell Preservatives on the Integrity of Avian Whole Blood Samples Over Time

Evaluation of Cell Preservatives on the Integrity of Galapagos Tortoise Whole Blood Samples Over Time

Sound Level Data Collection During Seasonal Special Events and Sound Level Impact on Zoo Collection

RAINFOREST & AQUARIUM AT MOODY GARDENS. INC.

Field Conservation

American Bird Conservancy

Avian Scientific Advisory Group

AZA Chelonian TAG

AZA Chinese Alligator SSP

AZA Giant Otter SSP

AZA Humboldt Penguin SSP

AZA Komodo Dragon SSP

AZA Ocelot SSP

AZA Panamanian Golden Frog SSP

AZA Rodriguez Bat SSP

Belize Botanic Garden

Environmental Advocacy

Galveston Chapter of American Association of Zoo Keepers

Galveston Island Nature Tourism Council - Local Nature **Tourism Support**

Giant Otter Conservation

Marine Mammal Stranding Rehab Support

Microplastics Study - Turtle Island Restoration Network

One World One Ocean

Sea Turtle Conservation - Galveston

SExual COral REproduction (SECORE)

Southern African Foundation for Conservation of Coastal Birds (SANCCOB)

Turtle Survival Alliance (TSA)

Green Practices

ENERGY

Documented Amount Spent Documented Amount Used

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Graywater Reuse and/or Rainwater Harvesting

Wastewater Reduction

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

SAN ANTONIO ZOOLOGICAL SOCIETY

Education

Community - Based Programs

Community Volunteers

Docent Station Encounters

Guest Encounters Butterflies

Guest Encounters Lory Landing

Guests Encounters Giraffes

Intern/Service Volunteer Training and Hours Served

Interpretation and Fieldwork (Teen)

Outreaches

Playleader Encounters

Real.Wild.Classrooms.

School Group Visits

Sleepovers

Staff Interpretation

Summer Camp

Volunteer Training (Adult)

Volunteer Training (Teen)

Zoo School

Field Conservation

AZA FrogWatch USA

AZA Komodo Dragon SSP

AZA Puerto Rican Crested Toad SSP - Captive Reproduction and Reintroduction of the Puerto Rican Crested Toad (Peltophryne lemur) Tadpoles

Bolson Tortoise Recovery Project

Cave Fauna Biodiversity

Cheetah Conservation Fund

Chilean Amphibian Conservation Center

Chinese Cave Fish Working Group

Conservation of the Georgia Blind Salamander and the Dougherty Plain Cave Crayfish

Conservation of the Reticulated Flatwoods Salamander (Ambystoma bishopi)

Deep-Pelagic Nekton Dynamics (DEEPEND)

Ducks Unlimited, Inc.

Habitat Restoration Around Bracken Bat Cave

International Rhino Foundation (IRF)

Japanese Giant Salamander Conservation

Kemp's Ridley Sea Turtle Project

Lone Star Rattlesnake Days

Mexican Blindcat Program

Monarch Butterfly Marking Project

Monarch Fest

Monarch Larval Monitoring Survey

Monarch Watch - Monarch Waystation Program

North American Freshwater Turtle Research Group (NAFTRG)

Population Ecology of the Grotto Salamander (Eurycea spelaea)

Primeval Flat-Footed Salamander Study

Project Selva (Peruvian Cooperative)

Rough Footed Mud Turtle Project

San Antonio Zoo Center for Conservation and Research

Texas Horned Lizard Reintroduction Project

The Ocean Project

Universidad Autónoma de Nuevo León - Alligator Lizard

Universidad Autónoma de Nuevo León - Captive Rattlesnake

Husbandry

Zoo Conservation Outreach Group (ZCOG)

Green Practices

ENERGY

Documented Amount Spent

Generated Renewable Energy On-Site

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Alternative Transportation Benefits for Staff

Commingled Recycling

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Energy Submetering

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Wastewater Reduction

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

WATER

Documented Amount Spent

Documented Amount Used

Research

Tamaulipan Rock Rattlesnake Telemetry Study in Nuevo León Mexico

SEA LIFE GRAPEVINE AQUARIUM

Education

Amazing Cephalopods

Behind the Scenes Tour

Birthday Parties

Claws Talk

Clownfish Talk

Clownfish/Jellyfish Talk

Marine Careers

Meet the Creatures - Storytime

Ocean Talk

Octopus Talk

Quiz Trail

Rainforest Talk

Ranger Mission Packs

Sea Turtle Talk

Seahorse Talk

Senses of the Sea

Shark School

Squid Dissection

Stingray Talk

Turtle Time

Young Environmentalist Program

Field Conservation

City of Grapevine

Lake Grapevine Beach Cleanup

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

One or More Buildings LEED-Certified by the US Green **Building Council**

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Denitrification Systems On Ground

Green IT

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

Research

Sea Life Sea Turtle Blood Study

SEAWORLD SAN ANTONIO

Field Conservation

Amazon River Dolphin Population Survey in the Lower Rio Negro

Big River Education and Leadership Initiatives

Engaging Urban Youth and Young Adults in Coastal Restoration Through Oyster Shell Recycling

Enhancing the Educational Capacity of the World's Largest Bat Cave

Foraging Ecology and Habitat Use of Cook Inlet Beluga Whales (Delphinapterus leucas)

Galveston Bay Foundation's Marine Debris Events and Abandoned Crab Trap Removal

Horniman Museum and Gardens

Increasing the Galapagos Penguin Population

Living Lands and Waters - Aquatic Debris Removal From America's Rivers

Pollinator Protectors

Restore America's Estuaries

Rewilding Project

SeaWorld San Antonio - Animal Rescue and Rehabilitation Program

Shark Habitat Use and Vulnerability in the Greater Caribbean

Texas Marine Mammal Stranding Network

Vancouver Aquarium Marine Science Centre - Mom, Can You Hear Me? Impacts of Underwater Noise on Mother-Calf Communication in Endangered Beluga Whales

TEXAS STATE AQUARIUM

Education

4D Theater

Animal Presentations/Encounters

Animal Science Exploration Program

Aquarium Biofact Carts

Aquarium Discovery Programs

AquaTeen Mentoring Program

Aquavision Distance Learning

Camp-Ins

Conservation Theme Days

Dream Nights

Exclusive Encounters

Exhibit Interpretation/Interactions

Homeschool

Outreach

Party for the Planet

Play to Learn

School Year Mini Camps

SeaCamp

Seafood Wars

Sensory Sensitive Sunday

Teacher Professional Development

Teen STEM Cafe

Volunteer Continuing Education Trainings

Wildlife Theater Shows

World Oceans Day

Field Conservation

Adopt-a-Beach

Aquarium Conservation Partnership (ACP)

WCCR - Monitoring the Heart of Texas Coastal Sportfisheries: Using Advanced Technologies to Understand Environmental Drivers of Fish Abundance and Productivity in Channel Passes

Wildlife Care, Conservation, and Research Fund -Documentation, Protection, and Tracking of Nesting Adult Green Sea Turtles in Texas to Aid With Management Efforts

Wildlife Care, Conservation, and Research Fund -Fibropapillomatosis in Kemp's Ridley Sea Turtles (Lepidochelys kempii)

Wildlife Care, Conservation, and Research Fund - Spatial Movements of Tagged Sharks in the Isla Mujeres Fishing Areas, Quintana Roo, Mexico

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FUEL

Documented Amount Spent

GREEN CERTIFICATIONS

Certified by the Green Restaurant Association

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Commingled Recycling

Community-Based Sustainability Projects

Green IT

Procured Local Food for On-Site Animals and/or Guest

Wastewater Reduction

Waterwise Landscaping

Research

Cetacean Welfare Study

THE DALLAS WORLD AQUARIUM

Education

Dallas World Aquarium Website

Earth Day Celebration

Exhibit Ambassadors

Exhibit Touchscreens

Field Guide

General Education Program

International Sawfish Day

Keeper Talks

Migratory Bird Day

Online and Offsite Lectures

Vaquita Awareness Day

World Oceans Day Celebration

Field Conservation

Amazon Rescue Center

Caribbean Manatee Conservation

Costa Rican Sloth Conservation

Harpy Eagle Conservation

Horned Guan Conservation

Iguana Specialist Group, IUCN/SSC

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Mexican Crocodilian Conservation

Orinoco Crocodile Conservation Project

Resplendent Quetzal Conservation

Turtle Survival Alliance (TSA)

Research

Advancing Conservation of the Amazonian Manatee, Trichechus inunguis, in Iquitos, Peru

Breeding Behavior, Propagation, and Management of the Ribbon Pipefish (Haliichthys taeniophorus)

Captive Husbandry and Breeding Behavior of the Leafy Seadragon (Phycodurus eques)

Development of an Intensive Aquaculture Program Within a Public Aquarium

Preserving the Orinoco Crocodile (Crocodylus intermedius) at the Dallas World Aquarium

Spawning Behavior and Early Development of the Flashlight Fish (Photoblepharon palpebratum)

Utah

TRACY AVIARY

Education

Book and Boots

Field Conservation

Alta Baseline Bird Monitoring

Alta Nest Box Monitoring Study

Assessing the Bird Community at Mill Creek Confluence Before and After Restoration

Baseline Bird Inventory in Liberty Park

Baseline Inventory - Regional Athletic Conference and Jordan River Golfcourse

Bird Monitoring at Herman Franks Park

Bird Monitoring at Salt Lake City's Water Reclamation Facility

Bird Monitoring Before and After Daylighting and Restoration of the Three Creeks Confluence

Bird Monitoring in Galena Soo'nkhanni

Bird Monitoring in the Big Bend Restoration Area

Bringing Lucy's Warblers Home: Discovering Nesting Needs and Preferences to Increase Nesting Opportunities

City Creek Citizen Science Project

Dark Skies Program

Great Green Macaw Conservation and Education

Great Salt Lake Partnership for Education and Longitudinal Investigation of American White Pelicans (PELI) Project

Guam Kingfisher Conservation

Monitoring Migratory Snowy Plovers (Charadrius nivosus) and Overwintering Shorebirds in Mexico

Movement of American White Pelicans in Northern Utah: Management Implications on Nesting and Foraging Grounds

Participation of Tracy Aviary Staff in Field Conservation **Projects**

Population Connectivity of Snowy Plovers (Charadrius nivosus nivosus) on the Southern Great Plains of Texas, New Mexico, and Oklahoma

Project Broadtail

Staff Field Conservation Grant: Alta Bird Monitoring Site Vegetation Surveys

Staff Field Conservation Grant: Nest Box Surveying and Banding of American Kestrels

Trumpeter Swan Society Oregon Restoration Project

Vegetation Structure and Insect Prey Availability in Sage-Grouse Brood-Rearing Habitat

Wildlife Rehabilitation Center of Northern Utah (WRCNU)

Green Practices

ENERGY

Documented Amount Used

Generated Renewable Energy On-Site

Purchased Renewable Energy

FUEL

Documented Amount Used

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Building Energy Management

Commingled Recycling

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Green Purchasing Policy/Green Procurement

Purchased Green Power or Renewable Energy Credits (RECs)

Smart Building Strategies

Stormwater Management Program

Wastewater Reduction

Water Submetering

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

WATER

Documented Amount Used

UTAH'S HOGLE ZOO

Field Conservation

Action for Cheetahs in Kenya

Advanced Detection and Deterrence of Polar Bears (Ursus maritimus)

American Association of Zoo Keepers (AAZK) - Bowling for Rhinos

AZA FrogWatch USA

Black-Footed Ferret Utah Reintroduction Program

Boreal Toad Conservation Program

Conservation Staff Labor

Giraffe Conservation Foundation (GCF)

Gorilla Rehabilitation and Conservation Education (GRACE)

Gorongosa Recovery Project

Grevy's Zebra Trust

HawkWatch International

International Elephant Foundation (IEF)

International Rhino Foundation (IRF)

Jordan River Restoration Project

Kinabatangan Orangutan Conservation Project

Lewa Wildlife Conservancy

Marine Mammal Center

Niassa Carnivore Project

Polar Bears International (PBI)

Radiated Tortoise Conservation Program

Red Panda Network

Sage Grouse Fenceline Collisions

Snow Leopard Trust (SLT)

Turtle Survival Alliance (TSA) - Radiated Tortoise

Conservation Program

Wild Aware Utah

Wildlife SOS

Wyoming Toad Recovery Program

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

Purchased Renewable Energy

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent Documented Amount Used

GREEN CERTIFICATIONS

Certified by the Green Restaurant Association

One or More Buildings LEED-Certified by the US Green **Building Council**

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Alternative Transportation Benefits for Staff

Carbon Offsets for Employee Travel

Commingled Recycling

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Energy Submetering

Green IT

Purchased Green Power or Renewable Energy Credits (RECs)

Stormwater Management Program

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent Documented Amount Used

Research

The Orang-utan Conservation Genetics Project

Virginia

MILL MOUNTAIN ZOO

Green Practices

GREEN PRACTICES IMPLEMENTED

Composting (On-Site or Off-Site)

Graywater Reuse and/or Rainwater Harvesting

Procured Local Food for On-Site Animals and/or Guest

VIRGINIA AQUARIUM & MARINE SCIENCE CENTER

Education

Access Aquarium

Behind-the-Scenes Experiences

Birthday Parties for Children

Communicating Ocean Science to Informal Audiences

(COSIA)

Docent - Continuing Education

Docent - Continuing Education Online Classes

Docent Introductory Training

Dolphin Watching Boat Trip

Ecotours

Gallery Programs

Halloween at the Aquarium

Here Be Dragons Member Events

Marsh Ambassadors

Mentoring Young Scientists

Mermaid Mondays

Ocean Collections Boat Trip

Overnights for Members and Family Audiences

Reflecting on Practice Informal Education Class

School Programs - On-Site

School Programs - Outreach

Scouts - Overnights

Sensible Seafood Fest

Sensible Seafood Presentations

Special Needs Under the Sea

Specialty Boat Trips

STEAM

Stranding Response Presentations

Stranding Response Team Outreach Visits

Stranding Response Team Trainings for Staff and Volunteers

Summer Camps

Teacher Trainings

Valentine's Dinner

Watts Conservation Lecture Series

Waves, Words, and Wonder

Whale Watching Boat Trips

Youth Conservation Series

Field Conservation

Aguarium Conservation Partnership (ACP)

AZA Conservation Grants Fund (CGF)

AZA FrogWatch USA

AZA Komodo Dragon SSP

AZA SAFE

Development of Mid-Atlantic Humpback Whale Catalog (MAHWC)

Gladys Porter Zoo - Support for Crocodile Conservation

Helping Hooked Turtles - Support for Hooked Sea Turtle Rehabilitation

IUCN/SSC Crocodile Specialist Group - Tomistoma Task Force

Kemp's Ridley Sea Turtle Population Recovery Project

Occurrence of Baleen Whales Along the Continental Shelf Region of the VACAPES OPAREA off Southern Virginia – Data Synthesis from Previous Projects

Pilot Study: Tagging Hauled-Out Juvenile Seals in Virginia

SAFE Sea Turtle Program

Sea Turtle Nest Monitoring in Virginia Beach, Virginia

Sea Turtle Tagging and Tracking in Chesapeake Bay and Coastal Ocean Waters of Virginia

Sea Turtles and Fishing Piers – Mitigating Hook and Line Interactions

SExual COral REproduction (SECORE)

Support for Post-Mortem Examination of Stranded Large Whales in Virginia

The Center for Conservation Biology - Osprey Banding and Tracking Project

The Hawk Conservancy Trust

The Ocean Project

Tracking Loggerhead Sea Turtle Yearlings

Turtle Survival Alliance (TSA)

Virginia Aquarium Research and Conservation Division Support

Virginia Coastal Zone Management Program Grant - Virginia Sea Turtle and Marine Mammal Stranding Network

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Energy Submetering

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Green IT

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Smart Building Strategies

Stormwater Management Program

Wastewater Reduction

Water Submetering

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Composted

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Research

Blubber Hormones: A Marker of Dolphin Health and Well-

Citizen Science Water Quality Monitoring Project

Monitoring Marine Debris in Virginia's Coastal Zone

VIRGINIA LIVING MUSEUM

Field Conservation

AZA FrogWatch USA

AZA Lined Seahorse SSP

AZA Red Wolf SSP

Bird Feeder Watch

Butterfly Count: North American Butterfly Association (NABA) - Annual Field Survey

Clean the Bay Day

Coastal Cleanup - Clean Virginia Waterways

James River Water Quality Testing

Journey North Tulip Test Garden Project

Monarch Butterfly Tagging Survey

Monofilament Recycling and Fishing Gear Recovery

Oyster Restoration

Project Clean Stream

Sea Grass Restoration (Seed Collection)

Sea Turtle Head Start Program

Turtle Census

Virginia Amphibian Monitoring Project (VAMP)

Green Practices

ENERGY

Documented Amount Used

Generated Renewable Energy On-Site

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Commingled Recycling

Community Solar Program

Composting (On-Site or Off-Site)

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Procured Local Food for On-Site Animals and/or Guest

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Composted

Documented Amount Recycled

WATER

Documented Amount Spent

Documented Amount Used

Research

An Ecological and Genetic Data Baseline for the Endangered Fijian Free-Tailed Bat (2018-2019)

Biological Survey of Tropical Dry Forests (TDF) in Vanua Levu

Butterfly Count

Invasive Turtle Species Census

VIRGINIA ZOOLOGICAL PARK

Education

Behind the Scenes Tours

Birthday Parties

Conservation Youth Team

Discovery Carts

Early Childhood Story Times Programs

Education Event Days (Zoo Wide)

Guided Tours

Outreach to Schools

Program Animal Pop-Ups

Safari Camps

School Discovery Programs

Snoozes

Twilight Programs

Zoo Live Stage

Zoo Tykes

Field Conservation

Action for Cheetahs in Kenya

Avian Scientific Advisory Group

AZA Conservation Grants Fund (CGF)

AZA SAFE - Cheetah

Cheetah Conservation Fund (CCF)

Chesapeake Bay Foundation

Lowland Tapir Conservation Initiative

Mabula Ground Hornbill Project (MGHP)

New Nature Foundation

Pride Lion Conservation Alliance

Turtle Survival Alliance (TSA) - Turtle Survival Center

Green Practices

ENERGY

Documented Amount Used

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Building Energy Management

Community-Based Sustainability Projects

Diverted or Recycled Construction Waste

Energy Submetering

Green Building Policy/Commitment

Green IT

Stormwater Management Program

Wastewater Reduction

Water Submetering

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Washington

NORTHWEST TREK WILDLIFE PARK

Education

Adventure Treks

Amphibian Workshops

Cheney Center

Conservation Awareness Program Carts

Core Area Contacts

Elk Bugling Tour

Keeper Adventure Tours

Photo Tours

Scout Days

Skype in the Classroom

Special Events

Tram Tours

Virtual Field Trips

Field Conservation

Bat Monitoring & White-Nose Syndrome Surveillance

Fisher Rehabilitation & Release Project

Grit City Carnivore Project

Mountain Goat Relocation

Pierce County Habitat Monitoring

Training and Use of Scat-Sniffing Dogs for Field Population Studies

Green Practices

ENERGY

Documented Amount Used

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Commingled Recycling

Composting (On-Site or Off-Site)

Stormwater Management Program

Waterwise Landscaping

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Used

POINT DEFIANCE ZOO & AQUARIUM

Education

Camp Adventures

Career Day

Career Discovery Programs

Community Science (Formerly Known as Citizen Science)

Home School and Special Program Requests

Internship

Junior Guides

Keeper Talks and Close Encounters

Programs for Young Children

Senior Guides

Snooze Overnights

Special Events

Summer Camp Assistants

Visitor Interpretive Programs

Wild Wonders Outdoor Theater

Wildlife Champions

Wildlife Scholars

Zoo Guides

Zoo to School

Zoo to You - Community Fee-Based

Field Conservation

A Restoration Initiative for the At-Risk Oregon Spotted Frog

Assessing Walrus Benthic Prey Base in Bristol Bay, Alaska

Bringing the Message Home: Billboards to Complete Anoa Outreach in Sulawesi, Indonesia

Connectivity and Spatial Ecology of Blacktip Sharks (Carcharhinus limbatus) in the Gulf of California

Critical Habitat, Stock Structure, Movement Ecology, and Population Connectivity of Scalloped Hammerhead Sharks (Sphyrna lewini) in the Central Pacific Ocean

Developing Conservation Response Units in Sumatra

Ecology and Conservation of the Carnivore Community in an Annamites Biodiversity Hotpot: Systematic Surveys in Bidoup National Park, Vietnam

Fisher Recovery in Washington State

Foraging Ecology of Northern Sea Otters in Washington State

Hawai'i Wildlife Fund Hawksbill Recovery Project

Home Range Stability and Territorial Dynamics of the Sunda Clouded Leopard (Neofelis diardii) in a Fragmented and Landscape-Converted Habitat

Khao Kheow Zoo - Clouded Leopard Breeding

Project Seahorse

Red Wolf Zoo-Based Breeding and Recovery

Rockfish Surveys Documenting Shifting Ecosystems

Shark Tagging in the Revillagigedo Islands

Spatial Ecology of an Eastern Pacific Green Turtle (Chelonia mydas agassizii) Nesting Population in Michoacán, México: a Study Through Stable Isotope Analysis and Biotelemetry

The Bornean Carnivore Programme: Improving Understanding of Population Connectivity and Ecological Needs of Sunda Clouded Leopards and Sympatric Threatened Carnivores in Sabah

The Effects of Anthropogenic Activities on Carnivores in Malaysian Borneo

Tiger Conservation in the Greater Leuser Landscape and the Greater Bukit Baresan Selatan Landscape of Sumatra

Green Practices

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Community-Based Sustainability Projects

Completed Greenhouse Gas Inventory

Composting (On-Site or Off-Site)

Energy Submetering

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Purchased Green Power or Renewable Energy Credits (RECs)

Water Submetering

Waterwise Landscaping

Research

CT Anatomy and Histopathology of Gas Bubble Disease in Rockfish

Determination of Baseline Hematologic, Serum Biochemical, and Heavy Metal Values in Captive Japanese Spider Crabs (Macrocheira kaempferi)

Development of Non-Surgical Artificial Insemination for the Genetic Management of Tigers

Efficacy and Reversal of Suprelorin® (Deslorelin) in the Clouded Leopard (Neofelis nebulosa)

Endocrine and Behavioral Parameters of Reproduction in Pacific Walrus

Red Wolf Sperm Cryopreservation, Capacitation, and Culture

Rockfish Surveys Documenting Shifting Ecosystems

Sea Ice Ecology Project - Using GPS Ear Tags to Track Male and Subadult Polar Bears in Western Hudson Bay

Whisker Growth Dynamics in Pacific Walruses (Odobenus rosmarus divergens) Under Human Care

SEATTLE AQUARIUM

Education

Beach Naturalist

Cedar River Salmon Journey

Citizen Science

Connections Program

Deaf Community Day

DreamNight

Early Childhood Outreach

Lightning Talks

Salmon Homecoming

Seattle Aquarium Open House

Self-Guided Tours

Summer Camps

Teacher Workshops

Toddler Time

Field Conservation

Beach Naturalist Program

Cedar River Naturalist Program

Evaluating Empathy for Wildlife

Exploring Audience Perceptions of Terminology

Fostering Empathy for Animals: A Review of the Literature

Hawaii Reef Fish Diversity and Abundance

Northern Sea Otter Activity Budgets of Foraging Data

Olympic Sculpture Park Intertidal Monitoring

Rehabilitated Sea Turtle Satellite Tracking

Salish Sea Rockfish Diversity and Abundance Surveys

Sea Otter Population Genetics

Sixgill Shark (Hexanchus griseus) Diver Sighting Database

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Building Energy Management

Commingled Recycling

Community Solar Program

Community-Based Sustainability Projects

Completed Greenhouse Gas Inventory

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Generated Solar or Wind Energy

Green Building Policy/Commitment

Green IT

Procured Local Food for On-Site Animals and/or Guest

Purchased Carbon Offset(s) for On-Site Utility Use

Smart Building Strategies

Used Enterprise (IT) Solutions to Track and Measure

Sustainability Performance

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Research

Alcid Feather Endocrinology

Cow Shark Conservation Genetics

Grey and Blue Whale Fecal Hormones

Hawaii Reef Survey Data Analysis

Mentoring of Graduate Students

Microplastic Monitoring

Noninvasive Techniques to Monitor Reproductive Hormones of Captive Pacific Harbor Seals (Phoca vitulina richardii)

Northern River Otter Toxicology

Ocean Acidification Monitoring and Equipment Testing

Rockfish Survey Data Analysis

Sea Otter Conservation Endocrinology

Sea Otter Toxicology

Sixgill Abundance

Support of Outside Research Projects

WOODLAND PARK ZOO

Education

Ambassador Animal Outreach

Animal Stage Programs

Docent Program - Toolboxes and Rambles

Docent Programs - Animal Encounters

Docent Programs - Conservation Connections

Interpretive Engagements

Public Programs - Wildlights

Seattle Youth Climate Action Network

Senior Programs

Zoo Corps

Zoomazium - Visitation/Interactive Play

Zoomazium Programs

Field Conservation

Amphibian Monitoring

Asian Elephant Support (AES)

AZA Conservation Grants Fund (CGF)

Blue-Crowned Laughingthrush Annual Population Census

Center for Conservation of the Humboldt Penguins in Punta San Juan, Peru

Cheetah Conservation Fund (CCF)

Citizen Science Habitat Restoration

Evergreen Carbon Capture Program

Field Conservation Grant Management

Green Seattle

Hornbill Research Foundation (HRF) - Nest Adoptions in

HUTAN-Kinabatangan Orang-Utan Conservation Project -**Elephant Conservation**

International Rhino Foundation

International Veterinary Care, Inc.

Lewa Wildlife Conservancy

Licton Springs Conservation and Restoration Project

Mbeli Bai Study (MBS)

Mountain Goat Capture and Translocation

Muraviovka Park for Sustainable Land Use

Orangutan Habitat Protection and Patrolling in Gunung Palung National Park

Panthera - Malayan Tiger Project

Partula Snail Recovery and Reintroduction Project

Partulid Global Species Management Programme

Progressive Animal Welfare Society

Proyecto Taguá

Raptor Ecology of the Shrub-Steppe

River Otters of Western Washington: Sentinels of Ecological Health

Ruaha Carnivore Project (RCP)

Salmon Egg Confiscation

Saving the Asian Oryx

Seattle Urban Carnivore Project

Silverspot Butterfly Conservation Project

Snow Leopard Trust (SLT)

Tarangire Ecosystem Project - Tarangire National Park

Tree Kangaroo Conservation Program

Washington Department of Fish and Wildlife - Duck Research

Washington Urban-Wildland Carnivore Project

Western Pond Turtle Recovery Project

Western Wildlife Outreach

Wild Wise: Coexisting With Carnivores

Woodland Park Zoo Conservation Advocacy and Action Campaigns

Woodland Park Zoo's Northwest Carnivore Project

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

One or More Buildings LEED-Certified by the US Green **Building Council**

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Alternative Transportation Benefits for Staff

Alternative Transportation Discounts for Guests

Building Energy Management

Carbon Offsets for Employee Travel

Commingled Recycling

Community Solar Program

Community Supported Agriculture (CSA) Program for Staff

Community-Based Sustainability Projects

Completed Greenhouse Gas Inventory

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Energy Submetering

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Green IT

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Purchased Carbon Offset(s) for On-Site Utility Use

Smart Building Strategies

Stormwater Management Program

Used Enterprise (IT) Solutions to Track and Measure Sustainability Performance

Wastewater Reduction

Water Submetering

Waterwise Landscaping

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Research

Captive Orangutan Dentition Emergence Compilation Project

Correlations of Behavior Between Matschie's Tree Kangaroo in Papua New Guinea and Captive Tree Kangaroos in Woodland Park Zoo

Determination of Important Causes of Morbidity and Mortality in Captive Psittacine Birds Submitted to the Ontario Veterinary College Teaching Hospital With **Development of Specific Diagnostic Tests**

Developing Genomic Tools for North American River Otter (Lontra canadensis) Population Management

Development of a Genome Resource Bank and Transcervical Insemination for Genetic Management of Tigers

Developmental Milestones and Mother/Young Interactions in Captive Matschie's Tree Kangaroo at Woodland Park Zoo

Evaluating Welfare Effects of Giraffe Translocation

Genomic Investigation of Cardiomyopathy in Meerkats

Great Ape Neuroscience Project

Ovarian Function in Captive Female Orangutans

Retrospective Review of Giraffe Neoplasia Medical Records

Sex Chromosome Evolution in Lizards With a Focus on the Chinese Crocodile Lizard (Shinisaurus crocodilurus)

Snow Leopard SSP Health Survey

Species and Sex Genetic Testing of Two-Toed Sloths (Choloepus spp.) in the SSP Programs

Tree Kangaroo Reproductive Tissue Study

Visitor Perceptions of Animal Welfare and Empathy for Zoo Animals

Western Pond Turtle and Ulcerative Shell Disease: Uncovering the Role of the Microbiome in Species Restoration

Washington D.C.

SMITHSONIAN NATIONAL ZOOLOGICAL PARK

Education

Cub Club: Fur, Feathers, & Scales

Cub Club: Growing Up Wild

Junior Zookeepers: If I Ran the Zoo

Junior Zookeepers: ZSI

Nature Exchange

President's Week Camp

Spring Camp

Stories & Stuffies

Stormwater Pollution Prevention

Thanksgiving Camp

Winter Camp

700Snooze

Field Conservation

Anesthesia Study Evaluating the Use of Etorphine and Azaperone Combination in Free-Ranging Warthogs (*Phacochoerus africanus*)

Assessing and Restoring Giant Panda Habitat in the Qinling Mountains

Assessing Spotted Turtle Distribution and Abundance in Virginia and the Eastern U.S.

Assessing the Conservation Status of Araucaria Forest in Brazil

Assessing the Genetic Structure of the Wood Turtle in the Northeast

Assessing Wood Turtle Distribution and Abundance in Virginia and the Northeast

Assessment of the Lowland Tapir (*Tapirus terrestris*)

Population and Habitat Use Within the Paraguayan Chaco

BiodiversiTREE

Biomedical Survey and Ecology of the Endangered Mountain Tapir

Borneo Mammals

Breeding Ecology and Population Status of the Island Scrub-Jay

Capybaras, Ticks, and Brazilian Spotted Fever: How Land Use Change Affects Disease Dynamics and Transmission Risks

Climate Change Impacts on Giant Pandas

Comparison Between Subcarapacial Sinus and Brachial Vein Phlebotomy Sites for Blood Collection in Free-Ranging Gopher Tortoises (*Polyphemus gopherus*)

Conservation of Dama Gazelle

Conservation of Dholes in Thailand

Conservation of Ostrich in Niger, Africa for Reintroduction

Conservation of Persian Onager

Conservation of Scimitar-Horned Oryx

Conservation Partnership for the Painted Bunting

Conserving Coral Reefs

Density Dependence During the Non-Breeding Season and the Regulation of Migratory Bird Populations

Determining the Distribution, Conservation Status, and Habitat Use of the Yucatan Box Turtle in Mexico

Disease Survey in Free-Ranging Warthogs (*Phacochoerus africanus*)

Domestic Animals in China Reserves

Ecological and Genomic Evaluation of the *Ex-Situ*Conservation and Reintroduction of the Orinoco Crocodile

(*Crocodylus intermedius*) in Venezuela

Effects of Climate and Biotic Factors on Abundance, Demography, and Behavior of Forest Birds

Elephant Collaring and Satellite Tracking in Myanmar

eMammal

Experience the Migration of Brown Pelicans of the Disappearing Islands of the Chesapeake Bay

ForestGEO Ecosystems & Climate Initiative

Full Life Cycle Vulnerability Assessments for the Birds of the Upper Midwest Great Lakes Region

Gabon Biodiversity Program

Genetic Foundations for the Conservation of the Margarita Capuchin (*Cebus/Sapajus apella margaritae*)

Giraffe Conservation Status and Ecology in Northern Kenya

Global Volume and Impact of Illegal Wildlife Trade

Habitat Selection of Ocelot in Disturbed Pantanal Habitat

Improving Elephant Endotheliotropic Herpesviruses (EEHV)
Diagnostic and Research Capacity in Southeast Asia With
a Series of Training Workshops

Influence of Human Development on Movement and Ecology of Top Predators in Brazil

Jaguar Workshop in Paraguay

Mammal Distributions Across Protected Areas in the Region

Managing Human-Elephant Conflict in Myanmar (Burma)

Migratory Connectivity of the Birds of North America

Modeling Nomadic and Migratory Movements of Endangered Mongolian Gazelles Using Satellite Tracking and Satellite **Estimates of Grassland Biomass**

Monitoring Freshwater Fish Diversity in Morona, Peru

Monitoring Large Mammals in the Lower Madre de Dios Corridor

Monitoring Snaring in the Gamba Area

Montana Grassland Ecology

Multitrophic Consequences of Novel Plant Assemblages in **Urban Ecosystem**

North American Songbird Initiative

North American Songbird Working Group (NASWG)

Panama Amphibian Rescue and Conservation (PARC)

Paraguay In-Situ and Ex-Situ Conservation of the Atlantic Forest

Pilot Frog Release Study in Panama

Population Ecology of Green Turtles (Chelonia mydas) in the Caribbean

Real-Time Anti-Poaching and Survival Monitoring for Reintroduced Scimitar-Horned Oryx in Chad

Recovery of the Endangered Black-Footed Ferret

Reintroduction of Przewalski's Horse in Xinjiang, China

Reintroduction of the Scimitar-Horned Oryx

Relationship Between Genetics, Stress, and Amyloid A (AA) Amyloidosis Prevalence in Cheetahs

Salamanders Response to Soil Freezing

Saola and Large Antlered Muntjac (LAM) Breeding/Rescue Center

Save the Golden Lion Tamarin

Smithsonian Institution Global Earth Observatory (SI-GEO) Large Forest Plot

Smithsonian Myanmar Initiative

Source-Sink Dynamics and Population Ecology of Wood Thrush

Supporting Integrated Protected Area Land and Seascape Management in Tanintharyi, Myanmar

Sustaining Reintroduced Przewalski's Horses in Hustai Nuru National Park

The Changing Landscapes Initiative

The Red Siskin Initiative (Spinus cucullatus): Mitigating Unsustainable Harvest of Red Siskins in the Wild

The Red Siskin Initiative (Spinus cucullatus): Field Ecology for Species Conservation

The Red Siskin Initiative (Spinus cucullatus): Halting and Reversing Habitat Degradation

The Red Siskin Initiative (Spinus cucullatus): Strategic Planning for Species Conservation

Theoretical and Empirical Foundations for the Use of Distribution and Functionality Indicators at Various Scales in the Assessment of the Risk of Ecosystem Collapse

Understanding the Biology and Ecology of Dholes in Thailand

Understanding the Factors Leading to Reticulated Giraffe

Understanding the Local and Landscape Predictors of Bird Diversity and Abundance in Agricultural Landscapes

Understanding Threats to Andean Flamingos in an Age of Rapid Change

Using Geographic Information Systems and Remote Sensing for Training Wildlife

ZooFari Direct Grant to Associação Mico Leão Dourado to Conserve Golden Lion Tamarin Habitat

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

Purchased Renewable Energy

FOOD

Sourced Local Food or Grew it On-Site

GREEN CERTIFICATIONS

One or More Buildings LEED-Certified by the US Green **Building Council**

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green IT

Smart Building Strategies

Stormwater Management Program

Wastewater Reduction

Water Submetering

Waterwise Landscaping

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Used

Research

- A Behavioral Study of Kori Bustards at the Smithsonian National Zoological Park
- A Review of Captive Breeding Options Being Considered by Parks Canada for Woodland Caribou (*Rangifer tarandus caribou*)
- Activity Budget, Weight Management, and Light Cycles of Captive Ruby-Throated Hummingbirds
- An Analysis of Behavioral Response by Cuban Crocodiles (*Crocodylus rhombifer*) to Hatchling Calls of Several Species
- An Interdisciplinary Approach (Endocrine and Behavioral) to Assess the Impact of Cub Separation and Adult Breeding Behavior in Andean Bears
- Anesthesia Induction and Maintenance in Adult Arapaima (*Arapaima gigas*)

Asian Water Dragon Parthenogenesis

Assessing New Options for Choice and Control With
Asia Trail's Sloth Bears Using Picture Recognition to
Communicate Preferences and Enhance Bear Management

Assessing the Function of Penile Spines in Felid Species

Assessing the Relative Impacts of Anthropogenic Causes of Direct Bird Mortality

Assessment and Monitoring of Marine Benthic Macrofauna in the Area of Influence of the Peru Liquefied Natural Gas (LNG) Marine Terminal

Assessment and Monitoring of Marine Fish Communities and Plankton in the Area of Influence of the Peru Liquefied Natural Gas (LNG) Marine Terminal

Assessment and Monitoring of Seabirds in the Area of
Influence of the Peru Liquefied Natural Gas (LNG) Marine
Terminal

Assessment of Stereotypical Pacing and Welfare in an Adult Male Sloth Bear

Behavioral Differences Between Songbirds Housed as Pairs Versus Those Housed in Mixed Species Exhibits

Behavioral Patterns During Giant Panda Estrus

Biomaterial Collection and Archiving in Support of Other Research Projects

Biomedical Survey in Giant Pandas

Black Rhinoceros Health and Nutrition

Blood Drained of Life: Convergent Evolution of Coagulopathic Animal and Bacterial Toxins

Captive Orangutan Dentition Emergence

Carbon Content in Agroforestry Soils

Characterizing the Microbial Content of Gorilla Milk

Clinical Challenge: Diagnosis of Coenurosis (*Taenia brauni*) and Cecolith in a Malagasy Giant Jumping Rat (*Hypogeomys antimena*)

Comparison of Guaifenesin, Ketamine, and Medetomidine Constant Rate Infusion With Isoflurane Gas for Anesthesia Maintenance in American Black Bears (*Ursus americanus*)

Comparison of Sampling Methods for Detection of EEHV

Comparison of Trunk Secretions and Oral Swabs for Detection of Elephant Endotheliotropic Herpesvirus (EEHV) in African Elephants

Confidence Judgments and Metacognition in Comparative and Developmental Perspective

Connectivity for Conservation: Understanding the Complex Patterns of Altitudinal and Intratropical Migration

Conservation of Przewalski's Horse

Creating Coral Nurseries in the Pacific

Cutaneous Lesions in Giraffe

Dermatitis and Rhinosinuitis Caused by Curvularia Species in a Chinese Goral (*Naemorhedus griseus*) Determining Genetic Relatedness and Genomic Factors Associated With Health, Welfare, and Reproduction in Asian and African Elephants Ex-Situ

Determining Genetic Variability, Kinship, and Uniqueness in the North American Cheetah Population

Developing Group Management Strategies and Systems for Sustainable Populations of All Species

Developing Sperm Capacitation Procedure for Wild Canids

Diagnosis and Treatment of Batrachochytrium dendrobatidis in Green Salamanders (Aneides aeneus) and Long-Tailed Salamanders (Eurycea longicauda)

Disseminated Ophidiomyces Ophiodiicola Infection in an Eastern Diamondback Rattlesnake (Crotalus adamanteus) Without the Presence of Skin Lesions

DNA Testing of Mob of Meerkats to Determine Relatedness and Parentage

Dominance Rank, Nutrition, and Sociality in Wild Female Eastern Chimpanzees (Pan troglodytes schweinfurthii)

Effects of a Recurring Late Night Event on the Behavior and Welfare of a Population of Zoo-Housed Gorillas

Emerging Diseases of Salamanders

Endocardiosis in Tetras

Endocrine Response Associated With Pair Bond Formation in Stanley Cranes

Endocrinology of Reproduction and Stress in the Giant Panda

Epidemiological Investigation of Ophidiomyces ophiodiicola Infection in Current and Historic Collections of Snakes at the National Zoological Park

Evaluating the Addition of Automatic Feeders on Asian Elephant (Elephas maximus) Behavior and Welfare

Evaluating Weight During Pregnancy

Evaluation of a Serum Neutralisation Test for Detection of Rift Valley Fever Antibodies in Suid Sera

Examination of Ovarian Stimulation Protocol and Semen Deposition Location to Increase Artificial Insemination Success in Felids

Extending the Fertility of Aging Female Cheetahs to Improve Population Genetic Health

Fission-Fusion Flock Dynamics and Space Use in Blue Jays

Forest Elephant Monitoring in Gamba, Gabon

Gastrointestinal Illness in Contract Works at a Poultry Processing Facility - Minnesota, 2016

Genetic and Health Evaluation of Asian Chelonians

Genomic Basis of Infertility in the Endangered Black-Footed Ferret

Genomics of Endangered Ungulates

Giant Panda Behavior Watch

Giant Panda Cub Development

Giant Panda Estrus Watch and Pregnancy/Birth Watch

Health Assessments of Zoo Asian and African Elephants in the US

Histologic Findings in Captive American Horseshoe Crabs

Identification of a Novel Highly Diverged Variant of EEHV1A in Lethal Cases of Hemorrhagic Disease from Borneo

Identifying Causes of Neonatal Mortality in African Painted Dogs

Identifying Causes of Poor Reproduction in Whooping Crane Maintained Ex-Situ

Identifying Migratory Connectivity of a Neotropical Migratory Bird Using New Technologies: Archival GPS Tags

Identifying Migratory Connectivity of Brown Pelicans Along the United States Atlantic Coast Using Satellite Tags

Immunoglobulins in Primate Milks

Impacts of Dam Removal on Dippers and River Otters

Influence of Environmental Factors on Red Panda Welfare

Influence of Gonadotropin Stimulation on Anti-Müllerian Hormone (AMH) Concentrations in Female Cheetahs

Influence of Herd Size and Animal Transfers in Shedding Frequency of Elephant Endotheliotropic Herpesvirus in Asian Elephants (Elephas maximus)

Integration of Multi-Institutional Tumor Data in Exotic and Zoological Species for Characterization of Novel Cancer Models

Introduction of Soliatry Male Lion-Tailed Macaque

Investigating Memory Processes in Great Apes: A Cross-Species Comparison

Investigating Serum and Synovial Fluid Inflammatory Markers in Healthy and Arthritic Asian and African Elephants

Investigating the Attribution of Perception in Orangutans and Gorillas

Investigating the Effect of Population Density and Provisioning on Stress Physiology in the Black-Crowned Night Heron Across Two Urban Zoos

Investigation of Soft Tissue Mineralization in Prehensile-Tailed Porcupines (Coendou prehensilis)

Investigation of Stress Hormones in Apteryx mantelli: Comparison of Ambassador Brown Kiwi With Those On and Off Display

Life-Cycle Population Modeling for Select Species

Linking Behavioral Traits to Crop Raiding Behavior In Semi-Captive Myanmar Timber Elephants (*Elephas maximus*)

Local Adaptation in Channel Island Song Sparrows

Longitudinal Changes in Milk Composition in Apes

Longitudinal Evaluation of Milk Composition in Lowland Gorilla

Long-Term Low Level Elephant Endotheliotropic Herpes Virus-1A Viremia in a Captive Asian Elephant Calf (Elephas maximus)

Mad Island Migration

Mammals in Shade Coffee Systems

Measurement of Lactate Levels Three Ways During Anesthesia of American Black Bears (*Ursus americanus*)

Migration in Green Darner Dragonflies

Migratory Connectivity and At-Sea Distribution of Bahamian Seabirds

Migratory Connectivity in the Ocean

Molecular Diagnostics Testing Capacity in Myanmar

Molecular Diagnostics Testing Capacity in Zambia

Monitoring of the Health Effects of Sugar Removal From the Diets of Selected Small Mammals

Natural Choice in Apes

Neighborhood Nestwatch

Nest Location Preferences in Zoo-Housed Orangutans

Nesting Behavior, Licker Plugging, and the Provision of Water Sounds in Zoo-Housed Orangutans

Oxytocin as a Measure of Social Bond and Welfare in Western Lowland Gorilla (Gorilla gorilla gorilla) in North America Zoos

Pilot Study Using Hydroacoustic Monitoring to Detect Fish Communication - "Eavesdropping on Amazonian Fish"

Rabi Forest Monitoring Plot

Ranking Trees as Insect Producers for Wood Warblers

Regurgitation and Reingestion in a California Sea Lion: Assessment and Intervention

Relationship Between Skin Microbiomes and Disease Outcomes

Retrospective Review of Anesthetic Protocols in Spectacled Bears, Sloth Bears, and Giant Pandas at the National Zoological Park

Retrospective Review of Snake Fungal Disease (Ophidiomyces ophiodiicola) at the Smithsonian's National Zoological Park (1983-2017)

Rhythm of Life

Sagari, Peru Pipeline Canopy Bridge Project

Sample Collection for Herpesvirus Prevalence in Elephants

Sea Lion Swim Study

Social Behavior and Innovation in a Mixed-Species Lemur **Exhibit**

Spatial Proximity and Use of Gestures in Zoo-Housed Great

Temperature Monitoring in Brown Kiwi

Terrestrial Connectivity of the Gamba Landscape

The Effect of Music on the Welfare of a Green Winged Macaw

The Effects of Carry-Over and Habitat on Gray Catbirds Across an Urbanization Gradient

The Effects of Transfer and Breeding Introductions on the Fishing Cat (Prionailurus viverrinus) - ACTH Challenge Addendum

The Energetic Cost of Motherhood in Bornean Orangutans

The Migratory Connectivity Project

The Orangutan Conservation Genetics Project

The Red Siskin Initiative (Spinus cucullatus): Evolutionary Perspectives for Pan-Situ Conservation

The Red Siskin Initiative (Spinus cucullatus): Ex-Situ Research in Support of *In-Situ* Fieldwork and Reintroduction

Tool Use Comprehension in Allen's Swamp Monkeys and Schmidt's Red-Tailed Monkeys

Tracking the Migrations of the Endangered Kirtland's Warbler

Treatment and Management of Chronic Recurrent Herpes Simplex 1 Infection in a White Faced Saki Monkey (Pithecia pithecia)

Understanding Basic Reproductive Biology and Welfare of Captive Asian Elephants in Burma for Management and Conservation

Understanding Basic Reproductive Biology and Welfare of Captive Asian Elephants in Thailand for Management and Conservation

Understanding Endocrine Control of Egg Production for Improved Reproductive Health of Cranes

Understanding How Hormones Modulate Behavioral Phenotype and Social Network Structure

Understanding Migratory Restlessness in a Captive Population of Songbirds

Understanding Stereotypic Behavior in a Female Asian Short-Clawed Otter

Understanding the Cause and Effect of Feather Plucking in a Blue Billed Curassow

Understanding the Hormonal Onset of Puberty in Male and Female Cheetahs (Acinonyx jubatus)

Understanding the Role of Endocrine Signals During Migratory Urge in Captive Songbirds

Understanding the Underlying Causes of Inflammatory Bowel Disease in Large Canids

Using Captive Gray Seal Fecal Samples to Assess and Analyze Prey Consumption in Wild Male and Female **Gray Seals**

Using Serum Inflammatory Markers to Investigate the Immune Response to Elephant Endotheliotropic Herpesvirus (EEHV)

Validating Fecal Hormone Assays to Assess Reproductive Status in Sloth Bears

Variation in Musth Among Asian Elephants (Elephas maximus): Applications

Viral Particle Isolation From Animal Tissues

Welfare Assessment of Stanley Cranes at the Smithsonian's National Zoological Park Through Fecal Glucocorticoid Analysis With a Special Emphasis on Program Animal, "Alice"

What Makes Ross's Gulls Pink?

Xanthoma Formation in Black Pacu (Colossoma macropomum)

West Virginia

OGLEBAY'S GOOD ZOO

Education

Fox Run Hospital Programs

Master Naturalist

Preschool Programs

Summer Camps

Zoo-To-You

Field Conservation

Captive-Rearing of Eastern Hellbenders Destined for Reintroduction

eDNA and Physical Surveys for Eastern Hellbender

Monarch Watch

Raptor Rehabilitation

Snow Leopard Trust Donation

Snow Leopard Trust Encounter Donation

Surveillance for White-Nose Syndrome in West Virginia

Wisconsin

HENRY VILAS ZOO

Education

Biofact Carts and Interactive Kits Program (Discovery Docents)

Bleacher Program (Live Animal Onsite Presentations)

Conservation Education Awareness Days (Throughout the Year)

Meet & Greet (Interaction With Animal Handler and Education Animal)

Preschool Pride (Expanded From Previous Zoo School Summer Program)

Sleepover

Spring Break Vacation Camp

Winter Vacation Camp

Zoo Camp (Summer Camp)

Zoo-To-You Program (Live Animal Outreach Into the Community)

Field Conservation

AZA African Penguin SSP - Sea Research Foundation

AZA Orangutan SSP - Field Conservation Program

AZA Orangutan SSP - Field Conservation Support

AZA Tiger SSP - Tiger Conservation Campaign

Deputy Director Sea Turtle Nest Monitoring in Florida

Giraffe Conservation Foundation (GCF)

Monarch Watch

Polar Bears International (PBI)

Red Panda Network (RPN)

Ruaha Carnivore Project (RCP)

Southern African Foundation for the Conservation of Coastal Birds (SANCCOB)

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

FUEL

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Alternative Transportation Discounts for Guests

Commingled Recycling

Community Supported Agriculture (CSA) Program for Staff

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Energy Submetering

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Procured Local Food for On-Site Animals and/or Guest

Stormwater Management Program

Wastewater Reduction

Water Submetering

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

Research

Genetic Assessment of Sex and Species in Two-Toed Sloths in AZA Zoos

Sloths as Sentinels of Ecosystem Health: Evaluation of Free-Ranging Sloth Serum for Commonly Applied Agricultural Pesticides in Costa Rica

INTERNATIONAL CRANE FOUNDATION

Education

Adopt-a-Crane Program

Annual Midwest Crane Count

Crane Conservation Education Activity Packets

Estuaries in the Balance: The Texas Coastal Bend

Whooping Crane Education Trunk

Whooping Crane Timeline

Field Conservation

Black-Necked Crane China Project

Eastern Migratory Whooping Crane Reintroduction

Red-Crowned Crane: China Flyway Project

Red-Crowned Crane: Russia Amur Lowlands Project

(Muraviovka Project)

Sarus Crane: Cambodia Project

Sarus Crane: Myanmar Project

Sarus Crane: Vietnam Project

Siberian Crane: China Staging - Stopover Area Project

Siberian Crane: Wintering Area Project - Poyang Lake Project

South Korea Crane Project

White-Naped Crane: Western Flyway Project in Mongolia

Whooping Crane Central Flyway Project: Aransas Wood Buffalo Population Breeding and Migratory Stopover Areas

Whooping Crane: Texas Wintering Area Project

Green Practices

ENERGY

Generated Renewable Energy On-Site

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Commingled Recycling

Community Supported Agriculture (CSA) Program for Staff

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy/Commitment

Green IT

Stormwater Management Program

WATER

Documented Amount Used

Research

Are There Emerging Health Concerns for Eastern Migratory Whooping Cranes?

Assessment of the Impact to Cranes From a Newly Constructed Transmission Line

Attitudes, Knowledge, and Beliefs About Whooping Cranes

Biomonitoring of Whooping Cranes in the Central Flyway

Blue Cranes in South Africa: Safe or a Ticking Time Bomb

Bridging the Gap for South African Wattled Crane: Population Health and Biology as it Relates to Captivity and Release

Climate Change Vulnerability Assessment for Three Important Wetlands in the Mekong River Delta

Collaborative Telemetry Egg Incubation Parameter Study

Comparison of Sandhill and Whooping Crane Breeding Success in Wisconsin

Conservation of Black-Necked Cranes on the Western Plateau in China

Crane Semen Cryopreservation Study

Detection and Management of Mild Hyperparathyroidism in Juvenile Whooping Cranes (Grus americana)

Evaluation of Nocturnal Roost Sites Used by Whooping Cranes on the Texas Coast, United States

Fecal Corticosterone and Potential Chronic Stress in Captive Whooping Cranes

Field Support for Research Related to the Central Flyway Population of Whooping Cranes

Glitchin River Watershed Project

Improving Nutrition and Outcomes of Displaced Rwandan **Grey Crowned Cranes**

Increasing Crane Sperm Cryosurvival by Altering Liquid Composition of the Plasma Membrane

Local and Landscape Scale Habitat Characteristics of Areas Used by Whooping Cranes During Winter to Understand What Drives Habitat Selection at Multiple Spatial Scales

Long-Term Monitoring of Wintering Whooping Cranes in Coastal Texas, USA

Monitoring Corticosterone of Wintering Whooping Cranes

Muraviovka Park Bird Project

Non-Invasive Biomonitoring of Contaminants in the **Endangered White-Naped Crane**

Sandhill Crane Long Term Research

The Effect of Hand Rearing on the Gut Microbial Communities and Host Physiology of Whooping Cranes

Tissue Effects of Leg-Mounted Telemetry Devices in Whooping Cranes

Waters for Wildlife: Monitoring the Use of Freshwater Ponds by Wintering Whooping Cranes on Private Lands

Whooping Crane Eastern Partnership: Reintroduction

Wintering Population Monitoring and Conservation of Siberian Cranes at Poyang Lake

MILWAUKEE COUNTY ZOOLOGICAL GARDENS

Education

Adult Lecture

Alive Magazine

Animal Ambassador Programs

Animal Connections Continuum

Animal Encounter

Animals in Action Talks

Behind the Scenes Weekend

Big Brothers Big Sisters Classes

Big Cat Conservation Day

Bonobo and Congo Biodiversity Initiative - Adult Literacy Classes

Bonobo and Congo Biodiversity Initiative - Primary School Support

Cow Milking Demonstration

Early Childhood Teacher Workshops

Endangered Species/S.A.F.E. Day

Family Farm Weekend

Giraffe Feedings

Kids Conservation Club

Kohl's Wild Theater - All Programming

Mother's Day - Project M.O.M.

MPS Extended Learning

Nature Play

Oceans of Fun Seal and Sea Lion Show

Party for the Planet

School Enrichment Programs

Summer Camps

Public Feedings

Summer Camps for Community Centers

Wild Things Newsletter

World Bird Sanctuary Birds of Prey Show

World Elephant Day World Giraffe Day World Penguin Day

Zoo Classes

Zoo Pride - Animal in Action Talks

Zoo Pride - Behind the Scenes Tours

Zoo Pride - Continuing Education Training

Zoo Pride - Remains to Be Seen Carts

Zoo Pride - Sensory Safari Zoo Pride - Speakers' Bureau

Zoo Pride - Walk on the Wild Side Tours

ZOOMobile Tour

Field Conservation

American Association of Zoo Veterinarians (AAZV) - Wild Animal Health Fund

AZA Ape TAG - Conservation Initiative

AZA Avian Scientific Advisory Group (ASAG)

AZA Guam Kingfisher SSP

AZA Panamanian Golden Frog SSP

AZA Penguin TAG

AZA SAFE

AZA Tiger SSP - Tiger Conservation Campaign - Amur Tiger

Bat Conservation International (BCI)

Berggorilla and Regenwald Direkthilfe Gorilla Project

Bonobo and Congo Biodiversity Initiative (BCBI)

Cheetah Conservation Botswana

Cheetah Conservation Fund

Elephants for Africa

Florida Reef Tract Rescue Project

Giraffe Conservation Foundation (GCF)

Grand Cayman Blue Iguana Recovery Program

Great Apes Survival Partnership (GRASP) - Funding

Humboldt Penguin Guano Harvest Monitoring

Humboldt Penguin PHVA

IBF: Bongo Repatriation

International Elephant Foundation (IEF)

International Rhino Foundation (IRF)

IUCN/SSC (Species Survival Commission)

IUCN/SSC Conservation Planning Specialist Group (CPSG)

IUCN/SSC Tapir Specialist Group

Jamaican Iguana Conservation Project

Kibale National Park - Fuel Wood Project

Lola Ya Bonobo

Mabula Ground Hornbill Project (MGHP)

Madagascar Fauna and Flora Group (MFG)

Migratory and Resident Avifauna Study

Ocean Spirits Sea Turtle Research

Orangutan Outreach

Polar Bears International (PBI)

Proyecto Tití

Puerto Rico Crested Toad Recovery Program

Red Panda Network - Forest Guardian Program

Red-Necked Ostrich Conservation Support

Ruaha Carnivore Project

Salonga National Park Bonobo Project

Sloth Conservation Foundation (SloCo)

Snow Leopard Trust (SLT)

The Trumpeter Swan Society (TTSS)

Trees for You and Me - AAZK and PBI

Turtle Survival Alliance (TSA)

Whooping Crane Recovery Project

Wild Camel Protection Foundation (WCPF)

Wisconsin Bureau of Endangered Resources Herp Fund

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Alternative Transportation Benefits for Staff

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Energy Submetering

Generated Solar or Wind Energy

Graywater Reuse and/or Rainwater Harvesting

Green IT

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Smart Building Strategies

Stormwater Management Program

Wastewater Reduction

Waterwise Landscaping

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Research

Antemortem diagnosis and successful treatment of a complete molar pregnancy in a geriatric bonobo (Pan paniscus)

Bonobo Finger Blood Pressure Project

Cardiac Disease in Western Lowland Gorillas (Gorilla gorilla gorilla): Comparative Assessment of B-Type Naturiuretic Peptides From Urine, Capillary Serum, and Venous Serum Samples

Developing Genomic Tools for North American River Otter Population Management

Evolution of the Primate Gut Microbiota: A Comparative Analysis of the Hind Gut Microbiome in Captive and Free-Living Primates Using High Throughput 16S rDNA Sequencing

Exploring Physiological Correlates of Somatic Growth in Bonobos

Gastric Dilation and Enterotoxemia in Ten Captive Felids

Giraffe Conservation Demography Project: Heights

Interactive Technology Use With Captive Great Apes

Medical Records Review of Black-Footed Cats

Migratory Bird Banding and Monitoring

Prevalence of R/R and Coprophagy in Adult Gorillas

Red Panda Fecal Survey for Newly Discovered Amdoparvovirus

Retrospective Evaluation of Sedation in 16 Lizard Species With Dexmedetomidine-Midazolam With or Without Ketamine

Severe Neurologic Disease and Chick Mortality in Crested Screamers (Chauna torquata) Infected With a Novel Gyrovirus

Snow Leopard Population Health and Record Review

Species and Sex Genetic Testing of Two-Toed Sloths (Choloepus spp.) in the SSP Programs

Tool Use in Pan: Two Modalities, Two Species

Trumpeter Swan Genotyping to Determine Population of Origin

Use of ACE-Inhibitors in Gorillas - Examining a Possible Link to Hepatotoxicity

NORTHEASTERN WISCONSIN (NEW) ZOO & ADVENTURE PARK

Field Conservation

AZA Black-Footed Ferret SSP - Black-Footed Ferret Recovery Program With the United States Fish and Wildlife Service (USFWS)

AZA Red Wolf SSP

Bluebird Recovery Association of Wisconsin On Site Project

Giraffe Conservation Foundation (GFC)

Iowa Trumpeter Swan Restoration Program

Sturgeon Guard Wisconsin Department of Natural Resources (DNR) Program

Wisconsin DNR Elk Restoration Project

Green Practices

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Composting (On-Site or Off-Site)

Diverted or Recycled Construction Waste

Energy Submetering

Green Purchasing Policy/Green Procurement

Stormwater Management Program

Waterwise Landscaping

Research

Red Wolf IBD Study

RACINE ZOOLOGICAL GARDENS

Education

AZA FrogWatch USA

Behind the Scenes

Birthday Parties

Conservation Awareness Days

Conservation Education Programs

Conservation Nation

Keeper Chats

Li'l Explorers Preschool at the Zoo

Member Mondays

Slumber Safari

Summer Camp

Volunteen Program

Wildlife Explorers

Wildlife Theater

Field Conservation

American Association of Zoo Keepers (AAZK) - Milwaukee Chapter

AZA Eastern Massasauga Rattlesnake SSP - Mark-Recapture Study on a Michigan Population of Eastern Massasauga Rattlesnakes

International Tiger Day

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Sea Turtle Conservancy

Southern African Foundation for the Conservation of Coastal Birds (SANCCOB) - African Penguin Day

World Giraffe Day

World Rhino Day

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew it On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Community-Based Sustainability Projects

Green Purchasing Policy/Green Procurement

Procured Local Food for On-Site Animals and/or Guest

Wastewater Reduction

Waterwise Landscaping

PLANS, POLICIES, AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Plan

WASTE

Documented Amount Sent to Landfill

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

