

Montgomery Zoo Summary Report on Conservation & Science Projects

Title of Project	Year	Scientific Name(s) of Species	Project Leader/ Investigator(s)	Country/ Region where occurred	Other AZA Zoos/ Aquariums involved	Non-AZA Organizations involved	\$ Amount Spent on Project in 2007	Project Description
Toco toucan population density survey	2004	<i>Rhampastos toco</i>	Graham Watkins Iwokrama Center Guyana	Guyana, South America			\$2000	Census count by in-situ bird clubs of local populations of toco toucans in order to develop a population density estimate of toco toucans
Reconstruction of SSP captive population of toco toucans	2003 2004	<i>Rhampastos toco</i>	Ken Naugher	Guyana, South America	Denver Zoo, Santa Barbara Zoo, Sea World Orlando, Bronx Zoo, Brevard Zoo,Lowry Park, Busch Gardens,Nashvill e Zoo,Audubon Zoo, Dreher Park		\$56,000	Importation of 35 new founders to the SSP population in order to avoid genetic crash of the population in the future.
Seasonality of reproduction in captive squirrel monkeys	2005	<i>Saimiri sciureus</i>	Heather Trevino Auburn University	USA		Auburn University	\$3000	Comparison of seasonality of births in captive squirrel monkeys in outdoor versus indoor facilities.
Comparison of several types of enrichment for captive felids	2006	<i>Panthera tigris</i> <i>Leopardus pardalis</i> , <i>Panthera onca</i> , <i>Puma concolor</i> , <i>Acinonyx jubatus</i> , <i>Panthera leo</i>	Amy Skibiel Heather Trevino Auburn University Ken Naugher Montgomery Zoo	USA		Auburn University	\$1200	Comparison of three different types of enrichment: bones, fish and spices in order to measure change in activity, stereotypic, and preference behaviors.

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Cheetah artificial insemination with cryopreserved Namibian sperm	2002	<i>Acinonyx jubatus</i>	JoGayle Howard Smithsonian National Zoo	USA	National Zoo			Provided animals for insemination
Development & identity of sexually dimorphic reproductive signals and responses by African elephants	2006	<i>Loxodonta africana</i>	Jordana Meyer Georgia Southern University	USA		Georgia Southern University		Hormonal assay of urine in order to determine specific times in the estrous cycle of African elephants. Allowed researcher to collect samples & observations.