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.

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Argentina

Fundación Temaikén

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

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**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 elektroscirrh* (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

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
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 Boisés Miner, Granby, Quebec, Canada
Conservation of Red Pandas
Fauna and Flora Characterisation and Enhancement at Saint-Quentin Island, Trois-Rivières
International Elephant Foundation (IEF) – African Elephant Conservation
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 Québec

Mission-Focused Research
Behavioural Impact of Human Presence on Mammal Mesopredators in Protected Areas of Québec
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**

**ZOOLÓGICO 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 Motionling 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 Alternations
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 Xiaohegou 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


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 Ghagha-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

**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\textsuperscript{\textregistered}: Autonomous Remote Satellite Tag Data Recovery Stations
Effects of Increased Salinity in Coastal Wetlands on Growth and Survival of Threatened Steller’s Eiders (\textit{Polysticta stelleri}) and Spectacled Eider (\textit{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
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
Madagascan 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 Tubastrea 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 Dolphinfish (*Coryphaena hippurus*) Along the Western Baja California Coast of Mexico
Natural History of Mobulid Rays in the Gulf of California
Ocean Conservation Policy
Ocean Sunfish Research
Pacific Bluefin Tuna
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 Titi
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 – 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
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
Dhartee 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 Kilmijim 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
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
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
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

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

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
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
SEexual COral REproduction (SECORE)
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)
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
Ikhe Nart Education and Outreach Program
Ikhe 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

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

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

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

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
Saara Conservation Fund (SCF)
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**
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
Habits I
Habits II
Habits 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

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 Rhinoceroses

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

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

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 Burmareed 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
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 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 (ZAPI)
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

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
Goualougo 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

Administrative Costs for Staff Managing Field Conservation Grants
AZA SAFE – Founders Circle
Bali Mynah Reintroduction Project
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-Set 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 Adrenocorticotropic 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
Flexible Problem-Solving in Great Apes
Gathering Hormonal Measures of a Gorilla Bachelor Group
Goods, Equipment or Supplies Donated to Research Projects Outside of the Institution
Goualougo Triangle Ape Project (GTAP) – Video Analysis Lab
House Sparrow Microbial Ecology and Endocrinology
Investigating Diversity, Stress and Health of Small Mammal Communities Across an Urban to Exurban Gradient
Investigating Ovulation Failure in the Endangered Black-Footed Ferret
Investigating Post-Hatch and Post-Transfer Survival in the Blue-Grey Tanager Species Survival Plan Program
Investigating the Influence of an Ape’s Social Group on Their Individual Decision-Making
Investigation of Hormone Metabolites in Mountain Gorilla Fecal Samples Using High-Performance Liquid Chromatography (HPLC)
Japanese Macaque Behavioral Monitoring
Japanese Macaque Personality Assessment: Development of a Novel Scale for Use in Zoo Setting
Local Drivers of Bushmeat Hunting in the Greater Serengeti Ecosystem, and Its Impact on Migratory Wildlife Populations
Message Framing Effects on Animal Welfare Donation Appeals
Microbiome Comparisons Among Great Apes and Humans
PMCTrack – Analyses of Historic Breeding and Transfer Recommendations in AZA’s SSPs
Population Viability Analyses (PVAs) of AZA SSPs
Predictors of Wounding in Japanese Macaques
Prosocial Behavior in Japanese Macaques: A Touchscreen Study
Prospective Assessment of the Incidence of Mammary Neoplasia in Chimpanzees (Pan troglodytes): Pathology, Genetic Markers and Clinical Application
Retrospective Mortality Review in Chimpanzees
Retrospective Risk Assessment of Perianesthetic Mortality in Captive Managed Populations of Chimpanzees (Pan troglodytes)
Sandy Potatoes: Setting the Stage for Behavioral Transmission in Japanese Macaques
Small Mites, Big City: Using Large-Scale Wildlife Camera Monitoring to Examine the Spatio-Temporal Dynamics of Sarcoptic Mange in Chicago’s Urban Coyotes
Social Spacing of Chimpanzees and Gorillas
Teen Audience Research Study
Testing Primate Food Preferences Using Touchscreen
Testing the Use of Surrogate Demographic Data for Species Recovery
Testing Whether Social Information Aids Memory of Events by Chimpanzees and Gorillas
The Great Ape Heart Project
Training and Administration of Citizen Science Projects
Understanding and Analyzing Patterns in Life Expectancy for Zoo Animal Populations
Using Fourier Series to Partition Variability Between Temporally Periodic and Stochastic Events
ZooMonitor

MILLER PARK ZOO

Field Conservation
AZA FrogWatch USA
AZA Tiger SSP – Tiger Conservation Campaign – Sumatran Tiger and Prey Research
Snow Leopard Trust (SLT)
Vaquita Conservation

Mission-Focused Research
Quantitative Cognition in Harbor Seal

PEORIA ZOO

Field Conservation
Alligator Snapping Turtle (Macrochelys temminckii) in Southern Illinois
Alligator Snapping Turtle Recovery Plan
American Association of Zoo Keepers (AAZK) – Bowling for Rhinos
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
Goualougo 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)
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

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

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

Dhartee 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

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 Titi
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
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 Phayayen-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
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

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

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

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

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
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**

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

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
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 Zoorari 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, Meteetsee, 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 Spotlighting
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
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)

WATER
Documented Amount Spent

Mission-Focused Research
Nutrient Analysis of Frozen Browse

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

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
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

American Burrowing 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 (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-Inflammatory Medications 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
Hirola 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 Conservation and Outreach Program in Bangladesh
Sea Turtle Friendly Launch in Philippines
SEXual COReproduction (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 (250HD) 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


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
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
Field Conservation
AZA SAFE - Vaquita
AZA SAFE - Western Pond Turtle
Giraffe Conservation Foundation (GCF)

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 Greets
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 PEFCA 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
Myobacterial 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
Mbéli 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
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 capriscus) 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 – Weblos – 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 (ACOBA-DWAZOO)
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

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

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 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

**Field Conservation**
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’Etude 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 Titi
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 (*Peltodryas 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 IMPLEMENTED**

Alternative Transportation Benefits for Staff

Commingled Recycling

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

**Green Practices**

**ENERGY**

Documented Amount Used

Documented Square Footage of Conditioned Space

Generated Renewable Energy On-Site

Purchased Renewable Energy

**FUEL**

Documented Amount Used
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 Logperch 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 richardi*)
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 Docs)
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
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

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

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