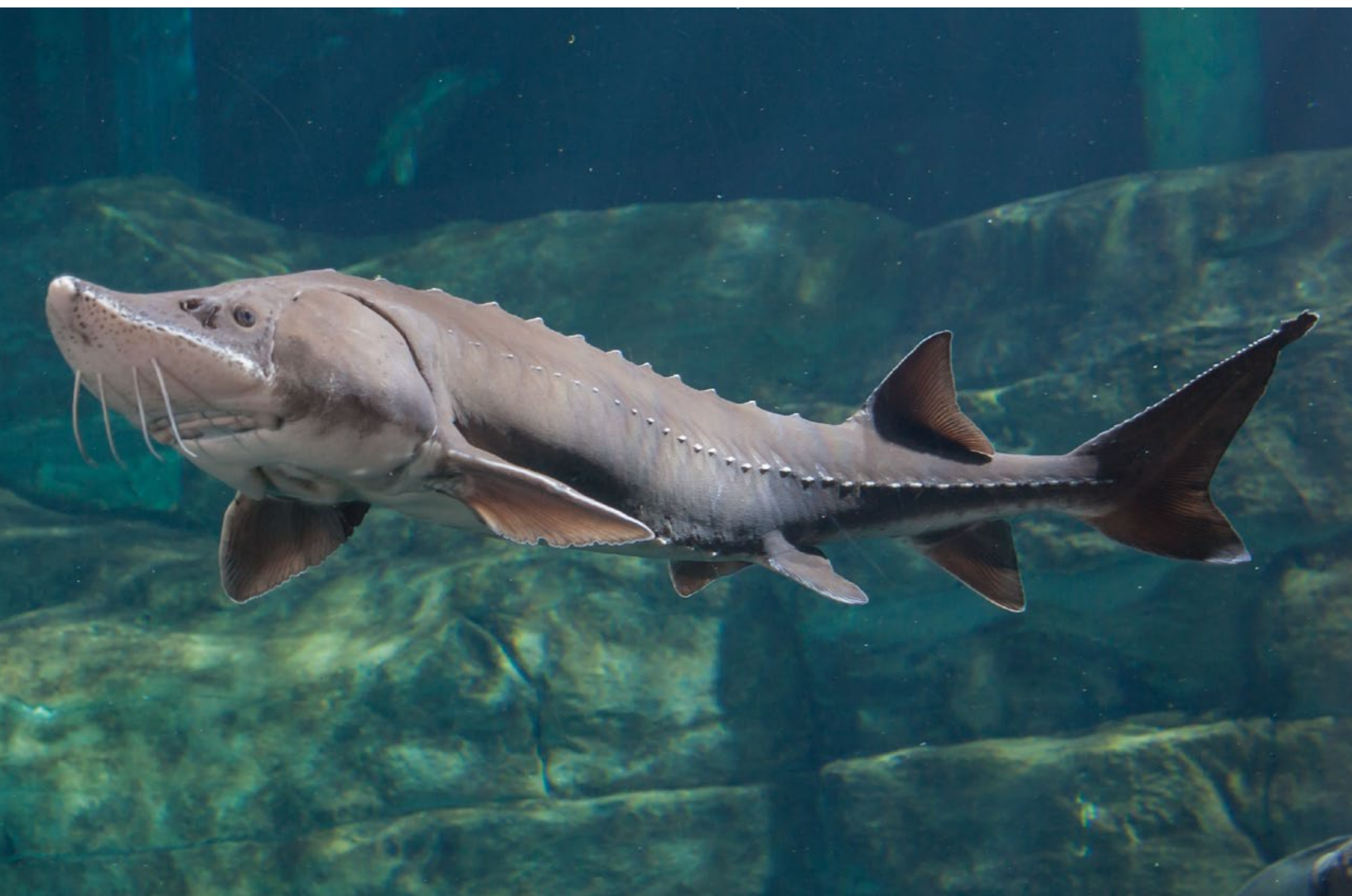


Annual Report on Conservation and Science



2017 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 2017 *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 conducted by AZA. Each survey topic has been carefully defined to maximize consistency of reporting throughout the AZA community. AZA's Field 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 2017 survey was as follows:

- » Field Conservation – 90%
- » Education Programs – 61%
- » Green Business Practices – 57%
- » Mission-Focused Research – 71%

While the 2017 ARCS focuses on individual activities undertaken that year, download the 2017 *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 Arslan Ahmad (Program Assistant, Conservation and Science), Haley Gordon (Program Assistant, Conservation and Science), Hana Johnstone (Intern, Conservation, Management and Welfare Sciences), Raven Spencer (Intern, Conservation, Management and Welfare Sciences) and Shelly Grow (Vice President, Conservation and Science).

INTERNATIONAL

Argentina

FUNDACIÓN TEMAİKËN

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

FOOD

Sourced Local Food or Grew It On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Community-Based Sustainability Projects

Composting On-Site or Off-Site

Greenhouse Gas (GHG) Inventory

Local Food Procurement for Animals and/or Guests

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

Bahamas

ATLANTIS, PARADISE ISLAND

Education Programs

Atlantis Stingray Experience

Caring for Atlantis' Marine Life

Discovery Tour

Dolphin Deep Water Swim

Dolphin Shallow Water Swim

Junior Ultimate Trainer for a Day

School Aquarium Outreach Program

Sea Lion Interaction

Sea Squirts

Snorkel the Ruins of Atlantis

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

Bermuda

BERMUDA AQUARIUM, MUSEUM AND ZOO

Education Programs

Bermuda Natural History Course
 Environmental Youth Conference
 Junior Volunteer Program
 Kids on the Reef
 Nonsuch Natural History Camp
 Schools Program
 Science Club
 Spring Camp
 Summer Aqua Camps
 Teacher Workshops
 WILD Encounters

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 Reef Ecology Assessment and Mapping (BREAM)
 Bermuda Turtle Project
 ReefWatch
Sargassum Community Studies

Mission-Focused Research

Humpback Whale Project

Canada

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
 Carbon Offset Purchase for On-Site Utility Use
 Commingled Recycling
 Community Solar Program
 Composting On-Site or Off-Site
 Construction Waste Diversion / Recycling
 Energy Submetering
 Green Building Policy / Commitment
 Green Purchasing Policy / Green Procurement
 Greenhouse Gas (GHG) Inventory
 Local Food Procurement for Animals and/or Guests
 Solar or Wind Energy Generation
 Water Submetering

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Mission-Focused 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 Bear Spray Performance Under Cold Temperatures

Beluga Bits

Exploring the Role of Nature-Based Tourism Experiences and Learning at an *In-Situ* and *Ex-Situ* Destination

Fecal Glucocorticoid Metabolite Concentrations in Orphaned Polar Bear “Cubs of the Year” Brought Into Captivity From Northern Manitoba to Assiniboine Park Zoo Through the Leatherdale International Polar Bear Conservation Centre (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

Learning and Hunting Success During Live Prey Training in Wild Burrowing Owls in the Manitoba Burrowing Owl Recovery Program

Multiple Richardson’s Ground Squirrels

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 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

The Prusten Project

Water Usage of Polar Bears at Assiniboine Park Zoo (APZ)

Whiskerprints

CALGARY ZOO**Education Programs**

Adult Nights

Birthday Parties

Conservation Action Programming

Corporate Teambuilders

Distance Learning

Family BBQ Shows and Christmas Shows

In the Heat of the Night – Valentine’s Day Program

Land of Lemurs Interpretive Programming

Penguin Plunge Interpretive Programming

Penguin Walk

School Programs

Self-Guided Backpack Tour

Sleepovers

Summer Camps

Teacher Workshops

Year Round Value Added Interpretive Programming – Zoo-Wide

Zoo School

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

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

Documented Square Footage of Conditioned Space

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 Leaders in Environmentally Accountable Foodservice (LEAF)

Certified by the Green Restaurant Association

Documented Square Footage of Facility With Green Building Certification

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

Partner Organization for Ocean Wise

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Alternative Transportation Discounts for Guests

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Composting On-Site or Off-Site

Construction Waste Diversion / Recycling

Denitrification Systems

Energy Submetering

Graywater Reuse and/or Rainwater Harvesting

Green Purchasing Policy / Green Procurement

Greenhouse Gas (GHG) Inventory

Local Food Procurement for Animals and/or Guests

Purchasing Green Power or Renewable Energy Credits (RECs)

Smart Buildings Systems

Solar or Wind Energy Generation

Stormwater Management Program

Wastewater Reduction

Water Submetering

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

Documented Amount Spent on Landfill Waste

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Advancing the Science of Conservation Translocations

Evaluating Community Conservation Success

Role of Sacred Sites in the Creation of Protected Areas

Vancouver Island Marmot Anti-Predator Behaviour Research

RIPLEY'S AQUARIUM OF CANADA

Education Programs

Aquarist for a Day
 Aquatic Adventurers
 Behind the Scenes Tours
 Discovery Dive
 Dive Show – Rainbow Reef
 Dive Show – Ray Bay
 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 and 7)
 School Program: Sensational Sharks (Kindergarten)
 School Program: Squid Dissection (Grade 10)
 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
 SEXual CORal REproduction (SECORE)

Green Practices

ENERGY

Documented Amount Spent
 Documented Amount Used
 Documented Square Footage of Conditioned Space

GREEN CERTIFICATIONS

Certified “Silver” Under the BOMA BEST Building Environmental Standards

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

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

WASTE

Documented Amount Sent to Landfill
 Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent
 Documented Amount Used

Mission-Focused Research

Invasive Lionfish Eradication Research
 Sand Tiger Behavioural Study With South-East Zoo Alliance for Reproduction and Conservation (SEZARC)
 Sand Tiger Reproduction Study With South-East Zoo Alliance for Reproduction and Conservation (SEZARC)

TORONTO ZOO

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
 Atlantic Salmon Reintroduction Program
 AZA FrogWatch USA
 Bat Acoustic Monitoring
 Black-Footed Ferret Conservation Recovery Program
 Blanding's Turtle Headstart Project
 Blue Schools Program

Eastern Loggerhead Shrike Captive Breeding Program

Freshwater Mussels Field Program

Great Lakes Program

Great Lakes: Redside Dace – Conservation and Community Involvement

Investigating the Diet Composition of a Threatened Ontario Songbird, the Barn Swallow

Loggerhead Shrike

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

Madagascar Freshwater Fishes

Madagascar Freshwater Fishes: *In-Situ* Partnership

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

Multi-Scale Patterns of Habitat Use, Spatial Ecology and Connectivity for Milksnakes Across a Fragmented Region

New Tools for Amphibian Monitoring: Establishing Environment DNA (eDNA) as a Means of Monitoring Amphibians in Ontario

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-Based Sustainability Projects

Community-Supported Agriculture (CSA) Program for Staff

Composting On-Site or Off-Site

Construction Waste Diversion / Recycling

Energy Submetering

Graywater Reuse and/or Rainwater Harvesting

Green Information Technology (IT)

Green Purchasing Policy / Green Procurement

Local Food Procurement for Animals and/or Guests

Purchasing Green Power or Renewable Energy Credits (RECs)

Solar or Wind Energy Generation

Usage of an Environmental Management System

Usage of Enterprise (IT) Solutions To Track, Measure and Dashboard Sustainability Performance

Water Submetering

Water-Wise Landscaping

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Animal Behaviour

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

Behavioural Assessment of Giant Pandas

Developing Assisted Reproductive Techniques for the Vancouver Island Marmot

Do Orangutans Choose to Choose?

Prevalence and Epidemiology of *Babesia odocoilei* in Wild and Captive Cervids and in the Tick Vector (*Ixodes scapularis*) in Southern Ontario

Specimen Request – All

Specimen Request – All Mammalian Species

Specimen Request – Cervids

Specimen Request – Elephant

Specimen Request – Elk, Large North American Mammals

Specimen Request – Eutherian Mammals

Specimen Request – Hyena

Specimen Request – Loggerhead Shrikes

Specimen Request – Native Ontario Turtle Species

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

Specimen Request – Orangutans

Specimen Request – Spotted Hyena

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

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

VANCOUVER AQUARIUM MARINE SCIENCE CENTRE**Field Conservation**

Acoustic Beluga Research Project

Agarum Monitoring

Annapolis Biodiversity Index Survey

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

Assessing Growth Trends and Body Condition of Killer Whales to Infer Nutritional Status

Biodiversity Monitoring

British Columbia Cetacean Sightings Network

British Columbia Northern Leopard Frog Recovery Project

Cetacean Conservation Genetics

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

Glass Sponge Recovery From Mechanical Damage

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 Habitat Protection Guide

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

Recovery of Rockfish in Rockfish Conservation Areas

Rockfish Winter Hiding

Sculpting Rockfish Habitat in Howe Sound

St. Lawrence Beluga Research Project

Green Practices**ENERGY**

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

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

Documented Square Footage of Facility With Green Building Certification

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

Composting On-Site or Off-Site

Construction Waste Diversion / Recycling

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy / Commitment

Green Purchasing Policy / Green Procurement

Greenhouse Gas (GHG) Inventory

Local Food Procurement for Animals and/or Guests

Smart Buildings Systems

Usage of an Environmental Management System

Wastewater Reduction

Water-Wise Landscaping

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Cetacean Novel Clinical Techniques

Fish Disease Case Reports

Frog Conservation and Disease

Harbour Seal Post-Release Monitoring

Marine Mammal Health and Physiology

Pinniped Anesthesia

Sea Lion Darting and Disentanglement Project

ZOO DE GRANBY**Field Conservation**

Amur Leopard and Tiger Alliance (ALTA) – Amur Leopard Conservation in Russia

AZA Conservation Grants Fund (CGF)

Bats Recovery Plan in Quebec

Conservation and Enhancement of Habitats and Endangered Species in Bois s Miner, Granby, Quebec, Canada

Conservation of Red Pandas

Fauna and Flora Characterisation and Enhancement at Saint-Quentin Island, Trois-Rivi res

International Elephant Foundation (IEF) – African Elephant Conservation

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

Protection of the Wood Turtle and Its Habitat Within Yamaska Watershed

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 Qu bec

Mission-Focused Research

Behavioural Impact of Human Presence on Mammal Mesopredators in Protected Areas of Qu bec

Effect of Open Zoos and Visitors on Captive Wallabies

Impact of Unsuspected Noise on the Behavior and Welfare of Zoo Captive Animals

Implication of Fructose in Relation to Atherosclerosis in Psittacine birds

Macaques Wounding Study

The Behavior of Macaques in Relation to Visitor Effect and Enclosure Design

The Importance of Social Structure and Environment on Breeding Success in Captive Flamingos (*Phoenicopterus ruber*)

Colombia

ZOOLOGICO DE CALI

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

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

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

Documented Amount Spent on Landfill Waste

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Hong Kong

OCEAN PARK CORPORATION

Education Programs

Active Learning Solution Limited eQuiz Contest

Animal Encounter Programme

Animal Exhibition Panels Lending Service

Animal Feeding Programme

Animal Fun Talk

Animal Keeper Programmes

Bamboo Jam

Big Feet Small Feet Union

Blue Hero Mission

Children's First Touch of Nature

Chinese White Dolphin Boat Trip

Corporate Training Programme

Education University of Hong Kong Volunteer Scheme

Educational Talks at the Leisure and Cultural Services Department (LCSD)

Emperors of the Sky

Graduation Bash

Grand Aquarium Scuba Diving / Exploration

Hong Kong Flower Show

Hospital Visit

In-Park Narration

Institute of Vocational Education Volunteer Scheme

International Coastal Cleanup

Jockey Club Giant Panda Junior Volunteer Programme

Jockey Club Learn-to-Swim Programme for Primary Students

Juvenile Horseshoe Crab Rearing Programme

MingPao Smarties

Nature Lab Workshop

Nighttime in the Ocean's Depths

No Straw Campaign

Ocean Park Academy Preview Visit

Ocean Park Academy, Hong Kong (OPAHK) - Educational Posters

Ocean Park Project-Based Learning (Primary 4-6)

Ocean Park Website – Conservation Section
 Ocean Park x Chinachem Golden Age Volunteer Programme
 Ocean Wonders
 Octopus Education Programmes (Junior and Secondary)
 PCM Articles
 Plankton Education Programmes (Kindergarten)
 School Outreach Seminars
 Seasonal Camps
 Shell Education Programmes (Primary 1-3)
 SiChuan Week
 SmartFun Education Tours
 Teacher Day Camp
 Teachers' Workshop of "Whiskers and Friends" Kindergarten Education Kit
 The Ocean Park Conservation Day
 The University of Hong Kong Volunteer Scheme
 University Student Sponsorship Programme
 Upper Iowa University Volunteer Scheme
 Virtual Guided Tour
 Whale Education Programme
 Whiskers and Friends – Kindergarten Education Kit
 Wonderkids
 Yan Oi Tong Volunteer Scheme
 Young Explorers Club Programme (Regular Programme)
 Young Explorers Club Programme (Weekend Discovery Fun Day)
 Youth Ambassador Scheme
 Youth Internship Programme at Wolong National Nature Reserve, Sichuan

Field Conservation

A Pilot Management Standardisation Project at Niuweihe Provincial Nature Reserve, Shaanxi
 Activity Pattern and Habitat Utilisation of Yangtze Finless Porpoise in Zhenjiang Nature Reserve, Hubei
 Amphibian Conservation on the Roof of Indochina
 Assessing IUCN Red List Status of Hong Kong Ants
 Assessment of Characteristics and Distribution of Human-Induced Underwater Noise in Chinese White Dolphin Habitats, Pearl River Estuary
 Blue Coral Breeding and Conservation in Xisha, Hainan

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
 Cloud Platform Setup for Public Education on Aquatic Wildlife
 Combining Alternative Livelihood Training and Environmental Education to the Community in Motianling Nature Reserve
 Community Conservation Education on Horseshoe Crabs and Their Habitats in Beibu Bay, Guangxi
 Community-Based Conservation Management of the Banggai Cardinalfish in Indonesia
 Community-Led Seahorse Conservation in Southwest Cambodia
 Competition Stress From Exotic Sturgeon Species on Wild Population of Chinese Sturgeon in the Yangtze River Estuary
 Conservation and Ecology of Endangered Chinese Turtles
 Conservation Genomic Inquiry to Save the Critically Endangered Rufous-Fronted Laughingthrush From the Brink of Extinction
 Conservation of Endangered Freshwater Turtles in Hong Kong
 Conservation of the Endangered Hog Deer (*Axis porcinus*) in Northeast India
 Conserving Critical Orangutan Habitat in Indonesian Borneo
 Conserving the Critically Endangered Chinese Pangolin (*Manis pentadactyla*) in the Tea Plantations of Darjeeling Himalaya, India
 Developing a Rehabilitation Centre for Sunda Pangolin, *Manis javanica*, in North Sumatra
 Displacement of Kernel Habitat of Coastal Delphinids Upon Substantial Anthropogenic Coast Alterations
 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
 EcoGuardians Program: A Model for Mitigating Turtle Hunting in the Chittagong Hill Tracts, Bangladesh (Arakan Forest Turtle, Assam Roofed)
 Education and Community Involvement in the Conservation of Indigenous Bird Species, Including the Critically Endangered Bali Mynah in Bali, Indonesia
 Effectiveness Evaluation of Functional Area Management Based on Biodiversity in Changqing National Nature Reserve, Shaanxi

- Environmental Pollution in Pearl River Estuary and the Health of Chinese White Dolphin
- Estimating Genetic Diversity in Captive Populations of Critically Endangered Blue-Crowned Laughingthrush (*Garrulax courtoisi*)
- Field Identification Handbook of Large and Medium-Sized Wild Mammals and Pheasants in Southwestern China
- Forming a Scientific Foundation for Coral Reef Restoration and Resilience in Hong Kong
- Genetic Database Development and Population Management for Giant Pandas in Caopo and Xiaohogou Natural Reserves in Sichuan
- Identifying Ecological Relationships of *Cacatua sulphurea* to Aid Conservation in Its Native and Introduced Ranges
- 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*
- Inspiring Support for Pematang Gadung Community Forest Through Communication, Education and Public Awareness Efforts
- Investigation of Big-Head Schizothoracin Resources and Habitat in Xinjiang Tarim River
- Investigation of Habitat Fragmentation Status for Yangtze Finless Porpoise in Yichang-Wuhan Section of Yangtze River
- Multidisciplinary Approach for Assessing Komodo Dragon Population Distribution and Trends on the Island of Flores, Indonesia
- Phase 2: Standardisation of Patrol and Monitoring in Nature Reserves in Gansu, China
- Phase 3: Standardisation of Patrol and Monitoring in Nature Reserves in Gansu, China
- Population Assessments of Wild Bornean Orangutans: Comparing Ground Nest Surveys to New Drone Technologies
- Population Distribution and Feeding Ecology of Finless Porpoise in Liaodong Bay and Northern Yellow Sea
- Population Survey of Chinese White Dolphin in Jiangmen Chinese White Dolphin Provincial Nature Reserve, Guangdong
- Potential Distribution Prediction and Conservation Strategy of Chinese and Mangrove Horseshoe Crabs Juveniles Using Ecological Niche Factor Analysis in Beibu Gulf, Guangxi
- Preliminary Study on Blood Transfusion of Giant Panda
- Recovering Red-Crowned Roofed Turtle (*Batagur kachuga*) on the Chambal River, Northern India
- Reptile Conservation in Rural Tamil Nadu
- Research and Action to Advance Conservation of Taimen
- Research on Evaluation and Promotion of Conserving Chinese Sucker
- 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
- Restoring a Wild Population of Chinese Alligators at Wuchang Lake, Anhui Province, China
- Right From the Start: Guiding the Philippines as It Works Towards Implementing CITES for Vulnerable Seahorses
- Safeguarding Endangered Turtle Populations in Hong Kong
- Saving the Last Northern River Terrapins (*Batagur baska*) in the Sundarbans of India and Bangladesh
- Sidelined Arks in Deep Waters: Conserving Freshwater Taxa in the Southern Western Ghats of India
- 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
- Status Survey and Conservation Action Plan for Eurasian Otter (*Lutra lutra*) in Hong Kong
- Strengthening Community Cooperation for Pangolin Conservation in Kavrepalanchowk District
- Strengthening Participatory Turtle Conservation Project Along Ghaghra-Sarju River System in Terai Arc Landscape, North India
- Study and Conservation of Migratory Chinese Crested Terns (*Thalasseus bernsteini*) in China and Indonesia
- Study of Potential Risk of Canine Distemper to Wild Giant Panda and Its Associated Wildlife in Shaanxi
- Study of Wintering Ground and Breeding Behavior of Blue-Crowned Laughingthrush in Wuyuan, Jiangxi Province
- Study on Wildlife Corridor for Giant Panda in Wolong National Nature Reserve, Sichuan
- Supporting Spatial Monitoring and Reporting Tool (SMART) Patrols in Project Harimau Selamanya to Improve Protection of the Malayan Tiger in the Kenyir-Taman Negara Core Area, Peninsular Malaysia
- Systematic Surveys for Annamite Endemic Mammals in Pu Mat National Park
- Training on Infrared Camera Monitoring and Data Application for Conservation Authorities in Shaanxi

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

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

Community-Based Sustainability Projects

Energy Submetering

Green Purchasing Policy / Green Procurement

Greenhouse Gas (GHG) Inventory

Local Food Procurement for Animals and/or Guests

Wastewater Reduction

Water Submetering

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Biosonar Research: Understanding Dolphin Echo-Imaging Capability

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

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

Yellow-Bibbed Lory Research Project

Mexico

AFRICAM SAFARI PARK

Education Programs

Amazing Environments: Desert, Forest and Jungle

Animal Encounter

Biodiversity: Natural Heritage of Everyone

Ecosystems

Endangered Animals

Extinction: Animals and Plants Disappear

From Day to Night in Nature

Fur, Feathers, Scales and Leaves

Life Cycle

Mexico's Biodiversity

Mobile Zoo

Move for the Environment

Our Impact in Biodiversity

Our Mission: Saving Ecosystems!

The Animals, in My House or in the Woods?

The Weather Changes? Better !!

Warning! Danger of Extinction

Field Conservation

California Sea Lion Health Assessment
 Crested Toad Recovery Plan
 Golden Eagle Conservation Program
 Masked Bobwhite Quail Recovery Program
 Socorro Dove Reintroduction Program
 Taylor's Salamander Conservation Project

Green Practices**ENERGY**

Documented Amount Spent
 Documented Amount Used
 Documented Square Footage of Conditioned Space
 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
 Alternative Transportation Discounts for Guests
 Anaerobic Digester Energy Generation
 Building Energy Management
 Commingled Recycling
 Community-Based Sustainability Projects
 Community-Supported Agriculture (CSA) Program for Staff
 Composting On-Site or Off-Site
 Denitrification Systems
 Energy Submetering
 Graywater Reuse and/or Rainwater Harvesting
 Green Building Policy / Commitment
 Green Purchasing Policy / Green Procurement
 Greenhouse Gas (GHG) Inventory
 Local Food Procurement for Animals and/or Guests
 Smart Buildings Systems

Solar or Wind Energy Generation

Stormwater Management Program

Usage of Enterprise (IT) Solutions To Track, Measure and
 Dashboard Sustainability Performance

Wastewater Reduction

Water Submetering

Water-Wise Landscaping

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices
 Dedicated Full-Time Equivalent (FTE) Staff to Coordinating
 Green Practices
 Developed or Updated a Sustainability Plan (or Equivalent)
 Developed or Updated a Sustainability Policy
 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
 Documented Amount Spent on Landfill Waste

WATER

Documented Amount of Wastewater Generated
 Documented Amount Spent
 Documented Amount Used

UNITED STATES

Alabama

BIRMINGHAM ZOO

Field Conservation

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

American Association of Zoo Keepers (AAZK) – Marine Mammal Center

Chipangali Large Carnivore Project: Zimbabwe

ConservationFIT: A Conservation Partnership Between Captive and Wild Jaguars Through Their Footprints

Dian Fossey Gorilla Fund International

Giraffe Conservation Foundation (GCF)

International Rhino Foundation (IRF)

Jaguar Corridor Project: Southern Belize

Local Bat Conservation

Passion Into Conservation Action (PiCA) Grant – Conserving Namibia's Desert Dwelling Giraffe

Passion Into Conservation Action (PiCA) Grant – Pallas's Cat Research and Conservation

Passion Into Conservation Action (PiCA) Grant – Red Panda and Asian Ecosystem Conservation

Passion Into Conservation Action (PiCA) Grant – Red-Cockaded Woodpecker Translocation

Rainforest Rescue – Save the Cassowary

Research on Small African Felids (PiCA Grant)

Vulture Conservation Programme (VulPro)

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 Offset Purchase for On-Site Utility Use

Carbon Offsets for Employee Travel

Commingled Recycling

Community-Based Sustainability Projects

Composting On-Site or Off-Site

Construction Waste Diversion / Recycling

Energy Submetering

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy / Commitment

Local Food Procurement for Animals and/or Guests

Solar or Wind Energy Generation

Stormwater Management Program

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating 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

Mission-Focused Research

Arthritic Lesions of Giant Anteater Feet

AZA Red Panda SSP – Fecal Survey

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

North American River Otter Latrine Survey (Passion Into Conservation Action (PiCA) Grant)

Obesity Study: Lemuriformes in Human Care
 Population Study of Black Bears in Alabama
 Sparrow Swap
 Treatment Analysis of a Male Jaguar in Human Care

Alaska

ALASKA SEALIFE CENTER

Field Conservation

Changing Tides – Bivalve Bioassay and Analysis Component (R0107)
 Community-Based Coastal Monitoring of Aleutian Islands
 Ocean Alaska Science and Learning Center (OASLC) –
 Trends in Habitat Use and Productivity of Seabirds in the
 Resurrection Bay/Kenai Fjords Area

Green Practices

ENERGY

Documented Amount Spent
 Documented Amount Used
 Documented Square Footage of Conditioned Space
 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 Star Program

GREEN PRACTICES IMPLEMENTED

Building Energy Management
 Commingled Recycling
 Green Building Policy / Commitment

Green Purchasing Policy / Green Procurement
 Local Food Procurement for Animals and/or Guests
 Smart Buildings Systems
 Usage of Enterprise (IT) Solutions To Track, Measure and
 Dashboard 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 Policy

WATER

Documented Amount Spent
 Documented Amount Used

Mission-Focused Research

Developing a Habitat Use Model for Juvenile Steller Sea
 Lions in the Gulf of Alaska With Inclusion of Predation Risk
 Developing VitaLink®: Autonomous Remote Satellite Tag
 Data Recovery Stations
 Effects of Increased Salinity in Coastal Wetlands on Growth
 and Survival of Threatened Steller's Eiders (*Polysticta*
stelleri) and Spectacled Eider (*Somateria fischeri*)
 Ducklings
 Eider Flock Maintenance 2012-2017 (R5800)
 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
 Sustainability of Critical Areas for Eiders and Subsistence
 Hunters in an Industrializing Nearshore Zone
 The Physiological Effects of Dispersants and Dispersed Oil
 on a Sentinel Cold Water Species, the Bay Mussel

Arizona

ARIZONA-SONORA DESERT MUSEUM

Education Programs

Amigos del Desierto
 Arizona-Sonora Desert Museum Press
 Art Institute
 Bat Bridge Programs
 Buffelgrass Busters
 Coati Club
 Coati Pups
 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
 Fur, Feathers and Fangs
 Junior Docent Program
 Library Outreach Programs
 Live and (Sort of) on the Loose
 Museum Explorers Camp
 Pollination Hotspots
 Public Programs
 Raptor Free Flight
 Senior Programs
 Sonorensis
 Special Events

Field Conservation

Arizona Monarch Partnership
 Assurance Population: Gila Topminnow
 Assurance Population: Quitobaquito Mud Turtles
 Assurance Population: Quitobaquito Pupfish
 Assurance Population: Sonora Chub
 Buffelgrass Busters

Propagation: Mexican Gartersnake

Propagation: Tarahumara Frog

Salvage: Rio Sonoyta Longfin Dace

Salvage: Tortoise Adoption Program

Mission-Focused Research

Argentine Cactus Moth Monitoring
 Ecological Forecasting for Invasive Species
 Phenology Research
 Pollinator Hotspots
 Sky Island Arthropod Diversity

PHOENIX ZOO

Education Programs

Advanced Inquiry Program (AIP)
 Animal Discoveries
 Animal Tales
 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
 Gifts for the Animals
 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

Special Needs Camps
 Teen Career Conference
 Trail Host Program
 Wild Science Academy
 Wild Workshops
 Zoo U
 ZOOMobile
 ZooToYou – Outreach
 ZooToYou Assemblies

Field Conservation

Andean Bear-Human Conflict Areas in the Chingaza Massif, Colombia: Hot Spots, Drivers and Potential Solutions
 Arizona TrailCAM Project
 Black-Footed Ferret (*Mustela nigripes*) Propagation and Release Program
 Borderlands Connectivity Field Research
 Building Bridges for the Javan Slow Loris
 Calamian Deer Survey on Culion Island, Palawan, Philippines
 Cheetah Sustainability Program
 Chiricahua Leopard Frog (*Lithobates chiricahuensis*) Headstarting and Release Program
 Comprehensive Conservation Program for the Critically Endangered Harlequin Frog, *Atelopus varius*, in the Talamanca Mountains, Costa Rica
 Conserving Critical Food Resources for the Endangered Mexican Long-Nosed Bat Through Community Bat-Friendly Agave Management Programs
 Continuing to Resolve Conflict Through Communication: Using DVD Shows to Help Reduce Human-Carnivore Conflict Around Ruaha National Park, Tanzania
 Determining Survival and Home Range of Red-Crowned Roofed Turtle on Chambal River, India
 Distribution, Vulnerability and Conservation of Amphibians in the Sierra Nevada, Colombia
 Fighting Destruction of Orangutan Habitat With Healthcare Incentives for Rainforest Guardianship
 Giant Armadillo: A Flagship Species for Biodiversity Conservation
 Harlequin Frog (*Atelopus varius*) Research and Recovery Center

Hippos as Ecosystem Engineers: Habitat Use, Ecology and Behavior of Hippos in an Important Water Body of Zululand, South Africa
 Immobilization and Health Evaluations of Chacoan Peccary in the Gran Chaco, Paraguay
 Jaguar Corridor: Connecting National Parks in the Zona Sur, Costa Rica
 Madagascar Flying Fox
 Mariana Avifauna Conservation (MAC) Project
 Mount Graham Red Squirrel Propagation and Release Program
 Multi-Species Conservation Support Facility, Breeding Facility and Conservation Research Lab
 Narrow-Headed Gartersnake (*Thamnophis rufipunctatus*) Field Conservation
 Narrow-Headed Gartersnake (*Thamnophis rufipunctatus*) Propagation for Release
 Panama Amphibian Rescue and Conservation (PARC) – Gamboa Facility
 Peninsular Pronghorn Recovery Program
 Ploughshare Tortoise Extinction Crisis Response in Madagascar
 Project Rufus: *In-Situ* Conservation of the *Pteropus rufus* Fruit Bat in the Sainte Luce Littoral Forest
 Protecting Connectivity Through Citizen Science at Scottsdale's McDowell Sonoran Preserve
 Proyecto Tití – Continued Education Efforts to Engage Students in Cotton-Top Tamarin Conservation in Northern Colombia
 Saving Sumatran Tigers by Reducing Tiger-Human Conflict
 Searching for a Lost Population of Philippine Crocodiles on Negros Island, Philippines
 Springsnail Field Surveys
 Strengthening Field-Based Conservation Management for the Critically Endangered Tonkin Snub-Nosed Monkey at Na Hang Nature Reserve, Vietnam
 Toward a Better Understanding of Orangutan Adaptation to Human-Made Landscapes
 University of Arizona / Arizona Center for Nature Conservation (ACNC) – Native Species Conservation Graduate Fellowship
 Vaquita Conservation, Protection and Recovery (Vaquita CPR)
 Warriors Protecting Grevy's Zebra in Laisamis, Northern Kenya

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

YUS Junior Rangers: Building Youth Leadership and Environmental Stewardship on the Huon Peninsula of Papua New Guinea

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

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

Documented Square Footage of Facility With Green Building Certification

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

Construction Waste Diversion / Recycling

Energy Submetering

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy / Commitment

Green Purchasing Policy / Green Procurement

Solar or Wind Energy Generation

Wastewater Reduction

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Spent on Landfill Waste

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Assessing the Genetic Connectivity of Northern Mexican and Narrow-Headed Garter Snakes Within and Among Watersheds in the United States using Genome-Wide Independent Nuclear Markers (SNPs) Data

Chiricahua Leopard Frog Effect of Population Density on Development Rate

Community Ecology Research Equipment: Camera-Trapping

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 Garter Snake

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*"

Evaluating Wildlife Corridors in the Chiricahua Mountain Ranges and Neighboring "Sky Islands"

McDowell Gooseneck Corridor

Select Acute Phase Proteins in the Black-Footed Ferret (*Mustela nigripes*)

Serving the Community, the Environment and Visitors: Exploring the Experiences of an Environmental Education Center's Volunteers

Squamate Sex Determination, Genomics and Phylogenetics

Tracking Reintroduced *Ex-Situ* Born Narrow-Headed Garter Snakes

US-Mexico Borderlands – Wildlife Movement and Migration

Wildlife Research Assistant Training Program

REID PARK ZOO

Education Programs

Animal Encounter
 Behind the Scenes Tours
 Bio Bags
 Camps (Non-Summer, Private or Winter)
 Education Program Animal Presentation
 Flashlight Safari – Overnight
 Formal Animal On-Grounds Presentations
 Interpretive Station Cart
 Little Critters
 Nature Play Days at the Zoo
 Photo Safari
 Summer Camp
 Teacher Workshop
 Young Explorers Programs
 Zoo Adventure Program (On-Site School Programs)
 Zoo to You Outreach

Field Conservation

AZA SAFE – Vaquita
 AZA Tamandua SSP – *In-Situ* Education
 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
 Tanzania Conservation Resource Centre
 Tarangire Elephant Project (TEP)
 Tucson Wildlife Center
 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
 Construction Waste Diversion / Recycling
 Graywater Reuse and/or Rainwater Harvesting
 Green Building Policy / Commitment
 Solar or Wind Energy Generation

SEA LIFE ARIZONA AQUARIUM

Education Programs

Boy Scouts
 Daily Feeds
 Daily Talks
 Displays Animal Care Development
 Education Development
 Forces of the Ocean
 Girl Scouts – Brownies
 Girl Scouts – Cadets
 Girl Scouts – Daisies
 Girl Scouts – Juniors
 Homeschool August
 Homeschool February
 Homeschool May
 Homeschool November
 Marine Awareness and Conservation Society (MACS)
 Conservation Workshop
 Plastic Oceans
 Summer Camps
 Survival of the Fittest
 Turtle Trackers
 Young Environmentalists

Mission-Focused Research

Aquaculture *Tubastraea aurea*
 Arizona Salt River Apple Snail Survey

Arkansas

LITTLE ROCK ZOO

Field Conservation

African Wild Ass (*Equus africanus*)

Arkansas Monarch Conservation Partnership

Arkansas Natural Heritage Commission

Asian Elephant Support (AES)

AZA Ape TAG – Conservation Initiative – Sumatran Orangutan Conservation Programme (SOCP)

AZA Jaguar SSP – Cockscomb Basin Wildlife Sanctuary (CBWS)

AZA SAFE – Conservation Action Plan (CAP)

AZA SAFE – Vaquita Marina Conservation Action Plan (CAP)

Cheetah Conservation Fund (CCF)

Dian Fossey Gorilla Fund International

Got Scat?

International Bear Association

International Elephant Foundation (IEF)

International Rhino Foundation (IRF)

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Save the Lemurs

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

The Clouded Leopard Project

The Orianne Society

Turtle Survival Alliance (TSA)

Wildlife SOS

Green Practices

ENERGY

Documented Amount Used

Documented Square Footage of Conditioned Space

FOOD

Sourced Local Food or Grew It On-Site

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Commingled Recycling

Composting On-Site or Off-Site

Energy Submetering

Graywater Reuse and/or Rainwater Harvesting

Green Purchasing Policy / Green Procurement

Local Food Procurement for Animals and/or Guests

Stormwater Management Program

Water Submetering

Water-Wise 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 Policy

WASTE

Documented Amount Composted

Documented Amount Sent to Landfill

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

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

Local Undergraduate Student Project Observations

California

AQUARIUM OF THE BAY

Education Programs

Bay Lab Public Programs

BayMobile Outreach Programs

Behind the Scenes Tours

Exhibit Trainings

Exploration Tours

Film and Lecture Series Events

General Outreach Programs

Hybrid Ferry Programs

Public Programs – Feedings

Public Programs – Non-Feedings

San Francisco Bay Area Sustainable Seafood Alliance
Trainings and Events

Self-Guided Tours

Shoreline Clean-Up Events

Sleepovers

Special Public Program Events

Teacher Workshops

Trout in the Classroom Collaboration

Field Conservation

Bay Restoration

Coast and Ocean Protection

Rivers and Estuaries

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified as a San Francisco Green Business

Documented Square Footage of Facility With Green Building
Certification

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Commingled Recycling

Community-Based Sustainability Projects

Composting On-Site or Off-Site

Construction Waste Diversion / Recycling

Green Building Policy / Commitment

Green Information Technology (IT)

Green Purchasing Policy / Green Procurement

Wastewater Reduction

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating
Green Practices

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent

Documented Amount Used

AQUARIUM OF THE PACIFIC

Education Programs

Aquarium on Wheels Outreach

Night Dive

Overnight Program

Public Programs – Aquatots, Job Shadow, Saturday Family
Fun and Junior Biologist, Behind the Scenes Tours and
Animal Encounters

Public Shows

School Programs

Whale Watching and Whale Photo ID Internship

Winter and Summer Camps

Green Practices

ENERGY

Documented Amount Used

FOOD

Sourced Local Food or Grew It On-Site

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

Reported Greenhouse Gas Emissions to a Climate Registry

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating
Green Practices

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

Documented Amount Spent on Landfill Waste

WATER

Documented Amount of Wastewater Generated

Documented Amount Used

B. BRYAN PRESERVE**Field Conservation**

Giraffe Conservation Foundation (GCF)

Grevy's Zebra Trust

BIRCH AQUARIUM AT SCRIPPS INSTITUTION OF OCEANOGRAPHY**Field Conservation**

Capacity Building and Specialty Training – Multiple Marine Conservation Projects

Capacity Building and Training of Multiple Institutions

Cetacean Stranding Response With the Southwest Fisheries Science Center (SWFSC)

Community Coastal Awareness

Coral Conservation

Sea Turtle Education Conservation and Sanctuary

SEACAMP Outreach Education Support

Syngnathidae Conservation

Veterinarian Support

Mission-Focused Research

Aurelia aurita Genetics

Coral Research/Conservation

Leafy Seadragon Genetic Assessment

San Diego Zoo Sperm Atlas

Scripps Institution of Oceanography – Pier Data Analysis

CABRILLO MARINE AQUARIUM**Field Conservation**

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

Cabrillo Salt Marsh Survey

Garibaldi Aquaculture, Territorial Behavior and Conservation

Inner Cabrillo Beach Survey

Peninsula Shorewatch

Tidewater Goby Recovery

Weekly Bird Survey at Manmade Salt Marsh at Cabrillo Beach, Los Angeles County, California

White Abalone Husbandry and Conservation

Green Practices**FOOD**

Sourced Local Food or Grew It On-Site

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Mission-Focused Research

Copepod Aquaculture

Grunion Aquaculture

Pacific Seahorse Husbandry and Development

CALIFORNIA SCIENCE CENTER**Field Conservation**

Survey of Southern Steelhead

Green Practices**ENERGY**

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

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

Composting On-Site or Off-Site

Denitrification Systems

Energy Submetering

Green Building Policy / Commitment

Green Information Technology (IT)

Green Purchasing Policy / Green Procurement

Greenhouse Gas (GHG) Inventory

Water Submetering

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

Reported Greenhouse Gas Emissions to a Climate Registry

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Diversity Initiative for the Southern California Ocean (DISCO)

Optimizing Macrocystis Husbandry Methods in the Kelp Nursery: A Collaboration between the California Science Center and the University of Southern California (USC) Wrigley Institute

Preserving Marine DNA With the Ocean Genome Legacy Biorepository

CURIODYSSEY**Field Conservation**

AZA FrogWatch USA

Bay Area Bobcat Study

Coyote Point Beach Clean Up

Home Ranges, Den Sites and Food Habits of Ringtails in the Sutter Buttes, California

Marsh Habitat Restoration Project – Removal of Invasive *Limonium ramosissimum*

Pacific Tree Frog (*Pseudacris regilla*) Garden Habitat Project

River Otter Ecology Project

Mission-Focused Research

Experimental Restoration at Coyote Point Marsh

UC Berkeley Urban Bee Lab – Pollinator Habitat Advisors

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 Programs**

Adventure Camp

Beach Cleanup

Behind the Scenes – Hand to Trunk

Behind the Scenes – Hoofstock (Hops and Galaps)

Behind the Scenes – Reptile

Behind the Scenes – Sea Lion Splash

Cubby Camp

Group Behind the Scenes

Lab – Ecosystems

Lab – Habitats

Lab – Life Cycles

Lab – Structure and Function

Overnight Safari

Shadow a Keeper

Teacher Workshops

Tot Time

Young Naturalist

Zoo Academy

Zoo Preview

Zoo Tour

Field Conservation

American Kestrel Nestbox Monitoring

AZA Ape TAG – Conservation Initiative

AZA SAFE – Vaquita

AZA Sloth Bear SSP

AZA Tiger SSP – Malayan Tiger Project

AZA Western Pond Turtle SSP – Genetic Testing for Species Identification

Bay Area Puma Project

California Condor Nest Guarding Program

Cheetah Adaptations in Varied Land-Use Regions of Kenya

Community-Based Grevy's Zebra Conservation in Northern Kenya

Friends of the Island Fox Support for Channel Islands National Parks

Hornbill Research Foundation (HRF) – Nest Adoptions in Thailand

International Rhino Foundation (IRF)

Kibale Fuel Wood Project

Lowland Tapir Conservation Initiative – Pantanal Tapir Program

Oakland Wetlands Restoration Project

Pantanal Giant Armadillo Project

Reticulated Giraffe Project

Ridge to Reef – Vaquita Project

Ruaha Carnivore Project (RCP)

Sahara Conservation Fund (SCF)

Tarangire Elephant Project (TEP)

Turtle Survival Alliance (TSA)

Western Pond Turtle (*Actinemys marmorata*) – Body Composition Analysis

Mission-Focused Research

Determination of Safe and Effective Dosing Regimens for Flunixin Meglumine (Bananine®) and Firocoxib in African and Asian Elephants

Developing a High Resolution Genotyping Method for Tiger Fecal DNA

Genetic Testing of Western Pond Turtles

Suidae and Tayassuidae Reproductive Health Study

The Orangutan Conservation Genetics Project

HAPPY HOLLOW ZOO

Education Programs

Camps

Coffee and Critters

Field Trips

Fun for the Whole Family

Girl Scout Programs

Junior Keepers

Meet and Greets

Outreaches

Senior Safari

Sleepovers

Tales for Tots

Wild Science

Zooteen Shadow

LOS ANGELES ZOO AND BOTANICAL GARDENS

Education Programs

California Condor Rescue Zone

Daily Animal Talks

Duttenhaver Conservation Field Study Student Fellowship

Elephant Training Demonstration

Family Classes

Family Overnights

Los Angeles Zoo Camp

North Hollywood High School – Biological and Zoological Magnet School

Parent-Child Classes

Scout Overnights

World of Birds Show

Zoo Explorers

Zoo Pals

Field Conservation

Asian Vulture Conservation

Assessment of Heptner's Markhor and Bukhara Urial Populations

Bat Survey in Los Angeles Zoo / Griffith Park

Black-Winged Starling Conservation in Indonesia

Bushmaster Survey and Preliminary Needs Assessment

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

Comparing Monitoring Methods to Infer the Conservation Status of the Komodo Dragon Population

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

Conservation of Egyptian Vultures

Conserving the World's Largest Amphibian

Drill Conservation on the Island of Bioko

Drill Rehabilitation and Breeding Center (DRBC)

Fauna Monitoring Program on Polillo Island

Fiji Crested Iguana Conservation

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

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

Increasing the Blue-Throated Macaw Population in the El Beni State of Bolivia

Indian Gharial Behavioral Ecology and Conservation

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

Javan Warty Pig Recovery Project

Minimizing the Conflict Between Asian Elephants and Local Villagers

Okapi Conservation Project

Paso Pacífico – Paso del Istmo Jaguar Conservation Project

Peninsular Pronghorn Recovery Program

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

Saiga Conservation Alliance

Sonoran Pronghorn Recovery Project

Turtle Survival Alliance (TSA)

Green Practices

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Mission-Focused Research

Changes in Conservation Caring With Different Experiences

Development of Rapid Facial Mimicry (RFM) in Chimpanzees

Do Chimpanzees Spontaneously Engage in Empathetic Yawning?

Effects of Carcass Feeding on the Activity and Body Condition of Snow Leopards, Tigers and Painted Dogs

Effects of Providing Zoo-Housed Orangutans With Arboreal Furnishings

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 Programs

Aquarium Adventure Sleepovers

Aquarium Adventure Tours

Aquarium Adventure Underwater Explorers

Auditorium Programs

Discovery Labs School Program

Education Conferences

Feeding Presentations

Homeschool Days School Program

Ocean Explorers School Program
 Self-Guided School Programs
 Splash Zone Discovery School Program
 Student Oceanography Club
 Teacher Institutes
 Teacher Workshops
 Teen Conservation Leaders (TCL)
 Theatrical Programs
 Watsonville Area Teens Conserving Habitats (WATCH)
 Young Women in Science

Field Conservation

Aquarium Conservation Partnership (ACP)
 Conservation and Science Program Administration
 Migratory Movements, Depth and Temperature Preferences of Dolphinfin (*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
 Sea Otter Program
 Seafood Watch
 Sevengill Shark Research
 Shorebird and Seabird Rehabilitation
 White Shark Research

Green Practices

ENERGY

Documented Amount Spent
 Documented Amount Used
 Documented Square Footage of Conditioned Space
 Purchased Renewable Energy

FOOD

Sourced Local Food or Grew It On-Site

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff
 Anaerobic Digester Energy Generation

Building Energy Management
 Carbon Offset Purchase for On-Site Utility Use
 Commingled Recycling
 Community-Based Sustainability Projects
 Community-Supported Agriculture (CSA) Program for Staff
 Composting On-Site or Off-Site
 Construction Waste Diversion / Recycling
 Denitrification Systems
 Energy Submetering
 Green Building Policy / Commitment
 Green Information Technology (IT)
 Green Purchasing Policy / Green Procurement
 Greenhouse Gas (GHG) Inventory
 Local Food Procurement for Animals and/or Guests
 Smart Buildings Systems
 Stormwater Management Program
 Water Submetering
 Water-Wise 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
 Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent
 Documented Amount Used

Mission-Focused Research

Deep Sea Cephalopods
 Marine Macroalgae – Ecosystem Indicators of Historic Conditions

Pelagic Red Crab Gut Contents: Plastics Study

Visitor Research

Whole Genome Sequencing of the Sea Otter

OAKLAND ZOO

Education Programs

Animal Encounters

Conservation Assembly / ZooMobile

Creek and Garden Programs

Docent-Led Tours

Earth Day and Special Animal Awareness Days

Education Birthday Parties

Family Sundown Safari

Feeding Talks

Field Biology Classes and Workshops

Habitat Restoration Programs

Out of School, Full or Half-Day Programs

Parent's Night / Day Off

Pathway Encounters

Presentation / Conservation Speaker Series

Scout Programs - Workshops and Overnights

Tabling / Presentation Events (e.g., Fairs, Neighborhood/
Community Events and Festivals, Career Days, Back to
School Nights/Days, Science Fairs and Festivals)

Teen Wild Guides (TWiGs) and Teen Programs

Youth and Student Conservation/Research Trips

Zoo Camps - Summer and School Breaks

ZooKids Programs

ZOOMobile

ZooSchool

Zoo-to-Community Initiative

Zoovie Nights

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 Jaguar SSP

AZA Puerto Rican Crested Toad SSP

Bay Area Puma Project - Felidae Conservation Fund

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

Golden Gate Audubon Society

Hornbill Research Foundation (HRF) - Nest Adoptions in
Thailand

Innii Initiative

Kibale Bead Community Action Project

Kibale Fuel Wood Project

Lubee Bat Conservancy

Marine Mammal Center

Mountain Gorilla Veterinary Project

Mountain Lion Foundation

Mountain Yellow-Legged Frog Project

Oakland Zoo Heron Initiative

Oakland Zoo Mountain Lion Initiative

People and Carnivores

Project Golden Frog

Proyecto Tití

Reticulated Giraffe Project

Save the Elephants

SaveNature.Org - Rainforest Conservation Parking Meter

Uganda Carnivore Program

Ventana Wildlife Society

Western Pond Turtle Headstart Program (On-Site)

Wildlife Conservation Network (WCN) - Ewaso Lions

Wildlife Conservation Society (WCS) - Tiger Project

Green Practices

ENERGY

Generated Renewable Energy On-Site

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

Composting On-Site or Off-Site

Construction Waste Diversion / Recycling

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy / Commitment

Green Information Technology (IT)

Green Purchasing Policy / Green Procurement

Solar or Wind Energy Generation

Wastewater Reduction

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

SACRAMENTO ZOO

Field Conservation

African Wildlife Foundation

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

Amphibian Ark

AZA Jaguar SSP – Cockscomb Basin Wildlife Sanctuary (CBWS)

AZA SAFE – Vaquita Program

AZA SAFE – Western Pond Turtle

Biodiversity Conservation Organization – Assessing the Current Population Status of the Vulnerable Abbott's Starlings (*Cinnyricinclus femoralis*) in Mt. Kenya Forest in Kenya Through Community Involvement

Biodiversity Conservation Organization – Back Tracking to Evaluate the Total Primates Population Around Tana River National Primate Reserve in Kenya and Involve the Local Communities

Biodiversity Conservation Organization – Conservation of Critically Endangered Roan Antelope (*Hippotragus equinus*) In Ruma National Park in Kenya

Biodiversity Conservation Organization – Securing the Current Population Status of the Least Known Yellow-Billed Stork (*Mycteria ibis*) in Lake Naivasha, Kenya, Through Community Empowerment and Mobilization

Centre for Indigenous Resources Management and Development (CIRMAD) – Improving Data Collection and Law Enforcement With Community Ecoguards in Ko-Wum Forest Habitat

Coral Restoration Foundation

Delta Region Sandhill Crane Conservation

Dharte Development Society – Critically Endangered Gyps Vulture Conservation

East Bay Puma Project

Ecology and Conservation of the Grey Parrots (*Psittacus erithacus*) in Kakamega Forest in Western Kenya Through Local Communities' Participation

Felidae Conservation Fund / Bay Area Puma Project

Food Procurement for Rehabilitation Centers

Garter Snake Ecology Studies

Giant Garter Snake Behavioral Ecology

Giraffe Conservation Foundation (GCF)

Grevy's Zebra Trust

Hornbill Research Foundation (HRF) – Nest Adoptions in Thailand

Involving Local Communities in Conservation of Leopard Tortoise (*Stigmochelys pardalis*) and Its Habitats in Lake Bogoria National Reserve in Kenya

Landscape and Conservation Mentors Organization – Educational Eco Fieldtrips for Community Youth Surrounding the Park

Lemur Conservation Foundation

Mabula Ground Hornbill Project (MGHP)

Madagascar Fauna and Flora Group (MFG)

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

Nature and People Conservancy – Building the Local Communities' Capacity in Conservation of Endangered Golden-Rumped Elephant Shrews (*Rhynchocyon chrysopygus*) in Arabuko Sokoke Forest in Kenya

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

Nido Adoptivo

Orangutan Outreach

Pantanal Giant Armadillo Project

Primate Education Network (PEN)

Red Panda Network (RPN)

Resource and Habitat Use of Aye-Ayes (*Daubentonia madagascariensis*) in Torotorofotsy and Kianjavato, Madagascar

River Otter Ecology Project – Seasonal Food Habits of the North American River Otter (*Lontra canadensis*) in Tomales Bay and Drakes Bay, California

Sahara Conservation Fund (SCF)

Saiga Crisis Fund

Seafood Watch

Shared Conservation Biologist

Small Wild Cat Conservation Foundation First Conservation Projects for Bay Cat, Flat-Headed Cat and Marbled Cat

Snow Leopard Conservancy (SLC)

Snow Leopard Trust (SLT)

Sustainable Run for Development (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

Tangkoko Conservation Education – Conservation Education Program for Local Communities in North Sulawesi, Indonesia

The Prusten Project – Determining Individualistic Vocal Patterns of *Panthera tigris* and Implications for Acoustic Monitoring of *In-Situ* Populations

Tropical Research and Conservation Centre – Community-Based Conservation of Endangered Sea Turtles Nesting Along the Akassa Coast, Bayelsa, Nigeria

Union Island Gecko Conservation Program

Vulture Conservation Programme (VulPro)

WASIMA – Stop Illegal Lion Hunting Around Protected Areas in Western Tanzania

West African Primate Conservation Action – Safeguarding the Future of Critically Endangered Primates Through Community-Led Conservation and Education

Wild Nature Institute – Masai Giraffe Conservation Demography

WildAid – Shark Savers

Wildlife Care Association

Wildlife Conservation Expo

Zoo Conservation Outreach Group (ZCOG)

Zoos and Aquariums Committing to Conservation (ZACC)

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

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

Carbon Offset Purchase for On-Site Utility Use

Carbon Offsets for Employee Travel

Commingled Recycling

Composting On-Site or Off-Site

Green Information Technology (IT)

Local Food Procurement for Animals and/or Guests

Purchasing Green Power or Renewable Energy Credits (RECs)

Smart Buildings Systems

Solar or Wind Energy Generation

Wastewater Reduction

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Amdovirus Investigation in Red Pandas

Chimpanzee Anesthesia Risk Assessment

Classification and Management Assessment of Canine Fractures in Captive Great Apes

Clinical Medicine Research Publications

Detection of Avian Bornavirus in Thick Billed Parrots

Feline Stereotypic Behavior

Gibbon Diet Survey

North American River Otter Genetic Testing

Obesity and Repetitive Behaviors in Captive Lemurs

Snow Leopard Ocular Coloboma Congenital Eye Disease

Sumatran Orangutan Birth Control Survey

Sumatran Tiger Gastrointestinal Health

Western Pond Turtle Shell Disease Study Group

SAFARI WEST WILDLIFE PRESERVE**Education Programs**

Guided Safari Tour

Husbandry Internship

Off-Site Presentation

Research Internship

Safari Trek Field Trip

Green Practices**GREEN PRACTICES IMPLEMENTED**

Composting On-Site or Off-Site

Graywater Reuse and/or Rainwater Harvesting

Local Food Procurement for Animals and/or Guests

Stormwater Management Program

Wastewater Reduction

Water-Wise Landscaping

SAN DIEGO ZOO GLOBAL**Education Programs**

Advanced Inquiry Program (AIP)

Institute Conservation Education Lab School Visits

Price Family Watershed Heros

Safari Park – Behind-the-Scenes Safari

Safari Park – Caravan Safari

Safari Park – Cheetah Safari

Safari Park – Conservation Corp

Safari Park – Conservation in Action

Safari Park – Fur, Feathers and Scales

Safari Park – Roar and 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

San Diego Zoo Kids

Zoo – Animals in Action

Zoo – Classic Summer Camp

Zoo – Discovery Tours

Zoo – Enviro School

Zoo – Exclusive VIP Experience

Zoo – Expeditionary Learning Program

Zoo – Fall Educator Preview

Zoo – Girls in Science

Zoo – Guided Bus Tour

Zoo – Healing Animal Arts

Zoo – Inside Look Tours

Zoo – Inside Story Tour

Zoo – Internquest

Zoo – Kids Free Month

Zoo – KinderTots and Kindernights

Zoo – School in the Park

Zoo – Second Grade Adaptations Connections

Zoo – Self Guided School Field Trips

Zoo – Special Tours

Zoo – Sunrise Surprise Strolls

Zoo – Wild Heroes

Zoo – Wildlife Overnights

Zoo – Zoo Corps

Field Conservation

African Penguin Conservation

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

Anegada Iguana Recovery Program

Anoa Program

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

Collaborative Conservation Research for Sloth Bears

Combating 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

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

Fiji Iguana Conservation

Fiji Iguana Conservation and Comparative Genetics

Galápagos Pink Land Iguana Recovery Program

Gelada Ecology and Conservation

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 Elephant Foundation (IEF)

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 Asian Wild Cattle Specialist Group – Saola Working Group
- IUCN/SSC Tapir Specialist Group
- Jaguar Costa Rica Corridor Research
- 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
- Lowland Paca Conservation Peru
- 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
- Point Loma Nazarene University (PLNU) – Project Jaguar and Other Predators of the Talamanca
- Polar Bear Conservation Research and Educational Outreach
- Population Health and Genetics of Black-Footed Cats and Infectious Disease Prevalence in Sympatric Carnivores
- Preserving the Endangered Drill *In-Situ*: Utilizing Genetic Tools for Ecological and Conservation Assessments
- 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
- Recovery of the California Condor
- Red Panda Network (RPN)
- Red Uakari Monkey Conservation Peru
- Red-Necked Ostrich Recovery
- Reteti Elephant Orphanage
- Reticulated Giraffe Conservation With Pastoralists
- Ridge to Reef – Community-Based Conservation of the Vaquita
- Rock Iguana Breeding Program
- Rodrigues Fruit Bat Conservation Support
- Sahara Conservation Fund (SCF)
- Saiga Conservation Alliance
- Saiga Conservation in Central Asia, Russia and Addressing Saiga Horn Consumption in Southeast Asia
- Saiga Conservation Project in Kalmykia, Russia and Ukraine
- Snow Leopard Trust (SLT)
- Southern Africa Elephant Conservation Program
- Southern Ground Hornbill Reintroduction
- Swaziland African Elephant Parks Support
- Tasmanian Devil Grant Support for the Zoological Association of America (ZAA)
- Tasmanian Devil Tools and Tech: Bridging the Gap Between the Lab Bench and Forest Floor
- The Genetic Diversity of Addax in Reintroduced and *Ex-Situ* Managed Populations
- The Peregrine Fund – Conserving Endangered Vultures
- The Regional Dynamics of Insect-Transmitted Diseases
- Translocation Biology of Endangered Heteromyids in Southern California
- Tree Kangaroo Conservation Program
- Turks and Caicos Boa Project
- Turks and Caicos Iguana Project
- Understanding Interactions of Giraffe, People and Livestock to Develop Community-Based Conservation Projects
- Understanding Public Attitudes Towards the Use of Tiger Parts in Southeast Asia
- West Gate Community Conservancy, Northern Rangelands Trust, Kenya

Western Pond Turtle

Wildlife Conservation Network (WCN) – Ewaso Lions –
Conservation of Kenya's Lions by Promoting Coexistence
Between People and Wildlife

Wildlife Conservation Society (WCS) – Sumatran Tiger
Project

Woolly Monkey Conservation Peru

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

Generated Renewable Energy On-Site

FOOD

Sourced Local Food or Grew It On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Documented Square Footage of Facility With Green Building
Certification

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

Construction Waste Diversion / Recycling

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy / Commitment

Green Information Technology (IT)

Green Purchasing Policy / Green Procurement

Local Food Procurement for Animals and/or Guests

Smart Buildings Systems

Solar or Wind Energy Generation

Wastewater Reduction

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating
Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Noninvasive Reproductive Technology

SAN FRANCISCO ZOOLOGICAL GARDENS

Education Programs

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

Wild Nights

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
 Zooforce
 ZOOMobile, Close Encounters and Biodiversity Basics

Field Conservation

Andean Cat
 Ape Action Africa
 AZA Chacoan Peccary SSP
 AZA FrogWatch USA
 AZA Komodo Dragon SSP
 AZA SAFE – Vaquita Project
 AZA SAFE – Western Pond Turtle Project
 AZA Tiger SSP – Tiger Conservation Campaign
 Cheetah Conservation Fund (CCF)
 Dian Fossey Gorilla Fund International
 Earthwatch Institute
 Fauna and Flora International (FFI) – François’ Langur
 Gorongosa Lion Project
 International Rhino Foundation (IRF)
 IUCN/SSC Conservation Planning Specialist Group (CPSG)
 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
 PAMS Foundation
 Polar Bears International (PBI)
 Red Panda Network (RPN)
 Reintroduction of Western Pond Turtle to Golden Gate National Recreation Area
 San Francisco Forktail Damselfly Project
 Snow Leopard Conservancy (SLC)
 Western Pond Turtle Sex Determination and Headstarting Studies
 Yosemite National Park Conservation Partnership
 Yosemite Toad Rearing

Green Practices

ENERGY

Documented Amount Spent
 Documented Amount Used
 Documented Square Footage of Conditioned Space

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 Fuel Usage for On-Site Fleet
 Alternative Transportation Benefits for Staff
 Alternative Transportation Discounts for Guests
 Commingled Recycling
 Composting On-Site or Off-Site
 Construction Waste Diversion / Recycling
 Graywater Reuse and/or Rainwater Harvesting
 Green Information Technology (IT)
 Local Food Procurement for Animals and/or Guests
 Solar or Wind Energy Generation
 Water-Wise Landscaping

WASTE

Documented Amount Composted
 Documented Amount Recycled
 Documented Amount Sent to Landfill
 Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent
 Documented Amount Used

Mission-Focused Research

Animal Enrichment Initiative: Polar Bear and Lowland Gorilla Projects

Behavioral Assessment of Quality of Life in Aging Zoo Animals

Behavioral Impacts of Time-Delayed Puzzle Feeders on Black Rhino

Conservation Footprint Identification Technique (FIT): A Conservation Partnership Between Captive and Wild Snow Leopards Through Their Footprints

Describing Anticipatory Behavior

Reintroduction of the Western Pond Turtle to Mountain Lake

Risk Assessment for Avian Malaria Transmission in Captive African (*Spheniscus demersus*) and Magellanic (*Spheniscus magellanicus*) Penguins

Risk Assessment of Perianesthetic Mortality in Captive Managed Populations of Chimpanzees (*Pan troglodytes*)

Sequoia Kings Canyon Yellow-Legged Frog Headstart Project

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

The Giraffe Paradox

ZooMonitor

SANTA BARBARA ZOOLOGICAL GARDENS

Education Programs

Adult Volunteer Options

Barnyard Feeding

Behind the Scenes

Camp

Explorer Trips

Giraffe Feeding

Homeschool Science

Keeper Talks

Safaris

School Groups

School Science Night Outreach

Workshops

Zoo Teens

Field Conservation

Amazon Conservation Team

Amphibians of the Los Padres National Forest

Amur Leopard and Tiger Alliance (ALTA)

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)

Local Watershed and Ocean Cleanups

Marine Sampling

Naval Base Ventura County Southwest Pond Turtle Monitoring Program

Oiled Wildlife Care Network (OWCN)

Snow Leopard Trust (SLT)

Southern Sea Otters in the Santa Barbara Channel

The Xerces Society – Western Monarch Thanksgiving Count

Western Snowy Plover Rearing Project

Mission-Focused Research

DNA Testing of Mob of Meerkats to Determine Relatedness and Parentage

Effects of Diet Composition and Feeding Regime Changes on Santa Barbara Zoo Western Lowland Gorilla Behavior

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

What Does the Fox Scat Say? Evolutionary Analyses of Diet, Population Size and Pathogens in the Island Fox (*Urocyon littoralis*)

Zoo Drinking Water Quality Assessment

SEA LIFE CARLSBAD AQUARIUM AT LEGOLAND

Field Conservation

Beach Cleanups

Georgia Sea Turtle Center – Donations

Green Practices

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Community-Based Sustainability Projects

Composting On-Site or Off-Site

Construction Waste Diversion / Recycling

Local Food Procurement for Animals and/or Guests

Water-Wise Landscaping

SEAWORLD SAN DIEGO

Field Conservation

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

Animal Rescue, Rehabilitation and Release

California Wolf Center – Mexican Wolf Fund

Hubbs-SeaWorld Research Institute

Living Coast Discovery Center – San Diego Bay Marine
Debris and Habitat Restoration

Polar Bears International (PBI) – Distributional Shifts in Polar
Bear (*Ursus maritimus*) Subpopulations in the Western
Hudson Bay

Project Wildlife

Rising Tide Conservation

San Diego Turtle and Tortoise Society: Turtle and Tortoise
Rescue, Rehabilitation and Placement Program

Vaquita Conservation, Protection and Recovery (Vaquita
CPR)

Wildlife in Need (WIN) Rescue Center – Enhanced Care for
Rescued and Confiscated Wildlife

Zoological Society of San Diego: From the Ridge to the Reef

SEQUOIA PARK ZOO

Education Programs

Cub Club – Animal Tales

Cub Club – Home Sweet Habitat

Junior Zookeepers – Animedia

Junior Zookeepers – Wildlife Heroes

Field Conservation

Abundance and Distribution of Western Pond Turtles From
North Fork Trinity River to Weitchpec, CA

AZA Chacoan Peccary SSP

Carnivore Tracking Project

Center for Ecosystem Survival (SaveNature.org) – Rainforest
Conservation Parking Meter

Chimp Cents

Invasive Species Removal in Critical Butterfly Breeding
Habitat

Monitoring Disease Threats for the Reintroduction of the
Endangered Iberian Lynx in Extremadura

PAMS Foundation

Porcupine Habitat Selection Northern California Project

Thermal Characteristics of Pacific Marten Habitat and Rest
Structures

Understanding the Influence of Masting Hardwoods on
Tree Squirrel Occupancies and Fisher Habitat Use in N.
California

Vaquita Conservation, Protection and Recovery (Vaquita
CPR)

Green Practices

ENERGY

Documented Amount Spent

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

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting On-Site or Off-Site

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy / Commitment

Stormwater Management Program

WASTE

Documented Amount Composted

Mission-Focused Research

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

STEINHART AQUARIUM**Education Programs**

3D Theater

Careers in Science Interns

Citizen Science

Curiosity Grove

Distance Learning

Docent Engagements

Docent Trainings

Family Programs

Hohfeld Hall

Homeschool Days

Lectures

Morrison Planetarium

NightLife Programs

Online Education Resources

Portable Planetarium Dome

Public Floor Presentations

Self-Guided Student Fieldtrips

Teacher Professional Development

The Naturalist Center

The Rock Program Student Fieldtrips

Tidepool

Youth Programs

Field Conservation

Aquarium Conservation Partnership (ACP)

AZA Conservation Grants Fund (CGF)

AZA SAFE - African Penguins

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 (SCORE)

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

Training Foreign Scientists on Animal Husbandry and Captive Breeding

Twilight Zone Exploration Dive Program

Green Practices**ENERGY**

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

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
 Graywater Reuse and/or Rainwater Harvesting
 Green Building Policy / Commitment
 Green Information Technology (IT)
 Green Purchasing Policy / Green Procurement
 Local Food Procurement for Animals and/or Guests
 Purchasing Green Power or Renewable Energy Credits (RECs)
 Smart Buildings Systems
 Solar or Wind Energy Generation
 Stormwater Management Program
 Wastewater Reduction
 Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices
 Developed or Updated a Sustainability Plan (or Equivalent)
 Developed or Updated a Sustainability Policy

WASTE

Documented Amount Composted
 Documented Amount Recycled
 Documented Amount Sent to Landfill

WATER

Documented Amount Spent
 Documented Amount Used

Mission-Focused Research

Characterization of the Holobiome of Bat Stars (*Asterina miniata*)
 Coral Spawning Lab
 Exploring the Least-Known Coral Reefs: Mesophotic Coral Ecosystem, the “Twilight Zone”
 Husbandry and Captive Breeding of Pygmy Seahorses

New Species From Mesophotic Coral Ecosystems

Oversight of Outside Research Requests by Aquarium Research Committee

Reproductive Biology of Leafy 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 Programs**

Living Desert University
 Me and You at the Zoo
 National Association for Interpretation (NAI) Certification Programs
 Park After Dark
 School Field Trips
 Science, Technology, Engineering and Mathematics (STEM) Programs Scouts and Home School
 Starry Safari
 Teacher/Volunteer and Community Workshops
 Zoo Camp
 Zoo Teen Volunteer Program

Field Conservation

AZA Jaguar SSP – Cockscomb Basin Wildlife Sanctuary (CBWS)
 Black-Footed Cat Field Research in South Africa
 Celebrating Africa’s Giants: Environmental Education for Conservation of Giraffes, Elephants and Rhinoceroses
 Cheetah Conservation Fund (CCF)
 Conserve Namibia’s Desert-Dwelling Giraffes
 Desert Pupfish *Ex-Situ* Refugia Management
 Desert Tortoise Adoption Program
 Desert Tortoise Conservation Education Program
 Grevy’s Zebra Trust – Core Support
 Mecca Aster Propagation and Habitat Restoration Project
 Mexican Wolf Recovery Program
 Mojave River Pond Turtle Conservation Assessment
 Monitoring the Endangered Least Bell’s Vireo at The Living Desert

Native Plant Propagation Project for Restoration in California's Deserts

Operation Twiga

Peninsular Pronghorn Recovery Program

Rebuilding the Pride

Sahara Conservation Fund (SCF)

Save the Vaquita Porpoise

SnapShot Safari at Kenya's Olare Orok Conservancy

Southern Africa Rhino Conservation Program

The California Condor in the Greater Grand Canyon Ecoregion

The Living Desert's Wildlife Rehabilitation Program

Urban Bee Survey

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

Generated Renewable Energy On-Site

FOOD

Sourced Local Food or Grew It On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Energy Submetering

Solar or Wind Energy Generation

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 Policy

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

A Global Survey of Current Housing, Husbandry Practices and the Presence of Abnormal, Unwanted or Stereotypic Behaviour in Zoo-Housed Fossa (*Cryptoprocta ferox*)

Chlamydia in Wild Raptors

Development of an Electroejaculation Protocol for Peccary Species

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

Winter Radio Tracking for Mojave River Western Pond Turtles

TURTLE CONSERVANCY

Field Conservation

Bolson Tortoise

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

Geometric Tortoise Critical Habitat Preservation

Philippine Forest Turtle

Ploughshare Tortoise

Colorado

BUTTERFLY PAVILION

Field Conservation

Big Dry Creek Habitat Restoration

Colorado Butterfly Monitoring Network

Dragonfly Conservation Program

Effects of Bison on Invertebrate Communities in the Southern Great Plains

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 Purchasing Policy / Green Procurement

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

WASTE

Documented Amount Composted

Documented Amount Recycled

WATER

Documented Amount Used

Mission-Focused 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

Education Programs

Animal Care 101

Docent Program

Early Childhood Classes

School Break Zoo Camps

Summer Zoo Camp

Teen Programs – Zoo Crew and Junior Zoo Keeper

The Loft

WildNights

Zoo Explorations Tours

ZOOMobile

Field Conservation

African Vulture Conservation

AZA SAFE

AZA SAFE – Vaquita Porpoise

Black-Footed Ferret Recovery Program

Borneo Orangutan Survival Foundation (BOS)

Giraffe Conservation Foundation (GCF)

HUTAN-Kinabatangan Orangutan Conservation Project

Kalaweit

Mountain Tapir Habitat Ecology in Ecuador

Okapi Conservation Project

Palm Oil Crisis and Orangutan Conservation

Panama Amphibian Rescue and Conservation (PARC)

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

Tsavo Trust: African Elephant and Black Rhino Conservation in Kenya

Wildlife Conservation Network (WCN) – Ewaso Lions

Wyoming Toad Recovery

Mission-Focused Research

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

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

Giraffe Thermography: Assisted Lameness Management

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

Wyoming Toad Vitamin A Level Monitoring With Different Vitamin Supplement

DENVER ZOO

Education Programs

Advanced Inquiry Program (AIP)

ASK Me's

Assemblies

Be a Zookeeper Zone

Booths

Bunks

Camps and Mini-Camps

Career Discovery Day

Career Lab

Community Leadership Programs and Service-Learning Programs

Docent Volunteer Training

Early Explorer Expedition Classes

Explore the Shore

General Meetings

Giraffe Encounter

Guest Assistance Ambassadors

Guide Stations – Adult and Teen Led

Guide Volunteer Training

High School Internship-Training

Keeper Experience

Lorikeet Adventure

Meet an Ambassador Animal

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 and 2)

Skill-Based / Continuing-Ed Trainings

Tours

Up-Close Animal Encounters

Urban Advantage Family Science Events

Urban Advantage Field Trips

Volunteer Scoop Electronic Newsletter

Young Scientists

Zoo Crew Newsletter

Zoo Crew Volunteer Training

Zoo Ed-Venture Treks

Zoo Ed-Ventures

Field Conservation

Amphibian Conservation Education in Peru

Amphibians of the Altiplano

AZA Tiger SSP – Tiger Conservation Campaign

Bolivian Amphibian Initiative

Boreal Toad Breeding and Inventory Surveys and Habitat Restoration

Botswana Lion Research and Conservation

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 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 White-Tailed and 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 for the Rio Mora National Wildlife Refuge

General Mongolia Program Support

General Program Support for the Rocky Mountain/Great Plains Region

Graduate Student Fellowships

Great Lakes Piping Plover Recovery Effort – Northern Michigan

Ibex Ecology and Conservation

IdeaWild

Ikh Nart Education and Outreach Program

Ikh Nart Nature Reserve Vegetation Map

International Elephant Foundation (IEF)

International Rhino Foundation (IRF)

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

Malagasy Fish Conservation

Mariana Avifauna Conservation (MAC) Project

Mongolian Gazelle Conservation

Mongolian Nomadic Conservation Trunk Program

Mongolian Raptors Project

Mongolian Reptile Ecology Research

Polar Bears International (PBI)

Restoring the Mora River

Rio Mora Conservation Outreach

Rio Mora Vegetative Restoration

Seafood Watch – Conservation Outreach Partner

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

Wildebeest Conservation in Botswana

Witness for Wildlife Program in Colorado – Wildlife Corridors Programs

Zoos and Aquariums Committing to Conservation (ZACC) – Support

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

FOOD

Sourced Local Food or Grew It On-Site

GREEN CERTIFICATIONS

Certified Under ISO 14002

Documented Square Footage of Facility With Green Building Certification

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

Community-Supported Agriculture (CSA) Program for Staff

Green Information Technology (IT)

Green Purchasing Policy / Green Procurement

Local Food Procurement for Animals and/or Guests

Stormwater Management Program

Usage of Enterprise (IT) Solutions To Track, Measure and Dashboard Sustainability Performance

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Anti-Müllerian Hormone (AMH) as an Indicator of Ovarian Reserve in Gorillas (*Gorilla gorilla*) in Captivity

Assessing the Efficacy of Improvest® in Female Giraffe

AZA African Painted Dog SSP – Genetic Study

AZA Polar Bear SSP – Necropsy Protocol

AZA Western Lowland Gorilla SSP – Oxytocin as a Measure of Social Bond and Welfare in Western Lowland Gorillas in North American Zoos

Behavioral Assessment of Zoo-Housed Felids

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

Conservation Education Relevancy of African and Asian Elephants in Zoos

Constraints of Biomass on Innate Immunity Across Terrestrial Mammals

Crane Semen Cryopreservation Study

Determination of Circulating Vitamin and Mineral Levels in Captive Saddle-Billed Storks (*Ephippiorhynchus senegalensis*) as It May Relate to Reproductive Success and Embryonic Development

Developing New Tools for Integrating DNA Data Into AZA Breeding Programs

Development of a Database of Fetal Ultrasound Measurements for the Creation of Orangutan-Specific (*Pongo* spp.) Growth Curves and Determination of Parturition Dates

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

Genetic Analysis of the US Population of Baer's Pochard for Improved Captive Management

Genetic and Endocrine Predictors of Reproductive Success in African Painted Dogs

Improvement of the Diagnosis of Aspergillosis in Penguins

Influence of Male Physiology and Environmental Factors on Breeding Success and Population Sustainability for Zoo Managed Snow Leopards (*Panthera uncia*)

Longitudinal Assessment of Gorilla (*Gorilla gorilla gorilla*) Fecal Microbiome Populations

Measurement and Comparison of Intraocular Pressure in Multiple Species of Amphibians

Prevalence, Risk Factors and Survival of Zoo Animals With Cancer

Retrospective Analysis of Mortality in Captive Bongo (*Tragelaphus eurycerus*), 1995 – 2015

Stem Cell Therapy for Giraffe Orthopedic Disease

LANDRY'S DOWNTOWN AQUARIUM – DENVER

Education Programs

Behind the Scenes Public Tours

Classroom Programs

College Internship Program

Distance Learning Teleconference Classes

Homeschool Day

Outreach Classroom Programs

Public Animal Feedings

Public Interpretation and Carts

River Clean-Ups

Scout Badge Workshops

Sea Safari Summer Camp

Self-Guided Tours

Special Public Program Events

Teacher Loaner Boxes

Teacher Workshops

Volunteer/Intern Training and Continuing Education

Wild Dreams Overnights

Youth Career Workshops

Field Conservation

Birds of Prey Foundation

Fins Attached

Owl's Nest Rescue and Rehabilitation

Rocky Mountain Raptor Center

Wildlife Alliance – Radio Collars

PUEBLO ZOO

Education Programs

African Food Chains

Amazing Adaptations

Amazing Arthropods

Animal Encounters

Animal Growth and Development
 Bats Beyond Belief
 Coats and Colors
 Colorado Food Chains
 Conservation Concepts
 Literacy to Life – Kindergarten
 Literacy to Life – Pre-Kindergarten 3 Year Olds
 Literacy to Life – Pre-Kindergarten 4 Year Olds
 Speaker Series
 Summer Camp
 Vertebrate Adaptations
 Zoo ALIVE
 Zoo Tour

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)

Mission-Focused Research

Oral Progestin Down-Regulation for Oviductal Artificial Insemination in Pallas's Cats

Media Special
 Trout in the Classroom
 Wild Assembly
 Zoo 4-H Club
 Zoo Crew
 Zoo Kids Biodiversity
 Zoo Mobile
 Zoo Patrol
 Zoo Tots
 Zoo Volunteers: Friends and Docents

Field Conservation

Amur Leopard and Tiger Alliance (ALTA)
 AZA Chacoan Peccary SSP – Chaco of Paraguay
 AZA Tiger SSP – Tiger Conservation Campaign – Anti-Poaching Activities
 Conservation Discovery Corps – Invasive Plant Removal
 Eastern Pearl Shell Mussel Population Monitoring
 Jacksonville Zoo Giant Armadillo Conservation Project
 Pequonnock River Fish Counts
 Piping Plover Monitoring
 Tapir Symposium
 Trout in the Classroom
 Turtle Survival Alliance (TSA)

Mission-Focused Research

Behavior Study of Female Giant Anteater and Offspring to Identify and Mitigate Acoustic Stress in Relation to Neonatal Vocalizations
 Reduction of Aggression in a Captive Prairie Dog Colony Through Observation and Underground Burrow Mapping
 Resident Population Canada Goose Banding

Connecticut

CONNECTICUT'S BEARDSLEY ZOO

Education Programs

Animal Encounters
 AZA FrogWatch USA
 Beardsley Zoo's Wild Adventure Show
 Birthday Party Animal Encounter
 Career Talk
 Conservation Discovery Corps
 Explorers
 Fairs and Festivals
 Family Resource Center (FRC) Tots Program
 Hay Ride Zoo Tours

MARITIME AQUARIUM AT NORWALK

Education Programs

Camp Programs
 Citizen Science
 Floor Education Programs
 Maritime Odyssey Preschool
 R/V Spirit of the Sound – Vessel Programs

School Programs

Scout Programs

Sleepover Programs

Sound Resilience – Get On Board!

Special Event Days – Sensory Friendly Mornings, Earth Day,
World Oceans Day and More

Teacher Professional Development

TeMPEST: Teen Maritime Program Emphasizing Science and
Technology

Field Conservation

AZA FrogWatch USA

Long Island Sound Biodiversity Project

Osprey Nation

Project Limulus

Sand Tiger Shark Conservation

Sea Turtle Conservation

Trout in the Classroom

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

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

Solar or Wind Energy Generation

Wastewater Reduction

PLANS, POLICIES AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

WASTE

Documented Amount Sent to Landfill

Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Effects of Climate Change Conditions on Animals:
Freshwater

Effects of Climate Change Conditions on Animals: Marine

Invasive Species Monitoring

MYSound Buoy Network

Ocean Soundscapes

Phytoplankton Monitoring Network

Unified Water Study

MYSTIC AQUARIUM

Education Programs

Autism Night

Birthday Parties

Career and Science, Technology, Engineering and
Mathematics (STEM) Days

Citizen Science

Classroom Programs

Coastal Field Studies

Conservation Club

Conservation Events

Distance Learning

Internships and Seminars

Outreach Programs

Overnights

School / Youth Group Exhibit Talks and Animal Interactions

Science, Technology, Engineering and Mathematics (STEM)
Mentoring

Sea School Preschool

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

Behavioral Responses of Beluga Whales (*Delphinapterus leucas*) to Environmental Variation in an Arctic Estuary

Coastal Marine Debris Removal Events

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

Ecology of Submarine Canyons and Seamounts Off the Northeast United States

Habitat Restoration of Dodge Paddock and Beal Preserve

Health Assessment of Belugas in the Chukchi Sea and Bristol Bay

Horseshoe Crab Monitoring

Influence of Temperature, Salinity and Dissolved Oxygen on the Stress Response of Bull (*Carcharhinus leucas*) and Bonnethead (*Sphyrna tiburo*) Sharks After Capture and Handling

Long Island Sound Coastal Field Studies

Pathogenesis of an Emerging Snake Fungal Disease in Connecticut

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

The Physiological Stress Response, Postrelease Behavior and Mortality of Blacktip Sharks (*Carcharhinus limbatus*) Caught on Circle and J-Hooks in the Florida Recreational Fishery

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

FUEL

Documented Amount Spent

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Green Information Technology (IT)

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

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

Determination of a Suitable Dilution Marker in Blow

Discovering the U.S. Marine Aquarium Industry

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

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

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

Research and Development of Aquaculture Techniques for Marine Ornamental Fishes

Sustainable Sourcing of Aquatic Species for Mystic Aquarium

Delaware

BRANDYWINE ZOO

Education Programs

Animal Shows and Informal Interpretation

Family Programs

Scout Programs

Special Events

Traveling Zoo

Zoo Camp

Zoo School

Green Practices

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Green Purchasing Policy / Green Procurement

Water-Wise Landscaping

District of Columbia

SMITHSONIAN NATIONAL ZOOLOGICAL PARK

Education Programs

Adult Education Courses

Animal Demonstrations

Children's Classes

Day Camps

Education Days

Homeschool Classes

Overnights at the Zoo

Residential Camp

School Outreach

School Programs

Smithsonian Conservation Biology Institute (SCBI) Facility Tour

Video Podcasts: The Secret World of Zoo Jobs

Volunteer Interpreter Program

Word Expeditions

Zoo Tours

Field Conservation

Anti-Poaching Patrols in the Gambia Area

Black-Footed Ferret Reintroduction Population Survey

Cheetah Population Survey in Kenya

Conservation of Dholes in Thailand

Conservation of Ostrich in Niger, Africa for Reintroduction

Disease Survey in Free-Ranging Warthogs (*Phacochoerus africanus*)

Gabon Biodiversity Program

Improving Elephant Endotheliotropic Herpesviruses (EEHV) Diagnostic and Research Capacity in Southeast Asia With a Series of Training Workshops

Jaguar Workshop in Paraguay

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

Recovery of the Endangered Black-Footed Ferret

Relationship Between Genetics, Stress and Amyloid A (AA) Amyloidosis Prevalence in Cheetahs

Salamanders' Response to Soil Freezing

Save the Golden Lion Tamarin

Understanding the Biology and Ecology of Dholes in Thailand

ZooFari Direct Grant to Associação Mico Leão Dourado to Conserve Golden Lion Tamarin Habitat

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

Composting On-Site or Off-Site

Construction Waste Diversion / Recycling

Graywater Reuse and/or Rainwater Harvesting

Green Information Technology (IT)

Smart Buildings Systems

Solar or Wind Energy Generation

Stormwater Management Program

Wastewater Reduction

Water Submetering

Water-Wise Landscaping

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

Reported Greenhouse Gas Emissions to a Climate Registry

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

Mission-Focused Research

A Behavioral Study of Kori Bustards at the Smithsonian National Zoological Park

A Behavioral Study of the Greater Rhea at the Smithsonian National Zoological Park

A Search for Chemical Signals in Orangutans (*Pongo* spp.)

Activity Budget, Weight Management and Light Cycles of Captive Ruby-Throated Hummingbirds

Amphibian Component of the Loubomo-Mougagara Biodiversity Assessment

An Interdisciplinary Approach (Endocrine and Behavioral) to Assess the Impact of Cub Separation and Adult Breeding Behavior in Andean Bears

Andean Bear Workshop in Peru

Anesthesia Induction and Maintenance in Adult Arapaima (*Arapaima gigas*)

Anesthesia Study Evaluating the Use of Etorphine and Azaperone Combination in Free-Ranging Warthogs (*Phacochoerus africanus*)

Asian Water Dragon Parthenogenesis

Assessing Impact of Facility and Management Changes on Elephant Behavior

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

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

Breeding Ecology and Population Status of the Island Scrub-Jay

Calcinosis Circumscripta in a Cohort of Related African Lions (*Panthera leo*)

Captive Orangutan Dentition Emergence

Clinical Challenge: Diagnosis of Coenurosis (*Taenia brauni*) and Cecolith in a Malagasy Giant Jumping Rat (*Hypogeomys antimena*)

Cognition With Asian Elephants: Field and Captive

- Cognitive Bias in Apes: Comparisons Across and Within Species
- Comparison of Guaifenesin, Ketamine and Medetomidine Constant Rate Infusion With Isoflurane Gas for Anesthesia Maintenance in American Black Bears (*Ursus americanus*)
- 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 Dama Gazelle
- Conservation of Persian Onager
- Conservation of Przewalski's Horse
- Conservation of Scimitar-Horned Oryx
- Conservation Partnership for the Painted Bunting
- Conserving Coral Reefs
- Crocodile Monitoring Program in the Wider Gamba Area, Gabon
- Cuban Crocodile Social Behavior: Vocalizations
- Density Dependence During the Non-Breeding Season and the Regulation of Migratory Bird Populations
- 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 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
- Diversity of the Terrestrial Small Mammal Community in the Amarakaeri Communal Reserve
- DNA Testing of Mob of Meerkats to Determine Relatedness and Parentage
- Effects of a Recurring Late Night Event on the Behavior and Welfare of a Population of Zoo-Housed Gorillas
- Effects of Climate and Biotic Factors on Abundance, Demography and Behavior of Forest Birds
- Elucidating Spermatozoal Energy Metabolism and Metabolic Dysfunction in Felids and Teratospermic Species
- 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 Hormones in Captive Crocodiles
- Evaluating the Addition of Automatic Feeders on Asian Elephant (*Elephas maximus*) Behavior and Welfare
- Evaluating Weight During Pregnancy
- Examination of Ovarian Stimulation Protocol and Semen Deposition Location to Increase Artificial Insemination Success in Felids
- Experience the Migration of Brown Pelicans of the Disappearing Islands of the Chesapeake Bay
- Extending the Fertility of Aging Female Cheetahs to Improve Population Genetic Health
- Forest Elephant Monitoring in Gamba, Gabon
- Full Life Cycle Vulnerability Assessments for the Birds of the Upper Midwest Great Lakes Region
- Genomics of Endangered Ungulates
- Giant Panda Cub Development
- Giant Panda Estrus Watch and Pregnancy / Birth Watch
- Health Assessments of Zoo Asian and African Elephants in the US
- Husbandry, Nutrition and Veterinary Care of Song Sparrows
- 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
- Impact of a Natural Gas Exploratory Well on Scarab Beetles and Ichneumon Wasps of the Amarakaeri Communal Reserve
- Impact of a Natural Gas Exploratory Well on the Amphibian Community of Amarakaeri Communal Reserve
- Impact of a Natural Gas Exploratory Well on the Avian Community of Amarakaeri Communal Reserve
- Impact of a Natural Gas Exploratory Well on the Large Mammal Community of the Amarakaeri Communal Reserve

- Impacts of Dam Removal on Dippers and River Otters
- Influence of Gonadotropin Stimulation on Anti-Müllerian Hormone (AMH) Concentrations in Female Cheetahs
- 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 Into a Novel Skin Disease in Black Rhinos in Kenya
- 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
- Investigation of Wild Kori Bustard (*Ardeotis kori*) Health and Physiology in Kenya
- Life-Cycle Population Modeling for Select Species
- Local Adaptation in Channel Island Song Sparrows
- Longitudinal Changes in Milk Composition in Orangutans
- 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
- Managing Sociality of a Captive Female Bornean Orangutan From Breeding to Postpartum at the Smithsonian's National Zoo
- Measurement of Lactate Levels Three Ways During Anesthesia of American Black Bears (*Ursus americanus*)
- Measuring the Effect of Guest Interactions in a Stanley Crane Using Hormone Analysis and Behavior Monitoring
- Migration in Green Darner Dragonflies
- Migratory Connectivity and At-Sea Distribution of Bahamian Seabirds
- Migratory Connectivity in the Ocean
- Migratory Connectivity of the Birds of North America
- Multitrophic Consequences of Novel Plant Assemblages in Urban Ecosystem
- 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 Gorillas (*Gorilla gorilla gorilla*) in North American Zoos
- PREDICT Myanmar
- Rabi Forest Monitoring Plot
- Radio-Collar Tracking of Indian Flying Fox in Myanmar
- 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
- RNA Viral Evaluation From Non-Invasive Pooled Sampling of Bats in Myanmar
- 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
- Social Learning in Giant Pandas
- Source-Sink Dynamics and Population Ecology of the Wood Thrush
- 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 Energetic Cost of Motherhood in Bornean Orangutans
- The Migratory Connectivity Project
- The Orangutan Conservation Genetics Project
- Tool Use in Giant Pandas
- 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 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 Basic Reproductive Biology of Asian and African Elephants for Management and Conservation

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 Local and Landscape Predictors of Bird Diversity and Abundance in Agricultural Landscapes

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)

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*)

Florida

BREVARD ZOO

Field Conservation

Asociación de Rescate y Conservación de Vida Silvestre (ARCAS) – Wildlife Rescue and Conservation Association

AZA Jaguar SSP

AZA Komodo Dragon SSP

AZA SAFE – Sharks and Rays

Biodiversity Conservancy Nepal (BioCoN)

Biodiversity Education and Research (BEAR)

Bluefields Bay Fishermen's Friendly Society (BBFFS)

Brevard Zoo's Sea Turtle Healing Center

Bridges

Conservación, Naturaleza y Vida (CONAVI)

Conservation Fusion (CF)

CrocFest

Florida Scrub Jay Translocations and Monitoring

Florida Wildlife Hospital and Sanctuary

Foundation for Ecodevelopment and Conservation (FUNDAECO)

Friends of Nature (FON Nepal)

Giraffe Conservation Foundation (GCF)

Gorilla Rehabilitation and Conservation Education (GRACE) Center

Hutan: Asian Elephants

Indonesia Species Conservation Program (ISCP)

Monofilament Recovery and Recycling Program (MRRP)

National Museums of Kenya

Oyster Reef Restoration Project: Gardening

Perdido Key Beach Mouse Breeding Program

Restore Our Shores

Save the Frogs!

Save the Snakes

Sea Turtle Research: Inwater Research Group

Snow Leopard Trust (SLT)

Vaquita Conservation, Protection and Recovery (Vaquita CPR)

Viviendo con Felinos – Northern Jaguar Project

Watamu Turtle Watch

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

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Discounts for Guests

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Composting On-Site or Off-Site

Graywater Reuse and/or Rainwater Harvesting

Green Information Technology (IT)

Smart Buildings Systems

Solar or Wind Energy Generation

Stormwater Management Program

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Behavioral Monitoring of Resident Animals at Brevard Zoo

Color Vision in Spider Monkeys (*Ateles geoffroyi*)

Computerized Cognitive Testing

Factors Influencing the Welfare of Ungulates

Numerosity in Spider Monkeys (*Ateles geoffroyi*)

Python Camera Project

Relation of Hierarchy and Weight Changes to Social Turmoil in Common Squirrel Monkeys (*Saimiri sciureus*)

BUSCH GARDENS TAMPA BAY

Field Conservation

Busch Gardens Tampa Bay – Animal Rescue and Rehabilitation Program

Canines for Conservation – Disrupting Wildlife Trafficking

Cheetah Conservation Fund (CCF) – Saving Cheetahs in the Illegal Pet Trade

Conservation of the Rothschild's Giraffe in Murchison Falls Conservation Area, Uganda

Dian Fossey Gorilla Fund – Continued Protection of Grauer's Gorilla Populations in Eastern Congo From Bushmeat Hunting

Direct Protection to Endangered Wildlife and Its Cardamom Rainforest Habitat

Emerging Wildlife Conservation Leaders

Enhancing Frontline Protection of the Critically Endangered Ploughshare Tortoise

Farming Coffee to Conserve Chimpanzees and Forests in Uganda

Friends of Bonobos – A Flagship Species for Democratic Republic of the Congo's Biodiversity

Fundación Proyecto Tití – Effective Methods to Engage Youth in Cotton-Top Tamarin Conservation Efforts

Fundación Proyecto Tití – Promoting Forest Connectivity to Support Cotton-Top Tamarin Conservation in Northern Colombia

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

Mabula Ground Hornbill Project (MGHP)

New Nature Foundation (NNF) – Community Empowerment and Conservation in Uganda

Okapi Conservation Project – Building Upon Increased Capacity of Wildlife Rangers in the Okapi Wildlife Reserve

Painted Dog Conservation (PDC): Bush Camp

Pantanal Giant Armadillo Project

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

South African Wildlife College (SAWC) – A Four-Tiered Approach to Impact Rhino Poaching

Taking Flight

Tampa Bay Watch – Great Bay Scallop Search

Tampa Bay Watch – Marine Debris Solutions

Vina Wildlife Foundation – Rehabilitation of Elephant, Gorilla and Chimpanzee Poachers Into Alternative Professions

WeForest

Wild Earth Allies (Fauna and Flora) – Asian Elephant Conservation in Cambodia

Wilderness Foundation Africa – Forever Wild Conservation Programme

Wildlife Alliance – Kouprey Express Environmental Education and Outreach

CENTRAL FLORIDA ZOO AND BOTANICAL GARDENS

Education Programs

Animal Encounters

Bat House Building Workshop

Central Florida Zoo After Dark – Nighttime Safaris

Community Outreach

Cub Scout and Boy Scout Programs

Curriculum Programs

Florida Black Bear Awareness Program

Girl Scout Programs

Guided Tours

Homeschool Family Workshops

Homeschool ZOOventure Classes

Master Naturalist

Night Hike

Preschool Programs

Storytime

Summer Camps

Wild Art and Wine

Wild Florida Adventure

Zoo to You Programs

Field Conservation

Central Florida Zoo's Orianne Center for Indigo Conservation

International Rhino Foundation (IRF)

Zoo Conservation Outreach Group (ZCOG)

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Construction Waste Diversion / Recycling

Graywater Reuse and/or Rainwater Harvesting

Solar or Wind Energy Generation

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Ecological and Psychological Implications of Liminal Spaces: A Study in Soundscape Ecology and Conservation

Evaluating the Validity of Portable Biochemical Analyzers in Eastern Indigo Snakes (*Drymarchon couperi*)

Seasonal Effects on Blood Parameters in Eastern Indigo Snakes (*Drymarchon couperi*)

DISNEY'S ANIMAL KINGDOM

Education Programs

Backstage Safari
 Backstage Tales
 Behind the Seeds Tour
 Caring for Giants
 Community Hospital Program
 Conservation Day Camp – Summer
 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 and Conservation Education Center (GRACE)
 Onstage Guest Activities
 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
 Wanyama Safari
 Weekly Sea Turtle Guest Presentation – Vero Beach
 Wild Africa Trek and Savor the Savanna
 Wilderness Explorers
 Youth Education Series (YES) Programs

Field Conservation

Archie Carr National Wildlife Refuge – Education Program
 Association of Zoological Horticulture (AZH) – Plant Conservation Grant Program
 Audubon Canyon Ranch – Mountain Lion Project
 Audubon Florida – Jay Watch Citizen Science Program
 AZA Conservation Grants Fund (CGF)
 AZA Guam Rail SSP – Pre-Release Quarantine Program
 AZA SAFE

AZA SAFE – Vaquita
 Birds of Prey Center – Event Support
 Black Lion Tamarin Conservation in a Fragmented Landscape
 Building Communities That Conserve Wetlands
 California Condor Nest Guarding Program
 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
 Conservation Hero – Ana Isabel Arroyo
 Conservation Hero – Cristian Ramirez
 Conservation Hero – Edwin Kynyanjui
 Conservation Hero – Ernest Bekarany
 Conservation Hero – Giyanto “Gigi”
 Conservation Hero – Hoang Van Tue
 Conservation Hero – Jose Vallejos
 Conservation Hero – Mary Pringle
 Conservation Hero – Michael Howard
 Conservation Hero – Msafiri Mgumba
 Conservation Hero – Ngeeti Lempate
 Conservation Hero – Parag Jyoti Deka
 Conservation Hero – Rocio Palacios
 Conservation Hero – Ruben Cueva
 Conservation Hero – Saroj Shrestha
 Conservation Hero – Victor Chibaya
 Conservation Hero – Zama Ncube

Conservation of Sumatran Elephants	Mariana Avifauna Conservation (MAC) Project
Conserving Breeding Shearwaters in Oahu	Mitigating the Impact of Climate Change for Wildlife and People in the Mizque River Basin of Bolivia
Conserving India's Lion-Tailed Macaques	National Wildlife Federation (NWF) – Kids and Families Outreach – Be Out There
Conserving Rhinos Through Community Engagement	Northern Tanzania Big Cats Conservation Initiative
Conserving the Cao Vit Gibbon	Okapi Conservation Project
Dian Fossey Gorilla Fund International – Support and Board Member	Orangutan Research, Education and Conservation
Disney's Wildlife Monitoring Program	Pacific Island Avifauna Health Assessment
Disneynature Born in China: Supporting Snow Leopards and Pandas in China	Pantanal Giant Armadillo Project
Disney's Imperiled Species Conservation Program	Protecting Habitat From Pine Beetle Outbreak
Drone Monitoring of Grevy's Zebra Habitat	Protecting Mongolia's Endangered Snow Leopard
Eastern Caribbean Offshore Islands Network	Purple Martin Migration and Nesting Research
Emergency Funding to Address Wildfire in Spectacled Bear Habitat in Peru	Rare Plant Restoration and Research
Emergency Vaccination of African Wild Dogs	Rehabilitation and Release for Disneyland Resort (DLR) Animals
Expanding Critical Habitat Conservation: Vietnam	Restoring the Pygmy Hog
Expanding Orangutan Habitat Conservation	Reverse the Decline – African Apes
Gopher Tortoise Conservation Program	Reverse the Decline – Conservation and Recovery of At-Risk Butterflies
Gorilla Rehabilitation and Conservation Education (GRACE) Center	Reverse the Decline – Developing a Strategy to Reverse the Decline of the Critically Endangered Sumatran Rhinoceros
Grassroots Conservation of Rare Turtles in Metro-Boston	Reverse the Decline – Monkeys: Expanding Education and Outreach for Proyecto Tití
Grauer's Gorilla Conservation Through Education	Reverse the Decline – Monkeys: Golden Lion Tamarin Integrated Conservation
Great Lakes Piping Plover Recovery Effort	Reverse the Decline – Recovery Program for Siberian Cranes
Guatemalan Endangered Reptile Awareness Program	Reverse the Decline – Reversing the Decline of the Critically Endangered Sumatran Tiger
Harlequin Conservation in Costa Rica	Reverse the Decline – Saving Africa's Elephants
Indian Turtle Conservation Program	Rewilding Australia With Tasmanian Devils
International Emergency Relief Network and Response Fund	Sahara Conservation Fund (SCF)
International Iguana Foundation (IIF) – Support and Board Member	Save the Elephants – Elephants and Bees
IUCN/SSC Conservation Planning Specialist Group (CPSG)	Saving Maine's Migratory Seabirds
Jane Goodall Institute – Roots and Shoots	Saving the Ploughshares From Extinction
Javan Loris Community Conservation Project	Species Survival Commission Support
Jersey Shore Terrapin Conservation Project	Thames European Eel Conservation Project
Landscape Level Bird Habitat Conservation	Towards Black-Capped Petrel Conservation
Long-Term Monitoring Program and Experimental Training for Students (LiMPETS) Program	Transforming Indonesia's Forest Management Paradigm
Lowland Tapir Conservation Initiative – Pantanal Tapir Program	Turtle Survival Alliance (TSA)
Mabula Ground Hornbill Project (MGHP)	

Typhoon Lionrock Threatens Tiger Habitat
 Umbrellabird Conservation in the Chocó, Colombia
 Urban Oases for Migrating Songbirds
 Viviendo con Felinos – Northern Jaguar Project
 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 CERTIFICATIONS

Obtained Zero Waste Certification From the US Zero Waste Council

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet
 Alternative Transportation Benefits for Staff
 Anaerobic Digester Energy Generation
 Building Energy Management
 Carbon Offset Purchase for On-Site Utility Use
 Commingled Recycling
 Community-Based Sustainability Projects
 Composting On-Site or Off-Site
 Construction Waste Diversion / Recycling
 Energy Submetering
 Graywater Reuse and/or Rainwater Harvesting
 Green Purchasing Policy / Green Procurement
 Greenhouse Gas (GHG) Inventory
 Local Food Procurement for Animals and/or Guests
 Purchasing Green Power or Renewable Energy Credits (RECs)

Solar or Wind Energy Generation
 Stormwater Management Program
 Usage of an Environmental Management System
 Usage of Enterprise (IT) Solutions To Track, Measure and Dashboard Sustainability Performance
 Water-Wise Landscaping

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions
 Reported Greenhouse Gas Emissions to a Climate Registry

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices
 Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices
 Developed or Updated a Sustainability Plan (or Equivalent)
 Developed or Updated a Sustainability Policy
 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

Mission-Focused Research

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

Elephants and Bees: Reducing Human-Elephant Conflict in Kenya

Evaluation of a Single Intratesticular Injection of Zinc Gluconate Neutralized by Arginine (Zeuterin™) as a Chemical Sterilant in Male Impala

Expansion and Animal Monitoring Initiative

Giraffe Grazing Behavior and Fecal Parasite Loads After Supplementary Plantings

Gopher Tortoise Management and Conservation

Historical and Contemporary Genetic Diversity in a Captive Population Prior to Reintroduction

Hybridization Within the North American Population of Wildebeest (*Connochaetes taurinus*)

Investigating Decision-Making and Perception in Box Turtles

Investigation of Parental Investment and Genetic Relatedness of Carmine Bee-Eaters

Juvenile Gibbon Hormone Change in Relation to Color Phase Change

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 the Sensory Environments of the Walt Disney Company Collection Animals

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

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

Reintroduction of the Mandrill: Stress Hormone Study

Serum Osmolality in Captive African Elephants (*Loxodonta africana*)

Use of Radio-Frequency Identification (RFID) Technology to Study the Reproductive Biology of an *Ex-Situ* Colony of Northern Carmine Bee-Eaters (*Merops nubicus*)

Wildlife Monitoring Program: Monitoring the Status of Butterflies and Birds Found in the Wildlife Management and Conservation Area

JACKSONVILLE ZOO AND GARDENS

Education Programs

4D Theater

Adult Programs – Osher Lifelong Learning Institute (OLLI)

AfterDark Adventures – Education

Animal Encounters

Day Camps – Fall, Winter, Spring and Summer

Early Childhood Programming – Natures Newbies

Early Childhood Programming – ZooTots

Exhibit Guide Interpretation Stations

Field Trips

Garden Workshop Saturday Tour

Homeschool Zoocademy

Keeper for the Day

Membership Event – After-Dark Program

Membership Event – Movie Nights

Nature Play Space(s)

Northeast Florida Chapter FrogWatch USA

Outreach Programming

River Quest – A Scenic River Cruise

Train

WILD Program

Young Birders Club

Field Conservation

Australian Rainforest Trust

AZA Komodo Dragon SSP

AZA SAFE

AZA SAFE – Vaquita

Belize Foundation for Research and Environmental Education (BFREE)

Bonobo and Congo Biodiversity Initiative (BCBI)

Carnivorous Plant Outplanting

Chapman's Fringed Orchid

Cheetah Conservation Botswana

Chytrid Fungus Study
 Dian Fossey Gorilla Fund International
 Fundación Biodiversa Colombia
 Giant Armadillo Project
 Giraffe Conservation Foundation (GCF)
 Gorilla Rehabilitation and Conservation Education (GRACE) Center
 Grevy's Zebra Trust
 Indonesia Initiative
 Institute for Regional Conservation
 International Elephant Foundation (IEF)
 International Rhino Foundation (IRF)
 IUCN/SSC Asian Wild Cattle Specialist Group – Saola Working Group
 Jane Goodall Institute – Mandrill Reintroduction
 Land Snakes Alive
 Longleaf Alliance
 Lost Orchids of South Florida
 Lowland Tapir Conservation Initiative
 Madagascar Fauna and Flora Group (MFG)
 MarAlliance
 Marine Mammal Rescue Program
 Okapi Conservation Project
 Pollinator Partnership
 Puerto Rican Crested Toad Field Conservation Project
 Right Whale Project
 Ruaha Carnivore Project (RCP)
 Rupununi Region Jaguar Project
 Sahara Conservation Fund (SCF)
 Southern African Foundation for the Conservation of Coastal Birds (SANCCOB) – African Penguin Rescue Campaign
 Striped Newt (Western Clade) Breeding and Reintroduction Program
 Three-Wattled Bellbird Research
 Turtle Survival Alliance (TSA) – Turtle Survival Center
 Wood Stork Conservation Project and Partnership
 Zoo Conservation Outreach Group (ZCOG) – Anteaters and Highways
 Zoo Conservation Outreach Group (ZCOG) – Scholarship Program

Mission-Focused Research

Artificial Insemination for White Rhinoceros

LEMUR CONSERVATION FOUNDATION

Education Programs

Ako Conservation Education Program

Open House

Field Conservation

Field Training Programs for Malagasy Conservationists

Madagascar Fauna and Flora Group (MFG)

Park Protection and Basic Infrastructure for Anjanaharibe-Sud Special Reserve, Madagascar

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

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

Local Food Procurement for Animals and/or Guests

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

WASTE

Documented Amount Spent on Landfill Waste

Mission-Focused Research

Eastern Kentucky University Field School
Florida Gulf Coast University Field School

LION COUNTRY SAFARI

Education Programs

An Animal Tale
Animal Adaptations I
Animal Adaptations II
Animal Senses
Animal Theater Shows
Backyard Florida General Scout Program
Backyard Habitat
Bear: Critter Care
Bear: Fur, Feathers and Ferns
Biofact Display
Boy Scout Bird Study
Boy Scout Mammal Study
Brownie – Bugs
Brownie – Outdoor Adventurer
Brownie – Pets
Brownie – Senses
Cadette – Animal Helpers
Cadette – Naturalist-Trees
Careers in Zoos
Classification I
Classification II
Conservation
Daisy – Between Earth and Sky
Daisy – Three Cheers for Animals
Dinosaurs
Ecology
Enrichment
Exhibit Talks
Fall Toddler Programs
Food Chain
Fur, Feathers and Scales
Girl Scout General Program – Animals

Habitats I

Habitats II

Habitats III

Junior – Animal Habitats

Junior – Detectives

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

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

Friends of MacArthur Park

Giraffe Conservation Foundation (GCF) – Giraffe Painting/
Experience

International Rhino Foundation (IRF)

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Pan African Sanctuary Alliance (PASA)

Shirts for Species

Source Population Alliance (SPA)

Mission-Focused Research

AZA Common Waterbuck SSP – Waterbuck DNA Collection
Blackbuck Goiter Review
Blackbuck Microchip Loss
Canine Fractures in Great Apes

Chimpanzee Anesthesia Study
 Chimpanzee Swelling With Stress
 Chimpanzee WelfareTrak®
 Flamingo DNA Sampling
 Rhino Breeding Videos
 Zoo Animal Drinking Water Quality

LUBEE BAT CONSERVANCY

Education Programs

Annual Florida Bat Festival
 General Lubee Bat Conservancy Educational Programming

Field Conservation

Conservation of the New Georgia Monkey-Faced Bat and
 Its Occurrence in Proposed Community Protected Areas,
 Following Large Scale Deforestation in the Solomon
 Islands
 Rodrigues Environmental Education Project

Green Practices

PLANS, POLICIES AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

WASTE

Documented Amount Recycled

Mission-Focused Research

Filoviral Immunoreactivity

MOTE MARINE LABORATORY AND AQUARIUM

Education Programs

Behind the Scenes Experiences
 Birthday Parties
 Community Engagement
 Field Trips
 Florida Marine Science Educators Association / Florida Fish
 and Wildlife Conservation Commission (FMSEA/FWC) –
 Aquatic Series Collection Workshop
 Florida Master Naturalist Program
 Gills Club
 High School Intern Program

Homeschool Programs
 Kayaking
 Mommy and Me at Mote
 Mote Camps
 Mote Mobile Exhibit
 Night of Fish, Fun and Fright
 Sci Café
 Scout Groups
 SeaTrek Digital Learning
 Teen Sci Café
 Youth Ocean Conservation Summit (YOCS)

Field Conservation

Coral Reef Restoration, Monitoring and Assessment
 Programs
 Fisheries Habitat Ecology Program
 Mote Animal Hospitals
 Sea Turtle Conservation and Research Program and Sea
 Turtle Patrol
 Sharks and Rays Conservation Research Program
 Stranding Investigations Program

Mission-Focused Research

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
 Next-Generation Postdoctoral Research Fellow Projects
 Ocean Acidification Program
 Sensory Research With Two Resident Manatees

NAPLES ZOO

Education Programs

Camp WILD
Field Trip Experiences
Keeper Talks
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 SAFE – Vaquita Project
AZA Tiger SSP – Tiger Conservation Campaign
Black Bear: Smarter Than the Average Bear Secure Trash Campaign
Burmese Python Monitoring and Eradication Testing
Exotic Pet Amnesty Day
Florida Panther Habitat Recovery Monitoring
Florida Panther Species Recovery – Outcome-Oriented Education
Florida Panther Species Recovery – Rehabilitation Facility
Florida Panther: Testing the Potential of Rarámuri Criollo Cattle to Protect US Herds and Endangered Panthers
Giant Armadillo Project
Giraffe Conservation Foundation (GCF)
Madagascar Fauna and Flora Group (MFG)
Panthera – Leopards
Rocket Stoves
Ruaha Carnivore Project (RCP) – Support Through African Wildlife Foundation
Seafood Watch
Tree Planting
Zoo Conservation Outreach Group (ZCOG)
Zoo Conservation Outreach Group (ZCOG) – Anteaters and Highways

Mission-Focused Research

Florida Bonneted Bat Research

Habitat Utilization of Fossa in the Eastern Rainforests of Kianjavato: Implications for Their Subsistence in Madagascar's Degraded Landscape

The Prusten Project

NATURAL ENCOUNTERS, INC.

Field Conservation

AZA SAFE – Vaquita Rescue

Donated Bird Training Workshop Position to the International Association of Avian Trainers and Educators Conservation

Ground Hornbill Project

Moholoholo Rehab Centre

The Peregrine Fund

Vulture Conservation Programme (VulPro)

World Parrot Trust (WPT)

PALM BEACH ZOO

Education Programs

“Wild Things” and “Wings Over Water” Shows

After-School Series

Conservation Leadership Lectures

Guided Tours

Keeper Talks

Night Owls Overnight Adventure

Science, Technology, Engineering and Mathematics (STEM) Teacher Open House

Scout Badge Workshops

Toddler Workshops

Zoo Camp

Zoo Classes

Zoo Interpreters Training

Zoo Labs

Zoo School

Field Conservation

Florida Wildlife Corridor Project

Perdido Key Captive Breeding and Reintroduction

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
 Documented Amount Used
 Documented Square Footage of Conditioned Space
 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

Documented Square Footage of Facility With Green Building
 Certification
 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 Offset Purchase for On-Site Utility Use
 Carbon Offsets for Employee Travel
 Community Solar Program
 Community-Supported Agriculture (CSA) Program for Staff
 Composting On-Site or Off-Site
 Construction Waste Diversion / Recycling
 Energy Submetering
 Graywater Reuse and/or Rainwater Harvesting
 Green Purchasing Policy / Green Procurement
 Local Food Procurement for Animals and/or Guests
 Purchasing Green Power or Renewable Energy Credits
 (RECs)

Smart Buildings Systems
 Solar or Wind Energy Generation
 Water Submetering

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating
 Green Practices

WASTE

Documented Amount Composted
 Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent
 Documented Amount Used

Mission-Focused Research

Chordoma Prevalence in Perdido Key Beach Mice
 Determination of Pseudopregnancies in Malayan Tigers
 The Prusten Project

SANTA FE COLLEGE TEACHING ZOO

Education Programs

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
 Stop, Paws and Learn
 Training Demonstrations
 Tree Kangaroo Awareness Day
 VIP Tour
 Zoo Guided Tours
 Zookeeper Day
 Zookeeper for a Day

Field Conservation

Ashton Biological Preserve

AZA Ape TAG – Conservation Initiative

Conservation Through Poverty Alleviation, International (CPALI)

Gopher Tortoise Rehabilitation and Release Program

Operation Migration

Tree Kangaroo Conservation Program

Turtle Survival Alliance (TSA)

Vaquita Conservation, Protection and Recovery (Vaquita CPR)

SEA LIFE ORLANDO AQUARIUM

Field Conservation

Coastal Cleanups

Shingle Creek Canoe Cleanups

Storm Drain Labeling

Supporting National Public Lands

Mission-Focused Research

Investigating Stingray Reproductive Disease

Systemic Iridovirus Infection in the Banggai Cardinalfish

SEAWORLD ORLANDO

Field Conservation

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

Back to Nature: Native Animal Rescue, Rehabilitation and Release

Citizen Science: Individuals Making a Difference for our Coral Reefs

Fundación Tamar – Improvement of Conservation Efforts to Olive Ridley Turtle (*Lepidochelys olivacea*) on the Rio Real Mouth

Guy Harvey Foundation – Shark Conservation

National Audubon Society – Conservation of Maine Coast Alcids

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

National Fish and Wildlife Foundation – Ocean Health Initiative

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

SeaWorld Orlando – Animal Rescue and Rehabilitation Program

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

ST. AUGUSTINE ALLIGATOR FARM

Field Conservation

Agumbe Rainforest Research Station (ARRS), Western Ghats

American Bird Conservancy (ABC) – Laney S. Rickman Memorial Fund for the Blue-Throated Macaw

Audubon of Florida – Everglades Science Center (ESC) at Tavernier

AZA Conservation Grants Fund (CGF)

Bird Endowment Nido Adoptivo

Crocodile Research Coalition

Cuban Crocodile Reintroduction and Monitoring Into Zapata Swamp

Hawk Mountain's Hooded Vulture Survey Project

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

Nature Conservation Foundation – India Hornbill Nest Adoption Program

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

Sea Turtle Hospital at Whitney

Siamese Crocodile Conservation in Lao, PDR

Using Genomics to Evaluate Reintroduction as a Conservation Strategy for the Orinoco Crocodile in Venezuela

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Broad-Snouted Caiman Parental Care
Komodo Dragon Antimicrobial Peptides
Reducing Anesthetic Recovery Time in American Alligators

THE FLORIDA AQUARIUM

Education Programs

Adopt-a-School Partnerships
Aqua-Tots
Associated Marine Institutes (AMI) – AMIKids Tampa Partnership
Behind the Scenes Tour
Camps (School-Year)
Camps (Summer)
Evening Tide Talks
Explorers Club
Homeschool Classes
Interactive Touch Experiences
Junior Educators
Lifelong Learning Program
Live Animal Presentation
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)
SEAS Summer Institute
Sleep With the Fishes (Sleepover Program)
Teacher Planning Visits
Teacher Workshops
Water Wheels (Outreach)
Watershed Investigations
What's in Your Watershed?
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
Swallow-Tailed Kite Conservation Project

THE SEAS

Education Programs

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

Angel Shark Conservation Programme
AZA SAFE – Vaquita
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 Hero – Bemahafaly Randriamanantsoa
Conservation Hero – Lliana Fonseca
Conservation Hero – Velkiss Gadea
Conserving Sea Turtles Through Community Participation and Stakeholder Stewardship
Coral Reef Youth Education Program
Developing Solar-Powered Illuminated Nets to Reduce Sea Turtle Bycatch in Gillnet Fisheries
Establishing the Next Generation of Resilient Coral Species
Ex-Situ Conservation Feasibility Workshop – Vaquita
Life in a Biosphere Reserve

Manatee Rescue and Rehabilitation Partnership (MRP)

Ocean Stewardship and Conservation Awareness Through Moana in the Samoan Islands

Recovery of Washback Sea Turtles

Reverse the Decline – Coral Reefs

Reverse the Decline – Reversing the Decline of Sharks and Rays

Reverse the Decline – Sea Turtles

Seagrass Surveys for Education and Conservation

Southeast Regional Sea Turtle Network (SERSTM)

Sustainable Fisheries Partnership

Tour de Turtles – Sea Turtle Conservancy

Urban Shark Conservation / Research Program

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

Anaerobic Digester Energy Generation

Building Energy Management

Carbon Offset Purchase for On-Site Utility Use

Commingled Recycling

Community-Based Sustainability Projects

Composting On-Site or Off-Site

Construction Waste Diversion / Recycling

Energy Submetering

Graywater Reuse and/or Rainwater Harvesting

Green Purchasing Policy / Green Procurement

Greenhouse Gas (GHG) Inventory

Local Food Procurement for Animals and/or Guests

Purchasing Green Power or Renewable Energy Credits (RECs)

Solar or Wind Energy Generation

Stormwater Management Program

Usage of an Environmental Management System

Usage of Enterprise (IT) Solutions To Track, Measure and Dashboard Sustainability Performance

Water-Wise Landscaping

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

Reported Greenhouse Gas Emissions to a Climate Registry

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

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

Mission-Focused Research

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

Abaco Reef Restoration and Environmental Education

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* spp.) 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 Stress in Elasmobranchs

Manatee Rehabilitation Partnership (MRP) Research

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

Preliminary Assessment of Plasma Biochemical Analyses and Related Water Chemistry and Diet Analyses in Green Moray Eels (*Gymnothorax funebris*) Maintained in Aquaria

Preventing Boat Collisions With Manatees (*Trichechus manatus*): A Possible Boater-Alert System Based on Acoustic Detection of Manatees

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

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

Vaccination of French Grunts

WHITE OAK CONSERVATION CENTER

Education Programs

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

Mission-Focused Research

Detection of Feline Morbillivirus and *Cytauxzoon felis* in Large Captive Felids

Determining the Impact of Infectious Diseases on Critically Endangered Florida Grasshopper Sparrows (*Ammodramus savannarum floridanus*)

Genome Resource Banking of Genetically Valuable Male Indian Rhino

Identification of Preimplantation Factor in Pregnant White Rhinoceros

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

Investigating Microbial Communities of the Southern White Rhino Gastrointestinal Tract

Landscape Genomics of Kruger Park Rhinoceros Populations

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

Opportunistic Semen Banking of Wild Felids by Zoo Veterinarians

Prevalence, Risk Factors and Survival of Zoo Animals With Cancer

Relatedness in Southern White Rhinoceros and Implications for Breeding Management

Seasonal Changes in Reproductive Hormones, Glucocorticoids and Aggressive Behavior in Captive Blue-Billed Curassows

Semen Collection and Cryopreservation in the Southern White Rhinoceros

ZOO MIAMI

Field Conservation

Audubon Christmas Bird Count

AZA FrogWatch USA

AZA Tiger SSP – Tiger Conservation Campaign

Biological and Conservation Studies of the Miami Tiger Beetle (*Cicindela floridana*)

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

CrocFest

Florida Bonneted Bat Rehabilitation

Florida Fish and Wildlife Conservation Commission (FWC) – Florida Panther Capture Team

Great Ocean Road Koala Habitat Rescue

Iguana Fest

International Elephant Foundation (IEF)

International Iguana Foundation (IIF)

Invasive Species and Fire Management of the Zoo Miami Pine Rocklands

Jamaican Herpetofauna Surveys

National Park Service (NPS) – Florida Panther Capture Team

Native Bat Roosting Mitigation and Enhancement

Pine Rockland Public Restoration

Puerto Rican Crested Toad Recovery Program

Reversing Tropical Amphibian Declines

Targeted Mist Netting Utilizing an Acoustic Lure for Florida Bonneted Bats

The Ecology of Gopher Tortoises in the Pine Rocklands

Tillandsia Recovery and Propagation Project

Zoo Miami Butterfly Conservation Area

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

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

Construction Waste Diversion / Recycling

Energy Submetering

Green Information Technology (IT)

Smart Buildings Systems

Solar or Wind Energy Generation

Water Submetering

PLANS, POLICIES AND BUDGETS

Developed or Updated a Sustainability Policy

WASTE

Documented Amount Recycled

Documented Amount Spent on Landfill Waste

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Ecology of Invasive Burmese Pythons in Big Cypress National Preserve

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

Hormonal Manipulation of Male Burmese Python Pilot Study

In Vivo Physiological Analysis of Vascular Thermoregulatory Structures Using Noninvasive Infrared Thermography on Free-Ranging Birds

Invasive *Neyraudia reynaudiana* Herbicide Testing for Effective Primary Treatment Methods in Pine Rocklands

Life Cycle and Development of the Faithful Beauty Moth (*Composia fidelissima*)

Population Genetic Characterization of Highly Fragmented Florida Duskywing Relict Populations

Single Treatment Herbicide Application for the Control of Invasive Burmese reed in the Pine Rocklands

The Natural History, Habitat Usage and Origins of Florida Flamingos

ZOOTAMPA AT LOWRY PARK

Education Programs

Animal Interactive Experiences- Aldabra Encounter

Field Conservation

Conservation of Helmeted Hornbill

CrocFest

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

Florida Panther Recovery Plan

Gyps Vulture Restoration Program

International Rhino Foundation (IRF)

Manatee Rescue, Rehabilitation and Release

Marine Mammal Research Patrol

Okapi Conservation Project

Pan African Sanctuary Alliance (PASA) - Primate Care
Training

Park Protection and Basic Infrastructure for Anjanaharibe-
Sud Special Reserve, Madagascar

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Generated Renewable Energy On-Site

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Composting On-Site or Off-Site

Energy Submetering

Green Building Policy / Commitment

Local Food Procurement for Animals and/or Guests

Smart Buildings Systems

Solar or Wind Energy Generation

Stormwater Management Program

Wastewater Reduction

Water Submetering

WATER

Documented Amount Spent

Documented Amount Used

Georgia

GEORGIA AQUARIUM

Field Conservation

Amazonian Manatee Rehabilitation

Coral Restoration in the Florida Keys

Georgia Dolphin Ecology Project

Manta Ray Population Assessment

Puerto Rico Manatee Assessment

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

Whale Shark Cendrawasih

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FUEL

Documented Amount Spent

Documented Amount Used

WASTE

Documented Amount Sent to Landfill

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Flukebook

THE ZOO AT CHEHAW

Green Practices

ENERGY

Documented Amount Spent

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

Local Food Procurement for Animals and/or Guests

ZOO ATLANTA

Education Programs

Adventure Cubs

Camp – School's Out

Camp – Spring

Camp – Summer

Camp – Winter

Docent Program

Family Volunteer Program

Field Trip Programs

Guided Tours

Homeschool Academy

Intern Program

Interpretive Program – Animal Tales

Interpretive Program – Giraffe Feeding

Interpretive Program – Groove Like an Animal

Interpretive Program – Kori Bustard Program

Interpretive Program – Wild Women

Interpretive Program – Zoo's Clues

Keeper for a Day

NightCrawler – Groups

NightCrawler Overnights – Family

Scout Day

Scout Workshop

Self-Guided Field Trips

Stroller Cubs

Teacher Workshops

Volunteer Program

Volunteer Program

Wild Encounters

ZOOMobile – Outreach

Field Conservation

Amphibian Ark

AZA Ape TAG

Chytridiomycosis and Amphibian Conservation

Community-Based Red Panda Conservation and Monitoring
in Eastern Nepal

Dian Fossey Gorilla Fund International

Elephants for Africa

Giant Panda Conservation

Golden Lion Tamarin Conservation Program

Headstarting Diamondback Terrapins

Indigo Snake Restoration Project

International Reptile Foundation

International Rhino Foundation (IRF)

Madagascar Fauna and Flora Group (MFG)

Project Golden Frog

Red Panda Network (RPN)

Sahara Conservation Fund (SCF)

Save the Golden Lion Tamarin

Vulture Conservation Programme (VulPro)

Wildlife Conservation Society (WCS) – 96 Elephants

World Parrot Trust (WPT)

Yayasan Orangutan Sumatera Lestari

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

Construction Waste Diversion / Recycling

Green Information Technology (IT)

Purchasing Green Power or Renewable Energy Credits (RECs)

Smart Buildings Systems

PLANS, POLICIES AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

Mission-Focused Research

DNA Testing of Mob of Meerkats to Determine Relatedness and Parentage

Ecology and Evolution of the Vertebrate Microbiome

Ontogeny of Ambush Behavior in Sidewinders

Problem-Solving and Behavior Changes Based on Association Learning in Lizards

The Effect of an Introduction Event on Social Structure and Mate Choice in a Captive Flock of Chilean Flamingos (*Phoenicopterus chilensis*)

Zoo Visitor Assessment of Novel Tool-Using Enrichment and Behavior in Naive Western Lowland Gorillas (*Gorilla gorilla gorilla*)

Idaho

IDAHO FALLS ZOO AT TAUTPHAUS PARK**Education Programs**

Behind the Scenes Tours

Career Days

Exploration Stations

Junior Zoo Crew

Penguin Interaction Program

Quarters for Conservation

Science, Technology, Engineering and Mathematics (STEM) Day at the Zoo

Special Events

Spring Break Classes

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)

Vaquita Conservation, Protection and Recovery (Vaquita CPR)

ZOO BOISE**Field Conservation**

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

AZA SAFE – Cheetah Conservation Action Plan (CAP)

Children's Conservation Education in Gorongosa National Park

EcoHealth Program in Gorongosa National Park

Gorongosa National Wildlife Park Restoration

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

Monitoring the Elephant Population in Gorongosa National Park

Table Rock Fire Restoration

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Building Energy Management

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Development of Reintroduction Protocol for Southern Idaho Ground Squirrel

Illinois

CHICAGO ZOOLOGICAL SOCIETY - BROOKFIELD ZOO

Education Programs

A Zoo for All: Access and Inclusion

Advanced Inquiry Program (AIP)

Backstage Adventures

Badges

Bridges

Certified Interpretive Guide Training

College Experiential Learning Opportunities

Common Foundations in Informal Science Learning for Zoo Staff and Volunteers

Crowdsharing Environmental Action

Dolphins in Action Presentations

Early Childhood Education Nature Assistant Certificate With Morton College, Cicero, IL

Family Fun Saturdays

Good Works

Graduate Teacher Classes

Hamill Family Play Zoo

Hamill Family Play Zoo Keeper Chats and Ambassador Animal Program

Inclusive Visits

Institute of Science Teaching Excellence

Interpretive Training

King Conservation Science Scholars

Lecture Series

Nature Play Zero to Three

Nature Play Zoo Adventure Passport (Nature Play ZAP!)

NatureStart AZA Course

NatureStart Networks

Postdoctoral Fellowship in Veterinary Anesthesia and Analgesia

Professional Learning in Informal Science Education: How Can We Do It? How Can We Sustain It?

Project SEARCH

Roving Naturalists

Sarasota Dolphin Research Program Undergraduate Internship Program

School Field Trips

Science Fellows Program

Sleepover Safari

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

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

Volunteer Program

Wild Encounters, Keeper Chats and Ambassador Animals Program

Zoo Adventure Passport (ZAP!)

Zoo Camp

Zoo Chats

Zoo Explorers Club

Zoological and Aquatic Animal Residency Program - Illinois

Field Conservation

Center for the Science of Animal Care and Welfare

Chicago Board of Trade (CBOT) Grant – Crocodilian Ecology Project, India

Chicago Board of Trade (CBOT) Grant – Formal Species Recognition and *In-Situ* Conservation of a New Form of *Microcebus* (Mouse Lemur), Madagascar

Chicago Board of Trade (CBOT) Grant – Little Fireface Project, West Java

Chicago Board of Trade (CBOT) Grant – Lowland Tapir Health and Risk Management in Brazil

Chicago Board of Trade (CBOT) Grant – Saving the Giant Anteater in the Colombian Orinoco, Colombia

Chicago Board of Trade (CBOT) Grant – Study and Conservation of Persian Leopard, Russia

Pangolin Conservation

Post-Release Monitoring of Injured, Out-Of-Habitat or Stranded Cetaceans in the Southeastern United States

Punta San Juan Marine Wildlife Conservation Program, Peru

Sarasota Dolphin Research Program

Sarasota Dolphin Research Program – Behavioural Response of Sea Turtles to the FaunaGuard Turtle Module

Sarasota Dolphin Research Program – Bottlenose Dolphin Biopsy Darting Training

Sarasota Dolphin Research Program – Bottlenose Dolphin Health Assessments in Sarasota Bay, Florida

Sarasota Dolphin Research Program – Community Engagement for Dolphin Conservation

Sarasota Dolphin Research Program – Development of Population Consequences of Acoustic Disturbance (PCAD) Model

Sarasota Dolphin Research Program – Dolphin Communication Research With Digital Acoustic Recording Tags (DTAGs)

Sarasota Dolphin Research Program – Gulf of Mexico Dolphin Identification System (GoMDIS)

Sarasota Dolphin Research Program – Hearing Abilities of Dolphins in Sarasota Bay

Sarasota Dolphin Research Program – Investigation of Methods for Reproductive Failure in the Aftermath of the Deepwater Horizon Oil Spill to Understand Population Recovery Scenarios for Cetaceans

Sarasota Dolphin Research Program – Mississippi River Diversion Marine Mammal Data Gaps

Sarasota Dolphin Research Program – Monitoring of Dolphin Prey Populations in Sarasota Bay, Florida

Sarasota Dolphin Research Program – Naples/Marco Island Area Bottlenose Dolphin Population Assessment

Species Conservation Toolkit Initiative

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

Documented Square Footage of Facility With Green Building Certification

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

Construction Waste Diversion / Recycling

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy / Commitment

Green Information Technology (IT)

Green Purchasing Policy / Green Procurement

Local Food Procurement for Animals and/or Guests

Wastewater Reduction

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Chicago Board of Trade (CBOT) Grant – Assessment of Status, Distribution and Threats to Threatened Large Carnivores, Tanzania

Chicago Board of Trade (CBOT) Grant – Escape From Deadly Disease: Can Environmental Refugia Save Tropical Montane Frogs From Extinction, Peru

Chicago Board of Trade (CBOT) Grant – Investigation of Genetic Diversity of *Callimico goeldii* and *Cebuella pygmaea* in Bolivia, Peru and Ecuador

Chicago Board of Trade (CBOT) Grant – Photo-Identification of Fin Whales in the Canal De Ballenas Area, Mexico

Comparison of Fecal Adrenal Hormone Levels Between Wild and Professionally-Managed Bottlenose Dolphins

First Steps in Saving a Species: Indicators of Successful Pregnancy in the African Tree Pangolin

MetaModel Manager

Relevancy of African and Asian Elephants in Zoological Facilities

Relevancy of Zoo Experiences: Cognition, Affect, Conservation and Health

Towards Understanding Welfare of Cetaceans in Zoos and Aquariums

Validating WelfareTrak® as a Tool to Improve the Welfare of Individual Chimpanzees

Veterinary Research

COSLEY ZOO**Field Conservation**

Asian Wild Horse

AZA SAFE – Vaquita

AZA SAFE – Whooping Crane

Blanding's Turtle Headstart Project

The Great Backyard Bird Count

Green Practices**ENERGY**

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified as a Monarch Watch Waystation

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

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

WASTE

Documented Amount Composted

Documented Amount Spent on Landfill Waste

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Drinking Water Quality and Water Husbandry at AZA Zoos

The Frequency of Natural Behaviors Displayed by Captive Red Fox (*Vulpes vulpes*) With Added Feeder Enrichment

JOHN G. SHEDD AQUARIUM**Education Programs**

Amphibian Educator Badging

Assistantships

Club Shedd

Club Shedd – Middle School

Fish Tales Educator E-News

Freshwater Ecology

Great Lakes Action Days
 Great Lakes Digital Badging
 High School Lake Ecology
 High School Marine Biology
 Interpretive Volunteers
 Learning Labs (6-12th Grades)
 Live From Behind the Scenes
 Marine and Island Ecology of The Bahamas
 National Oceanic and Atmospheric Administration (NOAA) –
 How and Why We Explore the Deep Ocean Workshop
 Park Voyagers
 Professional Training Seminar
 Science Tech Treks
 Shedd Science Educator Conference
 Shedd Stewards
 Spring Break Camp
 Summer Road Trip
 Summer Worlds Tour
 Sustainable Seafood Culinary School Partner Training
 Sustainable Seafood Event Outreach
 Sustainable Seafood Restaurant Partner Training
 Teen Learning Lab
 Teen Work-Study
 Underwater Robotics – Club and Competition
 Underwater Robotics – Teacher Professional Development
 Unmanned Aerial Vehicles
 Wreath-Cycled

Field Conservation

Amphibian Response to Habitat Restoration
 AZA SAFE – Vaquita Rescue Project
 Bahamian Iguana Research and Conservation
 Conch Population Assessment and Management in the
 Bahamas
 Dam Removal and Migratory Fish Recruitment in Great Lakes
 Tributaries
 Field Surveys of Threatened and Endangered Aquatic
 Species in Illinois
 Great Lakes Action Days

SEXual CORal REproduction (SECORE) – Coral Reef
 Conservation Partnership
 Spatial Dynamics of Nassau Grouper Spawning in the
 Bahamas
 Urban Ecology of Mudpuppies in the Chicago Area

Mission-Focused Research

Age Assessment of Belugas Using DNA in Sputum, Skin and
 Blood
 Application of Nanopore MinION for Rapid Viral Pathogen
 Detection for Marine Mammals in Aquatic Environments
 Aquarium Microbiome Project
 Assessing Conservation Science
 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
 Body Growth and Rapid Hematological Development
 Support of Breath Hold of Baby Belugas (*Delphinapterus*
leucas)
 Cetacean Perinatal Behavioral Assessment
 Corals as Optical Machines
 Metagenomic Investigation Into the Cause of Shell Disease in
 Western Pond Turtles (*Actinemys marmorata*)
 Mycobacteria Response to Disinfection
 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 Programs

Animal Encounters
 Animal Enrichment Workshops
 Artecito
 Campout at the Zoo
 Canvas for Conservation
 Chicago Environmental Stewards Spring Break Camp
 Community Gardens Program
 Community Pop-Up Events
 Conservation Ambassador Board

Conservation Camp (School Holidays)
 Conservation Camp (Summer)
 Cow Milking
 DreamNight
 Educator Open House
 Free-Flight Feeding
 Gorilla Cognition
 Gorilla Operant Conditioning
 Guest Engagement Chats
 Guest Engagement Leadership Program
 Guest Engagement Mobile Learning Stations
 Learn Explore and Play (LEAP)
 Morning Safari / Twilight Safari
 Nature Boardwalk Tours
 Partners in Fieldwork
 Penguin Encounters
 Play Days at the Farm
 Pre-Service Teacher Education Partnership
 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

Building Evidence for Effective Conservation Interventions Around the Serengeti Ecosystem
 Developing Non-Invasive Methods to Assess Health in Bats Threatened by White-Nose Syndrome
 Developing Non-Invasive Methods to Monitor the Health of Urban Bats
 Evaluating Conservation and Development Impacts of Serengeti National Parks on Adjacent Communities
 Goulougo Triangle Ape Project (GTAP)
 Great Lakes Piping Plover Recovery Effort
 Investigating Denver's Vanishing Prairie Dogs
 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 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
 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

ENERGY

Documented Square Footage of Conditioned Space

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

Construction Waste Diversion / Recycling

Green Information Technology (IT)

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating
Green Practices

Mission-Focused Research

A Meta-Analysis of Shifts in Wildlife Health With Urbanization

A Preliminary Investigation of Non-Invasive Body
Composition Estimation in Gorillas

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, IL

Can Chimpanzees Learn to Use Tool-Sets in an Artificial
Termite Mount?

Carotenoids in Uropygial Gland of Rhino and Giant Hornbills
(*Buceros* spp.)

Case Series Evaluation of Smooth Green Snake Oral
Squamous Cell Carcinoma

Chimp Haven

ChimpCARE

Chronic Recurrent Multifocal Osteomyelitis (CRMO) in
Gibbons

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

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 Adrenocorticotrophic Hormone (ACTH) Challenge

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

Developing a Dynamic Interaction Based Occupancy Model

Developing a Meta-Population Model for Heterogeneous
Environments

Developing New Methods to Monitor Stress Physiology in
Fish

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

Enalapril Hepatotoxicity in Gorillas

Evaluation of Animal Ambassador Experiences

Evaluation of Great Ape Stillbirth Rates

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

Facilitation of External Research	Monitoring to Examine the Spatio-Temporal Dynamics of Sarcophagid Midge in Chicago's Urban Coyotes
Flexible Problem-Solving in Great Apes	Social Spacing of Chimpanzees and Gorillas
Gathering Hormonal Measures of a Gorilla Bachelor Group	Teen Audience Research Study
Goods, Equipment or Supplies Donated to Research Projects Outside of the Institution	Testing Primate Food Preferences Using Touchscreen
Goulougo Triangle Ape Project (GTAP) – Video Analysis Lab	Testing the Use of Surrogate Demographic Data for Species Recovery
House Sparrow Microbial Ecology and Endocrinology	Testing Whether Social Information Aids Memory of Events by Chimpanzees and Gorillas
Investigating Diversity, Stress and Health of Small Mammal Communities Across an Urban to Exurban Gradient	The Great Ape Heart Project
Investigating Ovulation Failure in the Endangered Black-Footed Ferret	Training and Administration of Citizen Science Projects
Investigating Post-Hatch and Post-Transfer Survival in the Blue-Grey Tanager Species Survival Plan Program	Understanding and Analyzing Patterns in Life Expectancy for Zoo Animal Populations
Investigating the Influence of an Ape's Social Group on Their Individual Decision-Making	Using Fourier Series to Partition Variability Between Temporally Periodic and Stochastic Events
Investigation of Hormone Metabolites in Mountain Gorilla Fecal Samples Using High-Performance Liquid Chromatography (HPLC)	ZooMonitor
Japanese Macaque Behavioral Monitoring	MILLER PARK ZOO
Japanese Macaque Personality Assessment: Development of a Novel Scale for Use in Zoo Setting	Field Conservation
Local Drivers of Bushmeat Hunting in the Greater Serengeti Ecosystem, and Its Impact on Migratory Wildlife Populations	AZA FrogWatch USA
Message Framing Effects on Animal Welfare Donation Appeals	AZA Tiger SSP – Tiger Conservation Campaign – Sumatran Tiger and Prey Research
Microbiome Comparisons Among Great Apes and Humans	Snow Leopard Trust (SLT)
PMCTrack – Analyses of Historic Breeding and Transfer Recommendations in AZA's SSPs	Vaquita Conservation
Population Viability Analyses (PVAs) of AZA SSPs	Mission-Focused Research
Predictors of Wounding in Japanese Macaques	Quantitative Cognition in Harbor Seal
Prosocial Behavior in Japanese Macaques: A Touchscreen Study	PEORIA ZOO
Prospective Assessment of the Incidence of Mammary Neoplasia in Chimpanzees (<i>Pan troglodytes</i>): Pathology, Genetic Markers and Clinical Application	Field Conservation
Retrospective Mortality Review in Chimpanzees	Alligator Snapping Turtle (<i>Macrochelys temminckii</i>) in Southern Illinois
Retrospective Risk Assessment of Perianesthetic Mortality in Captive Managed Populations of Chimpanzees (<i>Pan troglodytes</i>)	Alligator Snapping Turtle Recovery Plan
Sandy Potatoes: Setting the Stage for Behavioral Transmission in Japanese Macaques	American Association of Zoo Keepers (AAZK) – Bowling for Rhinos
Small Mites, Big City: Using Large-Scale Wildlife Camera	AZA FrogWatch USA
	AZA Tiger SSP – Tiger Conservation Campaign

Mission-Focused Research

Patterns of Diversity in the Indigenous Microbiota of Marine and Terrestrial Mammals: *Rhynchocyon petersi*, *Tupaia belangeri*

Retrospective Characterization of Reproductive Tract Lesions in Relation to Parity, Age and Contraception in Captive Suidae and Tayassuidae

SCOVILL ZOO

Field Conservation

Cheetah Conservation Fund (CCF)

Conservation Centers for Species Survival (C2S2)

Red Panda Network (RPN)

SaveNature.Org

Indiana

FORT WAYNE CHILDREN'S ZOO

Education Programs

Amazing Animals

Animal Tales

Care-a-Van

Career Presentations

Community Events

Creature Features

Discovery Boxes

Education Interpreters

Job Shadow

Kids4Nature

Mini-Classes

Sea Lion Feeding Demonstration

Storytime

Summer Safari Day Camp

Teacher Workshops

Wild Nights

Zoo School

Zoo Scientific Inquiry (ZSI)

ZOOMobile

Z-Team Volunteer Program

Field Conservation

Acres Land Trust

Amur Leopard and Tiger Alliance (ALTA)

AZA Conservation Grants Fund (CGF)

AZA SAFE

AZA SAFE - General Administrative

AZA SAFE - Sharks and Rays

AZA SAFE - Vaquita

AZA Tiger SSP - Tiger Conservation Campaign - Sumatran Tiger

Coffee and Primate Conservation in Central Java

Colobus Conservation, Ltd.

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

Little River Wetland Project

Living With Lions Trust - Lion Guardians Project

Madagascar Biodiversity Partnership (MBP)

Mariana Avifauna Conservation (MAC) Project

Mitchell's Satyr Butterfly Conservation

OCEARCH

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)

Wildlife Conservation Society (WCS) - Sharks and Rays Conservation

World Parrot Trust (WPT)

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

Composting On-Site or Off-Site

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent

Mission-Focused Research

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

INDIANAPOLIS ZOOLOGICAL SOCIETY, INC.

Education Programs

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

JobSpark

Nocturnal Adventures

Preschool Programs

Saturday Science Programs

School Career Tours

Science Investigator Series

Skype Chats

Summer Safari Overnight

Summer Zoo Camps

Volunteer Naturalist Interpretation Training

Zoo Educator Advisory Council

Zoo Explorer Camps

Zoo Teen Program

Field Conservation

Alaska SeaLife Center – Round Up for Conservation

Amur Tiger Conservation Project

AZA SAFE – Vaquita Rescue Project

AZA SAFE – Visionary Funder

Centre ValBio at Stony Brook University

Champions for our Planet

Cheetah Conservation in Namibia

Dian Fossey Gorilla Fund International

Generation Conservation

Goulougo Triangle Ape Project (GTAP)

Indiana Stonefly Assessment for the Indiana Natural Heritage Data Center

Indiana Wildlife Federation – Monarch State Conservation Plan

Indianapolis Prize
 Indianapolis Zoo Conservation Program Administration
 International Elephant Foundation (IEF)
 Kutai National Park
 Kutai National Park Reforestation
 Massasauga Rattlesnake Conservation
 Moose Calf Health
 Nature Conservancy – Kankakee Sands Prairie Restoration
 Sumatran Orangutan Conservation Programme (SOCP)
 Tarangire Elephant Project (TEP) – Development of Corridors
 Outside of Tarangire National Park
 Wildlife Conservation Network (WCN) – The Ara Project
 World Parrot Trust (WPT)

Mission-Focused Research

A Climate Change Vulnerability Assessment of Borneo Tree
 Species
 Orangutan Mental Complexity and Its Relationship to
 Survival in the Tropical Forest

MESKER PARK ZOO AND BOTANIC GARDEN

Education Programs

Adventure Amazonia
 Animal Certification Classes
 Animal Play
 Birthday Parties
 Boo at the Zoo
 Community Outreach Speakers
 Destination – Discovery!
 Docent Meetings
 Exhibit Interpretation
 Expedition – Zoo/ Dr. Zoo
 Garden Club Botanic Tour
 Goat Contact Yard
 Keeper Talks
 Kinderfun
 Mission Green Possible
 New Docent Training
 New ZooTeen Intake and Training

Party Animals! / ZooTopia
 Party for the Planet – Education Tables
 Roaming With Animal Ambassadors
 Scavenger Hunts
 Spaceship Earth / Planet Rangers
 Special Donor Tours
 Tram Tour
 Zoo Brew
 Zoo Master / The Zookeeper's Apprentice
 Zoo Play
 Zoo Scientists / Expedition Zoo
 ZooTeen Conferences (Spring and Fall)

Field Conservation

Action for Cheetahs in Kenya
 American Association of Zoo Keepers (AAZK) – Bowling for
 Rhinos
 AZA Jaguar SSP – Cockscomb Basin Wildlife Sanctuary
 (CBWS)
 AZA SAFE – Vaquita Project
 Eastern Hellbender Captive Headstarting Program
 Kudzu Eradication Project
 Mexican Wolf Recovery Program
 Ovate-Leaved Catchfly Conservation in Indiana
 Purdue University Hellbender Program
 Wildlife Conservation Society (WCS) – 96 Elephants

Green Practices

ENERGY

Documented Amount Spent
 Documented Amount Used
 Documented Square Footage of Conditioned Space

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

Graywater Reuse and/or Rainwater Harvesting

Smart Buildings Systems

Stormwater Management Program

Water-Wise Landscaping

WASTE

Documented Amount Composted

Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Cuora mccordi Parentage DNA Testing

POTAWATOMI ZOO**Field Conservation**

Amur Leopard and Tiger Alliance (ALTA)

AZA SAFE – Vaquita Rescue Project

International Crane Foundation (ICF)

Okapi Conservation Project

Painted Dog Research Trust

Sloth Conservation Foundation (SLOCO)

Snow Leopard Trust (SLT)

Zoo Conservation Outreach Group (ZCOG)

Zoo Conservation Outreach Group (ZCOG) – Anteaters and Highways

Iowa**BLANK PARK ZOO****Field Conservation**

AZA SAFE – African Penguin and Vaquita

AZA Tiger SSP – Tiger Conservation Campaign

Chimpanzee Sanctuary and Wildlife Conservation Trust

Conservation Fusion (CF)

Giraffe Conservation Foundation (GCF)

Health in Harmony

Hornbill Research Foundation (HRF) – Nest Adoptions in Thailand

International Rhino Foundation (IRF)

Iowa Hunters: Leading the Way

National Wildlife Federation (NWF)

Plant.Grow.Fly.

Prairies for Agriculture

Snow Leopard Trust (SLT)

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

Trumpeter Swan Restoration Project

Ziwa Rhino Sanctuary

Green Practices**ENERGY**

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

FOOD

Sourced Local Food or Grew It On-Site

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 Information Technology (IT)

Green Purchasing Policy / Green Procurement

Local Food Procurement for Animals and/or Guests

Stormwater Management Program

Wastewater Reduction

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Mission-Focused Research

A Preliminary Magnetic Resonance Imaging (MRI) and Diffusion Tensor Imaging (DTI) Brain Atlas of the Siberian Tiger (*Panthera tigris altaica*)

Single Nucleotide Polymorphisms and Microsatellites in the Canine Glutathione S-Transferase Pi 1 (GSTP) Gene

The Prusten Project: Determining Individualistic Vocal Patterns of *Panthera tigris* and Implications for Acoustic Monitoring of *In-Situ* Populations

Use of Oral Fluoxetine for the Treatment of Abnormal Aggression in Two Red-Necked Wallabies (*Macropus rufogriseus*)

Visual Cognitive Abilities of Gibbons

Wallaby Research Proposal

NATIONAL MISSISSIPPI RIVER MUSEUM AND AQUARIUM

Field Conservation

AZA Wyoming Toad SSP

Freshwater Mussel *In-Situ* Conservation

Green Practices

ENERGY

Documented Amount Spent

Documented Square Footage of Conditioned Space

FUEL

Documented Amount Spent

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

WASTE

Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent

Mission-Focused Research

Freshwater Mussel Propagation Research

Kansas

HUTCHINSON ZOO

Education Programs

A Book and a Beast

Awareness Day Programs

Birthday Party Programs

Camps

Events

Guided Tours

Outreach Programs

School Classes

Field Conservation

Attwater's Prairie Chicken Breeding Facility

Dusky Gopher Frog Initiative

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

Vaquita Porpoise

Wildlife Rehabilitation

Green Practices

ENERGY

Documented Amount Spent

FUEL

Documented Amount Spent

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

WASTE

Documented Amount Spent on Landfill Waste

LEE RICHARDSON ZOO**Education Programs**

Adult and Senior Education Center Programs

Adult and Senior ZooMobiles

Adult Distance Learning

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

School Distance Learning

School Zoomobiles

Senior Programs

Story Time

Volunteer Training

Walking Tours

Zoo Edventures

Field Conservation

Addax Conservation

Amphibian Ark

AZA Jaguar SSP – Cockscomb Basin Wildlife Sanctuary (CBWS)

Butterfly Conservation

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

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Lemur Conservation in Betampona Natural Reserve

Vaquita Rescue 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 PRACTICES IMPLEMENTED

Building Energy Management

Composting On-Site or Off-Site

Construction Waste Diversion / Recycling

Local Food Procurement for Animals and/or Guests

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

WASTE

Documented Amount Composted

Documented Amount Recycled

WATER

Documented Amount Used

Mission-Focused 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

Reproductive Health Surveillance Program

ROLLING HILLS ZOO

Education Programs

Animal Encounters in the Zoo
 Animal Fact Sheets
 Animal Meet and Greet
 Animals Around the World
 Beastly Safari
 Community Fair
 Community Outreach
 Culture Crawl
 Dig In
 Discovery Class
 Down on the Farm
 Jungle Halloween
 Junior Zoo Keeper
 Keeper Talks
 Overnight Expeditions
 Parents as Teachers
 Romp n' Chomp
 Safari Ed-Venture Day
 Story Safari
 StoryTime at the Library
 Taste of Adventure
 Teacher Safari
 Toddler Tuesday
 Touchcarts
 Tram Script
 Wild Birthdays
 Wild Wonders
 Winter and Summer Camps
 ZamQuest Treasure Hunt
 Zoo Careers
 Zoo to You

Field Conservation

Association of Zoological Horticulture (AZH) – Conservation Grants
 AZA SAFE – Vaquita Rescue
 AZA Tiger SSP – Tiger Conservation Campaign

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

Monarch Watch

Orangutan Outreach

Painted Dog Research Trust

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

Documented Square Footage of Conditioned Space

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

Local Food Procurement for Animals and/or Guests

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

WASTE

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Greater Prairie Chicken (*Tympanuchus cupido*) Disease Surveillance

Monarch Watch: Tagging Program

SEDGWICK COUNTY ZOO

Education Programs

Adventure Pack

Animal Tales Preschool

Behind the Scenes – Tours

Birthday Parties

Bushmeat Crisis Interactive

Coffee Connections

Community-Based Instruction Program

Early Childhood Classes

Educational Events

Get Into Nature

Homeschool Expedition

Investigation Stations

Outdoor Wildlife Learning Site

Overnights

Science, Technology, Engineering and Mathematics (STEM) Safari

Senior Wednesday

Social Hours

Summer Classes

Teacher Workshops

Wonders of Wildlife

Zoo Lab Carts

Zoo Trunk

Zookeeper Apprentice Program

ZooReach

Field Conservation

Amphibian Ark

AZA Chacoan Peccary SSP

AZA Eastern Massasauga Rattlesnake SSP

AZA SAFE – Founders Circle

AZA SAFE – Vaquita

AZA Tiger SSP – Tiger Conservation Campaign

Black-Footed Ferret Kansas Reintroduction Program

Center for American Burying Beetle Conservation

Gorilla Rehabilitation and Conservation Education (GRACE) Center

International Iguana Foundation (IIF)

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Mariana Avifauna Conservation (MAC) Project

Monarch Waystation Project

Okapi Conservation Project

Painted Dog Conservation (PDC)

Save the Cassowary From Extinction in Australia / Rainforest Rescue / Project Rainforest

Turtle Survival Alliance (TSA) – Turtle Survival Center

Wildlife Conservation Society (WCS) Cuba Program – Cuban Crocodile

Mission-Focused Research

A Comprehensive Approach to Improve Management of an Endangered Wild Canid

Application of Software Tools for the Identification of Individual Giant Anteaters

AZA Tree Kangaroo SSP – Reproductive Assessment

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

Biological Validation of Urinary Oxytocin in Western Lowland Gorillas

Constraints of Biomass on Innate Immunity Across Terrestrial Mammals

Developing Genomic Tools for Elephant Conservation

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

Endocrine Trajectories of Orangutan Male Secondary Sexual Development

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

Great Ape Heart Project

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

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

Paternity and Genetic Diversity of Imported African Elephant Founders

Prevalence of Normal Gammaherpesvirus Flora in Eastern Black-And-White Colobus Monkeys (*Colobus guereza*)

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

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

SUNSET ZOOLOGICAL PARK

Field Conservation

AZA Conservation Grants Fund (CGF)

AZA FrogWatch USA

Black-Footed Ferret Introduction in Logan County, Kansas

Black-Footed Ferret Vaccination Program

Butterfly Conservation Project

Friends of Sunset Zoo Conservation Scholar Program 2017

Herpetofaunal Count on Fort Riley

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

Documented Square Footage of Conditioned Space

Generated Renewable Energy On-Site

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Commingled Recycling

Green Building Policy / Commitment

Solar or Wind Energy Generation

Stormwater Management Program

Wastewater Reduction

WATER

Documented Amount Used

THE DAVID TRAYLOR ZOO OF EMPORIA

Field Conservation

AZA Conservation Grants Fund (CGF)

AZA SAFE – Vaquita Donation

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Monarch Waystations and Tagging

Reintroduction of Black-Footed Ferrets in Kansas

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 Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting On-Site or Off-Site

Construction Waste Diversion / Recycling

Graywater Reuse and/or Rainwater Harvesting

Stormwater Management Program

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

WASTE

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Black-Footed Ferret Survey

TOPEKA ZOO

Education Programs

Animal Adaptations

Animal Babies

Animal Classifications

Birds and Their Homes

Bugs Bugs Bugs

Career Talk

Conservation Connection

Discovery Home School

Eco-Club

Ecosystems and Habitats

Food Chains and Food Webs

Library Programs

Monarch Citizen Science

Preschool Class

Scout Programs

Sensory Safari

Spring Break Camp

Summer Camp

Teacher Development Workshop

The Untouchables

The Wetlands

Threatened and Endangered

Winter Camp

Field Conservation

AZA SAFE

AZA Tiger SSP – Tiger Conservation Campaign

Black-Footed Ferret Reintroduction Project of Western Kansas

Dian Fossey Gorilla Fund International

Elephants Helping Elephants in Sumatra

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Planting of Milkweed in Native Habitat

Prairie Wildlife Fund

Prusten Project

Trumpeter Swan Reintroduction Program

Zoo Conservation Outreach Group (ZCOG)

Mission-Focused Research

Designing an Online Hand-Rearing Resource Center

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

Morbidity and Mortality of Captive Peafowls

North American River Otter Survey

Orangutan Respiratory Disease Survey

Kentucky

LOUISVILLE ZOOLOGICAL GARDEN

Education Programs

Backyard Action Hero

Biology at the Zoo

Camp Programs

Early Childhood Workshops

Night Safaris

School at the Zoo

School Field Trips

Teacher Professional Development

Teen Tuesdays

Zoo to You

Field Conservation

AZA SAFE – Vaquita Rescue Project
 Black-Footed Ferret Conservation Center
 CrocFest – Winter 2017
 Dian Fossey Gorilla Fund International
 Flutterfest
 International Elephant Foundation (IEF)
 Monarch Watch
 Monarch Watch – Monarch Waystation Program
 Orangutan Foundation International
 Pan African Sanctuary Alliance (PASA)
 Polar Bears International (PBI)
 Snow Leopard Trust (SLT)

Mission-Focused Research

Assessing the Status and Distribution of *Eunectes beniensis*
 Utilizing a Molecular Comparative Approach
 Behavioral and Glucocorticoid Correlates of Social
 Management of Captive Western Lowland Gorillas
 Behavioral Stereotypies in Captive Elephants: A Follow-Up
 Study
 Bongo Mortality Pathology Study
 Clinical Investigation of Sumatran Tiger Gastrointestinal
 Disease
 Risk Factors for Obesity in Captive Lemurs

NEWPORT AQUARIUM

Education Programs

Camp WAVE
 Career Exploration Initiative: Job Shadow Programs
 Community Development Contribution
 Living Curriculum Initiative
 Overnight Adventure Program
 The Finstitute
 WAVE on Wheels Outreach Program

Field Conservation

Aquarium Conservation Partnership (ACP)
 AZA SAFE – African Penguin – Global Penguin Conservation
 Initiatives
 Banklick Watershed Council

Crocodilian Conservation Projects
 Global Sea Turtle Conservation – North Carolina
 River Sweep
 Seafood Watch
 Vaquita Conservation, Protection and Recovery (Vaquita
 CPR)

Green Practices

PLANS, POLICIES AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)
 Developed or Updated a Sustainability Policy

WATER

Documented Amount of Wastewater Generated
 Documented Amount Spent
 Documented Amount Used

Mission-Focused Research

Living Curriculum Initiative
 Shark Ray Breeding Program
 Shark Research

Louisiana

ALEXANDRIA ZOOLOGICAL PARK

Education Programs

Alexandria Zoo Animal Programs
 Alexandria Zoo Class Programs
 Alexandria Zoo Non-Animal Programs
 Alexandria Zoo Outreach Program
 Alexandria Zoo Special Events

Field Conservation

Andean Condor Program: Chile
 AZA Tiger SSP – Tiger Conservation Campaign
 Maned Wolf: Argentina
 Project Jaguar: Brazil
 Vaquita Project
 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 CERTIFICATIONS

Certified as a Wildlife Habitat

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Community-Based Sustainability Projects

Composting On-Site or Off-Site

Construction Waste Diversion / Recycling

Local Food Procurement for Animals and/or Guests

Stormwater Management Program

PLANS, POLICIES AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Used

Mission-Focused Research

Contraception Effects

Fecal Consistency

Skin Survey

AUDUBON AQUARIUM OF THE AMERICAS**Field Conservation**

Catch and Release Fishing Tournament With Louisiana
Department of Wildlife and Fisheries

Coastal Wildlife Network (CWN)

Gulf United for Lasting Fisheries (GULF)

Mission-Focused Research

Cownose Ray Species Identification

Field Testing Artificial Insemination (AI) Cryogenic Transport
Dewars

Hypoxia Studies Using Native Killifish

Sawfish Historical Genetic Diversity

AUDUBON ZOO**Education Programs**

EarthFest

Junior Keepers

Field Conservation

AZA Jaguar SSP

AZA Komodo Dragon SSP

Black Bear Conservation Coalition

International Iguana Foundation (IIF)

Malaysian Ape Conservation

National Audubon Society – Prothonotary Warbler
Conservation Program

Ruaha Conservation

Turtle Survival Alliance (TSA)

Zoo Conservation Outreach Group (ZCOG)

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

Certified by the Green Restaurant Association

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Anaerobic Digester Energy Generation

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Composting On-Site or Off-Site

Construction Waste Diversion / Recycling

Denitrification Systems

Energy Submetering

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy / Commitment

Green Information Technology (IT)

Green Purchasing Policy / Green Procurement

Greenhouse Gas (GHG) Inventory

Local Food Procurement for Animals and/or Guests

Smart Buildings Systems

Solar or Wind Energy Generation

Stormwater Management Program

Usage of an Environmental Management System

Usage of Enterprise (IT) Solutions To Track, Measure and
Dashboard Sustainability Performance

Wastewater Reduction

Water Submetering

Water-Wise 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 Policy

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent

BREC'S BATON ROUGE ZOO**Education Programs**

Animal Encounters

Biofact Carts

Breakfast With the Animals

Ed-ZOO-cation Classroom Program

Safari Night

Seasonal Camps

Summer Camp

Twilight Tours

Wildlife Safari Theatre

Zoo and Me

Zoo Mobile (Group)

Zoo Mobile (School)

Field Conservation

Action for Cheetahs in Kenya

AZA Conservation Grants Fund (CGF)

AZA SAFE – African Penguin Projects

AZA SAFE – Vaquita Conservation Project

AZA Tiger SSP – Tiger Conservation Campaign

Cheetah Conservation Fund (CCF)

El Valle Amphibian Conservation Center (EVACC)

International Elephant Foundation (IEF)

International Rhino Foundation (IRF)

Lion Tamarins of Brazil Fund

Projeto Arara Azul

Save the Tiger Fund

Thailand Hornbill Project

Turtle Survival Alliance (TSA)

United States Friends of David Sheldrick Wildlife Trust

Green Practices

FUEL

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Construction Waste Diversion / Recycling

Denitrification Systems

Local Food Procurement for Animals and/or Guests

Stormwater Management Program

PLANS, POLICIES AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

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

Mission-Focused Research

AZA FrogWatch USA

Inventory of Speckled Kingsnake on Baton Rouge Zoo Grounds

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

Maryland

NATIONAL AQUARIUM

Education Programs

Aqua-Partners Schools

Aquarium on Wheels Youth Program

Audio Tour

Citizen Science Initiatives

Diver Communication Talks

Educational Events

Free School Group Admission Program

Gallery Carts

Gills Club

Henry Hall Summer Camps

Informal Interpretation With Props

Internship Programs

Living Seashore – Touchpool

Making Connections Keeper / Educator Talks

Middle School After School Program – All About Water

On-Site Classroom Programs

Outreach Programs

Summer Student Volunteers

Teacher Orientation

Teacher Training Workshops

Tots and Tales

Visualizing Change Talks

Volunteer Diver Program

Volunteer Exhibit Guides

What Lives in the Harbor?

Youth Ocean Conservation Summit (YOCS) – Baltimore

Field Conservation

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

Maryland Diamondback Terrapin Working Group

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)

Project Puffin

SaveNature.Org – Marine Conservation Meter

SaveNature.Org – Rainforest Conservation Parking Meter

SExual COral REproduction (SECORE)

Shoreline Restoration and Community Engagement at
Masonville Cove

Terrapins in the Classroom

Urban Conservation and Community Engagement

Urban Conservation and Education Internship

Wetland Nursery Program

Wildlife Habitat Gardening

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

Purchased Renewable Energy

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 Maryland Green Travel

Recognized as a Maryland Green Business Climate Champion

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Community-Supported Agriculture (CSA) Program for Staff

Composting On-Site or Off-Site

Construction Waste Diversion / Recycling

Denitrification Systems

Graywater Reuse and/or Rainwater Harvesting

Green Information Technology (IT)

Local Food Procurement for Animals and/or Guests

Purchasing Green Power or Renewable Energy Credits
(RECs)

Stormwater Management Program

Wastewater Reduction

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating
Green Practices

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

Documented Amount Spent on Landfill Waste

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Establishing Methods for Measuring Steroid Hormones in
Dolphin Blow

Hematological and Biochemical Parameters in Wild and
Captive Spotted Eagle Rays

In Search of Dolphin Language

Insight Into the Mating System of Southern Stingrays
(*Dasyatis americana*) in a Captive Environment

Scaling With Growth of Swimming Musculature in Selected
Jellyfish

Using Environmental DNA (eDNA) to Detect and Identify an
Introduced Cubozoan in the National Aquarium Seawater
System

Wild Dolphin Microbiota Research Project: Phase II

SALISBURY ZOOLOGICAL PARK

Field Conservation

Andean Bear Conservation Partnership

AZA SAFE - Vaquita

Frosted Elfin Research and Conservation

THE MARYLAND ZOO IN BALTIMORE

Education Programs

Animal Ambassador Encounters
 Animal Craft Safari
 Art Class Outreach
 Climate Change Partnership
 Community Event Programs
 Conservation Conversation
 Exhibit Design Partnership
 Exploration Stations
 Field Talks
 Field Trips (Self-Guided)
 Guided Tours
 Homeschool
 Keeper Chats
 On-Site Interpretation
 Osher Class: The Modern Zoo
 Partner Package
 Penguin Feeding Talks
 Pop-Up Labs
 Puppet Shows
 Sip and Stroll
 Special Interest Workshop
 Storytime With the Zoo
 Stroller Safari
 Summer Camp
 Superkids
 Teacher Trainings
 Traveling Trunk
 Zoo Introduction
 Zoo Snooze Overnight
 Zoolabs
 ZOOMobile

Field Conservation

Adkins Arboretum
 AZA Conservation Grants Fund (CGF)
 AZA SAFE – African Penguin Disaster Response

AZA SAFE – African Penguin Marine Movement Assessment
 AZA SAFE – African Penguin SSP Sustainability Project
 AZA SAFE – Nest Box Project
 Brown Pelican Banding and Health Survey
 Cheetah Conservation Fund (CCF)
 Crocodilian Conservation Center of Florida
 Elephants for Africa
 Goulougo Triangle Ape Project (GTAP)
 Health and Ecology Survey of Maryland Black Bear Sows and Cubs (*Ursus americanus*)
 International Crane Foundation
 International Elephant Foundation (IEF)
 International Rhino Foundation (IRF)
 Mabula Ground Hornbill Project (MGHP)
 Madagascar Fauna and Flora Group (MFG)
 Mountain Gorilla Veterinary Project
 Orianne Society
 Patterson Park Audubon Center
 Polar Bears International (PBI)
 Project Golden Frog
 Project SNOWstorm
 Proyecto Borochoi – Maned Wolf Ecology and Health Study
 Bolivia
 Sahara Conservation Fund (SCF)
 Southern African Foundation for the Conservation of Coastal Birds (SANCCOB)
 Susquehannock Wildlife Society
 Tri State Bird Rescue and Research, Inc.
 Turtle Survival Alliance (TSA)

Mission-Focused 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
 Body Composition and Inflammation and Its Association With Ovarian Function and Metabolic Health in Zoo-Maintained African Elephants (*Loxodonta africana*)

Determination of Circulating Vitamin and Mineral Levels in Captive Saddle-Billed Storks (*Ephippiorhynchus senegalensis*) as It May Relate to Reproductive Success and Embryonic Development

Determination of Safe and Effective Dosing Regimens for Flunixin Meglumine (Bananine®) and Firocoxib in African and Asian Elephants

Determining Genetic Variability, Kinship and Uniqueness in the North American Cheetah Population

Developing New Tools for Integrating DNA Data Into AZA Breeding Programs

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

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

Factors Affecting Abnormal Molting in Captive African Penguins

Genotype Sequencing in a Group of Previously Exposed Captive Eastern Box Turtles

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

Heritability of Cancer in Captive Sloth Bears

Homeward Bound: Identifying Factors to Advance Reintroduction Plans for Golden Frogs

Improvement of the Diagnosis of Aspergillosis in Penguins

Malaria Pathogen Amplification and Gene Sequencing

Mortality Trends Over Time in Snow Leopard Populations

Nutrition and Crystalluria in Small Canids

Okapi Relationships Between Individuals and Conspecifics

Pharmacokinetics of Antimalarial Primaquine in African Penguins

Pharmacokinetics of the Antifungal Itraconazole in Panamanian Golden Frogs

Spinal Disease in African Penguins

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

Using Strepsirrhines to Model Euprimate and Fruit Structural Co-Evolution and Seed Dispersal

Massachusetts

BUTTONWOOD PARK ZOO

Education Programs

Animal Ambassador Encounters

AZA FrogWatch USA – Training

Bear Cub Club

Boo at the Zoo

Creature Creations

Education Volunteers

Elephant Appreciation Day

Endangered Species Day

Keeper Chats

Little Learners

Overnight Programs

Party for the Planet

Puddle Jumpers

Roots and Shoots

School Programs

Science on a Sphere

Vulture Day

Wildlife Education Series

World Oceans Day

ZooCrew

Field Conservation

Belize Audubon Society

Birds Caribbean

Buttonwood Park Zoo Wildlife Rehabilitation Program

East Asian-Australasian Flyway Partnership

Grow Trees for Golden Lion Tamarins

Milkweed for Monarchs

Proyecto Tití

The Center for Research and Conservation of Sea Turtles (CICTMAR)

The Muriqui Project of Caratinga

Vaquita Project

Mission-Focused 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*)

Elephant Anti-Müllerian Study: Influence of Age and Gender on Secretion of Anti-Müllerian Hormone in Asian (*Elephas maximus*) and African (*Loxodonta africana*) Elephants

Elephant Bopriva® Gonadotropin Releasing Hormone (GnRH) Vaccination Study

Elephant Gastrointestinal Anatomy, Physiology, Feeding Ecology and Pharmacology Review

Hematologic and Biochemical Reference Ranges in Spotted Eagle Rays (*Aetobatus narinari*) at the Georgia Aquarium

Impact of Aging on Endocrine Function in Asian Elephants: Do Elephants Experience Menopause?

FRANKLIN PARK ZOO

Field Conservation

AZA Ape TAG – Conservation Initiative

AZA SAFE – Vaquita Marina

Botswana Predator Conservation Trust (BPCT)

Cheetah Conservation Fund (CCF)

Chelonian Conservation Fund

Grassroots Wildlife Conservation

International Giraffe Day

Jane Goodall Institute – Wild-Born Mandrill Release Program

Panama Amphibian Rescue and Conservation (PARC)

Panthera

Red Panda Network (RPN)

Wildlife Conservation Society (WCS) – 96 Elephants – Massachusetts Elephant Ivory / Rhino Horn Legislation

Mission-Focused Research

Cougar Network

MUSEUM OF SCIENCE

Education Programs

Animal Habitats

Butterfly Garden Experience

Charles River Field Station

Life Cycles

Live Animal Center Junior Internship

Live Animal Presentations

Meet the Curator

Overnight Field Trips

Field Conservation

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

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

Construction Waste Diversion / Recycling

Solar or Wind Energy Generation

PLANS, POLICIES AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Designing for Productive Struggle

NEW ENGLAND AQUARIUM

Education Programs

Aquarium Teen Internship Program
 Behind the Scenes Tours
 Harbor Discoveries Summer Camp
 Interpretation
 Live Blue™ Ambassadors
 Live Blue™ Service Initiative
 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
 Phoenix Islands Protected Area
 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
 Documented Square Footage of Conditioned Space
 Purchased Renewable Energy

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 Transportation Benefits for Staff
 Alternative Transportation Discounts for Guests
 Building Energy Management
 Commingled Recycling
 Community-Supported Agriculture (CSA) Program for Staff
 Composting On-Site or Off-Site
 Construction Waste Diversion / Recycling
 Green Information Technology (IT)
 Green Purchasing Policy / Green Procurement
 Greenhouse Gas (GHG) Inventory
 Purchasing Green Power or Renewable Energy Credits (RECs)
 Solar or Wind Energy Generation

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions
 Reported Greenhouse Gas Emissions to a Climate Registry

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices
 Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices
 Developed or Updated a Sustainability Policy

WASTE

Documented Amount Composted
 Documented Amount Recycled
 Documented Amount Sent to Landfill
 Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent
 Documented Amount Used

Mission-Focused Research

Elasmobranch Mortality and Stress Physiology
 Marine Stress Research
 National Network for Ocean and Climate Change
 Interpretation (NNOCCI) – Research and Evaluation

WALTER D. STONE MEMORIAL ZOO**Field Conservation**

Botswana Predator Conservation Trust (BPCT)
 Bush Dog Project
 Cheetah Conservation Fund (CCF)
 Chelonian Conservation Fund
 Grassroots Wildlife Conservation
 International Crane Foundation (ICF) – Whooping Crane
 Jaguar Cockscomb Wildlife Sanctuary
 Jane Goodall Institute – Wild Born Mandrill Release Program
 Panthera
 Red Panda Network (RPN)
 Snow Leopard Trust (SLT)

Mission-Focused Research

Cougar Network

Michigan

BINDER PARK ZOO**Field Conservation**

Action for Cheetahs in Kenya
 Adopt-a-Beach
 American Association of Zoo Keepers (AAZK) – Bowling for Rhinos
 Butterfly Monitoring
 Piping Plover Patrol and Recovery Program

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

WASTE

Documented Amount Sent to Landfill
 Documented Amount Spent on Landfill Waste

Mission-Focused Research

Drinking Water Quality and Water Husbandry at AZA Zoos
 Genetic and Endocrine Predictors of Reproductive Success
 in African Painted Dogs

DETROIT ZOO**Education Programs**

Africa Adventure Stories
 Day at the Zoo
 Family Fun Fridays
 Humane Education Horticulture Program
 Learning Labs
 Volunteer Activities
 Zoo Tots

Field Conservation

African Elephant Conservation Trust
 African Vulture Conservation
 American Association of Zoo Keepers (AAZK) – Bowling for Rhinos
 American Beaver Project
 American Marten Management Project
 Amphibians in Peru
 Armenian Brown Bear-Human Conflict Mitigation
 Armenian Viper Project
 AZA Ape TAG – Conservation Initiative

AZA Aruba Island Rattlesnake SSP	IUCN/SSC Penguin Specialist Group
AZA Avian Scientific Advisory Group (ASAG)	Jane Goodall Institute
AZA Conservation Grants Fund (CGF)	Jane Goodall Institute – Nepal
AZA Dusky Gopher Frog SSP – Reintroduction Project	Kirtland's Warbler Initiative
AZA Eastern Massasauga Rattlesnake SSP	Lion Conservation, West Africa
AZA FrogWatch USA	Mad Dog Initiative (MDI)
AZA Komodo Dragon SSP	Michigan Bird Conservation Initiative
AZA Panamanian Golden Frog SSP	National Trust for Nature Conservation, Nepal
AZA Puerto Rican Crested Toad SSP	Ngogo Chimpanzee Project
AZA SAFE	Ol Pejeta
AZA Wyoming Toad SSP	Osprey Management in Southeast Michigan
Bat Conservation International (BCI)	Pandanus Foundation
Bird Strike Prevention at the Detroit Zoo	Partula Field Program Consortium
Blanding's Turtle Headstart Project	Paso Pacífico
Chipangali Wildlife Orphanage and Research Centre	Penguin Sentinels
Common Tern Nesting Habitat Restoration in the Detroit River and Lake St. Clair	Peregrine Monitoring
Conservación de la Naturaleza Amazónica del Perú (CONAPAC)	Peru Adopt-A-School
Conservation International – Amphibian Survival Alliance	Polar Bear and Grizzly Resource Overlap in Kaktovik, Alaska
Craig Packer Lion Conservation Project	Polar Oceans Research Group
Cryptobranchid Interest Group	Pollinator Conservation
Ethiopian Wolf Project	Rainforest Trust
Falkland Island Conservation	Red Panda Network (RPN)
Giraffe Conservation Foundation (GCF)	Science and Conservation Centre
Gorilla Doctors	Siamese Crocodile Reintroduction
Gorilla Rehabilitation and Conservation Education (GRACE) Center	Snares to Wares, Lion Conservation
Great Lakes Colonial Waterbird Monitoring	Snow Leopard Conservation in Nepal and China
Great Lakes Piping Plover Salvage Captive Rearing	Snow Leopard Trust (SLT)
Grevy's Zebra Trust	Striped Newt Conservation
Hanzaki Institute – Japanese Giant Salamander Conservation	The Ocean Project
HawkWatch International	The Peregrine Fund
Honduras Amphibian Rescue and Conservation Center (HARCC)	The Think Tank for Kangaroos (THINKK) of the University of Technology Sydney Center for Compassionate Conservation
Isle Royale Wolf Study	Tree Kangaroo Conservation Program
IUCN Red List of Threatened Species	Turtle Survival Alliance (TSA)
IUCN/SSC Conservation Planning Specialist Group (CPSG)	Urban Bird Treaty
IUCN/SSC Flamingo Specialist Group	Urban Ecology of Bats
	Wild Camel Protection Foundation (WCPF)
	Wildlife Conservation Network (WCN) – Ewaso Lions

Wildlife Conservation Society (WCS) – Shark Campaign

Wildlife SOS

World Conservation Monitoring Center (WCMC)

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 as a Wildlife Habitat

Certified by the Green Restaurant Association

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Building Energy Management

Carbon Offset Purchase for On-Site Utility Use

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 Information Technology (IT)

Green Purchasing Policy / Green Procurement

Local Food Procurement for Animals and/or Guests

Purchasing Green Power or Renewable Energy Credits (RECs)

Stormwater Management Program

Usage of Enterprise (IT) Solutions To Track, Measure and Dashboard Sustainability Performance

Wastewater Reduction

Water Submetering

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Aardvark Nocturnal Activity and Space Use

Aesthetics, Emotions and Choice in Western Lowland Gorillas

Affective Bias Tests in Gorillas

AZA Gorilla SSP – Oxytocin as a Measure of Social Bond and Welfare in Western Lowland Gorillas (*Gorilla gorilla gorilla*) in North American Zoos

Behavioral Impacts of Cataract Surgery for Crested Penguins

Black-Crowned Night Heron Monitoring

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 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

Exploring Measures of Positive Welfare in Giraffes Using Changes in Social Group Composition

Great Ape Heart Project

Impact of Human Visitors on Pigs' Use of Space and Enrichment

Impacts of Night Housing Conditions on Indicators of Welfare in Gorillas and Drill Monkeys

Mudpuppy Surveys

North American River Otter Use of Space and Social Dynamics

Personality in Blanding's Turtles

Pharmacokinetic Efficacy of Transdermal Delivery of Fentanyl in the Rockhopper Penguin (*Eudyptes chrysocome*): A Pilot Study

Quality of Sleep as a Method to Assess Welfare in Nocturnal Zoo Animals

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

The Evaluation of Bathing, Foraging and Olfactory Enrichment in Eliciting Species-Specific Behaviors in Giant Anteaters (*Myrmecophaga tridactyla*)

The Impact of Behavioral Opportunities on the Behavior and Space Use of a Bald Eagle

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

Underwater Behavior of Gentoo (*Pygoscelis papua*) Penguins

Use of Implantable Loop Recorders (ILRs) to Identify and Manage Heart Disease in Chimpanzees (*Pan troglodytes*)

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

JOHN BALL ZOO

Education Programs

AZA FrogWatch USA

Behind the Scenes Tours

Daily Animal Programs

Interactive Animal Exhibits

Keeper for a Half Day and Job Shadows

Kids' Night Out

Overnight Adventures

Science, Technology, Engineering and Mathematics (STEM) Classes

Scout Programs

Silver Explorers

Sprouts

Teen Volunteer Program

Traveling Zoo

Twilight Tours

Wild Encounters

Zoo Camp

Zoo Explorers

Zoo Lab

Field Conservation

AZA FrogWatch USA

AZA SAFE

AZA SAFE - Vaquita Rescue Project

AZA Tiger SSP - Tiger Conservation Campaign

Centro Chaqueño Para la Conservación e Investigación (CCCI)

Dharte Development Society - Vulture Safe Zone (VSZ) Project

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

Kirtland's Warbler Annual Census Project

Limbe Wildlife Centre

Monarch Butterfly Raise and Release Program

Red Panda Network (RPN)

Snow Leopard Conservancy (SLC) - India Trust

Wood Turtle Headstarting Project

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

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

Construction Waste Diversion / Recycling

Energy Submetering

Water Submetering

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

WASTE

Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent

Documented Amount Used

POTTER PARK ZOOLOGICAL GARDENS

Green Practices

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Green Information Technology (IT)

Smart Buildings Systems

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

SAGINAW CHILDREN'S ZOO

Education Programs

Behind the Scenes Tours

Endangered Species Day

E-Newsletter

Exhibit Interpretation

Family Nature Club

Hatchlings

Living Learning Lab

Lunch and Learn

Outreach

Party for the Planet

Rainforest Brochure

Samaritas After-School Program

Scout Programs – Boy and Girl Scouts

Teacher Appreciation Day

World Oceans Day

Zoo Camp

Field Conservation

Adopt-a-Highway

American Association of Zoo Keepers (AAZK) – Bowling for Rhinos – Potawatomi Chapter

AZA Conservation Grants Fund (CGF) – Silent Auction

AZA Cotton-Top Tamarin SSP

AZA SAFE

Citizen Bat League

Kirtland's Warbler Alliance

Michigan Frog and Toad Survey

Proyecto Tití

Saginaw River Clean-up

Sandhill Crane Population Survey

SaveNature.Org

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

SEA LIFE MICHIGAN AQUARIUM

Field Conservation

Project Sturgeon

Mission-Focused Research

Investigating Stingray Reproductive Disease

Two Case Studies: Giant Pacific Octopus Health and Welfare

Minnesota

COMO PARK ZOO AND CONSERVATORY

Education Programs

Animal Ambassadors
 Animal Demo/Training
 AuSM (Autism Society of MN)
 Birthday Parties
 Camp Como
 Discovery Series
 Early Childhood Programs
 Family Class
 Free Educational Events
 Gardener Talks
 Group Tours
 Homeschool
 Interpretive Interactive
 Keeper Talk
 Library Programs
 Residency Program

Field Conservation

AZA Wyoming Toad SSP – Master Plan Meeting and Fieldwork
 Balule Conservation Project in Greater Kruger National Park
 Borneo Orangutan Survival Foundation (BOS) – Year of Freedom
 Ecology of Giraffe Namibia Research
 Gorilla Doctors
 Mississippi Gopher Frog Breeding Project
 North American Freshwater Turtle Research Group
 Polar Bears International (PBI)
 Seafood Watch
 Southern African Foundation for the Conservation of Coastal Birds (SANCCOB)

Green Practices

ENERGY

Documented Amount Spent
 Documented Amount Used

Documented Square Footage of Conditioned Space
 Generated Renewable Energy On-Site

FUEL

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Building Energy Management
 Carbon Offset Purchase for On-Site Utility Use
 Commingled Recycling
 Community-Based Sustainability Projects
 Community-Supported Agriculture (CSA) Program for Staff
 Composting On-Site or Off-Site
 Energy Submetering
 Graywater Reuse and/or Rainwater Harvesting
 Green Information Technology (IT)
 Green Purchasing Policy / Green Procurement
 Local Food Procurement for Animals and/or Guests
 Smart Buildings Systems
 Solar or Wind Energy Generation
 Stormwater Management Program
 Water Submetering
 Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices
 Developed or Updated a Sustainability Plan (or Equivalent)

LAKE SUPERIOR ZOO

Education Programs

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

AZA Tiger SSP - Tiger Conservation Campaign

Bat Conservation International (BCI)

Big Island Resource Conservation and Development Council

Gorongosa Restoration Project

Madagascar Fauna and Flora Group (MFG)

Proyecto Tití

Snow Leopard Trust (SLT)

The Peregrine Fund

World Parrot Trust (WPT)

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

Local Food Procurement for Animals and/or Guests

Solar or Wind Energy Generation

MINNESOTA ZOOLOGICAL GARDEN

Education Programs

Adult Programs

Adult Travel Programs

Animal Habitat Day

Backstage Pass Programs

Boy Scout Day

Career Day

College Travel Program

Distance Learning

Family Overnights

Family Zoo Adventures

Girl Scout Day

Guided/Behind-the-Scenes Tours

Homeschool Day

Math Day

Nature Play Programs

Preschool Programs

School Field Trips

School Overnights

School's Out Camps

Scout and Youth Group Overnights

Summer Zoo Camp

Teacher Workshops

Toddler Time

Wild Wonders Preschool

World Language Days

Youth Travel Program

Zoo Classes

Zoo Crew Jr.

Zoo Safari and Zoo Explorers

Zoomobile

ZooMS Design Challenge

Field Conservation

Amphibian Disease Research

Amur Leopard and Tiger Alliance (ALTA)

AZA SAFE

AZA Tiger SSP – Tiger Conservation Campaign
 Bird Window Collision Conservation Research
 Bison Recovery – Minnesota
 Black Rhino Conservation – Namibia
 Bluebird Recovery Program
 Brown Bear Conservation
 Dhole Field Conservation
 Freshwater Mussel Conservation
 Hartmann's Mountain Zebra Conservation
 Hawaiian Monk Seal Conservation
 Invest in the Nest – African Penguin Conservation
 IUCN/SSC Conservation Planning Specialist Group (CPSG)
 Macaw Conservation
 Minnesota Turtle Conservation
 Moose Conservation Research: Minnesota
 Prairie Butterfly Conservation: Minnesota
 Przewalski's Horse Conservation in China and Mongolia
 Recycle for Rainforests
 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
 Vaquita Conservation, Protection and Recovery (Vaquita CPR)

Mission-Focused Research

Asian Wild Horse Anesthesia Study
 AZA Japanese Macaque SSP – Wounding Study
 Development of a Genome Resource Bank and Transcervical Insemination for the Genetic Management of Tigers
 Epidemiology of *Trueperella pyogenes* Infection in Pronghorn Antelope
 Evaluating the Effects of Enrichment Treatments on Behavior of Animals at the Minnesota Zoo
 Feeding Behavior and Feeding Performance of the Hawaiian Monk Seal
 IUCN Red Listing for Butterflies
 Tiger Mortality Study

Missouri

DICKERSON PARK ZOO

Field Conservation

Action for Cheetahs in Kenya
 American Association of Zoo Keepers (AAZK) – Bowling for Rhinos
 American Association of Zoo Keepers (AAZK) – Trees for You and Me
 AZA Conservation Grants Fund (CGF)
 AZA Tiger SSP – Tiger Conservation Campaign
 Cheetah Conservation Fund (CCF)
 Dian Fossey Gorilla Fund International
 Dong Phrayayen-Khao Yai Carnivore Conservation Project
 Eden Wildlife Trust – Mountain Bongo Surveillance Project Kenya
 Elephant-Human Coexistence: How Elephants Persist in Traditional Agricultural Systems of South Asia
 Giraffe Conservation Foundation (GCF)
 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 Spatial Ecology and Microhabitat Selection of the Pygmy Rattlesnake (*Sistrurus miliarius*) in Southwestern Missouri
 Turtle Survival Alliance (TSA)
 Wildlife Conservation Society (WCS) – Grizzly Bear Conservation in the United States / 96 Elephants
 Zoo Conservation Outreach Group (ZCOG)

Mission-Focused Research

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

Analysis of Female Asian Elephant Prolactin Levels

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

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

Herd Dynamics in Captive Elephants of North America

National Elephant Endotheliotropic Herpesvirus (EEHV) Lab

Prevalence of Babesia in Feral Raccoon (*Procyon lotor*) Populations Around Zoological Institutions That Hold Maned Wolves (*Chrysocyon brachyurus*) in the United States

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

ENDANGERED WOLF CENTER

Education Programs

Adults-Only Evening Programs

Birthday Parties and Other Private Events

Camp

Family Friendly Evening Programs

Field Trips

Outreach Programs

PredaTour

Private Tour

Scout Programs

Field Conservation

Arkansas State University Partnership to Benefit Red Wolf Conservation

AZA Mexican Wolf SSP – Meeting

Habitat Suitability Analysis With Evaluation of Education Program Effectiveness Across the Historic Range of the Red Wolf

Mexican Wolf Artificial Insemination

Mexican Wolf Recovery Program

Red Wolf Recovery

KANSAS CITY ZOO

Education Programs

After-School Program

Animal Encounters

Assembly Program

Awareness Days

Birthday Parties

Boy Scout Workshop

Corporate Walk-N-Talk

Critter Club

Day Camps

Docents

Education Shows and Chats

Girl Scouts – Workshop

Goodnight Zoo

Homeschool

Job Shadow

Junior Zoologist

Keeper for a Day

Overnights

Safari Day Camp

Scout Day

Spring Break Camp: Pathfinder – On the Defense

Teacher Appreciation Day

Teen Volunteer Program

Volunteers

Winter Break Camp: Polar Quest- Life on Ice

ZooED

ZOOMobile

Zootastik Learning Fest

Field Conservation

Amphibian Ark

AZA Ape TAG – Conservation Initiative

AZA SAFE – Vaquita Conservation Project

AZA Tiger SSP – Tiger Conservation Campaign

Black Mamba Anti-Poaching Initiative

Bolivian Amphibian Initiative – Lake Titicaca Water Frog

Brown Hyena Project
 Cheetah Conservation Fund (CCF)
 Conservation Lower Zambezi
 Eastern Spotted Skunk Health and Disease Assessment
 ECO-CELL
 Freshwater Mussel Propagation and Reintroduction
 Humboldt Penguin Consortium
 IUCN/SSC Conservation Planning Specialist Group (CPSG)
 Kansas City Zoo African Elephant Reproductive Conservation Initiative
 Monarch Butterfly Waystation
 Panamanian Golden Frog Breeding Program
 Parrots International
 Project Polar Bear
 Roundtable on Sustainable Palm Oil (RSPO)
 The CREATE Project
 Trumpeter Swan
 Wildlife Conservation Society (WCS) – 96 Elephants
 Wyoming Toad Breeding, Reintroduction and Field Survey Program
 Zoo Conservation Outreach Group (ZCOG)
 Zoo Conservation Outreach Group (ZCOG) – Chilean Flamingo Conservation Monitoring Program

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 Benefits for Staff
 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 Information Technology (IT)
 Green Purchasing Policy / Green Procurement
 Local Food Procurement for Animals and/or Guests
 Solar or Wind Energy Generation
 Wastewater Reduction
 Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)
 Developed or Updated a Sustainability Policy

SAINT LOUIS ZOO

Education Programs

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
 Day With the Rays
 Docent Carts and Seasonal Interpreter Program
 Earth Day – Party for the Planet
 Enrichment Eggstravaganza
 Family Programs
 Inspired by Nature – The Wildlife Art of Robert Bateman
 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

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

Addax Conservation in the Termit and Tin Toumma National Nature Reserve

Amphibian Ark

Andean Bear Conservation Alliance

Animal Migration and Health Study

Arboviruses in Brazil

Bee Diversity and Their Associated Floral Resources in Amboseli National Park, Kenya

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

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

Collaborative Community-Based Giraffe Conservation in Northern Kenya

Community Involvement for Dama Gazelle Conservation in Termit Massif, Niger

Conservation Action in the Termit and Tin Toumma Region of Niger

Conserving Mountain Nyala in a Human Dominated Landscape: Arsi Mountain, Ethiopia

Core Operating Support for the Sahara Conservation Fund (SCF)

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

Ecosystem Health in Punta San Juan Peru

Ecuadorian Amphibian Collaboration

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

From Bat to Bird: Investigating a Potential Case of Sympatric Speciation via Pollinator Shifts in the Andes

Giraffe Conservation in Niger: Saving West Africa's Last Giraffe

Goualougo Triangle Ape Project (GTAP)

Great Grevy's Zebra (and Reticulated Giraffe) Rally 2018

Great Grevy's Rally

Grevy's Zebra Scout Program in Northern Kenya

Grevy's Zebra Trust

Grevy's Zebra Warrior Program

Hatchers and Other Equipment to Support Chick Production in the Sahara Conservation Fund's (SCF) North African Red-Necked Ostrich Recovery Project, Niger

International Elephant Foundation (IEF)

Ishaqbini Hirola Sanctuary Disease Mitigation Strategy: Vaccination of Community Livestock

Ishaqbini Wildlife Release Bomas

IUCN/SSC Bumblebee Specialist Group

Kinabatangan Orangutan Conservation Project

Madagascar Fauna and Flora Group (MFG) – Capacity Building

Madagascar Fauna and Flora Group (MFG) – Core Support

Madagascar Fauna and Flora Group (MFG) – Research Program

Materials to Prepare Pilot Release Site for the Niger Ostrich Recovery Project

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

Native Bee Awareness for the Omaha Tribe
 North African Ostrich Breeding and Recovery Project, Niger
 Northern Rangelands Trust
 Okapi Conservation Project
 Partula Snail Conservation Program, French Polynesia
 Professional Development and Team Building at Grevy's Zebra Trust
 Proposal for a Wildlife Vet to Serve Northern Kenya
 Ron Goellner Center for Hellbender Conservation
 Ruaha Carnivore Project (RCP)
 Space Use and Activity Budgets of Ethiopian Wolves in a Disturbed Population: Implications for Their Conservation
 Staffing and Training for Two New Nigerien Partners in the Recovery Effort for North African Ostriches in Niger
 Support for Addax Anti-Poaching Efforts in the Termit and Tin Toumma National Nature Reserve, Niger
 Support of Several Conservation Non-Governmental Organizations (NGOs)
 Support to Investigate Reintroduction Options for Addax
 Turtle Survival Alliance (TSA)
 Understanding the Status and Ecology of Nubian/Rothschild's Giraffe in Uganda's Kidepo Valley National Park
 Uniforms and Field Kit Bags for the Grevy's Zebra Trust Team
 University of Missouri – St. Louis Graduate Student Support
 Water Quality and Mississippi River Health
 Zoo Staff Labor for Field Conservation

Mission-Focused Research

Animal Awareness Days Evaluation
 Animal Welfare Perceptions Focus Groups
 Biomarker Discovery for African Painted Dog *Pyometra*
 Bird House Enrichment Survey
 Cheetah Olfactory Mate Choice
 Comparison of Propofol Constant Rate Infusion and Isoflurane for Maintenance of Anesthesia in Speke's Gazelle (*Gazella spekei*)
 Developing Genomic Tools for Elephant Conservation
 Developing Testicular Tissue Banking Techniques for Canids
 Distribution of Lizards in Big Desert Habitat Before, During and After Installation of Dimmable Lights

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 Zoo
 Fecal Hormone Monitoring of Ovulatory Cycles and Glucocorticoid Production in Banteng
 Formative Evaluation of Grizzly Ridge Interpretives
 Gorilla Social Behaviors in a Bachelor Herd Over Indoor and Outdoor Periods With High and Low Guest Count
 Hormone Monitoring of Free-Ranging Channel Island Foxes
 Improving the Impact of Zoo and Aquarium Conservation Education Experiences: A Values Orientation Approach
 Island Fox Courtship and Aggressive Behavior
 Lifetime Reproductive Planning in Asian Small-Clawed Otters
 Lifetime Reproductive Planning in Fennec Foxes, Red River Hogs and Mexican Wolves
 Member Perceptions of the One Health Initiative at a Zoological Institution
 Mother-Infant Antelope Study
 Novel Assessments of Body Composition and Relation to Metabolic Status and Fat Stores in Asian Elephants
 Observing Flighted and Flightless Waterfowls' Behavioral Diversities on Bodies of Water
 Polar and Grizzly Bear Use of Space and Activity Level in New Zoo Habitats
 Public Attitudes on Ownership and Use of Wild Felids
 Randomized Controlled Trial Comparing the Effects of Alfaxalone and Ketamine Hydrochloride in the Haitian Giant Galliwasp (*Celestus warreni*)
 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*)
 Serum Nutritional Profile in Great Apes
 Tasmanian Devil Activity Level and Use of Space in New Exhibit
 The Effect of Educational Programs on the Behavior and Physiology of Fennec Foxes (*Vulpes zerda*)
 The Effects of Virtual Reality in a Zoological Setting on Visitors' Empathy and Pro-Environmental Behavior
 The Relevancy of African/Asian Elephants in the Zoological Facilities

Validating Noldus EthoVision as a Tool for Tracking Movement

Wolf Semen Post-Thaw Study

Zoo Veterinarian Attitudes on Management Euthanasia

Zoo Visitor Study

SEA LIFE KANSAS CITY AQUARIUM

Education Programs

Animal Adaptations

Bay of Rays Talk

Home Sweet Home

Marine Science Careers

Ocean Discovery Talk

Octopus Talk

Seahorse Talk

Shark Talk

Slip and Slime (Birthday Party)

Touch Pool Experience

Turtle Conservation Chat

Weedy Seadragon Talk

What's for Lunch

Field Conservation

Heartland Tree Alliance – Bridging the Gap

Project Aware

River and Wetlands Clean Up

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

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

FUEL

Documented Amount Spent

Documented Amount Used

WATER

Documented Amount Used

THE BUTTERFLY HOUSE

Education Programs

Adventures in a Butterfly Garden

A-MAZE-ing Cockroaches

Brownie Bugs

Bug Hunt

Firefly Festival

Insect Photography

Junior Gardener

Keeper for a Day

Ladybugs

Little Bugs

Living the Butterfly Life

Spring Fling

Story of a Butterfly

The World According to Insects

Webelos: Into the Wild

Wings of Wonder

Field Conservation

El Bosque Nuevo

Montana

GRIZZLY AND WOLF DISCOVERY CENTER

Education Programs

Bear Pepper Spray Demonstration

Birds of Prey Outreach

Birds of Prey Program

Keeper Crew

Keeper Kids

Kids n' Snow Family Weekends

Nakiska: Dog With a Job

National Park Service Ranger Presentations

Whose Scat is That?

Wildlife Watching

Wolf Pack Feeding and Enrichment Program

Field Conservation

Bear-Resistant Container Testing
West Yellowstone Christmas Bird Count

Green Practices**ENERGY**

Documented Amount Spent
Documented Amount Used

FUEL

Documented Amount Spent
Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Building Energy Management
Commingled Recycling
Construction Waste Diversion / Recycling
Green Purchasing Policy / Green Procurement
Wastewater Reduction

WASTE

Documented Amount Recycled
Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent
Documented Amount Used

Nebraska

LEE G. SIMMONS CONSERVATION PARK AND WILDLIFE SAFARI**Education Programs**

Animal Ambassadors
Animal Demos
Campouts
Family Classes
Hands-On Corral
Scout Programs
Special Events

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
Documented Square Footage of Conditioned Space

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
Local Food Procurement for Animals and/or Guests
Wastewater Reduction
Water-Wise Landscaping

WASTE

Documented Amount Composted
Documented Amount Recycled
Documented Amount Sent to Landfill
Documented Amount Spent on Landfill Waste

LINCOLN CHILDREN'S ZOO**Education Programs**

Adventure Travel Camps
Behind the Scenes Tours
Distance Learning

Education Outreach
 Overnight Program
 Tots and Turtles / Preschool Penguins
 Zoo Crew
 Zoo Summer Camps

Field Conservation

Salt Creek Tiger Beetle Propagation and Reintroduction Project

Mission-Focused Research

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

OMAHA'S HENRY DOORLY ZOO AND AQUARIUM

Education Programs

African Goat Kraal
 After-School Program
 Animal Ambassador Program
 Animal Encounters
 Backstage Experiences
 Campouts
 Children's Adventure Trails
 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
 School Group Walkabout Tours
 Scout Classes
 Stingray Beach
 Student Workshops
 The Wildlife Show

Touch Tank
 World Biomes Program
 Youth Volunteer Program

Field Conservation

American Bird Conservancy (ABC) – Bird Strike
 Amphibian Conservation Area
 Amphibian Enhancement in Urban Areas
 Amur Leopard and Tiger Alliance (ALTA)
 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 – Vaquita
 AZA Tiger SSP – Tiger Conservation Campaign
 Bat Conservation International (BCI)
 Bermuda Fern Project
 Black-Footed Cat Project
 Botswana Predator Conservation Trust (BPCT)
 Cheetah Conservation Fund (CCF)
 Citizen Science: Butterfly, Amphibian
 Colobus Conservation, Ltd.
 Conservation Centers for Species Survival (C2S2)
 Conservation of Madagascar's Endemic Orchids
 Dian Fossey Gorilla Fund International
 Giant Armadillo: The Pantanal Project
 Giraffe Conservation Foundation (GCF)
 Gladys Porter Zoo – American Crocodile Conservation
 Honduras Amphibian Rescue and Conservation Center (HARCC)
 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
 Northern Tuli Predator Project – Botswana
 Okapi Conservation Project
 Polar Bears International (PBI)
 Rare and Endangered Plant Program
 Red Panda Network (RPN)
 Salt Creek Tiger Beetle
 Save Our Seabirds
 SEXual CORal REproduction (SECORE)
 Southern African Foundation for the Conservation of Coastal Birds (SANCCOB)
 Swaziland Rhinoceros Protection and Conservation
 Torotorofotsy Project
 Turtle Survival Alliance (TSA) – Turtle Survival Center
 Wildlife Conservation Society (WCS) – 96 Elephants
 Wildlife SOS – India

Green Practices

ENERGY

Documented Amount Spent
 Documented Amount Used
 Documented Square Footage of Conditioned Space
 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

Commingled Recycling
 Composting On-Site or Off-Site
 Denitrification Systems
 Graywater Reuse and/or Rainwater Harvesting
 Local Food Procurement for Animals and/or Guests
 Solar or Wind Energy Generation
 Water-Wise 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
 Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent
 Documented Amount Used

Mission-Focused Research

African Elephant Project
 Browse Nutrition Initiative
 Conservation, Propagation, Genetics and Reintroduction of the Yellow Lady's Slipper Orchid in Nebraska
 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
 Dietary Influence on Measures of Oxidative Stress and Its Influence on Various Phenotypes
 Factors Affecting Breeding Success in Zoo Managed Male Snow Leopards (*Panthera uncia*)
 Influence of Zoo-Housing on Behavior in African Elephants (*Loxodonta africana*)
 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

Study on Morbidity and Mortality in North American
Managed Amur Leopards

Torotorofotsy Project: Data Analysis

RIVERSIDE DISCOVERY CENTER

Education Programs

Animal Encounters

Breakfast With the Bears

Career Shadow

Discovery Chat

Eclipse at the Zoo

Field Trips

Global Tiger Day

Guided Zoo Tours

Li'l Explorer Camp

Party for the Planet

Scout Programs

Sensory Safari West

Spooktacular

Sustainable Seafood Watch Cards

Teddy Bear Clinic

Wild Kratts

Wild Lights

Zoo Camps

Zoofari

SHARK REEF AQUARIUM AT MANDALAY BAY

Field Conservation

Captive Breeding and Management of Hybrid Pupfish
(*Cyprinodon diabolis* x *Cyprinodon mionectes*)

Komodo Conservation

Reef Check

The Ocean Project

Mission-Focused Research

Biological Cycling Project

Horseshoe Crab Molting

New Hampshire

SQUAM LAKES NATURAL SCIENCE CENTER

Field Conservation

Project OspreyTrack

New Jersey

ADVENTURE AQUARIUM

Education Programs

21st Century Community Learning Centers – Science
Enrichment

Behind the Scenes Tours

Classroom and Auditorium Programs

Community and Urban Science Enrichment (CAUSE)
Summer Camp

Community and Urban Science Enrichment (CAUSE)
Program

Deep Sleep

Embedded School Programming

Field Trip Planner

Fins for the Future

High School Student Shadow Program

Hippo Awareness Weekend

Marine Advanced Technology Education (MATE) – Remotely-
Operated 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

Sea Turtle Awareness Weekend

Shark Awareness Weekend
 Summer Seafari Camp
 Teacher E-Newsletter
 Teacher Professional Development
 Teen Marine Institute
 That's A-Moray: Love Below Sea Level (Valentine's Event)

Field Conservation

AZA FrogWatch USA
 AZA SAFE – African Penguin Artificial Nest Box Program
 Bald Eagle Nest Monitoring
 Feathers for Native Americans
 Horseshoe Crab Rearing
 OCEARCH
 RiverSweep
 Sea Turtle Conservancy
 South-East Zoo Alliance for Reproduction and Conservation (SEZARC)
 Southern African Foundation for the Conservation of Coastal Birds (SANCCOB)
 Turgwe Hippo Trust
 United States Fish and Wildlife Service (USFWS) – Canine Handler Program

Green Practices

ENERGY

Documented Amount Spent
 Documented Amount Used
 Documented Square Footage of Conditioned Space
 Purchased Renewable Energy

GREEN PRACTICES IMPLEMENTED

Building Energy Management
 Commingled Recycling
 Denitrification Systems
 Green Information Technology (IT)
 Wastewater Reduction

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

WASTE

Documented Amount Recycled
 Documented Amount Sent to Landfill

WATER

Documented Amount of Wastewater Generated
 Documented Amount Spent
 Documented Amount Used

Mission-Focused Research

Assessing the Health of Atlantic Shark Populations via Hematology, Plasma Biochemistry, Protein Electrophoresis, Cholesterol Electrophoresis and Acute Phase Proteins
 Mortality Event in Mixed-Species Indo-Pacific Tropical Fish From the Myxozoan *Enteromyxum leei*
 Physiological Effects of Capture Stress in the White Shark
 Semen Analysis of White Sharks
 Semen Collection, Analysis and Storage in Bamboo Sharks

BERGEN COUNTY ZOOLOGICAL PARK

Education Programs

96 Elephants
 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
 Bear Aware Day
 Bison Day
 Brownie Bugs
 Colors and Shapes
 Duck Day
 Endangered Species Day

Fur, Feathers and Ferns

Hawks Over the Hudson

In My Backyard

Night Owls

Nocturnal Gators

Party for the Planet

Playtime at the Zoo

Recycled Art

Save the Eagles Day

Science 101

Scout Day

Sheep Shearing

Spineless Wonders

Super Science Days and Career Days

Theme Day Story Times

Toddler Tales

Wetlands Day

Wild and Crafty Animal Tales

Wild Pets

World Farm Animals Day

World Tapir Day

Zoo Babies

Zoo Camp

Zoo Careers

Zoo Kids

CAPE MAY COUNTY PARK ZOO

Field Conservation

Vaquita Conservation, Protection and Recovery (Vaquita CPR)

JENKINSON'S AQUARIUM

Field Conservation

American Littoral Society

AZA Conservation Grants Fund (CGF)

AZA SAFE - Vaquita Rescue Project

Channel Islands Marine and Wildlife Institute

Clean Ocean Action

Delaware Bay Horseshoe Crab Spawning Survey

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 Ocean Project

Turtle Survival Alliance (TSA)

Wildlife Center Friends

Green Practices

ENERGY

Documented Amount Used

FOOD

Sourced Local Food or Grew It On-Site

Mission-Focused Research

Beach Sweeps (Bi-Annual Coastal Cleanup)

Horseshoe Crab Surveys

National Captive Elasmobranch Census

Operation Oyster

Seabird Ecological Assessment Network (SEANET)

TURTLE BACK ZOO

Field Conservation

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

Bat Houses

Bird Nest Boxes

Chicago Zoological Society - Pangolin Conservation Consortium

Honey Bee Conservation

Horseshoe Crab Tagging

Sea Turtle Recovery (STR)

New Mexico

ALBUQUERQUE BIOLOGICAL PARK

Education Programs

Animal Encounters at the Aquarium
 Aquarium Overnights
 BioVan and Rio Rangers
 Monthly Lecture Series
 Preschool Program
 Spring Break Camps
 Summer Camps
 Summer Evening Tours
 World Animal Encounters Show
 Zoo to You

Field Conservation

Abidjan Zoo Project: Côte d'Ivoire
 Amur Leopard and Tiger Alliance (ALTA)
 Aquatic Conservation Facility (ACF)
 Asian Elephant Support (AES)
 AZA Ape TAG – Conservation Group
 AZA Crocodilian Advisory Group (CAG)
 AZA Crocodilian Advisory Group (CAG) – Toledo Zoo
 Department of Herpetology
 AZA Guam Kingfisher SSP – Philadelphia Zoo
 AZA Jaguar SSP – Wildlife Conservation Society (WCS)
 Cockscomb Ranger Project
 Bahamas National Trust (BNT)
 Botanic Gardens Conservation International (BGCI) at
 Chicago Botanic Garden
 Center for Plant Conservation
 Cheetah Conservation Fund (CCF)
 Coral Propagation
 Dian Fossey Gorilla Fund International
 Fauna and Flora International (FFI)
 Giraffe Conservation Foundation (GCF)
 Hornbill Research Foundation (HRF) – Nest Adoptions in
 Thailand
 International Animal Rescue (IAR)

International Iguana Foundation (IIF)
 International Rhino Foundation (IRF)
 International Vulture Programme
 IUCN/SSC Asian Wild Cattle Specialist Group – Saola
 Working Group
 Jane Goodall Institute
 Lion Tamarins of Brazil Fund
 Narrow-Headed Garter Snake Field Research and Captive
 Propagation
 Native Species Program – Herpetology
 New Nature Foundation (NNF)
 Ocean Conservancy
 Painted Dog Research Trust
 Pan African Sanctuary Alliance (PASA)
 Polar Bears International (PBI)
 Pollinators
 Project Oso
 Red Apes – Orangutan Conservation
 Reef Environmental Education Foundation (REEF) –
 Donation
 Snow Leopard Trust (SLT)
 Socorro Dove Conservation
 Tasmanian Devil Research Fund
 The Ocean Project
 The Peregrine Fund
 The University of Minnesota Raptor Rehabilitation
 The Xerces Society
 Tree Kangaroo Conservation Program
 Turtle Survival Alliance (TSA)
 World Parrot Trust (WPT)
 Zoo Conservation Outreach Group (ZCOG)

Mission-Focused Research

Chimpanzee Anesthesia Study
 Chronic Respiratory Disease in Orangutans: Signs, Symptoms
 and the Search for the Cause
 Developing Genomic Tools for North American River Otter
 (*Lontra canadensis*) Population Management
 Elephant Endotheliotropic Herpesvirus (EEHV) Research
 Gorilla Angiotensin-Converting Enzyme (ACE) Inhibitor
 Study

Health Survey Including Selected Blood Parameters in the African Slender Snouted Crocodile (*Mecistops cataphractus*) at the Abidjan Zoo, Côte d'Ivoire

The Giraffe Plasma Bank and the Butterfly Effect

Thermoregulation in Polar Bears

LIVING DESERT ZOO AND GARDENS STATE PARK

Field Conservation

Bolson Tortoise Program

Green Practices

ENERGY

Generated Renewable Energy On-Site

FUEL

Documented Amount Spent

Documented Amount Used

New York

BUFFALO ZOO

Education Programs

Birthday Parties

Buffalo Zoo Preschool

Cub Club Preschool Program

Day Camps – Spring, Summer and Winter

Distance Learning Programs

Educator's Guide

Gnus – Docent Newsletter

Guided Tours

Homeschool Programs

Junior Zoo Teen Naturalist Program

Living Treehouse

On-Site School Programs

Outreach Programs

Scout Badge Programs

Sidewalk Safari Carts

Strolling Around the World Stroller Program

Wild Weekend Workshops

Zoo Quests

Zoo Snooze Overnight Program

Zoo Teen Naturalist Program

Field Conservation

Asian Elephant Support (AES)

AZA Amphibian TAG

AZA Conservation Grants Fund (CGF)

AZA Eastern Massasauga Rattlesnake SSP – Population Monitoring

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

AZA SAFE – Vaquita Project

Buffalo Niagara RIVERKEEPER

CONSERVET

Friends of Laguna Atascosa Refuge

Fundación Albergue de Animales de Nosara

Gorilla Rehabilitation and Conservation Education (GRACE) Center

International Rhino Keepers Association (IRKA)

Panthera

Polar Bears International (PBI)

Sahara Conservation Fund (SCF)

Snow Leopard Trust (SLT)

Turtle Survival Alliance (TSA)

Wildlife Conservation Network (WCN) – The Ara Project

Wildlife Conservation Society (WCS) – 96 Elephants

Green Practices

FOOD

Sourced Local Food or Grew It On-Site

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Community-Based Sustainability Projects

Composting On-Site or Off-Site

Graywater Reuse and/or Rainwater Harvesting

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

WASTE

Documented Amount Composted

Documented Amount Sent to Landfill

ROSAMOND GIFFORD ZOO AT BURNET PARK

Field Conservation

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

Amphibian Ark

AZA SAFE

Belize Zoo and Tropical Education Center

Eastern Massasauga Recovery Program (MACHAC)

International Elephant Foundation (IEF)

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Laguna Atascosa National Wildlife Refuge

Lion Guardians

Red Panda Network (RPN)

Mission-Focused Research

Evaluation of 25-Hydroxyvitamin D in Asian Elephants (*Elephas maximus*) Using Dried Blood Spots Analyzed by Liquid Chromatography Tandem Mass Spectrometry

SENECA PARK ZOO

Field Conservation

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

Amur Leopard and Tiger Alliance (ALTA)

Butterfly Beltway

Chittenango Ovate Amber Snail Annual Count

Conservation Meters Dedicated to Coral Reef Conservation in Palau and Rainforest Conservation in the Pantanal

Conservation Through Poverty Alleviation, International (CPALI)

Eastern Massasauga Rattlesnake Mark and Recapture

Gibbon Field Work in Gunung Palung National Park

Grow Native

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

Lemur Conservation Foundation

Madagascar Fauna and Flora Group (MFG)

Orangutan Outreach – Missing Orangutan Mothers (MOM)

Polar Bears International (PBI)

Snow Leopard Trust (SLT)

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

Stony Brook Foundation / Institute for the Conservation of Tropical Environments (ICTE)

Turtle Survival Alliance (TSA)

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Purchased Renewable Energy

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

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

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting On-Site or Off-Site

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

STATEN ISLAND ZOO

Education Programs

Animal Training Demonstrations

Animals and Storytelling

Autism Awareness Day

Breakfast and Lunch With Santa

Breakfast With the Beasts

Breakfast With the Bunny

Cheetah Conservation Fund Education Program

Climate Change Educator Evening

Conservation Celebration

Cultural After School Adventure Program (CASA)

Dinosaurs and Fossils

Docent Presentations

Docent Program – Training

Education Animal Presentations

Endangered Species Day

Extreme Raptors

Girl Scout Day

Gyotaku

I Heart the Zoo

In-Zoo Education Programs

Kid Fun Days

Penguin Day

Public Education/Outreach

School Partnership Programs

Science, Technology, Engineering and Mathematics (STEM) Wildlife Camp

Serpent Day

Sharing is Caring

Shear Madness / Farm Day

Special Needs Adult Programming

Spooktacular

Spring Zoofari

Teacher Professional Development

Traveling Zoo Education Programs

Urban Advantage – Student Programming

Urban Advantage – Teacher Training

World Turtle Day

Zoofari Summer Counselor-in-Training (CIT) Program

Zoofari Summer Programming

Field Conservation

AZA FrogWatch USA – Volunteers

Belize Tapir Project

Blue Heron BioBlitz

Mabula Ground Hornbill Project (MGHP)

Mission-Focused Research

Comparing Two Anti-Parasitic Medications in *Dendrobates tinctorius*

Consortium for the Barcode of Life

TREVOR ZOO

Education Programs

Birthday Party Presentations

Climate Change Exhibit Media

College Volunteer and Fieldwork Program

Conservation Handouts

Group Animal Presentations On-Site

Keeper Talks

Millbrook School Community Service

Science Presentation Off-Site

Science Research Program

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

Veterinary Technician Program

Field Conservation

AZA SAFE – Support

Bog Turtle Population Analysis and Habitat Restoration

Invasive Species Control: Pale Swallowwort

Madagascar Fauna and Flora Group (MFG) – Conservation Efforts

Red Panda Network (RPN)
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 CERTIFICATIONS

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

GREEN PRACTICES IMPLEMENTED

Commingled Recycling
Community Solar Program
Composting On-Site or Off-Site
Green Building Policy / Commitment
Green Purchasing Policy / Green Procurement
Greenhouse Gas (GHG) Inventory
Solar or Wind Energy Generation
Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices
Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices
Developed or Updated a Sustainability Plan (or Equivalent)
Developed or Updated a Sustainability Policy

Mission-Focused Research

Arkansas Center for Biodiversity Collections
Elimination of an Inherited Form of Blindness in the Endangered American Red Wolf (*Canis rufus*)
Red Panda Fecal Survey

Understanding the Link Between Gut Microbiomes and Inflammatory Bowel Disease in the Red Wolf

WILDLIFE CONSERVATION SOCIETY

Education Programs

Adult Overnight
Adult Programs
Adult Volunteer Interpretation
Advanced Inquiry Program (AIP)
After-School Programs
Birthday Parties
Brooklyn Cultural Adventures Program
Community Outreach Program / Special Events
Discovery Guides
Family Overnight Adventures
Guided Tours
Informal Programs – Adult Programs
Informal Programs – Children and Families
Informal Programs – Scouts
Nature Club
Professional Development Courses
Project TRUE (Teens Researching Urban Ecology)
Scavenger Hunts
Urban Advantage
WCS-U
Wildlife Conservation Corps
Wildlife Inquiries Nature Club
Wildlife Theater
Youth Advisory Council (YAC)
Youth Employee Advisory Council (YEAC)
Youth JIVE (Job, Internship and Volunteering Expo)
Youth Ocean Conservation Summit
Zoo and Aquarium Summer Camp
Zoo Play Classes
Zoo Quests

Field Conservation

AZA Komodo Dragon SSP – Conservation Fund
AZA SAFE

Curatorial Conservation Project – Cuban Crocodile Breeding Facility Support and Reintroduction Effort	International Rhino Foundation (IRF)
Curatorial Conservation Project – Extinct-in-the-Wild Fishes of Madagascar	IUCN/SSC Conservation Planning Specialist Group (CPSG)
Curatorial Conservation Project – Extinct-in-the-Wild Lake Victoria Cichlids	New England Cottontail Rabbit Conservation Project
Curatorial Conservation Project – Gharial Ecology Project	Turtle Survival Alliance (TSA)
Curatorial Conservation Project – Headstart Program for Eastern Hellbender	Veterinarian and Pathological Project – Philippine Forest Turtles Confiscation Event
Curatorial Conservation Project – Monitoring of Flamingo Taxa in the Altiplano Region of Bolivia	Veterinarian Project – Health Assessment and Disease Surveillance of Burmese Star Tortoises
Curatorial Conservation Project – Neotropical Bat Survey, Trinidad	Veterinarian Project – Health Assessment and Disease Surveillance of Confiscated Yellow Tortoises
Curatorial Conservation Project – New York Seascape	Veterinarian Project – Health Assessment and Disease Surveillance of Grand Cayman Iguanas
Curatorial Conservation Project – Phylogeography of Rockhopper Penguins	Veterinarian Project – Health Assessment of Common Loons in the Adirondacks
Curatorial Conservation Project – Propagation of the Extinct-in-the-Wild Kihansi Spray Toad	Veterinarian Project – Health Assessments of Bog Turtles in the Northeastern United States
Curatorial Conservation Project – Puerto Rican Crested Toad Propagation	Veterinarian Project – Health Assessment, Reproductive Research and Telemetry Studies of Atlantic Ocean Sharks
Curatorial Conservation Project – Resident Bat Species in the Bronx, New York	Veterinarian Project – Myanmar Big-Headed Turtles Confiscation (Clinical and Pathology)
Curatorial Conservation Project – Support of the Madras Crocodile Bank Trust, King Cobra Ecology Project	Veterinarian Project – Population Survey and Health Assessments of Turtles in the Bronx River
Curatorial Conservation Project – Translocated Howler Monkey Survey	Wildlife Conservation Society (WCS) – 96 Elephants
Education and Curatorial Conservation Project – Billion Oyster Project	Wildlife Health Program – Assessing White-Nose Syndrome in the West
Education and Research Project – Monitoring of Shorebird Migration Through the New York Bight Using Nano-Tag Technology	Wildlife Health Program – Central New York
Education Project – Hosting Harbor School Dive Program	Wildlife Health Program – Democratic Republic of Congo
Global Conservation Projects – Africa	Wildlife Health Program – Glovers Reef Sea Turtle Health Assessments
Global Conservation Projects – Asia	Wildlife Health Program – Identification of Regulated and Endangered Shark Species in the Illegal Wildlife Trade in Indonesia
Global Conservation Projects – Challenges and Central Initiatives	Wildlife Health Program – Laos and Cambodia One Health Network (LACANET)
Global Conservation Projects – Conservation Science and Solutions	Wildlife Health Program – Latin America
Global Conservation Projects – Latin America and the Caribbean	Wildlife Health Program – Medical and Husbandry Management of Confiscated African Grey Parrots in the Congo-Brazzaville
Global Conservation Projects – Marine-Seascape Conservation	Wildlife Health Program – Predict
Global Conservation Projects – North America	Zoo Health Program – Assessing Arctic Migratory Bird Health in the Context of Climate Change
International Iguana Foundation (IIF)	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 – Genetic Testing On-The-Go:
Developing a Field-Friendly Method of Environmental
DNA (eDNA) Detection of Turtle Species Using a Handheld
Quantitative PCR Machine and DNA Field Extra

Zoo Health Program – Health Assessment, Pre-Release
Health Screening and Disease Surveillance of Southern
River Terrapin in Cambodia

Mission-Focused Research

Curatorial Research Project – Behavioral Modification in a
Polar Bear

Curatorial Research Project – Cryotherapy to Improve Animal
Welfare

Curatorial Research Project – Genetic Analysis of the Inca
Tern Colony at the Wildlife Conservation Society (WCS)/
Bronx Zoo

Curatorial Research Project – Population Monitoring of
Canada Geese in the Bronx Zoo

Curatorial Research Project – Proximate Mechanisms for
Physiological Adaptations of the Gelada (*Theropithecus
gelada*) to High Altitude Biomes of the Simien Mountains,
Ethiopia

Curatorial Research Project – Use of Artificial Lek in the
Propagation of the Andean Cock-of-the-Rock

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
Ibises

Veterinarian Project – Parasitology of Callitrichids in the
Bronx Zoo Collection

Veterinarian Project – Pharmacokinetics of Ponazuril in Indian
Peafowl

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

Veterinarian Project – Retrospective Morbidity and Mortality
Review of Capercaillie in the Wildlife Conservation Society
(WCS) Collections

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

GREENSBORO SCIENCE CENTER

Field Conservation

AZA Conservation Grants Fund (CGF)

Centre ValBio at Stony Brook University

Monarch Butterfly Conservation Fund

North Carolina Coastal Land Trust

Oceana

Piedmont Land Conservancy

Project Seahorse

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

The Fishing Cat Conservancy

Vaquita Conservation, Protection and Recovery (Vaquita
CPR)

Green Practices

ENERGY

Documented Amount Spent

Generated Renewable Energy On-Site

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

Commingled Recycling
 Community-Based Sustainability Projects
 Composting On-Site or Off-Site
 Graywater Reuse and/or Rainwater Harvesting
 Stormwater Management Program
 Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Mission-Focused Research

Bat Species Utilization of Forest Canopy
 Box Turtle Connection Project
 Candid Critters
 Carolina Calling Amphibian Program

MUSEUM OF LIFE AND SCIENCE**Education Programs**

Girl Scout Programs
 Homeschool Programs
 Keeper Talks
 School Programs
 Summer Camp
 The Lab

NORTH CAROLINA AQUARIUM AT FORT FISHER**Education Programs**

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
 Feeding Presentations

General Outreach
 Homeschool Programs
 Indoor Programs
 Outdoor Exploration Programs
 Outreach Events
 Scout Programs
 Sea Scholars
 Sea Turtle Teacher Workshop
 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 Characterization in the Cape Fear River
 Elasmobranch Reproductive Studies
 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
 Sand Tiger Shark Identification
 Sea Turtle Stranding Response Team
 The Ocean Project
 Theodore Roosevelt Nature Inventory
 Vaquita Conservation

Green Practices**ENERGY**

Documented Amount Spent
 Documented Amount Used
 Documented Square Footage of Conditioned Space

FUEL

Documented Amount Spent
 Documented Amount Used

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Policy

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Fish Propagation Programs in North Carolina Aquariums

Herpesvirus in Green and Loggerhead Sea Turtles

Investigation of the Metabolome Following Different Capture Techniques of the Bonnethead Shark (*Sphyrna tiburo*)

NORTH CAROLINA AQUARIUM AT PINE KNOLL SHORES**Education Programs**

Animal Encounters

Behind the Scenes Tours

Camp Programs

Digital Puppetry Program

Distance Learning

Dive Presentations

Early Childhood Education Programs

Feeding Presentations

Fishing Programs

Kids' 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

Small Group Outreach Programs

Sustainable Seafood Programs

Teacher Workshops

Teen Programs

Themed Daily Programs

Field Conservation

Aquarium Conservation Partnership (ACP)

Conservation Coordination

Elasmobranch Characterization in the Cape Fear River

Elasmobranch Reproductive Studies

Habitat Use of Sand Tiger Sharks

Lionfish Management

Marine Mammal Stranding Response

Sand Tiger Shark Identification

Sea Turtle Stranding Network

The Ocean Project

Theodore Roosevelt Nature Inventory

Vaquita Conservation

Green Practices**ENERGY**

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

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 North Carolina GreenTravel Organization

Certified as an Ocean Friendly Establishment

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Composting On-Site or Off-Site

Construction Waste Diversion / Recycling

Graywater Reuse and/or Rainwater Harvesting

Green Information Technology (IT)

Local Food Procurement for Animals and/or Guests

Purchasing Green Power or Renewable Energy Credits (RECs)

Solar or Wind Energy Generation

Stormwater Management Program

Wastewater Reduction

Water-Wise 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 Policy

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Fish Propagation Programs in North Carolina Aquariums

Herpesvirus in Green and Loggerhead Sea Turtles

Investigation of the Metabolome Following Different Capture Techniques of the Bonnethead Shark (*Sphyrna tiburo*)

Painted Bunting Observation and Monitoring Project

NORTH CAROLINA AQUARIUM ON ROANOKE ISLAND

Education Programs

Adult Craft

All About Sharks

Alligator Encounter

Alligator Feeding

Aquarist for the Day

Aqua-Tots

Beach Exploration

Behind the Scenes Tours

Believe It or Not

Big Sweep

Birthday Parties

Breakfast With the Rays

Build a Better World

Career Fairs

Catch a Crab

Celestial Navigation

Certified Interpretive Guide Workshop

Certified Interpretive Host Workshops

Cold Blooded Critters Tour

Creating Change

Creature Features

Day Camps

Dialogue With the Diver

Disaster Zone

Distance Learning

Earth Day

Educational Videos

Endangered Species Day

Ends of the Earth

Explorations in Your Schoolyard

Fish Feeding

Flying Reptiles

Freaks By Nature

Freshwater Turtles

Getting to Know: Owls

Great White Fishmas

Guide to the Solar System: SOS Program

Half-Day Camps

Happy Otter Hour

Impromptus

Jellies

Lights Out!

Lobby Feed

Marine Invertebrate Lab

Marine Mammals

Nature of the Outer Banks

Nautical Wreaths

Noxious Nature

Ocean Jeopardy

Ocean Rescue Training

Oceans 101

Octopus
 Otter Enrichment
 Otter Quarters Tours
 Paddling Around Roanoke Island
 PM Live Animal and Tour
 Quarantine Tours
 Rescue Men
 Saltwater Badge Program
 Sea Turtle Assistance and Rehabilitation Center (STAR) Tour and Program
 Sea Turtle Egg Hunt
 Sea Turtle Encounter
 Sea2Sound Walking Field Trip
 Seafood Series
 Shark Bites
 Shark Dissection
 Shark Feeding Program
 Shark Tank Tour
 Sleeping With the Sharks
 Snake Encounter
 Squid Dissection
 Standup Paddleboarding
 Stingray Feeding
 Summer Camp
 Tail Spin
 Terrific Turtles
 Touch Tank Animals
 Trick or Treat Under the Sea
 Wandering Nomads: Turtles
 Weather or Not
 Wetland Walks
 What's the Catch

Field Conservation

Aquarium Conservation Partnership (ACP)
 Conservation Coordination
 Elasmobranch Characterization in the Cape Fear River
 Habitat Use of Sand Tiger Sharks
 Lionfish Management

Marine Mammal Stranding Response
 Outer Banks Marine Mammal Stranding Network
 Sand Tiger Shark Conservation and Management
 Sand Tiger Shark Identification
 Sea Turtle Rehabilitation
 The Ocean Project
 Theodore Roosevelt Nature Inventory
 Vaquita Conservation

Green Practices

GREEN PRACTICES IMPLEMENTED

Building Energy Management
 Commingled Recycling
 Composting On-Site or Off-Site
 Construction Waste Diversion / Recycling
 Graywater Reuse and/or Rainwater Harvesting
 Green Building Policy / Commitment
 Green Purchasing Policy / Green Procurement
 Local Food Procurement for Animals and/or Guests
 Solar or Wind Energy Generation
 Stormwater Management Program
 Wastewater Reduction

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices
 Developed or Updated a Sustainability Plan (or Equivalent)
 Developed or Updated a Sustainability Policy

Mission-Focused Research

Fish Propagation Programs in North Carolina Aquariums
 Herpesvirus in Green and Loggerhead Sea Turtles
 Investigation of the Metabolome Following Different Capture Techniques of the Bonnethead Shark (*Sphyrna tiburo*)

NORTH CAROLINA ZOO

Field Conservation

AZA Conservation Grants Fund (CGF)
 Big Cat and Other Wildlife Conservation in Southern Africa
 Carolina Gopher Frog Headstarting

Conservation Medicine

Conservation of Avifauna on the Mariana Islands

Conservation of Elephants and Other Wildlife in Nigeria's
Yankari Game Reserve

Conservation of Vultures in Tanzania

Cross River Gorilla Monitoring in Nigeria and Cameroon

Hellbender Surveys in Western North Carolina

Local Land Purchase and Management

Monarch Watch – Monarch Waystation Program

Namibia Rhino Conservation

Polar Bears International (PBI)

Puerto Rican Crested Toad Conservation

Red Wolf Breeding and Reintroduction

Snare Removal Patrols in Kibale National Park, Uganda

Spatial Monitoring and Reporting Tool (SMART)
Conservation Monitoring Software DevelopmentSurvey of Amphibians and Reptiles at the North Carolina
Zoological Park

The Elephants of Cameroon

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

Documented Square Footage of Conditioned Space

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 North Carolina GreenTravel Organization

Certified Under ISO 14003

Recognized as a “Steward” Under the North Carolina
Environmental Stewardship Initiative**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 Information Technology (IT)

Green Purchasing Policy / Green Procurement

Local Food Procurement for Animals and/or Guests

Smart Buildings Systems

Solar or Wind Energy Generation

Stormwater Management Program

Usage of an Environmental Management System

Usage of Enterprise (IT) Solutions To Track, Measure and
Dashboard Sustainability Performance

Wastewater Reduction

Water Submetering

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETSDedicated Full-Time Equivalent (FTE) Staff to Coordinating
Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

Documented Amount Spent on Landfill Waste

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Mission-Focused 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

Baboon Healing Study

Chimp Cognition Study

Chimpanzee Behavior Study

Cross River Gorilla Disease Transmission 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 Enrichment

Elephant Nutrition Study

Gorilla Enrichment

Pine Barrens Treefrog Habitat Use and Conservation

Polar Bear Behavior

Sand Cat Behavior

Snake Mark-Recapture Study

Study of Visitor Perception on Zoofari Versus at Plains Exhibit

Visitor Studies

SEA LIFE CHARLOTTE-CONCORD AQUARIUM**Field Conservation**

Rocky River Stream Cleanup

Green Practices**ENERGY**

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Community-Based Sustainability Projects

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

WESTERN NORTH CAROLINA NATURE CENTER**Education Programs**

Cataloochee Valley Elk Family Camp Out

Field Conservation

American Chestnut Tree Recovery Program

Appalachian Wildlife Refuge – Host Site

Asheville Mushroom Club – 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)

National Oceanic and Atmospheric Administration (NOAA) – Community Collaborative Rain, Hail and Snow Network (CoCoRaHS) Collaborative Monitoring Site

Trout in the Classroom – Trout Headstart Program

Wildlife Rehabilitation Training – Western North Carolina Region

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 Information Technology (IT)

Local Food Procurement for Animals and/or Guests

Water-Wise Landscaping

North Dakota

DAKOTA ZOO**Field Conservation**

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

AZA FrogWatch USA

AZA SAFE - Vaquita Conservation Initiative

AZA Tiger SSP - Tiger Conservation Campaign

Bison Collaring Project - Theodore Roosevelt National Park

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

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.

US Fish and Wildlife Service (USFWS) Prairie Dog Burrow Dusting, Metetsee, Wyoming

RED RIVER ZOO**Field Conservation**

AZA FrogWatch USA

AZA SAFE - Vaquita Conservation

Conservation Research Center: The Baviary

Mission-Focused Research

North Dakota State University (NDSU)

Potential Multi-Species Pregnancy Test

ROOSEVELT PARK ZOO**Education Programs**

AZA FrogWatch USA

Canvas, Corks and Conservation

Family and Friends Snore-n-Roar

On-Site Outreach

Snore-n-Roar

Summer Zoo Camp

Winter Zoo Camp

Zoo to You Outreach

Zoo Tots

Field Conservation

AZA Conservation Grants Fund (CGF)

AZA FrogWatch USA

Black-Footed Ferret Spotighting

Care for Karamoja

Snow Leopard Trust (SLT)

Green Practices**ENERGY**

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

Purchased Renewable Energy

FUEL

Documented Amount Spent

GREEN PRACTICES IMPLEMENTED

Smart Buildings Systems

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

WASTE

Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent

Mission-Focused Research

Nutrient Analysis of Frozen Browse

Ohio

AKRON ZOOLOGICAL PARK**Education Programs**

AZA FrogWatch USA

Career Programs

Early Childhood Programs

Grizzly Bear Training Wall Talk

Homeschool Programs

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) – Bowling for Rhinos

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

AZA FrogWatch USA

AZA Tiger SSP – Tiger Conservation Campaign

Chengeta Wildlife

Endangered Wolf Center

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

Rebuilding the Pride – African Lion Conservation

Red Panda Network (RPN)

Red Wolf Coalition

Sexual Reproduction of Acroporid Corals in the Florida Keys to Create Genetically Diverse “Seed” Stock for Future Reef Restoration Efforts

Snow Leopard Trust (SLT)

Turtle Survival Alliance (TSA)

Vaquita Conservation, Protection and Recovery (Vaquita CPR)

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

Documented Square Footage of Conditioned Space

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 Used

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

Certified as Kulture City Sensory Friendly

Certified by the Green Restaurant Association

Documented Square Footage of Facility With Green Building Certification

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 Offset Purchase for On-Site Utility Use

Carbon Offsets for Employee Travel

Commingled Recycling

Composting On-Site or Off-Site

Construction Waste Diversion / Recycling

Energy Submetering

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy / Commitment

Green Information Technology (IT)

Green Purchasing Policy / Green Procurement

Greenhouse Gas (GHG) Inventory

Local Food Procurement for Animals and/or Guests

Purchasing Green Power or Renewable Energy Credits (RECs)

Smart Buildings Systems

Solar or Wind Energy Generation

Stormwater Management Program

Wastewater Reduction

Water Submetering

Water-Wise Landscaping

GREENHOUSE GAS EMISSIONS

Reported Greenhouse Gas Emissions to a Climate Registry

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

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

WASTE

Documented Amount Composted

Documented Amount Spent on Landfill Waste

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Akron Zoo – Hiram College Partnership

CINCINNATI ZOO AND BOTANICAL GARDEN

Education Programs

Adult Programs

Advanced Inquiry Program (AIP)

America Recycles Day

Barrows Conservation Lecture Series

Behind the Scenes Experiences

Cat Ambassador Outreach Program

Center for Conservation and Research of Endangered Wildlife (CREW) Tours

Cheetah Encounter Show

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

Nocturnal Adventure Overnights

School Close Encounters

Seasonal Highlights

Self-Guided Activities and Tours for Schools

Teen TRIBE (Teen Recruits Inspiring by Example)

University of Cincinnati "At the Zoo" Courses

VolunTeens – Camp Counselor Assistants

Wild Animal Encounters

Wildlife Discovery Zones

Wings of Wonder Bird Show

Wings of Wonder Outreach Program

Zoo Camp

Zoo on the Move – Community

Zoo on the Move – Schools

Zoo Troop

Field Conservation

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

American Burying Beetle (ABB) Reintroduction Program

Angel Fund – Cheetah Outreach

Angel Fund – Ruaha Carnivore Project

Asian Elephant Support (AES)

Autumn Buttercup (*Ranunculus aestivalis*) Reintroduction

Black-Footed Cat Working Group

Botswana Predator Conservation Trust (BPCT)

EcOhio Wetlands

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

Lion Center at the University of Minnesota

Manatee Conservation Center of Puerto Rico

Manatee Rescue and Rehabilitation Partnership (MRP)

Northern Wild Monkshood (*Aconitum noveboracense*)

Ocelot Conservation in Texas

Okapi Conservation Project

Painted Dog Research Trust

Pallas's Cat Conservation

Polar Bears International (PBI)

Pollen Nation

Propagation of Rugel's Pawpaw for Restoration

Propagation of *Trifolium stoloniferum* for Restoration

Raptor, Inc. – Local Raptor Rehabilitation

Red Panda Paintings

Reintroduction of Pygmy and Slow Lorises

Scarlet Macaw Conservation in the Mayan Biosphere Reserve, Peten, Guatemala

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

The Sloth Institute Costa Rica

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

Documented Square Footage of Facility With Green Building Certification

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

Participant in the Living Building Challenge

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Building Energy Management

Carbon Offset Purchase for On-Site Utility Use

Commingled Recycling

Community-Based Sustainability Projects

Construction Waste Diversion / Recycling

Energy Submetering

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy / Commitment

Green Purchasing Policy / Green Procurement

Greenhouse Gas (GHG) Inventory

Local Food Procurement for Animals and/or Guests

Purchasing Green Power or Renewable Energy Credits (RECs)

Smart Buildings Systems

Solar or Wind Energy Generation

Stormwater Management Program

Usage of Enterprise (IT) Solutions To Track, Measure and Dashboard Sustainability Performance

Wastewater Reduction

Water Submetering

Water-Wise Landscaping

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

A Kid's-Eye View of the Zoo

African Painted Dog Reproduction Study

Amdoparvovirus Infection in Red Pandas (*Ailurus fulgens*)

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

Behavioral Effects of Exposure to Red and Blue Light Wavelengths in Multiple Nocturnal Species Housed at the Cincinnati Zoo and Botanical Garden

Bonobo Fecal Sample Testing for Field Method Validation

Brazilian Jaguar Semen Banking and Artificial Insemination

Characterization of Milk Composition in Gorillas Throughout Lactation

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

Ecological Studies of Neotropical Primates

Exceptional Plant Signature Conservation Project

Fecal Corticoid Evaluation in Polar Bears

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

Genomic Sequencing of the Sumatran Rhinoceros

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

Investigating the Reproductive Biology of the Caracal

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

Mating Behavior and Chemical Communication of Necturus Salamanders

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

Otter Reproduction Program

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

Red Panda Reproductive Characterization

Rhino Signature Conservation Project

Small Cat Signature Conservation Project

Study of Red-Legged Seriema Behavior in Relation to Its Claws

The Orangutan Conservation Genetics Project

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

Use of Multiple Play Signals in Captive Immature Western Lowland Gorillas

Why Are Some Lemuriformes so Prone to Obesity in Captivity?

CLEVELAND METROPARKS ZOO

Education Programs

Advanced Inquiry Program (AIP)

Advocacy for Gorillas

Ballarat Theater Live Animal Show

Bead the Change for Elephants

Break Camps

Brown Bag Education Lunch Talks

Canines for Conservation

Career Day
 Certified Interpretive Guide Training
 Collaborative Inquiry Project
 Connections to Africa
 Create a Bear
 Distance Learning
 Docent Training
 Educator Open House
 Emerald Necklace Camp
 First Aid/CPR Training
 Future for Wildlife Training
 Get Close On Grounds
 Giraffe Café
 Giraffe Feeding Program
 Homeschool
 Inside Tracks
 Keeper for a Day
 National Network for Ocean and Climate Change
 Interpretation (NNOCCI) Trainings
 Nature Play Camp
 Nurture the Wonder
 On-Grounds Interpretation
 Online Resource Library
 Preschool Safari
 Professor Wylde's Traveling School Show
 Professor Wylde's Traveling Show – Events
 Rising Waters Adult Overnight Program
 Rising Waters Overnight Program
 Savanna Theater Live Animal Show
 Seals and Sea Lions
 Seasonal Interpreter Training
 Summer Day Camp
 Summer Day Camp Staff Training
 Tale of Coffee and Andean Bears
 Teacher Workshops
 Tickled to Extinction
 Tiger Tracks
 Veterinarian Bag Exploration for Schools

Veterinary Activity Bags – Public
 World Gorilla Day
 World Turtle Day
 Would This Animal Make a Good Pet?
 Zoo Crew – Summer
 Zoo Crew Interpretive Training
 Zoo Crew Year Round
 Zoo Nature Club
 Zoo Science and Management Course
 Zoo Tram Narration
 Zoo Volunteer Services

Field Conservation

Africa and Asia Seed Grants
 Amphibian Ark
 Andean Bear Conservation Alliance
 Asian Turtle Conservation Program
 AZA Ape TAG – Conservation Initiative
 AZA Conservation Grants Fund (CGF)
 AZA Puerto Rican Crested Toad SSP – Recovery Program
 AZA Tiger SSP – Tiger Conservation Campaign
 Bee Keeping for Human-Elephant Conflict Mitigation and
 Rural Income Enhancement
 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)
 Eastern Gorilla Conservation – Capacity-Building, Gorilla
 Monitoring and Core Support
 Eastern Gorilla Conservation – Technology Support
 Eastern Plains Gartersnake Conservation Project
 Education for Nature – Vietnam
 Giraffe Conservation Foundation (GCF)
 Human-Wildlife Conflict Collaboration / Center for
 Conservation Peacebuilding
 International Rhino Foundation (IRF)
 IUCN/SSC Conservation Planning Specialist Group (CPSG)
 Keeping Bees to Fight Poaching

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

Quarters for Conservation

Red Panda Network (RPN)

Ruaha Carnivore Project (RCP)

Savé Valley Rhino Conservancy

Scott Neotropical Fund Grants

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

Sniffing Out Poachers: Employing Conservation Dogs to Help Fight Wildlife Trafficking in Africa

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)

University of Rwanda Memoirs Program

WildAid

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

Mission-Focused Research

Assessing Welfare in Zoo-Housed Cheetahs Under Different Management Strategies

Barriers to Representing Globally Threatened Small Mammals in Zoos

Bear Behavior Monitoring

Behavioral Assessment of Zoo-Housed Felids

Characterization of Malagasy Bloodfed Mosquitoes

Collection Stewardship of Imperiled Small Cats

Constraints of Biomass on Innate Immunity Across Terrestrial Mammals

Determination of a Safe and Effective Dose of Nonsteroidal Anti-Inflammatories in Asian and African Elephants

Developing Assisted Reproductive Technologies in Freshwater Turtles

Developing Techniques for Studying Effects of a Novel Skin Disease on Locomotion in *Giraffa camelopardalis*

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

Dietary Factors Associated With Fecal Consistency and Other Indicators of Gastrointestinal Health in the Captive Tiger (*Panthera tigris*)

Disease Surveillance of Cleveland Metroparks Deer Herds

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

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

Ensuring Optimal Welfare for Ambassador Animals

Evaluating the Effects of Elevated Feeding Devices on African Elephant Behavior / Ongoing Elephant Monitoring

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

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

Gorilla Behavior and Health Monitoring

Identifying Biological Correlates of Captive Breeding Success

Infant Development and Parenting Behavior in the Pied Tamarin

In-House Monitoring of Steroid Hormone Metabolites in Urine Informs Breeding Management of a Giant Anteater

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

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

Locomotor Gait Characteristics of Zoo-Housed Gorillas: Does Space Matter?

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

Monitoring Effects of Anxiolytic Medication on Allen's Swamp Monkey

Oxytocin as a Measure of Social Bond and Welfare in Western Lowland Gorillas in North American Zoos

Primate Touchscreen Cognition Program

Regionally Restricted Activation of Smooth Muscle Cells and
Proteoglycan Distribution Underlie Rapid Closure of the
Umbilical Artery at Birth

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

Retrospective Review of Morbidity and Mortality in the
United States Sloth Bear Population

Salivary Sample Request for Validation of Oxytocin Assay for
Black Rhinoceros

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

The Orangutan Conservation Genetics Project

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

Which Methods of Quantifying Pacing Behavior Are Most
Effective?

Why Are Some Lemuriform Species so Prone to Obesity in
Captivity?

COLUMBUS ZOO AND AQUARIUM

Education Programs

Animal Encounters Village

Animals on Safari

Camp-Ins

Canvases for Conservation

Classroom Safari

College Tours

Homeschool Adventure Tours

Interpretive Contacts

Keeper Talks

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

Action for Cheetahs in Kenya – Cheetah Conservation and
Human Impact in Kenya

African Otter Network

Akagera National Park

Amphibian Ark

Asociación de Rescate y Conservación de Vida Silvestre
(ARCAS)

AZA Eastern Massasauga Rattlesnake SSP

AZA Roti Island Snake-Necked Turtle SSP – Genetic Identity
Project for Management Purposes

AZA SAFE – Vaquita

Blakiston's Fish Owls of the Western Sikhote, Alin Mountains:
Conservation Lessons From the Iman River Basin

Captina Conservancy – Hellbender Research and Assessment

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

Colobus Conservation, Ltd. – Colobridges

Columbus Zoo Conservation

Commitment to Conservation Award

Community-Based Conservation of Endangered Sea Turtles
Nesting Along the Akasa Coast, Bayelsa Nigeria

Comparative Health Assessment of Urban and Non-Urban
Mule Deer in the East Kootenay Region, British Columbia,
Canada

Danau Girang Field Centre – Bearded Pig

Dian Fossey Gorilla Fund International

Distribution of the Pancake Tortoise in Mwingi National Game
Reserve, Kenya

Eastern Plains Garter Snake State Recovery Program

EcoSwell – Green Lobitos: A Sanctuary for the Peruvian
Plantcutter

Efforts to Combat Illegal Trade on the Frontlines in Ho Chi
Minh City

- Establishing Effective Protected Area Management in the Democratic Republic of the Congo's New Iyondji Community Bonobo Reserve
- Freshwater Mussel Conservation and Research Center
- Giant Armadillo Project
- Hiroia Conservation Programme
- Human-Elephant Conflict and Conservation of the Critically Endangered Sumatran Elephant in Aceh, Sumatra
- Improving Ranger Efficiency in Detecting and Preventing Poaching in the Greater Serengeti Ecosystem
- 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
- IUCN/SSC Conservation Planning Specialist Group (CPSG)
- IUCN/SSC Otter Specialist Group
- Lake Erie Water Snake (*Nerodia sipedon insularum*) Census
- Lola Ya Bonobo – Integrated Bonobo Conservation in the Democratic Republic of Congo
- Lowland Tapir Conservation Initiative
- 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
- Mbeli Bai Study (MBS)
- Measuring Conservation Success: The Effect of Translocation on the Allostatic Load of Wild Sifaka Lemurs
- Migration in *Leptonycteris yerbabuenae*: Its Influence Over the Immune Condition of Bats and Conservation Implications
- Monitoring Disease Threats for the Reintroduction of the Endangered Iberian Lynx in Extremadura
- Mountain Gorilla Veterinary Project
- New Nature Foundation (NNF) – Kibale Fuel Wood Project
- Ngamba Island Chimpanzee Sanctuary Creating Awareness on Chimpanzee Conservation Through Local Radio Drama Shows in Western Districts of Uganda
- Nubian Giraffe Health Assessment During Relocation
- Ohio Wildlife Center
- Okapi Conservation Project
- Pan African Sanctuary Alliance (PASA)
- People and Carnivores – Carnivore and Rangeland Conservation on the Rocky Mountain Front
- Project WILDCAT
- Projet Conservation de la Forêt de Nyungwe (PCFN)
- Reintroduction of Scimitar-Horned Oryx to Chad
- Rescue and Rehabilitation of the Endangered African Penguin
- Rothschild's Giraffe Project
- Save the Tasmanian Devil Program
- Saving Endangered Grey Crowned Cranes in Rwanda
- Sea Turtle Conservation and Outreach Program in Bangladesh
- Sea Turtle Friendly Launch in Philippines
- SEXual CORal REproduction (SECORE)
- Siberian Tiger Project: Research, Training and Conflict Mitigation
- Snow Leopard Trust (SLT)
- Snow Leopard Trust (SLT) – Long-Term Ecological Study of Snow Leopards in Mongolia's South Gobi Province
- Status and Conservation of the West African Manatee
- Strengthening Przewalski's Horse Populations in Hustai Nuruu National Park, Mongolia
- Strong Roots
- Supporting Cisco Restoration in Northeast Lake Michigan
- Supporting the Anti-Snaring Activities of the South Luangwa Conservation Society
- The Impact of Traditional Asian Medicines on African Wildlife: The Role of East Asian Immigrants
- The Wilds – Education Outreach
- Tool Use in Bonobos
- Turtle Conservancy
- Turtle Conservation Project: Capacity Development Program in Sri Lanka
- Turtle Survival Alliance (TSA)
- Turtle Survival Alliance (TSA) – Central American River Turtle (Project Hicatee)
- Vulture Conservation Programme (VulPro) – Cape Vulture Rehabilitation and Release
- Wetland Conservation in the Gilchin River Watershed for Cranes and People

Wider Caribbean Sea Turtle Conservation Network (WIDECAST)

Wider Caribbean Sea Turtle Conservation Network (WIDECAST) – Latin America Program

Wild Nature Institute – Scientific Management for Community Conservation of African Ungulates

Wildlife Conservation Research Unit (WildCRU)

Zoos and Aquariums Committing to Conservation (ZACC)

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

FOOD

Sourced Local Food or Grew It On-Site

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified by the Green Restaurant Association

Documented Square Footage of Facility With Green Building Certification

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

Construction Waste Diversion / Recycling

Denitrification Systems

Energy Submetering

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy / Commitment

Green Information Technology (IT)

Local Food Procurement for Animals and/or Guests

Purchasing Green Power or Renewable Energy Credits (RECs)

Smart Buildings Systems

Stormwater Management Program

Water Submetering

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Policy

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Adaptive Value of Reciprocal Socio-Communicative Behavior in Great Apes

Asian Elephant Body Composition

Assessing Long-Term Stress in Great Apes: Allostatic Load in Bonobos

Assessing Long-Term Stress in Great Apes: Allostatic Load in Western Lowland Gorillas

AZA Mexican Wolf SSP – Blood Banking

AZA Red Panda SSP – C SSP Endorsed Fecal Survey

AZA Roti Island Snake-Necked Turtle (*Chelodina mccordi*) SSP – Genetic Identity Project for SSP Management Purposes

Baseline Ophthalmic Parameters in Helmeted Guineafowl (*Numida meleagris*)

Binturong Genetic Sequencing

Captive Clouded Leopard's Pathology: Retrospective Study

Cardiac Disease in Western Lowland Gorillas (*Gorilla gorilla gorilla*): Comparative Assessment of B-Type Natriuretic Peptides From Urine and Serum

Comparison of Circulating Vitamin D (25OHD) in Captive North American and Free-Ranging South African Black Rhinoceros

Constraints of Biomass on Innate Immunity Across Terrestrial Mammals

Determination of Circulating Vitamin and Mineral Levels in Captive Saddle-Billed Storks (*Ephippiorhynchus senegalensis*) as It May Relate to Reproductive Success and Embryonic Development

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

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

Ensuring Optimal Welfare for Ambassador Animals

Evaluation and Validation of Measures of Chronic Stress in Ring-Tailed Lemurs

Flamingo Sex Allocation

Gene Expression in the Colobine Gastrointestinal (GI) System

Gut Microbiome Composition in Captive and Wild Apes

Hi-C Genomic Zoo

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

Identification of Polar Bears Through Track DNA Analysis

Influence of Gonadotropin Stimulation on Anti-Müllerian Hormone (AMH) Concentrations in Female Cheetahs

Investigating Elephant Endotheliotropic Herpesviruses (EEHV) and Elephant Gammaherpesviruses (EGHV) Infection in Asian and African Elephants

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

Measuring Alpha-Klotho Levels: A New Approach to Assess Biological Aging and Development in Bonobos

Microstructural and Chemical Characterization of Medullary Bone Across the Bird Phylogeny

Opportunistic Semen Banking of Wild Felids by Zoo Veterinarians

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

Pregnancy Detection in Polar Bears

Profiling of Gut Microbiota and Antibiotic Resistance Gene in Zoo Animals

Prosimian Biomedical Research Project

Purification of Proteins in the Venom of Beaded Lizards and Investigating the Influence These Proteins Have on Apoptotic Events in Cancer Cells

Radiographic Standardization of Cardiac Size in Healthy Humboldt Penguins (*Spheniscus humboldti*)

Relationship of Gut Microbiota and Cardiovascular Disease in Bonobos (*Pan paniscus*) and Gorillas (*Gorilla gorilla gorilla*) in Human Care

Relevancy of African and Asian Elephants in Zoological Facilities

Retrospective Characterization of Reproductive Tract Lesions in Relation to Parity, Age and Contraception in Captive Suidae and Tayassuidae

Seasonal Impacts on Giraffe Welfare

Serum Biochemical Values, Leptin, Insulin and Insulin-Like Growth Factor 1 (IGF-1) and Body Condition in Captive Giraffe (*Giraffa camelopardalis*), in Relation to a Change to a High Forage Diet

Study on Bearcat Morphology

Tool Use in Pan

Using Serum Inflammatory Markers to Investigate the Immune Response to Elephant Endotheliotropic Herpesvirus (EEHV)

Validation of a Rhino-Specific Ferritin Enzyme Immunoassay for Rhinos and the Impact of Individual and Environmental Factors on Serum Ferritin Concentrations

Validation of Pregnancy-Specific Protein B (PSPB) Pregnancy Test in Giraffe (*Giraffa camelopardalis*)

THE BOONSHOFT MUSEUM OF DISCOVERY

Education Programs

Animals Alive

Biomes and Biodiversity

Boonshoft Biologist

Conservation Corner

Environmental Science: Oil Spill Recovery

Global Climate Change

Habitats and Homes

Honeybees a Buzzin'

Meet the Animals

Pond Study

River Study

Tide Pool

Urban Ecology

Webs of Life

Field Conservation

AZA Conservation Grants Fund (CGF)

Peregrine Falcon Cam and Banding

Prairie Restoration

Project FeederWatch

THE WILDS

Education Programs

DayVentures

Discovery Nature Center

Family Overnights

Homeschool Programs

Overnights

WildeCamp

Field Conservation

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

Conservation Genetics and Population Structure of Two Garter Snake Species in Western Montana

Control of Invasive Species Across the Landscape

Determination of Eastern Hellbender Presence in Ohio Utilizing Environmental DNA (eDNA)

Determination of Eastern Hellbender Presence in West Virginia and Maryland Utilizing Environmental DNA (eDNA)

Evaluating the Behavioral and Physiological Effects of Tail Attachment for GPS Trackers on Przewalski's Horse (*Equus ferus przewalskii*)

Evaluation of Beaver Community at The Wilds

Evaluation of Miller Valley Wetland Five Years Following Restoration

Habitat Modeling of Loggerhead Shrike

Habitat Variables Associated With Anuran Distribution and Abundance on a Reclaimed Surface Mine

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

Investigating Forest Bird Presence on Mined and Unmined Forest Patches

Investigating the Effect of Invasive Shrubs on Grassland Bird Presence and Abundance

Long-Term Lepidopteran Surveys and Pollinator Habitat Enhancement

Miller Valley Stream Restoration

Monarch Rearing and Release

Muskrat Die-Off in Ohio

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

Utilizing Fire Management to Maintain Prairie Ecosystems

Mission-Focused Research

Banteng Reproduction

TOLEDO ZOOLOGICAL GARDENS

Education Programs

Animal Contact Yard

Animal Demonstrations

Behind the Scenes Tours

Birthday Party Animal Demonstrations

Bug Festival

Camps

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

School Assembly Program

Scout Badge Programs

Seasonal Activity Carts

Teacher Professional Development

Field Conservation

Aruba Island Rattlesnake Field Research

AZA SAFE - Vaquita

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

International Elephant Foundation (IEF) - African Elephant
Conservation

Kirtland's Snake Monitoring and Assessment

Large Vertebrate Biodiversity Survey

Maumee River Lake Sturgeon Rearing Facility

Mitchell's Satyr Reintroduction Program

Monarch Butterfly Rearing and Release

Native Orchid Conservation

Ohio Hellbender Headstart and Reintroduction

Ohio Turtle Survey and Monitoring

On-Grounds Biodiversity Monitoring

Orangutan Conservation Support

Pacific Bird Conservation / Marianas 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

Wyoming Toad Field Surveys

Oklahoma

OKLAHOMA CITY ZOOLOGICAL PARK

Education Programs

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

A Multi-Pronged Approach to Understanding Low Reproductive Success in the Eastern Migratory Population of Endangered Whooping Cranes

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

AZA Conservation Grants Fund (CGF)

AZA Jaguar SSP – Cockscomb Basin Wildlife Sanctuary (CBWS)

AZA Komodo Dragon SSP

AZA Tiger SSP – Wildlife Conservation Society (WCS) – Sumatran Tiger Conservation Project

Connecting Wildlife Through Zambia's Transboundary Wildlife Movement Corridors in the Kavango Zambezi Tranfrontier Conservation Area (KAZA TFCA)

Conservation Ambronia

Conservation and Ecology of the Philippine Crocodile
CrocFest

Dian Fossey Gorilla Fund International

Giraffe Conservation Foundation (GCF)

Honduras Amphibian Rescue and Conservation Center (HARCC)

Jatun Sacha Foundation

Madagascar Fauna and Flora Group (MFG)

Mitigating the Conservation of Sunda Pangolin, *Manis javanica*, in North Sumatra

Monarch Butterfly

Monarch Watch

Nature Conservancy – Oklahoma Chapter

Northern Rangelands Trust – Conservancies Support

Ocelot Conservation: Laguna Atascosa National Wildlife Refuge

Oklahoma Department of Wildlife Conservation

Orang Utan Republik Foundation

Painted Dog Research Trust

Project Mecistops

Rainforest Trust

Rakhine Yoma Elephant Range

Red Panda Network (RPN)

Snow Leopard Trust (SLT)

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

Texas Horned Lizard Behavioral Ecology and Reintroduction

The Status and Behavioral Ecology of Leopards (*Panthera pardus*) in a Human Impacted Miombo Woodland

Tsavo Cheetah Project

Turtle Survival Alliance (TSA)

Vaquita Emergency Rescue Project

Vulture Poison Response Action

Warriors Protecting Grevy's Zebra in Laisamis, Northern Kenya

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

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

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

WATER

Documented Amount of Wastewater Generated

Mission-Focused Research

A Study of Dominance Hierarchies in African Painted Dog
 Asian Elephant Relative Quantity Judgment
 Environmental Enrichment of Translocated Texas Horned Lizards
 Mitigating Snake Depredation in the Oklahoma City Zoo (OKC) Trails Aviary
 Viper Prefrontal Morphology Project

TULSA ZOO

Education Programs

Dreamnight Activities
 Hallowzooeen – Not So Creepy Crawlies
 Learning From Ultimate Nocturnal Adventures (LUNA)
 Nature Exchange
 Nature's Buddies
 Nature's Grand Adventures
 Nature's Night Owls
 SENSEsational Science Teacher Workshop
 Snooz-a-pa-ZOO-za Family Overnights
 Stationing
 Tulsa Zoo Camps (Winter, Spring and Summer)
 Zoo Insider
 Zoo Teens
 Zoo2U – Schools

Field Conservation

American Burying Beetle Project
 AZA SAFE – Vaquita Initiative
 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
 Reintroduction of the Alligator Snapping Turtles to the Caney River in Northeastern Oklahoma

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
 Documented Square Footage of Conditioned Space

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

Anaerobic Digester Energy Generation
 Carbon Offset Purchase for On-Site Utility Use
 Commingled Recycling
 Community-Based Sustainability Projects
 Composting On-Site or Off-Site
 Construction Waste Diversion / Recycling
 Green Information Technology (IT)
 Local Food Procurement for Animals and/or Guests
 Stormwater Management Program
 Usage of Enterprise (IT) Solutions To Track, Measure and Dashboard Sustainability Performance
 Water-Wise Landscaping

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

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

WASTE

Documented Amount Composted

Documented Amount Recycled

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

A Comprehensive Approach to Improve Management of an Endangered Wild Canid

Asian Elephant Gonadotropin Releasing Hormone (GnRH) Vaccine Trial

Batrachochytrium dendrobatidis and Ranavirus – Current Status in Some of Northeast Oklahoma's Amphibian Populations

Blood Coagulation Assessment of Captive Asian Elephants

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*)

Red Panda Fecal Survey

The National Elephant Herpesvirus Laboratory (NEHL)

Understanding the Neurological Evolution of Bird Flight

Oregon

OREGON COAST AQUARIUM**Education Programs**

Adult Volunteer Interpreters

Animal Encounters

Aqua-Tots

Behind the Scenes Tour

Biofact Carts

Coastal Learning Symposium

Day Events

Dive Interpretation Presentations

Guest Displays

Job Shadows

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

Oregon Marine Reserves

Wildlife Rehabilitation

Green Practices**ENERGY**

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

Purchased Renewable Energy

FUEL

Documented Amount Spent

GREEN CERTIFICATIONS

Certified as a Wildlife Habitat

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting On-Site or Off-Site

Energy Submetering

Water-Wise Landscaping

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Northwest Coast Reef Surveys

OREGON ZOO**Education Programs**

Behind the Scenes Tours

Camp Programs

Education Center Partner Programs

Headstart ZooMobile

Insect Zoo

Senior ZooMobile

Teacher Partnerships

Teacher Professional Development

Urban Nature Overnights (UNO)

Wildlife Live Show

Zoo Ambassadors

Zoo Animal Presenters (ZAP) – First Year

Zoo Animal Presenters (ZAP) – Third Year

Zoo Guides

Zoo School / Zoo To You

Zoo Teens

ZooSnooze – Overnights Program

Zoo Teens – Conservation Corps

Field Conservation

Action for Cheetahs in Kenya

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

AZA FrogWatch USA

AZA Tiger SSP – Tiger Conservation Campaign

California Condor Breeding Program

Cascades Pika Watch

Forest Elephant Conservation in Borneo

Future for Wildlife Field Conservation Grant Program

HUTAN-Kinabatangan Orangutan 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

Oregon Silverspot Butterfly (*Speyeria zerene hippolyta*) Cascade Head Population Supplementation

Oregon Spotted Frog

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-Quatama Partnership

Green Practices

ENERGY

Documented Amount Spent
 Documented Amount Used
 Documented Square Footage of Conditioned Space
 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 Used

GREEN CERTIFICATIONS

Documented Square Footage of Facility With Green Building Certification
 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
 Commingled Recycling
 Composting On-Site or Off-Site
 Graywater Reuse and/or Rainwater Harvesting
 Green Building Policy / Commitment
 Green Purchasing Policy / Green Procurement
 Local Food Procurement for Animals and/or Guests
 Stormwater Management Program
 Usage of Enterprise (IT) Solutions To Track, Measure and Dashboard Sustainability Performance
 Wastewater Reduction
 Water Submetering
 Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)
 Developed or Updated a Sustainability Policy

WASTE

Documented Amount Composted
 Documented Amount Recycled
 Documented Amount Sent to Landfill
 Documented Amount Spent on Landfill Waste

WATER

Documented Amount of Wastewater Generated
 Documented Amount Spent
 Documented Amount Used

Mission-Focused Research

Animal Behavior Audit Program
 Elephant Exhibit Post-Occupancy Study
 Pharmacokinetics of Convenia® in African Lions
 Pilot Pharmacokinetic Study to Investigate the Potential Use of Terbinafine in Western Pond Turtles
 WelfareTrak® – Survey Development and Use

WILDLIFE SAFARI

Field Conservation

AZA Tiger SSP – Tiger Conservation Campaign
 Cheetah Conservation Fund (CCF)
 International Elephant Foundation (IEF)
 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
 Construction Waste Diversion / Recycling
 Graywater Reuse and/or Rainwater Harvesting
 Green Information Technology (IT)

WASTE

Documented Amount Composted

WATER

Documented Amount Spent

Documented Amount Used

Pennsylvania

CLYDE PEELING'S REPTILAND

Field Conservation

AZA Crocodilian Advisory Group (CAG) – Conservation Fund

AZA Komodo Dragon SSP – Conservation Fund

Glacier Pools Preserve, Picture Rocks, PA – Interpretive Graphics

Turtle Survival Alliance (TSA)

Mission-Focused Research

Bucknell Environmental Science Class

DNA Study of Taxonomy of Captive Smokey Jungle Frogs

Skin Products of Non-Avian Reptiles

Study of Accidental Domestication in Captive *Uroplatus* Gecko Colonies

ELMWOOD PARK ZOO

Field Conservation

American Bird Conservancy (ABC)

Centro Chaqueño Para la Conservación e Investigación (CCCI)

Proyecto Tití – Tití Conservation Alliance

Red Panda Network (RPN)

ERIE ZOO

Education Programs

Adult Programs

Animal Meet and Greets

Behind the Scenes Tours

Birthday Parties

Day Camps

Family Programs

Homeschooler ZooSchool Club

Job Shadows

Junior Zookeeper

On-Site Classroom Programs

Outreach

Parents Night Out

PreZooSchool

Purely Art With Zooey Zest (PAWZZ)

Scout Programs

Touch Tables

Volunteer Program

Zoo Tots

ZooSchool Classes

LEHIGH VALLEY ZOO

Education Programs

Animal Encounters

Conservation Exploration Program

Explore and Snore

Scout Programs

Zoo Camps

ZooReach

Field Conservation

AZA SAFE – Vaquita

AZA SAFE – Western Pond Turtle

Giraffe Conservation Foundation (GCF)

NATIONAL AVIARY

Education Programs

Avian Hospital Programming

Aviary Takes Wing Outreach

Encounters

Experiences

Guided Tours

Helen M. Schmidt FliteZone™ Theater Shows

Interactive Feedings

One Northside for Every Student

School Programs

Summer Camps

Teaching Hospital

Volunteer Program

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

FUEL

Documented Amount Spent

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Community-Based Sustainability Projects

Construction Waste Diversion / Recycling

Purchasing 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 Policy

WASTE

Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent

Documented Amount Used

PHILADELPHIA ZOO

Education Programs

Animal Training Demos

Barnyard

Behind the Scenes Tours

Community Access Programs (CAPs)

Daytime Seasonal Events

Docent Tours

Docent Training Course

Frog Conservation Project

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

Teacher Pass

Unless Contest

Wildlife Discovery Tours

Wings of Asia

You Belong in the Zoo

Zoo on Wheels

Zoo on Wheels Booth

ZooCREW

Field Conservation

Amphibian Ark

Associação Amigos do Peixe-Boi (AMPA) – Giant Otter Project

AZA FrogWatch USA

Finding Lost Frogs of Ecuador

Golden Lion Tamarin Conservation Program

Haitian Frog Rescue

Zoo Amaru – Amphibian Conservation Center

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

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

Documented Square Footage of Facility With Green Building Certification

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

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Composting On-Site or Off-Site

Construction Waste Diversion / Recycling

Energy Submetering

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy / Commitment

Green Information Technology (IT)

Green Purchasing Policy / Green Procurement

Greenhouse Gas (GHG) Inventory

Local Food Procurement for Animals and/or Guests

Purchasing Green Power or Renewable Energy Credits (RECs)

Smart Buildings Systems

Stormwater Management Program

Usage of Enterprise (IT) Solutions To Track, Measure and Dashboard Sustainability Performance

Water Submetering

Water-Wise Landscaping

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

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

ZOOAMERICA NORTH AMERICAN WILDLIFE PARK**Field Conservation**

AZA Black-Footed Ferret SSP

Barn Owl Nest Box

Regal Fritillary Conservation

Rhode Island

ROGER WILLIAMS PARK ZOO**Education Programs**

Adventures ZooCamp

After-School Programs

AZA FrogWatch USA

Bronx Zoo Trip

Brown University SPARK

Central Falls High School Program

Collette Travel Information Sessions

Community Zoomobiles

Conservation Heroes ZooCamp

Contact Yard

Counselor Trainings and Team Building

Cranston Summer Program
 Docent Training Class
 Docent Zoomobiles
 Education Animal Meet and Greet
 Giraffe and Seal Feedings
 Homeschool
 Nature Swap
 New London
 Our Big Backyard Areas and Beyond the Fence
 Party for the Planet
 Pets and Vets
 Providence After School Alliance (PASA) Summer Scholars
 Rock and Roar Concerts
 Roots and Shoots
 School Zoomobiles On and Off Grounds
 Scout Safari Day
 Snore and Roar Overnights
 Spooky Zoo
 Tadpole Academy ZooCamp
 Teacher Institute
 Wild Bunch Show
 Woonsocket Summer Program
 Zoo Career Workshop

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 Isotopes in Feces Track the Mobility of Difficult to Observe Mammals?
 Conservation of the Critically Endangered Alligator Lizard (*Abronia campbelli*) in Eastern Guatemala Through Habitat Restoration and Community Forest Management: Phase II
 Determining Life History and Population Size of Juvenile and Adult Diamondback Terrapin (*Malaclemys terrapin*) in Rhode Island
 Ecological Community Response to the Abatement of Oil and Gas Development: Implications for Restoration Planning

Environment Council of Rhode Island
 Evaluation of the Prey Base and Feeding Relationships of the American Burying Beetle (*Nicrophorus americanus*)
 Foundation for the Conservation of Salamanders
 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
 Lowland Tapir Health for Conservation
 New England Cottontail Rabbit Recovery Program
 North American Freshwater Turtle Research Group
 Ocean Foundation
 Preserving the Endangered African Manatee Population From Human Activities in Lake Ossa Wildlife Reserve
 Raising Awareness of Endangered *Abronia* Species in Guatemala Through Education and the PECCA Center
 Rhode Island Natural History Survey BioBlitz
 Snow Leopard Trust (SLT)
 Tarangire Elephant Project (TEP)
 The Effect of Visual, Tactile and Auditory Deterrents and Hive Protections on Honey Badger Depredation of Beehive Fences
 Timber Rattlesnake Recovery Program
 Tree Kangaroo Conservation Program – Papua New Guinea
 Wood Turtle (*Glyptemys insculpta*) Nesting Ecology, Mating Behaviour and Genetic Diversity in Disturbed and Undisturbed Nesting Sites

Green Practices

ENERGY

Documented Amount Spent
 Documented Amount Used
 Documented Square Footage of Conditioned Space

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

Commingled Recycling

Composting On-Site or Off-Site

Green Purchasing Policy / Green Procurement

Solar or Wind Energy Generation

Stormwater Management Program

Water Submetering

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

Documented Amount Spent on Landfill Waste

Mission-Focused Research

Are We Expecting? Developing a Test for Early Pregnancy Detection in Captive Snow Leopards (*Panthera uncia*)

Genome Resource Banking of the Red Wolf

South Carolina

BROOKGREEN GARDENS**Field Conservation**

Backyard Habitat Restoration

Grow and Propagate Sea Beach Amaranth (*Amaranthus pumilus*)

Habitat Restoration Through Prescribed Burning of Longleaf Pine Forest for Red-Cockaded Woodpeckers

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

Local Food Procurement for Animals and/or Guests

Stormwater Management Program

Water-Wise Landscaping

WASTE

Documented Amount Recycled

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

The Effects of Salinity, pH, Temperature and Dissolved Oxygen on Sensitivity of Polymerase Chain Reaction (PCR) Identification of T4 Bacteriophage

GREENVILLE ZOO

Education Programs

AZA FrogWatch USA – FrogWatch Researchers of Greenville Zoo (FROGZ)

Behind the Scenes – Backstage Expeditions

Career Day

City Appreciation Night

Distance Learning Programs at the Zoo

Endangered Species Day

Enrichment Day

Family Programs – Saturday Safari

Family Programs for Zoo Tots

Get Out and Play Day

Greenville Zoo Overnights

Homeschool Programming

Learning Safari Thursdays

Missing Orangutan Mothers (MOMS) Day

Nature Play Greenville Zoo

Party for the Planet

School Programs

Tell Me About It Tuesdays

Wild for Reading Wednesdays

World Oceans Day

Zoo Camp

ZOOMobile

Field Conservation

Advancing Effective Lemur Conservation in the Face of Global Change

Amur Leopard and Tiger Alliance (ALTA)

Angolan Colobus Conservation Project

Assessing the Impacts of Climate Change and Habitat Quality on the Ecology of a Valuable Rattlesnake Predator in a Developed Environment

AZA FrogWatch USA

AZA SAFE

Conservation of the Critically Endangered Alligator Lizard (*Abronia campbelli*) in Eastern Guatemala Through Habitat Restoration and Community Forest Management

Dry Season Monitoring of Wild Giant Otters at Karanambu

Engaging Local Communities in Reforestation Efforts for the Alligator Lizard

Fiji Island Iguana Conservation Fund

Florida Panther Conservation – Captive Management Group

Green Salamander Distribution, Movement and Water Loss

Madagascar Fauna and Flora Group (MFG)

Okapi Conservation Project

Reptile and Amphibian Monitoring Ecolab

Stopping Illegal Lion Killings Around Protected Areas in Western Tanzania

Sumatran Orangutan Conservation Programme (SOCP)

The Status of Critically Important and Endangered Reef Sharks in the Maldives

Understanding Social Behaviour to Improve the Conservation of Wild Giraffes and to Improve the Welfare of Giraffes in Captive *Ex-Situ* Populations

Upper Saluda Watershed Interactive Mapping Project

Zoo Conservation Outreach Group (ZCOG)

Zoo Conservation Outreach Group (ZCOG) – Chilean Flamingo Conservation Monitoring Program

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 Policy

WATER

Documented Amount Used

Mission-Focused Research

Monitoring Black Rat Snakes on the Greenville Zoo Campus
Turtle Trapping Project

RIPLEY'S AQUARIUM IN MYRTLE BEACH

Field Conservation

Beach Sweep

Mission-Focused Research

Macrobacterial Infections in Seadragons
Mycobacterial Infections in Seadragons
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
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 AND GARDEN

Education Programs

Adult Garden Workshop
Adventure Tours/Backstage Tours
Backyard Buds
Camp – Single Day
Camp – Spring Break Zoo Camp
Camp – Summer Zoo Camp: Wild Weeks
Camp – Winter Camp
Daily Family Garden Programs
Discovery Days
Event Days – Party for the Planet, World Oceans, Enrichment
Days and Endangered Species Day
Family Events
Family on Safari
Garden Outreach

Garden Tours
Guest Engagement
Homeschool
Junior Master Gardeners
Outreach
Overnights
School Programs
Scouts – Evening Expeditions
Scouts – Workshops
Zoo Teens
ZooBots

Field Conservation

Black-Footed Ferret (*Mustela nigripes*) Recovery Program
Blue-Crowned Laughingthrush (*Dryonastes courtoisi*) Global
Species Management Plan (GSMP)
Cameroon Conservation Education Program
Conservation of the Endemic Chelonians of Sulawesi:
Forsten's Tortoise (*Indotestudo forstenii*) and Sulawesi
Forest Turtle (*Leucocephalon yuwonoi*)
Disease Implications of Using Waifs to Create Viable
Populations of Gopher Tortoises
Evaluating Grassroots Conservation Efforts in Northern
Madagascar
Fall and Winter Roosting Ecology of Southeastern and
Rafinesque's Big-Eared Bats in Cache River National
Wildlife Refuge
Mbeli Bai Study (MBS) – Long-Term Research and
Conservation of Western Lowland Gorillas and African
Elephants in the Ndoki Forest
Mitigating Human-Crocodile Conflicts: A Bottom-Up
Approach in the Obuasi Municipality, Ghana
Monitoring Breeding Activities of Endangered and Critically
Endangered Vultures
Nzou' Environmental Education Project – Lower Zambezi,
Zambia
Riverbanks Field Conservation Associates Program
South Carolina Wildlife Federation Scholarship Fund
Turtle Survival Alliance (TSA) – Turtle Survival Center
Using African Forest Elephant Behavioral Ecology to Inform
Anti-Poaching Strategies

Why, When and How Giant Anteaters Cross Roads?
Understanding Impacts and Effects of Roads on Giant
Anteater Populations

Wood Turtle Nesting Ecology, Mating Behavior, Genetic
Diversity in Disturbed and Undisturbed Nesting Sites

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

Composting On-Site or Off-Site

Green Information Technology (IT)

Local Food Procurement for Animals and/or Guests

Solar or Wind Energy Generation

Usage of Enterprise (IT) Solutions To Track, Measure and
Dashboard Sustainability Performance

WASTE

Documented Amount Composted

Mission-Focused Research

Assessing Reproductive and Metabolic Health of the
Recently Imported African Elephants: Understanding
Elephant Biology to Optimize Welfare and Sustainability of
the Population of African Elephants

Examining the Pathology and Severity of Giraffe Skin Disease
in Uganda and Tanzania

SOUTH CAROLINA AQUARIUM

Education Programs

Adult Learning Series

Aquarium AquaTeen Program

Aquarium Rovers

Behind the Scenes Tours

Breaking Down Plastics Summit

Daily Interpretive Program

Discovery Cart Program

Discovery Lab

Distance Learning

Good Catch (Sustainable Fisheries) Newsletters and Chef
Binder

Good Catch (Sustainable Fisheries) Special Events

Good Catch Seafood Initiative – Educational Publications/
Materials

Good Catch Sustainable Seafood Initiative Dinner Series

High School Intern Program

Homeschool Programs

Member Educational Programs

Ollie's Trading Post

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

Loggerhead Turtle Passive Integrated Transponder (PIT) Tag
Study

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

Mission-Focused 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
Gray Triggerfish (*Balistes caprisus*) Life History in the South Atlantic Bight: The Extensive Collection and Analysis of New Data for Age, Growth and Reproduction and Comparison With Data From 1992
Nesting Population Assessment of the Atlantic Horseshoe Crab (*Limulus polyphemus*) in Charleston Harbor
Population Genetics of the Lined Seahorse (*Hippocampus erectus*) in the North Western Atlantic

South Dakota

BRAMBLE PARK ZOO

Field Conservation

American Kestrel Partnership
Migratory Bird Rehabilitation
Upper Big Sioux River Watershed Project

Green Practices

EXTERNAL SUPPORT

Received Support From External Sources for Green Projects

FOOD

Sourced Local Food or Grew It On-Site

GREEN PRACTICES IMPLEMENTED

Local Food Procurement for Animals and/or Guests

WATER

Documented Amount Spent

Mission-Focused Research

Lead Testing of Rehab Birds of Prey
Seasonal Fluctuations in Adult Mosquito Populations in Eastern South Dakota

GREAT PLAINS ZOO AND DELBRIDGE MUSEUM OF NATURAL HISTORY

Education Programs

Amazing Animal Quests
Animal Encounters
Bookworms
Creature Feature
Guided Tours
Junior Zookeepers
Nature Play Club
Osher Lifelong Learning Institute (OLLI) Programs
Sanford Children's Hospital Visits
Saturday Science Club
Science Safari Day
Scout Badge Programs
Title I Outreach
ZooCamp
ZooCub Class
ZooExpress Event Booth
ZooMobile Event Booth
ZooMobile Programs
ZooZnooze

Field Conservation

AZA SAFE
AZA SAFE – Vaquita
AZA Tiger SSP – Tiger Conservation Campaign
Giraffe Conservation Foundation (GCF)
International Rhino Foundation (IRF)
Koala Education and Conservation Program (Australia Fund)
Native Raptor Rehabilitation
Painted Dog Research Trust
Snow Leopard Trust (SLT)
Wildlife Conservation Network (WCN) – Ewaso Lions

Green Practices

ENERGY

Documented Amount Spent
Documented Amount Used
Documented Square Footage of Conditioned Space

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

WASTE

Documented Amount Sent to Landfill

Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent

Documented Amount Used

Tennessee

CHATTANOOGA ZOO AT WARNER PARK

Education Programs

Kits and Cubs

Field Conservation

AZA SAFE – Vaquita Conservation

Cheetah Conservation Fund (CCF)

Hellbender Conservation

Pantanal Giant Armadillo Project

Proyecto Tití

Snow Leopard Trust (SLT)

Green Practices

ENERGY

Documented Amount Used

Documented Square Footage of Conditioned Space

FOOD

Sourced Local Food or Grew It On-Site

FUEL

Documented Amount Spent

GREEN CERTIFICATIONS

Certified by GreenLight

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

Local Food Procurement for Animals and/or Guests

Wastewater Reduction

Water Submetering

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

WASTE

Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Great Ape Heart Project

Using Internet Technology to Connect Chimpanzees

ELEPHANT SANCTUARY IN TENNESSEE

Field Conservation

Elephant Voices – African Elephant Gestures Database

Green Practices

ENERGY

Generated Renewable Energy On-Site

GREEN PRACTICES IMPLEMENTED

Graywater Reuse and/or Rainwater Harvesting

PLANS, POLICIES AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

Mission-Focused Research

Clinical Response to Allergen Specific Therapy in an Asian Elephant

Forward Thinking in Elephant Husbandry for the Aging Elephant

Mushara Elephant Project, Namibia

Serum Immunoglobulin E Measurements and Clinical Response to Allergen Specific Immunotherapy in Asian Elephants

Stellenbosch University Animal Tuberculosis (TB) Research Group

University of Georgia Research Project for Oral Drug Delivery System

Urinalysis and Urine Bacterial Culture in African Elephants

MEMPHIS ZOO

Education Programs

Conservation Camp – Going, Going, Saved!

Earth Day

Explorers Academy

Homeschool Academy

Homeschool Days

International Polar Bear Day

Zoo Camp

Zoo Classes

Zoo Snooze

Field Conservation

Boreal Toad Conservation Program

Conservation of the Araguaia Corridor in Brazil: Addressing Human Predator Conflict

Conserving Amphibian Biodiversity in Panama

Development of Assisted Reproductive Technologies for Endangered North American Amphibians

Giant Panda Conservation

Pangolin Consortium

Striped Newt Reintroduction Project

Urban Snake Ecology

NASHVILLE ZOO, INC.

Education Programs

Animal Oddities

Avian Awareness Day

Fall Break Camp – Eco-Explorers

Girl Scout Camp Out Program – Bugs, Biomes, and Badges

Great Backyard Bird Count

Homeschool Days – A Day in the Life

Homeschool Days – All in the Family (Animal Offspring)

Homeschool Days – First Impressions (Animal Myths and Misconceptions)

Homeschool Days – Getting to Know You (Animal Behavior)

Homeschool Days – No Place Like Home

Homeschool Days – The Rainforest

Homeschool Days – All About Africa

Native Navigators

Night Owl Program – American Heritage Girls Zoology

Night Owls – Cub Scouts – Bears Fur, Feathers and Ferns

Night Owls – Cub Scouts – Tiger My Tiger Jungle

Night Owls – Cub Scouts – Webelos – Into the Wild

Night Owls – Cub Scouts – Wolf Digging in the Past

Night Owls – Girl Scouts – Brownie Bugs Badge

Night Owls – Girl Scouts – Cadette Animal Helpers

Night Owls – Girl Scouts – Daisy 3 Cheers for Animals

Night Owls – Girl Scouts – Juniors Animal Habitat

Night Owls – Girl Scouts – Senses Badge

Party for the Planet

Project Globe

Saturday Scouts – American Heritage Girls Zoology

Saturday Scouts – Cub Scout – Bears Fur, Feathers and Ferns

Saturday Scouts – Cub Scout – Tiger my Tiger

Saturday Scouts – Cub Scout – Webelos – Into the Wild

Saturday Scouts – Digging in the Past

Saturday Scouts – Girl Scouts – Brownie Bugs Badge

Saturday Scouts – Girl Scouts – Brownie Senses Badge

Saturday Scouts – Girl Scouts – Daisy 3 Cheers for Animals

Saturday Scouts – Girl Scouts – Juniors Animal Habitat

Storybook Tails (1/2 Day Camp)

Storybook Tails (Full Day Camp)
 Summer Camp – Camp Zoovivor 2.0
 The Great Zoo Detective (Spring Break)
 Veterinary Camp
 World Rhino Day
 Zoo Tots – Animal Sense Spring Series
 Zoo Tots – Animals of Sorts Fall Series
 Zooperheroes Camp Animal Sense

Field Conservation

American Association of Zoo Keepers (AAZK) – Bowling for Rhinos
 American Association of Zoo Keepers (AAZK) – Bowling for Rhinos Matching Funds
 Andean Bear Conservation Alliance
 Association for the Conservation of Amazonian Biodiversity – Dallas World Aquarium Zoo (ACOBADWAZOO)
 AZA SAFE – Vaquita Project
 AZA Tiger SSP – Tiger Conservation Campaign
 Bat Conservation International (BCI)
 Clouded Leopard Project
 Duke Lemur Center – Projects in the Sambava-Andapa-Vohemar-Antalaha (SAVA) Region of Madagascar
 Giant Anteater Pilot Program in the Brazilian Pantanal
 Giraffe Conservation Foundation (GCF)
 Gorilla Rehabilitation and Conservation Education (GRACE) Center
 Hornbill Conservation: Borneo
 Instituto de Pesquisas Ecológicas (IPÊ)
 Lewa Wildlife Conservancy
 Niassa Carnivore Project
 Okapi Conservation Project
 Proyecto Tití
 Rainforest Awareness Education Center – Amazonian Manatee
 Rainforest Trust
 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)

Green Practices

GREEN CERTIFICATIONS

Documented Square Footage of Facility With Green Building Certification
 One or More Buildings LEED-Certified by the US Green Building Council

GREEN PRACTICES IMPLEMENTED

Commingled Recycling
 Composting On-Site or Off-Site
 Construction Waste Diversion / Recycling
 Local Food Procurement for Animals and/or Guests

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 Policy

WASTE

Documented Amount Sent to Landfill

WATER

Documented Amount Used

RIPLEY'S AQUARIUM OF THE SMOKIES

Field Conservation

Apex Predator Tagging Study

Green Practices

ENERGY

Documented Amount Spent
 Documented Amount Used
 Documented Square Footage of Conditioned Space
 Generated Renewable Energy On-Site

GREEN CERTIFICATIONS

Certified by Tennessee Green Hospitality

Documented Square Footage of Facility With Green Building Certification

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Composting On-Site or Off-Site

Construction Waste Diversion / Recycling

Smart Buildings Systems

Solar or Wind Energy Generation

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

WASTE

Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Mycobacterial Infections in Seadragons

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**

Alligator Snapping Turtle Monitoring

Constructing a Freshwater Conservation Institute and Field Station

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

Serve and Protect – Supporting Sustainable SeaFood

South Chickamauga Creek Assessment

Southeastern Fishes Council Annual Meeting

Southeastern Freshwater Biodiversity Conservation Plan

Tennessee and Cumberland River Darter Conservation

Tennessee Lake Sturgeon Reintroduction Program

Mission-Focused Research

Headwater Stream Community Ecology

Morphology and Hybridization in River Sturgeons

River Turtle Morphology

Southeastern Cave Biology

ZOO KNOXVILLE**Education Programs**

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

Student Researchers

Teacher In-Service / Workshops

ZooCamp

ZOOMobile Outreach Classroom Programs

ZOOMobile Outreach Community Programs

ZOOMobile Outreach Display Program

Field Conservation

AZA Tiger SSP – Tiger Conservation Campaign
 Center for Ecosystem Survival (SaveNature.org) – Rainforest Conservation Parking Meter
 Game Rangers International – Elephant Orphanage Project and Kafue Conservation Project
 Organization for Bat Conservation
 Red Panda Network (RPN)
 Toucan Rescue Ranch
 World Parrot Trust (WPT)

Green Practices

ENERGY

Documented Amount Spent
 Documented Amount Used
 Generated Renewable Energy On-Site

GREEN PRACTICES IMPLEMENTED

Commingled Recycling
 Graywater Reuse and/or Rainwater Harvesting
 Green Information Technology (IT)
 Solar or Wind Energy Generation
 Wastewater Reduction

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices
 Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

WATER

Documented Amount Spent
 Documented Amount Used

Mission-Focused Research

Student Research Project Support
 University Level Research Studies

Texas

ABILENE ZOOLOGICAL GARDENS

Education Programs

Behind the Scenes
 Birthday Parties
 Camp Programs
 Dreamnight
 Homeschool Classes
 Junior Keeper
 Kids' 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
 Chipembere Rhino Foundation
 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)
 Proyecto Tití
 Rainforest Alliance
 Red Wolf Coalition

Tambopata Macaw Project

Texas Parks and Wildlife – Texas Children in Nature

The Cougar Fund

Turtle Survival Alliance (TSA)

Vaquita Conservation, Protection and Recovery (Vaquita CPR)

Wild Animal Health Fund

Wild Neighbors Database

Wildtracks

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

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

WASTE

Documented Amount Sent to Landfill

WATER

Documented Amount Used

CALDWELL ZOO

Field Conservation

Animal Painting Sales

Attwater's Prairie Chicken Recovery Program

International Elephant Foundation (IEF) – Elephant Painting Sales

International Rhino Foundation (IRF) – Animal Painting Sales

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

FUEL

Documented Amount Spent

Documented Amount Used

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

AZA Texas Horned Lizard SSP – Texas Horned Lizard (*Phrynosoma cornutum*) Genotyping of SSP Management Purposes

AZA Waldrapp Ibis SSP – Sample Collection for DNA Kinship Study

Cheetah Immobilization Questionnaire

Compilation and Review of Archival Elephant Postmortem Data

Determining Genetic Variability, Kinship and Uniqueness in the North American Cheetah Population

Elephant Pharmacokinetic Trials

Reticuloendotheliosis Virus (REV) Genome Sequencing in Attwater's Prairie Chickens

CAMERON PARK ZOO

Education Programs

Animal Presentation

Educational Days

Outreach

Storytime

Summer Camp

Zoo Mobile

Zoo Snooze

Field Conservation

Borneo Orangutan Survival Foundation (BOS) – Baby Houses

Borneo Orangutan Survival Foundation (BOS) – Milk Drive

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Lake Waco Eagle Nest

Status of Conservation of Crocodile Species in Cuba

Zoo Conservation Outreach Group (ZCOG)

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

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Purchasing Green Power or Renewable Energy Credits (RECs)

Solar or Wind Energy Generation

Stormwater Management Program

Wastewater Reduction

Water-Wise Landscaping

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

AZA Orangutan SSP – Sanctioned Tooth Emergence Project

DALLAS ZOO

Education Programs

Animal Adventures Outreach

Backstage Safari

Cheetah Encounter

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

Nature Exchange

Nature Play

Nature Play Outreach

On-Site School Programs

Preschool Safari

Science Day

Sensory Friendly Day

Sleeping With the Fishes Overnight

Stroller Buddies

Summer Science Institute

Teacher Workshops

Teen Science Cafe

Trivia and Trails

Twilight Safari Night Hike

Wild About Art

Wild Adventures Camps

Wild Earth Action Team

Wild Earth Weekends

Wild F.U.N. (Families United in Nature)

Wildlife Show

Wilds Of Africa Adventure Safari

Youth Volunteer Programs

Zoo Corps

Field Conservation

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

Amphibian Ark

Áreas Costeras y Recursos Marinos (ACOREMA)

AZA Ape TAG – Conservation Initiative

AZA Komodo Dragon SSP – Conservation Fund

AZA SAFE – African Penguin

AZA SAFE – Founders Circle

AZA SAFE – Vaquita

AZA SAFE – Vultures

Black-Footed Ferret Recovery

Cheetah Conservation Fund (CCF)

Cheetah Sustainability and Accessibility Program

Dian Fossey Gorilla Fund International

Dusky Gopher Frog Recovery Plan

Earthwatch Institute

Gorilla Rehabilitation and Conservation Education (GRACE) Center

Hellbender Headstart Program

Horned Lizard Management Project

Houston Toad Recovery Plan

Humboldt Penguin Monitoring Status in Peru

International Elephant Foundation (IEF)

International Rhino Foundation (IRF)

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Jane Goodall Institute – Roots and Shoots Wishing Well Donations

Koala Management, Education and Conservation Program

Ngwenya Rhino Fund

Okapi Conservation Project

Rattlesnake Preservation Trust

Restoring Wildlife Habitat Across Texas: Forest Habitat Restoration

Restoring Wildlife Habitat Across Texas: Prairie Habitat Restoration

Restoring Wildlife Habitat Across Texas: Waterways Habitat Restoration

Ruaha Carnivore Project (RCP)

Sahara Conservation Fund (SCF)

Sea Turtle, Inc.

Southern African Foundation for the Conservation of Coastal Birds (SANCCOB) – Penguin and Sea Bird Conservation

Tarangire Elephant Project (TEP)

Turtle Survival Alliance (TSA)

Whooping Crane Recovery Program

Wild Earth Wristbands Project

World Parrot Trust (WPT)

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

FUEL

Documented Amount Spent

Documented Amount Used

GREEN CERTIFICATIONS

Certified Under ISO 14004

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

Energy Submetering

Graywater Reuse and/or Rainwater Harvesting

Greenhouse Gas (GHG) Inventory

Stormwater Management Program

Usage of an Environmental Management System

Wastewater Reduction

Water Submetering

Water-Wise 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 Policy

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

AZA African Penguin SSP – SAFE: Improvement of the Diagnosis of Aspergillosis in Penguins

AZA Elephant Welfare Initiative – Animal Wellness Assessment, Research and Education (AWARE) Institute

AZA Great Apes SSPs – Great Ape Cardiac Project: Brain Natriuretic Peptide (BNP) in Great Apes

AZA Tiger SSP – Development of a Genome Resource Bank and Transcervical Insemination of the Genetic Management of Tigers

AZA Tiger SSP – The Prusten Project – Heard but Not Seen: Acoustic Monitoring of Wild Tiger Populations

AZA Waldrapp Ibis SSP – Genetic Sampling

Cats: Is Symmetric Dimethylarginine (SDMA) Testing a Valid Indicator of Kidney Function in Sumatran Tigers, Indochinese Tigers or Cheetahs?

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

Great Ape Neuroscience Project

Lemurs: Comparative Genomics and Phylogenetics of Indriidae

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

Paternity and Genetic Diversity of Imported African Elephant Founders

Population Dynamics of Urban Texas Rat Snakes (*Elaphe obsoleta lindheimeri*) at the Dallas Zoo

Reproductive Health Surveillance Program

Scent Gland Lipids of the Mangshan Pit Viper

Understanding the Basic Reproductive Biology of Lions for Management and Conservation

EL PASO ZOO**Education Programs**

Animal Encounters

Animal Presentations

Behind the Scenes Tours

Bird Show

Birthday Party Animal Encounter

Classroom Programs

Exhibit Host

Meet the Keeper

Produce Hunt

Public Programs – Enrichment

Public Programs – Trainings

Scout Badge Program

Sleepovers

Field Conservation

African Penguin Conservation

American Association of Zoo Keepers (AAZK) – Rainforest Conservation Parking Meter

Amphibian Ark

AZA Conservation Grants Fund (CGF)

AZA Jaguar SSP

Black-Footed Ferret Monitoring

Burrowing Owl Conservation

Chihuahuan Desert Education Coalition Certified Habitat Program

Indonesia Species Conservation Program (ISCP)

Lion Guardians – Kenyan Maasailand

Mexican Wolf Conservation

National Wildlife Health Center (NWHC)

Proyecto Tití

Raptor Rehabilitation

Save the Vaquita

Saving Asian Wild Horses

Second Chance Wildlife Rescue

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 as a Wildlife Habitat

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Commingled Recycling

Composting On-Site or Off-Site

Graywater Reuse and/or Rainwater Harvesting

Local Food Procurement for Animals and/or Guests

Solar or Wind Energy Generation

Wastewater Reduction

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

Zoo Conservation Outreach Group (ZCOG)

FORT WORTH ZOO

Field Conservation

Arthur A. Seeligson Jr. Conservation Fund

AZA Louisiana Pine Snake SSP – Reintroduction

AZA Puerto Rican Crested Toad SSP

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

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

Jamaican Iguana Recovery Program

Monarch Watch

Mountain Bongo Project

Okapi Conservation Project

Panamanian Golden Frog Conservation and Education
Outreach

Pecos Pupfish Rescue

Pollinator Habitat Restoration

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

Turtle Survival Alliance (TSA) – Turtle and Tortoise
Conservation

Virgin Islands Tree Boa Reintroduction and Research

Green Practices

ENERGY

Documented Amount Used

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Composting On-Site or Off-Site

Construction Waste Diversion / Recycling

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

Documented Amount Spent on Landfill Waste

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Activity Budget for an Adult Female Asian Elephant

Behavioral Monitoring of a Fort Worth Zoo Gorilla Troop

Behavioral Monitoring of a Male Mandrill at the Fort Worth Zoo

Bonobo Maternal Behavior and Infant Developmental Behavior

Comparison of Fresh and Frozen Fecal Samples in Two Transport Medias for the Detection of Enteric Bacteria in Rock Iguanas

Elephant Nutrition Project

Exposure of Two Organic Chemicals on Hellbender Larvae

Iguana Enrichment Study

Linking *In-Situ* and *Ex-Situ* Populations of Threatened Amphibians: Using the Puerto Rican Crested Toad and Chiricahua Leopard Frog as a Model

Pharmacokinetics of Itraconazole in African Penguins

Pharmacokinetics of Itraconazole in Lesser Flamingos

Scales on Trails

FOSSIL RIM WILDLIFE CENTER**Field Conservation**

Addax Antelope Assurance Population

Attwater's Prairie Chicken Database

AZA Conservation Grants Fund (CGF)

AZA SAFE – Vaquita Program

Dama Gazelle Conservation Assurance Population

Dama Gazelle Genetic Study

International Elephant Foundation (IEF) – Salary Administration

International Rhino Foundation (IRF)

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

Masked Bobwhite Quail Recovery Team Participation

Mexican Wolf Assurance Population

Okapi Conservation Project

Red Wolf Assurance Population

Scimitar-Horned Oryx Conservation Assurance Population

Source Population Alliance (SPA)

Southern Black Rhinoceros Conservation Assurance Population

Zoological Association of America's (ZAA) Legislative Fund

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 Spent

GREEN CERTIFICATIONS

Certified as a Monarch Watch Waystation

GREEN PRACTICES IMPLEMENTED

Commingled Recycling

Community-Based Sustainability Projects

Composting On-Site or Off-Site

Construction Waste Diversion / Recycling

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy / Commitment

Green Information Technology (IT)

Local Food Procurement for Animals and/or Guests

Stormwater Management Program

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

WASTE

Documented Amount Spent on Landfill Waste

WATER

Documented Amount of Wastewater Generated

Documented Amount Used

Mission-Focused Research

Attwater's Prairie Chicken Fenbendazole Toxicity Study

Comparison of Butorphanol-Azaperone-Medetomidine (BAM) and Thiafentanil in Addax Antelope

Determining Sexual Maturity in Male Addax (*Addax nasomaculatus*) via Electroejaculation

Morbidity and Mortality in Maned Wolves

Vitamin D in Black Rhinoceros

GLADYS PORTER ZOO

Education Programs

Birthday Safari

Off-Site Presentations

On-Site Presentations

Outreach Program

Starlight Safari

Students Teaching Students

Summer Safari

Teacher Workshops

Tours

Field Conservation

CrocFest

Health Screening of Ocelots

International Iguana Foundation (IIF)

International Rhino Foundation (IRF)

Kemp's Ridley Sea Turtle Recovery Program: Mexico / United States

North American Philippine Crocodile Cooperative Breeding and Conservation Program

Pangolin Consortium

Sea Turtle, Inc.

HOUSTON AQUARIUM, INC.

Education Programs

Animal Encounter

Aquarium Adventure Exhibit Tours

Behind the Scenes Tour

Career Day

Classroom / Lab Programs

Community Outreach

Educator Open House

Homeschool Day

Hospital Outreaches

Marine Biologist / Zoologist for a Day Programs

Outreach Programs

Private Interactive Diver Show

Public Tank Feedings

Scout Programs

Sea Safari Camp

Self-Guided Tours

Shark Weekend

Stingray Reef

Tiger Chat

Tiger Weekend

Wild Dreams Overnight

Working on the Wild Side

Field Conservation

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

Fins Attached

OCEARCH

Wildlife Alliance

World Parrot Trust (WPT)

HOUSTON ZOO, INC.

Education Programs

Adult Camp Zoofari

Adult Volunteer: Animal Conservation Team

Adventure Classes

Alternative Teen Break

Animal Encounters

Assembly Programs

Camp Zoofari – Summer Only

College-Aged Zoo Internship

Collegiate Conservation Program (CCP)

Educator Day

Educator Workshops

Educators Night Out

Educators Open House

Family Nature Club

Family Travel Program – Yellowstone National Park

Homeschool Programs

Interpretive Programs

Pop-Up Play Events on Zoo Grounds

School Break Camp Zoofari

School Partnerships

Scout Badge Days

Storytelling Workshop – Andy Goodman

Teen Career Conference

Wild Together – Zoo Tour for Early Onset Alzheimer's

Wild Wheels

Zoo Crew – October – May Teen Program

Zoo Crew – Teen Summer Only Program

Zoo Overnights

Zoo Sprouts!

Zoo Yoga

ZooMobile

Field Conservation

Attwater's Prairie Chicken Recovery Program

AZA SAFE

AZA SAFE – Vaquita

Blue-Billed Curassow: Acoustic Monitoring and Camera Traps to Determine Landscape Connectivity

Bornean Small Carnivore Program

Coastal Prairie Partnership

Conservation and Ecology of the Giant Armadillo in the Brazilian Pantanal

Conservation Centers for Species Survival (C2S2) – Cheetah

Conservation Heritage Turambe Rwanda

Conservation of the Painted Terrapin in Indonesia

East Texas Black Bear Task Force

Eastern Ghats Wildlife Society

Gorilla Rehabilitation and Conservation Education (GRACE) Center

Grevy's Zebra Trust

Groupe d'Étude et de Recherche sur les Primates de Madagascar (GERP)

Herpetofauna Survey of the Tillari Bioregion, Northern Western Ghats, India

Hirola Antelope

Houston Toad Headstart and Recovery Program

Human-Wildlife Conflict Collaboration

International Crane Foundation (ICF)

International Elephant Foundation (IEF)

International Rhino Foundation (IRF)

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

IUCN/SSC Conservation Planning Specialist Group (CPSG)

IUCN/SSC Primate Specialist Group – Lemur Conservation Strategy and Action Plan

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: A New Conservation Approach

MarAlliance

Mariana Avifauna Conservation (MAC) Project

Mountain Gorilla Veterinary Project

Niassa Carnivore Project

Niassa Carnivore Project – Elephant-Beehive Fence

Okapi Conservation Project

Painted Dog Conservation (PDC)

Panama Amphibian Rescue and Conservation (PARC)

Pride Lion Conservation Alliance

Proyecto Tití

Ruaha Carnivore Project (RCP)

Satellite Tracking and Social Behaviour of the Bornean Elephant in the Lower Kinabatangan Wildlife Sanctuary: Sabah, Malaysia

Saving Endangered Grey Crowned Cranes in Rwanda

Saving Vietnam's Wildlife: Veterinary Services Training and Capacity Building

Sea Turtle Rescue and Rehabilitation in the Gulf of Mexico

Sea Turtles: Argentina

Tiger Conservation in the Endau-Rompin Landscape of Peninsular Malaysia

Toward Building a Conservation Constituency on Galápagos Through Science and Environmental Education

Wildlife Conservation Network (WCN) – Ewaso Lions

Zoo Conservation Outreach Group (ZCOG) – Anteaters and Highways

Green Practices

ENERGY

Documented Amount Used

Documented Square Footage of Conditioned Space

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

Alternative Transportation Discounts for Guests

Commingled Recycling

Community-Based Sustainability Projects

Composting On-Site or Off-Site

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy / Commitment

Local Food Procurement for Animals and/or Guests

Solar or Wind Energy Generation

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

Documented Amount Spent on Landfill Waste

WATER

Documented Amount Used

Mission-Focused Research

Collaborative Research Project Investigating Elephant Endotheliotropic Herpesvirus (EEHV)

Comparison of Alfaxalone, Tiletamine/Zolazepam, and Dexmedetomidine Injectable Pre-Anesthetics and Immersion in Tricaine Methanesulfonate (MS-222) for Surgical Level Anesthesia in the Houston Toad

Establishment of Complete Blood Count Parameters in Healthy Individuals of the Adult Houston Toad Captive Assurance Population at the Houston Zoo

Intramuscular Oxytetracycline Injection Duration in Attwater's Prairie Chickens (*Tympanuchus cupido attwateri*)

Sound Level Data Collection During Seasonal Special Events and Sound Level Impact on Zoo Collection

RAINFOREST AND AQUARIUM AT MOODY GARDENS, INC.

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Composting On-Site or Off-Site

Construction Waste Diversion / Recycling

Graywater Reuse and/or Rainwater Harvesting

Wastewater Reduction

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent

Documented Amount Used

SAN ANTONIO ZOOLOGICAL SOCIETY

Education Programs

Community-Based Programs

Docent Station Encounters

Guest Encounters Butterflies

Guest Encounters Lory Landing

Guest 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 Crocodilian Advisory Group (CAG)

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

Chilean Amphibian Conservation Center

Chinese Cave Fish Working Group

Colobus Conservation, Ltd.

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)
 IUCN/SSC Conservation Planning Specialist Group (CPSG)
 Kemp's Ridley Sea Turtle Project
 Lone Star Rattlesnake Days
 Madagascar Fauna and Flora Group (MFG)
 Mexican Blindcat Program
 Monarch Butterfly Marking Project
 Monarch Larval Monitoring Survey
 Monarch Watch – Monarch Waystation Program
 Nagaland Zoo, India – Burmese Black Tortoise Conservation
 Okapi Conservation Project – Wildlife Conservation Global
 Population Ecology of the Grotto Salamander (*Eurycea
spelaea*)
 Project Selva (Peruvian Cooperative)
 Rough Footed Mud Turtle Project
 San Antonio Zoo Center for Conservation and Research
 Snow Leopard Trust (SLT)
 Texas Horned Lizard Reintroduction Project
 The Ocean Project
 Universidad Autónoma de Nuevo León – Captive Rattlesnake
 Husbandry
 Wild Cats of Tamaulipas
 Zoo Conservation Outreach Group (ZCOG)

Green Practices

ENERGY

Documented Amount Spent
 Documented Square Footage of Conditioned Space
 Generated Renewable Energy On-Site

FOOD

Sourced Local Food or Grew It On-Site

FUEL

Documented Amount Spent

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet
 Alternative Transportation Benefits for Staff
 Commingled Recycling
 Composting On-Site or Off-Site
 Construction Waste Diversion / Recycling
 Energy Submetering
 Graywater Reuse and/or Rainwater Harvesting
 Green Purchasing Policy / Green Procurement
 Solar or Wind Energy Generation
 Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices
 Dedicated Full-Time Equivalent (FTE) Staff to Coordinating
 Green Practices
 Developed or Updated a Sustainability Plan (or Equivalent)
 Developed or Updated a Sustainability Policy

WASTE

Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent

Mission-Focused Research

Tamaulipan Rock Rattlesnake Telemetry Study in Nuevo León
Mexico

SEA LIFE GRAPEVINE AQUARIUM

Education Programs

Amazing Cephalopods
 Backstage Tour
 Clown Fish Presentation
 Crustaceans Presentation
 Meet the Creatures
 Ocean and Sea Turtle Presentation
 Octopus Presentation
 Quiz Trail
 Rainforest Adventure Presentation

Sea Turtle Presentation

Seahorse Presentation

Senses of the Sea

Shark School

Squid Dissection

Stingray/Shark Presentation

Turtle Time

Young Environmentalist Program

Field Conservation

Lake Grapevine Beach Cleanup

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

GREEN CERTIFICATIONS

Documented Square Footage of Facility With Green Building Certification

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

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Denitrification Systems

Green Information Technology (IT)

PLANS, POLICIES AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Spent

Documented Amount Used

SEAWORLD SAN ANTONIO

Field Conservation

Critical Care of Stranded, Endangered Cook Inlet Beluga Whale

Galveston Bay Foundation's Marine Debris Events and Abandoned Crab Trap Removal

Impacts of Hurricane Harvey on Galveston Bay Dolphins

Living Lands and Waters – Aquatic Debris Removal From America's Rivers

Living Lands and Waters – Big River Education and Leadership Initiatives

SeaWorld San Antonio – Animal Rescue and Rehabilitation Program

Texas Adopt-A-Beach Program

Texas Marine Mammal Stranding Network

Texas Marine Mammal Stranding Network – Photographic Identification Mark-Recapture Abundance Proposal for Bottlenose Dolphins (*Tursiops truncatus*) in the Galveston Bay System

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 Programs

Animal Presentations/Encounters

Aquarium Biofact Carts

Aquarium Discovery Programs

Aquavision Distance Learning

Camp-Ins

Conservation Theme Days

Exclusive Encounters

Exhibit Interpretation/Interactions

Homeschool

Mini Camps

Outreach

Party for the Planet

Play to Learn

SeaCamp

Seafood Wars

Teacher Professional Development

Wildlife Theater Shows

World Oceans Day

Field Conservation

Adopt-a-Beach

Aquarium Conservation Partnership (ACP)

AZA Conservation Grants Fund (CGF)

AZA SAFE – Founders Circle

AZA SAFE – Vaquita Conservation, Protection and Recovery (Vaquita CPR)

Rattlesnake Preservation Trust – Lone Star Rattlesnake Days Sponsorship

SEXual CORal REproduction (SECORE)

University of Texas Marine Science Institute (UTMSI) – Animal Rehabilitation Keep

Wildlife Rehabilitation Program

Mission-Focused Research

Wildlife Care, Conservation and Research Fund – Genetic Composition of Immature Kemp’s Ridley Turtles in the Gulf of Mexico

THE DALLAS WORLD AQUARIUM

Education Programs

Earth Day Celebration

Exhibit Ambassadors

Exhibit Touchscreens

Field Guide

General Education Program

International Sawfish Day

Keeper Talks

Member Newsletter

Migratory Bird Day

Online and Off-Site Lectures

Vaquita Awareness Day

World Oceans Day Celebration

Field Conservation

Amazon Rescue Center

Caribbean Manatee Conservation

Costa Rican Sloth Conservation

Cuban Crocodile Conservation

Harpy Eagle Conservation

Horned Guan Conservation

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Jabiru Stork *Ex-Situ* Conservation

Lone Star Rattlesnake Days

Mexican Crocodilian Conservation

Orinoco Crocodile Conservation Project

Red Uakari Monkey Conservation

Resplendent Quetzal Conservation

Utah

TRACY AVIARY

Education Programs

Book and Boots

Field Trip Tours

Kids Camps (Spring, Summer and Fall)

Little Chicks

Nature in the City

Riparian Education – Summer

School Outreach

Scout Workshops

Site Interpretation

Volunteer Training

Wetlands Tour

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

Citizen Science: Monitoring of Short-Eared Owls

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

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 – The California Condor Restoration Project

Staff Field Conservation Grant – Trapping and Banding of American White Pelicans in Northern Utah

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

Documented Square Footage of Conditioned Space

Generated Renewable Energy On-Site

Purchased Renewable Energy

FUEL

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Commingled Recycling

Composting On-Site or Off-Site

Construction Waste Diversion / Recycling

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy / Commitment

Purchasing Green Power or Renewable Energy Credits (RECs)

Smart Buildings Systems

Solar or Wind Energy Generation

Stormwater Management Program

Wastewater Reduction

Water Submetering

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

UTAH'S HOGLE ZOO

Education Programs

Animal Encounters

AZA FrogWatch USA

Biofact Cart / Exhibit Interpretation

Book Club

Boy Scout Merit Badge Classes

Cats and Cocoa

Certified Interpretive Guide Training

Conservation Partner Presentation

Cub Scouts Talk

Discovery Theater

Distance Learning Programs

Early Childhood Outreach

Eco Explorer Stations

Endangered Species Day

Environmental Film Series

Girl Scouts Classes
 iSEE Outreach
 Keeper Camp
 Keeper Programs for College Classes
 Lunch With a Keeper
 Monroe After School Nature Play
 Narrated Training Demonstrations
 Nature Club
 Party for the Planet
 Polar Bear Whiteout
 Preschool Class
 Primary Children's Hospital
 Project WILD
 Ronald McDonald House Outreach
 Safari Magazine
 Utah Master Naturalist Program
 Volunteer Animal Handling Training
 Volunteer Interpretive Training
 Walk-n-Talks
 Wild Aware Utah
 Wild Aware Utah Day
 World Elephant Day
 World Giraffe Day
 World of Flight Bird Show
 Zoo Brew
 Zoo Camp
 Zoo Discovery School
 Zoo Explorer Encounters
 Zoo Just for You
 ZooSnooz

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
 American Kestrel Partnership
 AZA Conservation Grants Fund (CGF)

AZA FrogWatch USA
 AZA SAFE – Black-Footed Ferret
 AZA SAFE – Vaquita
 Boreal Toad Conservation Program
 Giraffe Conservation Foundation (GCF)
 Gorilla Rehabilitation and Conservation Education (GRACE) Center
 HawkWatch International
 International Elephant Foundation (IEF)
 International Rhino Foundation (IRF)
 IUCN/SSC Conservation Planning Specialist Group (CPSG)
 Kinabatangan Orangutan Conservation Project
 Lewa Wildlife Conservancy
 Marine Mammal Center
 Niassa Carnivore Project
 Olfactory Capabilities of the Polar Bear
 Pan African Sanctuary Alliance (PASA) – Conservation Education, Community Engagement and Capacity Building
 Polar Bears International (PBI)
 Proyecto Tití
 Radiated Tortoise Conservation Program
 Snow Leopard Trust (SLT)
 Turtle Survival Alliance (TSA) – Radiated Tortoise Conservation Program
 Wild Aware Utah
 Wildlife SOS
 Yellowstone Forever

Green Practices

ENERGY

Documented Amount Spent
 Documented Amount Used
 Documented Square Footage of Conditioned Space
 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

Certified by the Green Restaurant Association

Documented Square Footage of Facility With Green Building Certification

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

Construction Waste Diversion / Recycling

Energy Submetering

Green Information Technology (IT)

Purchasing Green Power or Renewable Energy Credits (RECs)

Stormwater Management Program

Water-Wise Landscaping

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating 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 Spent

Documented Amount Used

Mission-Focused Research

Application of 2D and 3D Photographic Technology to Estimate Body Size and Condition of Polar Bears

Are We Expecting? Developing a Test for Early Pregnancy Detection in Captive Snow Leopards (*Panthera uncia*)

AZA Elephant SSPs and TAG – Compilation and Review of Archival Elephant Postmortem Data

Evaluating Reproductive Success in Wild and Captive Polar Bears (*Ursus maritimus*)

Evaluation of Efficacy of Improvest® in Female Giraffe to Cease Reproductive Cycling

Felidae Barcoding Project, Dr Niamh Redmond, Smithsonian Institute and Consortium of Barcode for Life

Gastrointestinal Disease in Amur Tigers

Genetic Diversity Found in Captive Population of *Chilabothrus inornatus*

Investigating Stable Isotope Patterns Associated With Weaning in African Elephant Tail Hair Samples

Monitoring Sexual Maturation of Polar Bears via Non-Invasive Fecal Analyses

Noninvasive Molecular Genetic Surveys of Primates

Optimizing Reproductive Success With Natural Breeding and Artificial Insemination in Pallas's Cats

Orangutan Low Starch Biscuit Study

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

Polar Bear Reproduction and Skin Survey

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

Retrospective Study of Odontogenic Tumors in Zoo/Wildlife Species

Successful Treatment of a Midstromal Corneal Ulceration and Descemetocoele Using Equine Amniotic Membrane Grafts in a Snow Leopard (*Panthera uncia*): A Case Report

The Orangutan Conservation Genetics Project

Virginia

VIRGINIA AQUARIUM AND MARINE SCIENCE CENTER

Education Programs

Access Aquarium

Birthday Parties for Children

Gallery Programs

School Programs – On-Site

Scouts – Day Programs

Scouts – Overnights

Stranding Response Presentations

Stranding Response Team Outreach Visits

Stranding Response Team Trainings for Staff and Volunteers

Field Conservation

Aquarium Conservation Partnership (ACP)

AZA Conservation Grants Fund (CGF)

AZA FrogWatch USA

AZA Komodo Dragon SSP

AZA SAFE

AZA SAFE – Vaquita

Coordinating Expert Response, Rehabilitation and Data Collection for Stranded Marine Mammals in Virginia

Development of Materials to Update Virginia Marine Mammal Conservation Plan

Development of Mid-Atlantic Humpback Whale Catalog (MAHWC)

Equipment for the Stranding Response and Disentanglement of Marine Mammals and Sea Turtles in Virginia

Gladys Porter Zoo – Support for Crocodile Conservation

IUCN/SSC Crocodile Specialist Group – Tomistoma Task Force

Kemp's Ridley Sea Turtle Population Recovery Project

National Marine Mammal Foundation

Pilot Study: Tagging Hauled-Out Juvenile Seals in Virginia

Responding to Hooked Sea Turtles in Virginia

Sea Turtle Nest Monitoring in Virginia Beach, Virginia

Sea Turtle Tagging and Tracking in Chesapeake Bay and Coastal Ocean Waters of Virginia

SExual CORal REproduction (SECORE)

Support for Delaware Shorebird Project

Support for Post-Mortem Examination of Stranded Large Whales in Virginia

The Center for Conservation Biology – Osprey Banding and Tracking Project

Tracking Loggerhead Sea Turtle Yearlings

Turtle Survival Alliance (TSA)

Virginia Coastal Zone Management Program Grant – Virginia Sea Turtle and Marine Mammal Stranding Network

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

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 Virginia Green

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 Information Technology (IT)

Green Purchasing Policy / Green Procurement

Local Food Procurement for Animals and/or Guests

Smart Buildings Systems
 Stormwater Management Program
 Wastewater Reduction
 Water Submetering
 Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices
 Developed or Updated a Sustainability Plan (or Equivalent)
 Developed or Updated a Sustainability Policy

WASTE

Documented Amount Composted

WATER

Documented Amount of Wastewater Generated
 Documented Amount Spent
 Documented Amount Used

Mission-Focused Research

Aerial Survey Baseline Monitoring of Virginia Capes (VACAPES) Range
 Aerial Surveys for Patuxent River Naval Training Area
 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
 Coastal Cleanup – Clean Virginia Waterways
 James River Water Quality Testing
 Monofilament Recycling and Fishing Gear Recovery
 North American Butterfly Association (NABA) – Annual Field Survey: Butterfly Count
 Oyster Restoration
 Project Clean Stream
 Roanoke Loggerhead Recovery Plan
 Sea Turtle Headstart Program

Seagrass Restoration (Seed Collection)
 Turtle Census
 Virginia Amphibian Monitoring Project (VAMP)

Mission-Focused Research

Butterfly Count
 Invasive Turtle Species Census
 Nutrient Uptake in Degraded and Restored Sections of Urban Streams in Newport News, Virginia

VIRGINIA ZOOLOGICAL PARK

Education Programs

Adventure Duos
 Behind the Scenes Tours
 Birthday Parties
 Conservation Youth Team
 Discovery Carts
 Early Childhood Story Times Programs
 Early Explorers
 Education Event Days (Zoo-Wide)
 Guided Tours
 Kids' Night Out
 Outreach to Schools
 Program Animal Pop-ups
 Safari Camps
 Snoozes
 Trail Hosting
 Twilight Programs
 Zoo Live Stage
 Zoo Tykes

Field Conservation

Action for Cheetahs in Kenya
 Amazon Rescue Center
 AZA Ape TAG – Conservation Initiative
 AZA Conservation Grants Fund (CGF)
 AZA FrogWatch USA
 AZA SAFE – Founders Circle
 AZA Tiger SSP – Tiger Conservation Campaign – Malayan Tiger

Cheetah Conservation Fund (CCF)

Community-Based Crocodile Resource Management Program

International Bongo Fund

International Elephant Foundation (IEF)

International Rhino Foundation (IRF)

IUCN/SSC Tapir Specialist Group

Lowland Tapir Conservation Initiative

Mabula Ground Hornbill Project (MGHP)

Philippine Hornbill Conservation Program

Philippine Wildlife Management and Husbandry Care Workshops

Polillo Islands Biodiversity Monitoring and Protection Program

Red Panda Network (RPN)

Sloth Institute of Costa Rica

Thailand Hornbill Project

Turtle Survival Alliance (TSA) – Turtle Survival Center

Union Island Gecko Conservation Program

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

FUEL

Documented Amount Spent

Documented Amount Used

GREEN PRACTICES IMPLEMENTED

Alternative Transportation Benefits for Staff

Building Energy Management

Community-Based Sustainability Projects

Construction Waste Diversion / Recycling

Energy Submetering

Green Building Policy / Commitment

Green Information Technology (IT)

Stormwater Management Program

Wastewater Reduction

Water Submetering

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Genetic Bank on All Rhino Species

Rhino Sperm Rescue and Banking

Washington

NORTHWEST TREK WILDLIFE PARK

Education Programs

Adventure Treks

Amphibian Workshops

CAP Cart

Cheney Center

Conservation Programs

Core Area Contacts

Elk Bugling Tour

Family Camp

Free Roaming Keeper Tour

Habitat Monitoring

Live Animal Presentations

Photo Tours

Scout Days

Skype in the Classroom

Special Events

Tram Tours

Field Conservation

Fisher Rehabilitation and Release Project
 Pierce County Habitat Monitoring
 Training and Use of Scat-Sniffing Dogs for Field Population Studies
 Trumpeter Swan Reintroduction Project

Green Practices

ENERGY

Documented Amount Used

FOOD

Sourced Local Food or Grew It On-Site

FUEL

Documented Amount Used

GREEN CERTIFICATIONS

Given a 5-Star Rating by EnviroStar

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet
 Commingled Recycling
 Composting On-Site or Off-Site
 Green Information Technology (IT)
 Stormwater Management Program
 Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

WATER

Documented Amount Used

POINT DEFIANCE ZOO AND AQUARIUM

Education Programs

Camp Adventures
 Career Day
 Career Discovery Programs
 Citizen Science
 Explore the Shore Beach Walks

Internship

Junior Guides

Keeper Talks and Close Encounters

Programs for Young Children

Rent an Educator

Science and Math Institute Instruction

Senior Guides

Snooze Overnights

Special Events

Summer Camp Assistants

Visitor Interpretive Programs

Wild Wonders Outdoor Theater

Zoo Guides

Zoo to School

Zoo to You - Community Fee-Based

Zoo to You - Gratis

Field Conservation

A Habitat Suitability Analysis With Exploration of Education Program Effectiveness at Mitigating Human Perception of Red Wolves Across Its Historic Range

Assessing the Carnivore Community of Pu Mat National Park: Systematic Surveys in One of Vietnam's Most Unexplored Forests

Assessing the Corridors, Barriers to Movement, Threats and Conservation Needs of the Flat-Headed Cat in a Human Dominated Landscape

Assessing Walrus Benthic Prey Base in Bristol Bay, Alaska

AZA SAFE - Vaquita

Conservation of the Clouded Leopards in the Chittagong Hill Tracts, Bangladesh

Developing Conservation Response Units in Sumatra

Fisher Recovery in Washington State

Foraging Ecology of Northern Sea Otters in Washington State

Khao Kheow Zoo - Clouded Leopard Breeding

Large Mammal Distributions Relative to Human Settlements Around an Important Protected Area in Borneo

Malayan Tapir Ecology and Conservation

Monitoring Movements of Translocated Clouded Leopards in Peninsular Malaysia to Assess the Efficacy of a Management Option

People Need Forests, Forests Need Wildlife: Multi-Site, Multi-Partner Outreach to Conserve Wild Anoa and Babirusa in Sulawesi, Indonesia

Project Seahorse

Red Wolf Zoo-Based Breeding and Recovery

Regional Analysis of Long-Term Survey Data of Clouded Leopard (*Neofelis Nebulosa*) and Other Felids in Eastern Thailand

Round Island Walrus Monitoring Program

Shark Tagging in the Revillagigedo Islands

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

Using Ear Tag GPS Satellite-Linked Radios to Understand the On-Ice Distribution and Movement of Male Polar Bears in Hudson Bay

Washington National Park Fund – North Cascades Bear Trailer

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

Commingled Recycling

Community-Based Sustainability Projects

Composting On-Site or Off-Site

Energy Submetering

Green Purchasing Policy / Green Procurement

Greenhouse Gas (GHG) Inventory

Local Food Procurement for Animals and/or Guests

Purchasing Green Power or Renewable Energy Credits (RECs)

Water Submetering

Water-Wise Landscaping

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions

PLANS, POLICIES AND BUDGETS

Dedicated a Line Item in the Budget for Green Practices

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

WASTE

Documented Amount Recycled

Documented Amount Sent to Landfill

WATER

Documented Amount Used

Mission-Focused Research

Development of Non-Surgical Artificial Insemination for the Genetic Management of Tigers

Non-Invasive Endocrinology to Enhance Animal Management at Point Defiance Zoo and Aquarium (PDZA)

Role of Diet in the Severity of Inflammatory Bowel Lesions in Red Wolves

Understanding the Link Between Gut Microbiomes and Inflammatory Bowel Disease in the Red Wolf

SEATTLE AQUARIUM

Field Conservation

Beach Naturalist Program

Cedar River Naturalist Program

Coastal Ecosystem Responses to Influences From Land and Sea

Hawaii Reef Study

Mussel Watch

National Oceanic and Atmospheric Administration (NOAA) – Ocean Acidification Report

Neah Bay Reef Video Survey

Northern Sea Otter Activity Budgets of Foraging Data

Olympic Sculpture Park Intertidal Monitoring

Puget Sound: Sixgill Shark Research and Conservation Project

Sea Otter Conservation Conference

Sea Otter Population Genetics

Sea Otter Pup Rehabilitation

Sea Turtle Rehabilitation

Sixgill Shark (*Hexanchus griseus*) Diver Sighting Database

Washington Sea Otter (*Enhydra lutris*) Annual Census

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

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 Benefits for Staff

Building Energy Management

Commingled Recycling

Community Solar Program

Composting On-Site or Off-Site

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy / Commitment

Green Information Technology (IT)

Green Purchasing Policy / Green Procurement

Greenhouse Gas (GHG) Inventory

Local Food Procurement for Animals and/or Guests

Smart Buildings Systems

Solar or Wind Energy Generation

Wastewater Reduction

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

Documented Amount Spent on Landfill Waste

WATER

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

Alcid Feather Endocrinology

Cow Shark Conservation Genetics

Grey and Blue Whale Fecal Hormones

Microplastic Monitoring

Noninvasive Techniques to Monitor Reproductive Hormones of Captive Pacific Harbor Seals (*Phoca vitulina richardii*)

Northern River Otter Toxicology

Sea Otter Conservation Endocrinology

Sea Otter Toxicology

Sixgill Abundance

WOODLAND PARK ZOO

Education Programs

Ambassador Animal Outreach

Animal Stage Programs

Docent Program – Raptor Cruising/Thematic Talks

Docent Program – Toolboxes and Rambles

Docent Program – Animal Encounters

Docent Program – Conservation Connections

Family Nature Club

Interpretive Engagements

Public Programs – Wildlights

Seattle Youth Climate Action Network

Senior Programs

Woodland Park Zoo Educator Professional Development Programs

Woodland Park Zoo School Programs

Zoo Adventures (Overnight Program)

Zoo Camps

Zoo Crew

Zoomazium – Visitation/Interactive Play

Zoomazium Programs

Field Conservation

Amphibian Monitoring

Asian Elephant Support (AES)

AZA Conservation Grants Fund (CGF)

AZA SAFE – Vaquita Rescue Project

Blue-Crowned Laughingthrush Annual Population Census

Evergreen Carbon Capture Program

Green Seattle

Hornbill Research Foundation (HRF) – Nest Adoptions in Thailand

HUTAN-Kinabatangan Orangutan Conservation Project – Elephant Conservation

Licton Springs Conservation and Restoration Project

Mbeli Bai Study (MBS)

Muraviovka Park for Sustainable Land Use

Northwest Amphibian Recovery Project

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

Proyecto Taguá

Raptor Ecology of the Shrub-Steppe

River Otters of Western Washington: Sentinels of Ecological Health

Ruaha Carnivore Project (RCP)

Saving the Asian Oryx

Silverspot Butterfly Conservation Project

Small Grants – Jaguar Conservation Fund

Snow Leopard Trust (SLT)

Tarangire Ecosystem Project – Tarangire National Park

Tree Kangaroo Conservation Program

Washington Department of Fish and Wildlife – Duck Research

Washington National Park Fund – Grizzly Recovery

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

Documented Square Footage of Conditioned Space

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

Documented Square Footage of Facility With Green Building Certification

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

Rated by EnviroStar

GREEN PRACTICES IMPLEMENTED

Alternative Fuel Usage for On-Site Fleet

Alternative Transportation Benefits for Staff

Alternative Transportation Discounts for Guests

Building Energy Management

Carbon Offset Purchase for On-Site Utility Use

Carbon Offsets for Employee Travel

Commingled Recycling
 Community Solar Program
 Community-Based Sustainability Projects
 Community-Supported Agriculture (CSA) Program for Staff
 Composting On-Site or Off-Site
 Construction Waste Diversion / Recycling
 Energy Submetering
 Graywater Reuse and/or Rainwater Harvesting
 Green Building Policy / Commitment
 Green Information Technology (IT)
 Green Purchasing Policy / Green Procurement
 Greenhouse Gas (GHG) Inventory
 Local Food Procurement for Animals and/or Guests
 Smart Buildings Systems
 Solar or Wind Energy Generation
 Stormwater Management Program
 Usage of Enterprise (IT) Solutions To Track, Measure and
 Dashboard Sustainability Performance
 Wastewater Reduction
 Water Submetering
 Water-Wise Landscaping

GREENHOUSE GAS EMISSIONS

Documented Amount of Greenhouse Gas Emissions
 Reported Greenhouse Gas Emissions to a Climate Registry

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating
 Green Practices
 Developed or Updated a Sustainability Plan (or Equivalent)

WASTE

Documented Amount Composted
 Documented Amount Recycled
 Documented Amount Sent to Landfill
 Documented Amount Spent on Landfill Waste

WATER

Documented Amount of Wastewater Generated
 Documented Amount Spent
 Documented Amount Used

Mission-Focused Research

Analysis of Serum Calcium, Parathyroid Hormone and
 25-Hydroxyvitamin D in Select Captive African Primates
 AZA Western Pond Turtle SSP – Species Identification
 of Western Pond Turtle SSP Program Animals Through
 Genetic Evaluation
 Captive Orangutan Dentition Emergence Compilation Project
 Characterizing the Development of Rictal Bristles in the
 Tawny Frogmouth
 Comparative Rearing Techniques for Western Pond Turtles
 (*Actinemys marmorata*) and Their Effect on Host Shell
 Microbiome
 Comparison and Annotation of a Structural Polymorphism in
 the Latherin (LATH) Gene of Equine and Related Species
 Correlations of Behavior Between Matschie's Tree Kangaroo
 in Papua New Guinea and Captive Tree Kangaroos in
 Woodland Park Zoo
 Environmental DNA for Inventory and Monitoring Aquatic
 Species
 Foot Coloration and Age in Humboldt Penguins
 Great Ape Neuroscience Project
 Metagenomic Sequencing of Animal and Insect Viral
 Discovery
 Movements and Spatial Use of Forest by Matschie's Tree
 Kangaroo in Papua New Guinea: Testing a New GPS Collar
 for Field Work at Woodland Park Zoo
 Ovarian Function in Captive Female Orangutans
 Post-Hatching Development of the Flamingo's Bill
 Prevalence, Risk Factors and Survival of Zoo Animals With
 Cancer
 Retrospective Study of Odontogenic Tumors in Zoo/Wildlife
 Species
 Tree Kangaroo Reproductive Tissue Study

West Virginia

OGLEBAY'S GOOD ZOO

Field Conservation

AZA FrogWatch USA

Captive-Rearing of Eastern Hellbenders Destined for Reintroduction

Eastern Hellbender Endangered Species Act Candidate

Monarch Watch

Proyecto Tití – Donation

Raptor Rehabilitation

Status Assessment of the Eastern Hellbender in West Virginia

Surveillance for White-Nose Syndrome in West Virginia

Wisconsin

HENRY VILAS ZOO

Education Programs

Biofact Carts and Interactive Kits Program (Discovery Docents)

Conservation Education Awareness Days

Meet and Greet

Preschool Pride

Sleepover

Zoo Camp (Summer Camp)

Zoo-To-You Program

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

Catching Hope: Repurposed Poaching Snare Project

Deputy Director Sea Turtle Nest Monitoring in Florida

International Rhino Foundation (IRF)

Monarch Watch

Orangutan Conservation Genetics Project

Polar Bears International (PBI)

Red Panda Network (RPN)

Ruaha Carnivore Project (RCP)

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

Mission-Focused Research

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

AZA Orangutan SSP – Genetics Project

AZA Tiger SSP – 2017 SSP Tiger Gamete Rescue Post Mortem

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

Red Panda Fecal Survey

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

The Carl H. Lindner Jr. Family Center for Conservation and Research of Endangered Wildlife (CREW) – Artificial Insemination (AI) of Polar Bears

INTERNATIONAL CRANE FOUNDATION

Field Conservation

African Crane Trade Project

Black-Necked Crane China Project

Eastern Migratory Whooping Crane Reintroduction

Mozambique Zambezi Delta Project

North America Sandhill Program

Red-Crowned Crane: China Flyway Project

Red-Crowned Crane: Russia Amur Lowlands Project (Muraviovka Project)

Rwanda Project

Sarus Crane: Cambodia Project

Sarus Crane: Myanmar Project

Sarus Crane: Vietnam Project

SarusScape: Australia

SarusScape: South Asia

Siberian Crane: China Staging – Stopover Area Project

Siberian Crane: Russia Breeding Area Project

Siberian Crane: Wintering Area Project – Poyang Lake Project

South African Drakensberg Project

South African Highveld Project

South African Western Cape Project

South Central Uganda Project

South Korea Crane Project

South West Uganda Project

Western Kenya 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

Zambia Bangweulu System Project

Zambia Kafue Flats Project

Zambia Liuwa Plains Project

Zambia South Luanga Project

Green Practices

ENERGY

Documented Amount Used

Documented Square Footage of Conditioned Space

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

Construction Waste Diversion / Recycling

Graywater Reuse and/or Rainwater Harvesting

Green Building Policy / Commitment

Green Information Technology (IT)

Solar or Wind Energy Generation

Stormwater Management Program

PLANS, POLICIES AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

WATER

Documented Amount of Wastewater Generated

Documented Amount Used

Mission-Focused 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

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

Determining Diet Composition and Ingestion Rate of Cranes Through Field Measurement

Environmental, Genetic and Behavioral Influences on Reproductive Success in Reintroduced Whooping Cranes (*Grus americana*)

Fecal Corticosterone and Potential Chronic Stress in Captive Whooping Cranes

Glitchin River Watershed Project

Human Use of Wetlands and Its Impacts: Developing Meaningful Conservation Strategies for South Asian Wetlands

Hunting Pressure on Waterbirds Using Non-Protected Wetlands in South Asia

Improving Nutrition and Outcomes of Displaced Rwandan Grey Crowned Cranes

Increasing Crane Sperm Cryosurvival by Altering Liquid Composition of the Plasma Membrane

Levels and Non-Lethal Impacts of Mercury Accumulation in Sarus Cranes Using an Intensively-Farmed Agricultural Landscape

Long-Term Monitoring of Large Waterbirds in South Asian Agricultural Sarus-Scapes

Muraviovka Park Bird Project

Non-Invasive Biomonitoring of Contaminants in the Endangered White-Naped Crane

Osteoarthritis in the Pelvic Limb of Captive Cranes (Family Gruidae)

Predator Response Behaviors in Wild and Captive Cranes

Sandhill Crane Long-Term Research

Sarus Crane Population Monitoring in Cambodia and Vietnam

Sarus Crane Population Monitoring in Myanmar

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 Programs

Adult Lecture

Alive Magazine

Animal Ambassador Programs

Animal Connections Continuum

Animal Encounter

Animals in Action Talks

Behind the Scenes Weekend

Big Brothers Big Sisters of America (BBBS) Classes

Big Cat Conservation Day

Bonobo and Congo Biodiversity Initiative (BCBI) – Adult Literacy Classes

Bonobo and Congo Biodiversity Initiative (BCBI) – Field Day

Bonobo and Congo Biodiversity Initiative (BCBI) – Primary School Support

Camps for Disadvantaged Youth

Cow Milking Demonstration

Early Childhood Teacher Workshops

Endangered Species / SAFE Day

Family Farm Weekend

Giraffe Feedings

Kids Conservation Club

Kohl's Wild Theater – On-Grounds

Kohl's Wild Theater – Outreach

Kohl's Wild Theater – Coloring Sheets

Milwaukee Public Schools (MPS) Extended Learning

Mother's Day – Project MOM (Missing Orangutan Mothers)

Nature Play

Oceans of Fun Seal and Sea Lion Show

Party for the Planet

Public Feedings

School Programs

Scout Programming

Summer Camps

Wild Things Newsletter

World Bird Sanctuary Birds of Prey Show

World Elephant Day

World Giraffe Day

World Penguin Day

Zoo Classes

Zoo Pride – Behind the Scenes Tours

Zoo Pride – Continuing Education Trainings

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 Avian Scientific Advisory Group (ASAG)

AZA Jaguar SSP

AZA Penguin TAG

AZA SAFE

AZA SAFE – Vaquita Rescue Project

AZA Tiger SSP – Tiger Conservation Campaign – Amur Tiger Project

Bat Conservation International (BCI)

Berggorilla and Regenwald Direkthilfe Gorilla Project

Bia-Amazonia Conservation International – Project Piaba

Bonobo and Congo Biodiversity Initiative (BCBI)

Cheetah Conservation Botswana

Costa Humboldt

Elephants for Africa

Giraffe Conservation Foundation (GCF)

Global Conservation Force
 Grand Cayman Blue Iguana Recovery Program
 Great Apes Survival Partnership (GRASP) – Funding
 Grenada Frog Study
 International Crane Foundation (ICF)
 International Elephant Foundation (IEF)
 International Rhino Foundation (IRF)
 International Rhino Keepers Association (IRKA)
 IUCN/SSC (Species Survival Commission)
 IUCN/SSC Conservation Planning Specialist Group (CPSG)
 IUCN/SSC Tapir Specialist Group – Wildlife Conservation Network (WCN)
 Jamaican Iguana Conservation Project
 Kibale Fuel Wood Project
 Lola Ya Bonobo
 Mabula Ground Hornbill Project (MGHP)
 Madagascar Fauna and Flora Group (MFG)
 Migratory and Resident Avifauna Study
 Orangutan Outreach
 Polar Bears International (PBI)
 Proyecto Tití
 Red-Necked Ostrich Conservation Support
 Salonga National Park Bonobo Project
 Snow Leopard Trust (SLT)
 Tree Kangaroo Conservation Program
 Turtle Survival Alliance (TSA)
 Wild Camel Protection Foundation (WCPF)
 Wisconsin Bureau of Endangered Resources Herp Fund

Green Practices

ENERGY

Documented Amount Spent
 Documented Amount Used
 Documented Square Footage of Conditioned Space
 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 Travel Green Wisconsin

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
 Construction Waste Diversion / Recycling
 Energy Submetering
 Graywater Reuse and/or Rainwater Harvesting
 Green Information Technology (IT)
 Green Purchasing Policy / Green Procurement
 Local Food Procurement for Animals and/or Guests
 Smart Buildings Systems
 Solar or Wind Energy Generation
 Stormwater Management Program
 Wastewater Reduction
 Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

WASTE

Documented Amount Composted

Documented Amount Recycled

Documented Amount Sent to Landfill

Documented Amount Spent on Landfill Waste

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

Mission-Focused Research

AZA Elephant TAG – Elephant Morbidity and Mortality Database

AZA Matschie's Tree Kangaroo SSP – Fecal Sample Cortisol Testing for Matschie's Tree Kangaroo

Behavioral Assessment of Zoo-Housed Felids

Bonobo Cardiovascular Database

Bonobo Finger Blood Pressure Project

Characterization of Bonobo Sperm Using Transmission Electron Microscopy

Comparison of Circulating Vitamin D (25OHD) in Captive North American and Free-Ranging South African Black Rhinoceros

Drinking Water Quality and Water Husbandry at AZA Zoos

Gastrointestinal Health Indicators in the Captive Tiger Population

Great Ape Heart Project

Relevancy of African and Asian Elephants in Zoological Facilities

NORTHEASTERN WISCONSIN (NEW) ZOO AND ADVENTURE PARK**Field Conservation**

AZA Black-Footed Ferret SSP – Black-Footed Ferret Recovery Program With the United States Fish and Wildlife Service (USFWS)

AZA FrogWatch USA

AZA Red Wolf SSP

AZA SAFE – African Penguin

AZA SAFE – Black Rhinoceros

AZA SAFE – Gorilla

AZA SAFE – Projects Benefiting From Stonyfield Farm Inc. Support

AZA SAFE – Sea Turtle Program

AZA SAFE – Sharks and Rays

AZA SAFE – Vaquita Program

AZA SAFE – Whooping Crane

Giraffe Conservation Foundation (GCF)

Iowa Trumpeter Swan Restoration Program

Jane Goodall Institute – Roots and Shoots

Sturgeon Guard Wisconsin Department of Natural Resources (DNR) Program

Green Practices**GREEN CERTIFICATIONS**

Certified by Travel Green Wisconsin

GREEN PRACTICES IMPLEMENTED

Building Energy Management

Commingled Recycling

Community-Based Sustainability Projects

Composting On-Site or Off-Site

Construction Waste Diversion / Recycling

Energy Submetering

Green Purchasing Policy / Green Procurement

Water-Wise Landscaping

RACINE ZOOLOGICAL GARDENS

Education Programs

AZA FrogWatch USA

Behind the Scenes

Birthday Parties

Conservation Awareness Days

Conservation Education Programs

Keeper Chats

Li'l Explorers Preschool at the Zoo

Member Mondays

Slumber Safari

Summer Camp

Volunteer Program

Wildlife Explorers

Wildlife Theater

Field Conservation

American Association of Zoo Keepers (AAZK) – Milwaukee Chapter

AZA SAFE – African Penguin Individual Identification Project

AZA SAFE – Vaquita Rescue

International Tiger Day

IUCN/SSC Conservation Planning Specialist Group (CPSG)

Orangutan Awareness Day

Sea Turtle Conservancy

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

Spectacled Bear Conservation Society – Peru

Torhorst Wildlife Conservation Fund

World Giraffe Day

World Rhino Day

Green Practices

ENERGY

Documented Amount Spent

Documented Amount Used

Documented Square Footage of Conditioned Space

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

Local Food Procurement for Animals and/or Guests

Wastewater Reduction

Water-Wise Landscaping

PLANS, POLICIES AND BUDGETS

Dedicated Full-Time Equivalent (FTE) Staff to Coordinating Green Practices

Developed or Updated a Sustainability Plan (or Equivalent)

Developed or Updated a Sustainability Policy

WASTE

Documented Amount Sent to Landfill

Documented Amount Spent on Landfill Waste

WATER

Documented Amount of Wastewater Generated

Documented Amount Spent

Documented Amount Used

