

# **Annual Report on the Research and Management of Florida Panthers: 2017-2018**



**Florida Fish and Wildlife Conservation Commission**

**18 October 2018**

## **FWC Contributors and Contact Information:**

The compilation of this report was the result of the combined efforts of multiple FWC staff members currently working on the Florida Panther Project. Further analyses of these data will be conducted and results published in the scientific literature by the FWC and collaborators. Persons interested in obtaining the most current data should contact the FWC at:

Florida Fish and Wildlife Conservation Commission  
298 Sabal Palm Road  
Naples, Florida 34114 USA  
(239) 417-6352

**This report and previous annual reports can be downloaded as a pdf file at the Florida Fish and Wildlife Conservation Commission [Florida Panther Website](#)**

### **Citation:**

**Florida Fish and Wildlife Conservation Commission. 2018. Annual report on the research and management of Florida panthers: 2017-2018. Fish and Wildlife Research Institute & Division of Habitat and Species Conservation, Naples, Florida, USA.**

# Table of Contents

	<u>Page</u>
<b>EXECUTIVE SUMMARY .....</b>	<b>1</b>
<b>INTRODUCTION .....</b>	<b>3</b>
<b>ACKNOWLEDGEMENTS .....</b>	<b>6</b>
<b>STUDY AREA .....</b>	<b>7</b>
<b>METHODS.....</b>	<b>7</b>
MONITORING .....	7
CAPTURE .....	8
PHYSICAL EXAMINATION .....	8
LIVE-CAPTURE SAMPLE COLLECTION.....	9
VACCINATION AND TREATMENT .....	9
NEONATAL KITTENS.....	10
RADIOCOLLARING .....	10
NECROPSY .....	10
DIAGNOSTICS .....	11
<b>RESULTS AND DISCUSSION .....</b>	<b>12</b>
2017-2018 PANTHER CAPTURE SEASON.....	12
<i>Radiocollared Panthers</i> .....	12
<i>Capture Results</i> .....	12
<i>Biomedical Summaries of Florida Panthers Handled in 2017-2018</i> .....	13
CAPTIVE FLORIDA PANTHERS.....	13
REPRODUCTION .....	13
FLORIDA PANTHER MORTALITY .....	14
MANAGEMENT ACTIVITIES.....	14
<i>Florida Panther Response Plan Activity</i> .....	15
<i>Land use, habitat impacts, environmental commenting and recovery tasks</i> .....	16
CURRENT RESEARCH.....	16
<b>LITERATURE CITED .....</b>	<b>18</b>
<b>FWC PANTHER STAFF PUBLICATIONS AND PRESENTATIONS 2017-2018 .....</b>	<b>19</b>
<b>FPRMTF: FUNDING INFORMATION AS OF 30 JUNE 2018 .....</b>	<b>83</b>
<b>TABLES</b>	
Table 1. Florida panthers captured by the Florida Fish and Wildlife Conservation Commission from 1 July 2017 to 30 June 2018. ....	20
Table 2. Neonate kittens handled at Florida panther dens by the Florida Fish and Wildlife Conservation Commission and the National Park Service from 1 July 2017 to 30 June 2018. ....	21
Table 3. Verified Florida panther mortalities and injuries recorded between 1 July 2017 and 30 June 2018. Data collected by FWC and BCNP staff. Causes of death include hit-by-car (HBC), intraspecific aggression (ISA), and unknown (U). The presence of atrial septal defects (ASD) and other biomedical and morphometric data are also noted. Sex is male (M), female (F), or unknown (U) and age is in years, months (mo.), or weeks (wks.). Some characteristics were not determined (nd) or not applicable (NA) to specific panthers. ....	22
<b>FIGURES</b>	
Figure 1. Locations of all radiocollared Florida panthers in southern Florida from 1 July 2017 to 30 June 2018. Data collected via aerial telemetry by FWC and NPS. ....	25
Figure 2. Depiction of the 100% minimum convex polygon home ranges for adult female Florida panthers monitored by FWC from 1 July 2017 to 30 June 2018. Data collected via aerial telemetry by FWC. ....	26
Figure 3. Depiction of the 100% minimum convex polygon home ranges for adult and subadult male Florida panthers monitored by FWC from 1 July 2017 to 30 June 2018.....	27

Figure 4. Confirmed human-panther interactions from FY 2003-2004 through 2017-2018. Note: Data in FY 2011-2012 and FY 2012-2013 includes five and six depredations of domestic animals, respectively, that involved radiotagged calves monitored as part of the UF-IFAS calf mortality study (Jacobs and Main 2015). Definitions of conflict categories can be found in Appendix C of the USFWS Environmental Assessment for the “Interagency Florida Panther Response Plan”. ..... 28

**APPENDICES**

Appendix I. List of radiocollared Florida panthers and Texas pumas in southern Florida from 10 February 1981 to 30 June 2017. Data includes panthers captured by FWC and BCNP staff. .... 29

Appendix II. List of Florida panther kittens handled at natal dens in southern Florida by FWC and BCNP staff from 7 April 1992 through 30 June 2018. Litters are sorted chronologically. .... 41

Appendix III. List of all known dens of radiocollared female Florida panthers and Texas pumas in southern Florida from June 1985 to June 2018. Kitten numbers preceded with “K” indicate natal den was visited. Samples are ordered by female ID and secondarily by year. Data collected by FWC and BCNP. .... 59

Appendix IV. Florida panther and Texas puma mortalities, injuries, and removal to captivity sorted by year through 30 June 2018. Data collected by FWC and BCNP. Ages are estimated unless panthers were handled as kittens at natal dens. Age values are in years unless noted otherwise. .... 67

## Executive Summary

This report, prepared by the Florida Fish and Wildlife Conservation Commission (FWC), highlights information collected on the Florida panther (*Puma concolor coryi*) during fiscal year 1 July 2017 through 30 June 2018. In some cases, data (e.g., diagnostic or genetic test results) are presented from samples collected in prior fiscal years due to lag times involved with processing. Historic data are included as appendices. Panther research and management is a cooperative effort. We acknowledge the involvement of other agencies, including the U.S. Fish and Wildlife Service (USFWS) and particularly Big Cypress National Preserve (BCNP) and Everglades National Park (EVER) of the National Park Service (NPS). BCNP and EVER have located radiocollared panthers by plane within their respective park boundaries and resulting data have been incorporated into a telemetry database and are used with permission in this report. However, no panthers were equipped with radiocollars during the reporting period in EVER. Population status within EVER was monitored by trail cameras during the fiscal year. Beginning in 2003, BCNP was permitted by the USFWS and FWC to conduct panther capture activities. These activities have been occurring within BCNP boundaries south of I-75. BCNP assembled their own capture team and have captured previously uncollared panthers, replaced radiocollars due to expected battery failure, marked neonatal kittens at den sites, and recovered carcasses. While some data (e.g., biomedical, demographic) of panthers handled by BCNP are contained herein for completeness of datasets, more specific information may be found in the BCNP annual report compiled by BCNP staff.

There was no designated capture season during the 2017-2018 reporting period. Telemetry data were collected on 17 radiocollared Florida panthers in southern Florida by FWC and BCNP staff. Four panther dens were sampled by FWC and BCNP staff resulting in the documentation of 10 (5♂, 5♀) neonate kittens. Kittens handled at their natal dens were permanently marked with subcutaneous transponder chips and tissue samples were collected for genetic analyses. Three panthers needing immediate management action (FP224♀, FP251♂, FP252♂) were captured. A total of 252 panthers have been captured since 1981 and 490 neonate kittens have been handled at dens since 1992.

Thirty-three free-ranging panther deaths were documented during the reporting period including: six radiocollared panthers (5♂, 1♀) and 27 (16♂, 11♀) uncollared panthers. Causes of mortality included: 28 by vehicular trauma (16♂, 12♀), two from intraspecific aggression (2♂), three from unknown causes (3♂). Significant biomedical findings in necropsied panthers included an atrial septal defect (ASD; 1♂), encephalitis (1♂), leukoencephalomalacia (1♀), and dermatophytosis (1♂).

Panthers were confirmed to be involved in 47 depredation events during the reporting period. Animals killed or injured by panthers included: goats (31), calves (14), cat (8), sheep (5), miniature horse (5), donkey (3), turkey (3), goose (3), pigs (2), emu (1), and dog (1). A human-panther incident is defined as when a panther displays potentially threatening behavior to a human. One incident was confirmed by the Interagency Florida Panther Response Team during the reporting period.

## Introduction

The Florida panther historically ranged throughout most of the southeastern United States from western Louisiana to the swamps of South Florida (Young and Goldman 1946; Onorato et al. 2010). Loss and fragmentation of wilderness and unregulated killing in the southeastern United States over the past two centuries reduced panthers to the point where only one population persisted at the tip of peninsular Florida by the mid-1900s (Onorato et al. 2010). Florida panthers were listed as endangered in 1967 by the Federal Government on the inaugural list of endangered plants and animals published in the Federal Register ([Federal Register 1967](#)). Subsequently, Florida panthers were afforded protection under the U.S. Endangered Species Act (Public Law No. 93-205) in 1973.

The Florida panther currently exists as a single population located in southern Florida and represents the only population of puma east of the Mississippi River. Panthers have been documented in 24 Florida counties based on occurrence records verified by FWC. A single, dispersing male panther was killed by a hunter in central Georgia near the Alabama state line in 2008. Telemetry, mortality, depredation, human interaction, and sighting records indicate that panthers currently are distributed into central Florida at least as far north as Interstate 4, but most of these records are transient adult or subadult males that are not part of a breeding population. From 1980 to 2017, all occurrence data demonstrated that female panthers were present only south of the Caloosahatchee River and most reproduction occurred in Collier, Hendry, Lee and Miami-Dade counties. On 15 January 2017, a lactating female panther was documented via trail cameras deployed on the Babcock Ranch Preserve in Charlotte County, Florida. FWC trail cameras subsequently documented a female with a minimum of two kittens on the Preserve on 15 March 2017 and several subsequent occasions that spring. A second female was documented with a trail camera on Platt Branch Wildlife and Environmental Area in Highlands County, Florida in March 2017 (FWC unpublished data). These were the first females that have been confirmed north of the Caloosahatchee River since a female was captured in Glades County in 1973 (Nowak and McBride 1974, FWC 2017). While this documentation of females north of the River is encouraging and has the potential

to have a major impact on recovery, it's prudent to remain cautiously optimistic given the varied hurdles panthers face when expanding range into portions of Florida north of the Caloosahatchee River.

Today, Florida panthers persist on < 5% of their historic range and are endangered by a combination of small population size, isolation, and loss of habitat (USFWS 2008a). Small population size and geographic isolation increase the chance for extinction of Florida panthers due to demographic instability inherent in small numbers and erosion of genetic diversity from restricted gene flow and inbreeding. Natural exchange of genetic material occurred historically among the Florida panther population in the southeastern United States and contiguous populations of *P. c. cougar* to the north, *P. c. hippolestes* to the northwest, and *P. c. stanleyana* to the west (Young and Goldman 1946). Genetic exchange between Florida panthers and other populations ceased as the Southeast was settled. Florida panthers steadily declined in abundance and distribution (Alvarez 1993), likely a result of persecution and habitat loss (but see Alvarez 1993, pp. 35-61, for competing theories on the decline of panthers). Gene flow is reliant upon individuals that immigrate and breed, but habitat fragmentation generally disrupts dispersal. Dispersal and immigration serve as a natural mechanism for mixing the gene pool and help minimize inbreeding within populations. Elevated levels of inbreeding can result in inbreeding depression, which can have varied implications for populations including: loss of genetic variation, declining health, reduced survivability, decreased fecundity, and an increased risk of extinction (Laike et al. 1996, Crnokrak and Roff 1999, Frankham et al. 2002).

It was exactly such a scenario that was playing out in south Florida in the late 1980s and early 1990s (Roelke et al. 1993). Inbreeding depression, habitat loss, and isolation had taken their toll on the remaining population of panthers. The complex interplay of social, demographic, genetic, and health factors dictated that a timely and aggressive program be implemented to address the multitude of problems faced by the 20-30 Florida panthers that persisted into the early 1990s (McBride et al. 2008; Onorato et al. 2010). A plan for genetic restoration and management of the Florida panther was developed in September 1994 (Seal 1994; Johnson et al. 2010) and implemented in 1995 with the release of 8 female pumas initially captured in West Texas. Five of the 8 Texas pumas produced litters with

resident male Florida panthers and a minimum of 20 F<sub>1</sub> kittens were born in Florida as a result (Johnson et al. 2010; Onorato et al. 2010). None of the released Texas females remain in the wild today.

Assessment of the genetic restoration project has shown that this management program was successful and had a positive impact on the Florida panther population. Genetic variation has doubled, survival and fitness measures have improved, and physical correlates of inbreeding have declined significantly (Johnson et al. 2010; Hostetler et al. 2010). After genetic restoration, the panther population has increased in size from the 20-30 individuals that remained in the early 1990s (McBride et al. 2008). Using a combination of density estimates and estimates of available habitat in south Florida, the FWC has quantified the current panther population size (inclusive of independent aged panthers [i.e., adults and subadults]) to be within the range of 120-230 individuals ([FWC Statement on Estimating Panther Population Size](#)). Knowledge gained from the genetic restoration project will undoubtedly influence future management strategies for panthers and may have far reaching implications to varied conservation projects worldwide.

The FWC's current panther research and management priorities include, but are not limited to: monitoring genetic variation and correlates of inbreeding; evaluating the long-term impacts of genetic restoration; assessing the presence and impacts of diseases and parasites; delineating statistically robust methods to estimate the panther population size; evaluating the utility of new GPS collar technology; assisting with the development of new panther recovery criteria with USFWS, minimizing loss of existing panther habitat; addressing human-caused and other mortality factors; and reducing human-panther conflicts.

Our overall research goal is to complement historical data sets with ongoing, objective driven research to provide the information necessary to manage and conserve panthers. The melding of information on demographics, genetics, biomedical, and land management challenges has ultimately assisted in the implementation of effective management plans that have promoted the long-term survival and recovery of the panther in Florida.

## Acknowledgements



FWC's panther research and management activities are funded almost entirely by the Florida Panther Research and Management Trust Fund (FPRMTF). This trust fund is supported principally by the sale of [Florida panther license plates](#). The FWC panther research and management group would like to thank the citizens of Florida that continue to support our efforts to conserve and manage panthers via contributions to this fund. Specifics concerning the current financial status of the FPRMTF can be found at the end of this annual report.

We would like to acknowledge the following individuals, businesses, and agencies for their assistance provided to this project: Roy and Cougar McBride (Livestock Protection Company); Drs. Ashley Ayoob and Marc Havig (Animal Specialty Hospital of Naples [ASH], Naples, FL); Dr. Ray Ball (ZooTampa [ZT], Tampa, FL); Dr. Lizzy Arnett-Chin and Liz Harmon (Naples Zoo [NPZ], Naples, FL); Dr. Scott Citino and Karen Meeks (White Oak [WO], Yulee, FL); Dr. Justin Rosenberg and Jim Wellehan (University of Florida – College of Veterinary Medicine, Gainesville, FL); and David Shindle (USFWS) for assistance on varied aspects of panther fieldwork, management, and research collaborations. We thank staff at the Immokalee Ranch (IMR, Immokalee Florida) including employees of Barron Collier Companies and Collier Enterprises, for permitting the FWC Panther Team to conduct panther capture and research activities on the IMR during 2017 and 2018. We would also like to extend our appreciation to the staffs at BCNP, Big Cypress Seminole Indian Reservation (BCSIR), Collier Seminole State Park (CSSP), Corkscrew Regional Ecosystem Watershed (CREW), Corkscrew Swamp Sanctuary (CSS), Dinner Island Ranch Wildlife Management Area (DIWMA), EVER, Florida Panther National Wildlife Refuge (FPNWR), Fakahatchee Strand Preserve State Park (FSPSP), Immokalee Ranch, Lee County Port Authority (LCPA), Picayune Strand State Forest (PSSF), and Okaloacoochee Slough State Forest (OSSF)

for their continued cooperation and support of our research and management efforts. We thank Dr. Michael Warren (CA Pound Laboratory) for the forensic examination of panther skeletal remains, the Southeastern Cooperative Wildlife Disease Study (SCWDS) for identification of ticks removed from Florida panthers, and Mike Kinsella for the identification of helminths recovered at necropsy. White Oak and ZT continue to play vital roles in the care and rehabilitation of panthers for release back into the wild. Finally, we are deeply appreciative of the many folks involved in the efforts to save and care for injured or orphaned panthers, including staff from ASH, NPZ, Ellie Schiller Homosassa Springs Wildlife State Park (Homosassa, FL) and USFWS.

## **Study Area**

The study area encompassed most of interior southern Florida south of Orlando and extended to southern EVER. The area included large blocks of low-lying public lands such as CREW, EVER, BCNP, FSPSP, PSSF, and the FPNWR. Significant private lands, primarily used for cattle and crop production, lie on higher terrain to the north of public lands and are important habitat for Florida panthers. The overall study area was divided into 3 Agency Monitoring Areas (AMA) for purposes of conducting aerial relocations and capture/recovery efforts. The FWC AMA was statewide excluding BCNP south of I-75 and EVER. The BCNP AMA encompassed the area within the BCNP boundary south of I-75. The EVER AMA encompassed the area within the EVER boundary.

## **Methods**

### **Monitoring**

FWC staff was responsible for capturing and fitting panthers with radiocollars, handling neonates at dens, recovering carcasses from the field and roadside within the FWC and EVER AMA, and obtaining aerial relocations (i.e., pinpointing panthers fitted with radio-transmitters from aircraft) three times per week within the FWC AMA. BCNP staff was responsible for these same activities within the BCNP AMA. Due to reductions in spending authority associated with the enactment of the U.S. Governments

Budget Control Act of 2011, aerial monitoring of panthers by BCNP staff has been discontinuous since 11 March 2013. During the fiscal year, FWC staff has periodically assisted with locating panthers within the BCNP-AMA when BCNP staff was unable to coordinate a regular flight schedule due to equipment availability or funding shortages. The EVER AMA is currently being monitored for the presence of panthers via trail cameras deployed by EVER personnel at various locations throughout the Park. Responsibility of conducting aerial relocations was coordinated between agencies for those panthers whose home ranges overlap AMAs.

## **Capture**

Free-ranging Florida panthers were captured using trained-hounds and houndsmen provided by Livestock Protection Company (Alpine, TX). Panthers were either treed or bayed on the ground and were then darted with a 3 ml compressed-air dart fired from a CO<sub>2</sub>-powered rifle. Panthers were immobilized with a combination of ketamine HCl (10 mg/kg; Doc Lane's Veterinary Pharmacy, Lexington, KY) and xylazine HCl (1 mg/kg; Doc Lane's Veterinary Pharmacy, Lexington, KY). Following immobilization, treed panthers were lowered to the ground by a rope or caught with a net; in some cases, a portable cushion (McCown, 1990) was used to further mitigate the impact of a fall. Propofol (PropoFlo™, Abbott Laboratories, Abbott Park, IL) was administered intravenously (IV) either as a bolus or continuous drip to maintain anesthesia. Midazolam HCl (0.03 mg/kg) was administered intramuscularly (IM) or IV to supplement anesthesia in some panthers. Panthers were left to recover in a shaded area away from water. In some cases, xylazine HCl was reversed with yohimbine HCl (Yobine®, Lloyd Inc., Shenandoah, IA) at ¼ its recommended dose.

## **Physical Examination**

Vital signs (temperature, heart rate, respiration rate, and capillary refill time) and depth of anesthesia were monitored and recorded. A sterile petrolatum ophthalmic ointment (Puralube®, Pharmaderm, Melville, NY) was applied to the eyes for lubrication. All animals underwent a physical examination to assess general health and physical condition. For each panther handled, the skin over the

medial saphenous or cephalic vein was shaved, prepped, and an IV catheter (Abbocath®-T, Abbott Ireland, Sligo, Republic of Ireland) was aseptically placed. Sterile isotonic fluids were administered either subcutaneously (SQ) or IV.

## **Live-capture Sample Collection**

Approximately 70-140 ml of blood (depending on body weight) were collected from the medial saphenous or cephalic veins using a butterfly catheter (19 or 21 ga), luer adapter/hub, and Vacutainer® tubes (approximately 30 ml in serum separator, 30 ml in EDTA, 10 ml in Na Heparin, and 3ml in red top, no additive; Becton Dickinson, Franklin Lakes, NJ). A 4 mm skin biopsy was aseptically collected from the distal pinnae of uncollared panthers and saved in 95% ETOH for DNA analysis. A triple antibiotic ointment was applied to each biopsy site. Hair was plucked from the ventral abdomen for DNA analysis and stored in paper coin envelopes. Other samples, such as bacterial cultures, skin scrapings, and diagnostic biopsies were taken if indicated. Blood smears were made in the field, or as soon as possible, from fresh whole blood. Panthers were implanted with a SQ transponder identification chip (Biomark®, Boise, ID), and were typically measured, and weighed.

## **Vaccination and Treatment**

Depending on vaccine history and, in some cases, titers at previous capture, panthers >6 months old were vaccinated SQ against feline leukemia virus (FeLV), feline viral rhinotracheitis (FVR), feline calicivirus (FCV), feline panleukopenia (FPV) (Fel-O-Vax® LVK III + Calcivirus [FDAH], 1 ml, lower left leg), and rabies (Rabvac™ 3 [FDAH], 1 ml, lower right leg). Depending on body condition, captured panthers were dewormed with ivermectin (0.1 mg/kg, Ivomec®, Merial Limited, Iselin, NJ) and praziquantel (5 mg/kg, Bimeda, Inc., Le Sueur, MN) administered SQ in the lateral aspect of right thigh. Cefovecin sodium (8mg/kg, Convenia®, Pfizer, Inc., New York, NY) and penicillin G procaine/benzathine (22,000 to 44,000 U/kg, Combi-Pen-48®, Bimeda, Inc., Le Sueur, MN) were administered as needed.

## **Neonatal Kittens**

Neonatal kittens <6 weeks-of-age were handled according to Land et al. (1998) and marked with a SQ transponder identification chip. Pyrantel pamoate (5mg/kg, Columbia Laboratories, Lexington, KY) was administered orally and blood was collected from the jugular vein for CBC and serum chemistry if indicated. A 2 mm biopsy sample was aseptically collected from the distal end of each pinna and saved in 95% ETOH for DNA analysis. A triple antibiotic ointment was applied to each biopsy collection site.

## **Radiocollaring**

Captured adult and subadult panthers were fitted with a very-high-frequency (VHF, Advanced Telemetry Systems [ATS], Inc., Isanti, Minnesota) or VHF/GPS (Lotek Wireless Inc., Ontario, Canada) radiocollar and monitored three times weekly (M, W, F) from a Cessna 172 fixed-wing aircraft (aerial relocations). Locations collected by FWC were recorded in the Universal Transverse Mercator coordinate system using customized software that incorporates positional information from digital orthophotographic quarterquads (geodetic referenced to North American Datum 83) loaded onto a Tablet PC linked to an external GPS unit. Mating and denning behavior; aggressive encounters among panthers; movements and home range shifts; dispersal, survival, recruitment, displacements and replacements of individuals; and other social and ecological interactions were interpreted from radiotelemetry data, field investigations, genetic analyses, or a combination of these data sets.

## **Necropsy**

Florida panthers found dead were completely necropsied at the FWC Wildlife Research Laboratory (Gainesville, Florida). Panthers suspected to have been killed illegally were necropsied at the USFWS National Forensic Laboratory (Ashland, OR). When carcass condition allowed, tissue samples were collected at necropsy from all major organs. Fluids collected included heart blood, venous blood, thoracic blood, aqueous humor, and urine. Blood samples were centrifuged at 2000 rpm for 10 minutes and the supernatant was decanted. Representative tissues from fresh (unfrozen) and some previously frozen panthers were placed in 10% neutral buffered formalin. Fixed tissues were embedded in paraffin,

sectioned at 5 to 6  $\mu\text{m}$ , and stained with hematoxylin and eosin. Tissues were microscopically examined by pathologists at the University of Florida – College of Veterinary Medicine (UF-CVM, Gainesville, FL), the Southeastern Cooperative Wildlife Disease Study (Athens, GA), the Bronson Animal Diagnostic Laboratory (Kissimmee, FL), or Northwest Zoopath (Monroe, WA). All tissues from live-captured and necropsied panthers not immediately analyzed were archived at  $-20^{\circ}$  to  $-70^{\circ}\text{C}$ .

## Diagnosics

Whole blood in EDTA, serum, and diagnostic samples were shipped overnight to Antech Diagnostics (Farmingdale, NY) for a complete blood count (CBC), serum chemistry profile, and appropriate diagnostic procedures (culture, histopathology). Tissue biopsies for DNA analyses were stored at the FWC-Naples Field Lab.

Reciprocal antibody titers and/or presence of antigen in serum were determined for feline leukemia virus (FeLV, ELISA antigen), feline immunodeficiency virus/puma lentivirus (FIV/PLV; Western Blot, Kinetics ELISA, and peptide ELISA), feline rhinotracheitis virus (FVR, serum neutralization [SN]), feline calicivirus (FCV, SN), canine distemper virus (CDV, SN), and feline panleukopenia virus (FPL, SN) at the New York State Diagnostic Laboratory (Cornell University, Ithaca, NY, [NYSDL]). EDTA whole blood from panthers was tested for FeLV, FIV, and feline heartworm in the field using a rapid immunoassay (SNAP Combo, IDEXX Laboratories, Westbrook, ME). Panthers were also tested for FeLV at necropsy using thoracic, venous, or heart blood. Necropsied panthers were tested for rabies by direct fluorescent antibody test at the Jacksonville Central Laboratory (Jacksonville, FL) or Kansas State University (Manhattan, KS). Viral isolation and real-time and conventional PCR for CDV, pseudorabies virus (PRV), Flaviviruses, and Alphaviruses was performed at SCWDS on brain, heart, and other tissues collected from panthers dying of unknown causes. Quantitative PCR for PRV was performed at the Diagnostic Center for Animal and Population Health (DCAPH, Lansing, MI).

Toxicology (organic toxin screens by gas chromatography / mass spectrometry and anticoagulant rodenticide screens, lead) was performed at DCPAH and at the Florida Department of Environmental Protection (organochlorines, mercury, and polychlorinated biphenyls, Tallahassee, FL).

## **Results and Discussion**

### **2017-2018 Panther Capture Season**

#### ***Radiocollared Panthers***

Telemetry data were collected on 17 radiocollared Florida panthers in southern Florida during the reporting period by FWC and BCNP staff (Figure 1). FWC staff radiocollared 3 panthers with ATS brand VHF collars and 1 panther with Lotek GPS Iridium radiocollar due to management actions. Two panthers, FP224 and FP250, were radiocollared and released from captivity back into the wild after medical treatment and recovery for injuries incurred during vehicle collisions. Panthers FP251 (K474) and FP252 (K476), kittens of FP224, were radiocollared and released from captivity with their dam. These panthers are discussed in more detail in the following sections. Minimum convex polygon home ranges for female and male panthers monitored by FWC during Fiscal Year (FY) 2017-2018 are depicted in Figures 2 and 3, respectively. A complete historical compilation of data associated with the 252 panthers captured since 1981 can be found in Appendix I.

#### ***Capture Results***

No formal capture season was planned the 2017-2018 FY. Three panthers were opportunistically captured: radiocollared female (FP224) with 2 dependent kittens (K474 [FP251] and K476 [FP252]) in late December/early January (Table 1). A vehicle struck FP224 on 29 December 2017, resulting in a fractured left rear leg. This panther was captured via free-darting, received medical attention at the Animal Specialty Hospital of Naples (ASH), and was then transported to White Oak for convalescence. Cage traps were set 4 days later when photographic evidence revealed the presence of two of FP224s 7-month-old kittens near the collision site. These two kittens, eventually identified as FP251 and FP252, were captured using cage traps on 2 January 2018.

### **Biomedical Summaries of Florida Panthers Handled in 2017-2018**

No significant capture-related injuries occurred during the handling of three panthers in the current FY. One of 33 (3%) necropsied panthers whose hearts were in suitable condition for examination had ASD. Defect diameter was 18.0 mm. Additional significant biomedical findings in necropsied panthers included encephalitis (1♂), leukoencephalomalacia (1♀), and dermatophytosis (1♂). No panthers were found to be cryptorchid, and no other congenital defects were observed. No live-captured or necropsied panthers tested positive for FeLV this fiscal year.

One adult female panther (FP224) was captured on 29 December 2017 following injury from vehicular collision. The panther was initially treated at a referral hospital and then transported to WO for continued medical care and rehabilitation. Two dependent male panther kittens (FP251[K474], FP252[K476]) of FP224 were subsequently captured on 2 January 2018 following the injury of their dam. The panthers were transported to WO and eventually reunited with FP224 prior to their release together in the PSSF on 10 April 2018.

### **Captive Florida Panthers**

Florida panthers permanently in captivity this FY included: K180 and K181, 12.5 year-old female siblings at the Jacksonville Zoo (Jacksonville, FL); K255 (“Lucy”), a 10 year-old female at the ZT (Tampa, FL); K434, a 3 year old female kitten (“Mahala”) of FP219, at the Zoo Miami (Miami, FL); UCFP205 (“Yuma”), a 3.5 year old male at Ellie Schiller Homosassa Springs Wildlife State Park (Homosassa, FL); UCFP221 (“Uno”), a 5 year old male and K480 (“Athena”), a 1 year old female at NPZ (Naples, FL); UCFP253 (“Sassy”), a 2 year old female at the Palm Beach Zoo (West Palm Beach, FL); UCFP261 (“Sakata”), a 22 month old male at Ellie Schiller Homosassa Springs Wildlife State Park; UCFP297 (“Walter”), a 3 year old male at ZT (Tampa, FL).

### **Reproduction**

FWC and NPS staff handled 10 kittens (5 males and 5 females) at four dens of four females from 1 July 2017 to 30 June 2018 (Table 2). Mean litter size for these dens was 2.50 ( $n = 4$ ,  $SD = 0.29$ , range

= 2-3). The total number of dens located during the reporting period may have been negatively impacted by reduced monitoring efforts of NPS due to logistical and budget constraints and no formal FWC capture season, which resulted in a lower total number of monitored females. A historical compilation of data collected by FWC and NPS on Florida panther kittens handled at dens (1992-2018) and known dens of radiocollared females (1985-2018) can be found in Appendix II and III, respectively.

## Florida Panther Mortality

Deaths of 33 free-ranging panthers were documented during the reporting period including: six (5♂, 1♀) radiocollared and 27 (16♂, 11♀) uncollared panthers (Table 3). Causes of mortality included 28 by vehicular trauma (16♂, 12♀), two from intraspecific aggression (2♂), three from unknown causes (3♂). A historical compilation of all recorded panther mortalities and injuries can be found in Appendix IV.

## Management Activities

The increase in the panther population since 1995 and an increasing human population in South Florida has contributed to a rise in human-panther interactions. Depending upon the individual's perspective and the nature of the event, these interactions can be perceived as either positive or negative. Some people are pleased that we have a healthier, more resilient panther population because it means the panther's future is more secure than it was a few decades ago. Other people are concerned about potential panther encounters that may be a risk to public safety or property. Some ranchers and hobby livestock owners have lost livestock due to panther predation.

The public's perception of panthers and support for their conservation varies widely and can be greatly influenced by having experienced some type of interaction with a panther. Education and outreach remains a critical recovery action because conservation efforts will not be achieved without public support. Furthermore, private landowners will play a critical role in conserving panther habitat, which is essential for advancing panther recovery throughout its former range.

### **Florida Panther Response Plan Activity**

Human-panther interactions and depredations of domestic animals are handled following protocols established in the Interagency Florida Panther Response Plan (USFWS 2008b). Confirmed interactions and depredations are expected to continue as human use and development increase near areas occupied by a stable or growing population of panthers. The efforts of FWC and our partners may be able to assist with mitigating some of these interactions. Confirmed human-panther interactions included one incident during the reporting period (Figure 4). An incident is classified as an unexpected direct meeting between a human and a panther where the panther displays *potentially threatening* behavior (USFWS 2008b). In addition to human-panther interactions, 47 depredation events involving domestic animals were confirmed (Figure 4). In some cases, multiple animals were killed during a single event. A depredation does not involve any direct contact with a human and is classified as an event where domestic livestock or pets are preyed upon by a panther (USFWS 2008b).

An incident poses a moderate to high risk to human safety. The one incident entailed a panther that was proximal to a goat it recently killed. Two people approached the goat on the ground, not knowing it was deceased, when the panther was startled out from its hiding place and ran off. As the panther ran out from underneath a Brazilian pepper bush, one of the people threw a bucket of feed at it, further hastening its retreat.

Depredations of domestic animals pose a low risk to human safety because there is typically no direct interaction between a human and a panther. However, panthers preying on hobby farm livestock (primarily goats), pets, and cow calves is an issue that was continually addressed. The majority (39) of depredation events occurred in Collier County, seven occurred in Hendry County, and one occurred in Lee County. Animals killed or injured by panthers included goats (31), calves (14), domestic cats (8), sheep (5), miniature horses (5), donkeys (3), turkeys (3), geese (3), pigs (2), emu (1), and domestic dog (1). Most of these depredations occurred in the Golden Gate Estates east of Naples (Collier County). Golden Gate Estates encompasses approximately 150 square miles and borders the FPNWR, PSSF, and CREW, all public lands occupied by panthers. Lot sizes range typically from 1-5 acres and most lots still

contain natural vegetation. Keeping livestock is permitted under local zoning codes. During depredation investigations, FWC staff provide technical assistance and advice to affected residents on ways they can reduce the risk to pets and hobby livestock. We recommend that hobby animals and pets be secured in barns or pens with roofs or kept indoors, especially at night when predators are typically more active. FWC has produced “[A Guide to Living with Florida Panthers](#)” brochure outlining these simple steps.

### ***Land use, habitat impacts, environmental commenting and recovery tasks***

Land use changes and development in or adjacent to panther habitat can have long term impacts on Florida panther recovery. FWC staff works cooperatively with state and federal partners to evaluate proposed developments, major road projects, and management plans for local, state, and federal public lands. These evaluations may include measures to avoid, minimize, or mitigate the effects of these projects on panthers.

Panther staff from both FWRI and ISM devoted a significant amount of staff time assisting the US Fish and Wildlife Service with a Florida panther Species Status Assessment (SSA). An SSA is essentially a biological risk assessment to aid decision makers who must use the best available scientific information to make policy-guided decisions. The SSA provides decision makers with a scientifically rigorous characterization of species status that focuses on the likelihood that the species will sustain populations within its ecological settings along with key uncertainties in that characterization. The SSA does not result in a decision directly, but it provides the best available scientific information for comparison to policy standards to guide ESA decisions. This panther SSA is a living document and will be updated as new panther information emerges over time.

### **Current Research**

Research continues to be an important part of Florida panther conservation. Research proposals are vetted with FWC’s partners to ensure that the research and monitoring efforts are well-designed, coordinated, and meet priority needs. FWC continues its protocol of disease monitoring and vaccination of all panthers handled as well as monitoring the genetic health of the population via DNA analyses

contracted to the National Genomics Center for Wildlife and Fish Conservation (U.S. Forest Service, Rocky Mountain Research Station, Missoula, MT). During FY2017-2018, FWC obtained genotype data at 16 microsatellite loci from 94 contemporary samples. The FWC is currently involved in several collaborative research projects focusing on issues related to Florida panther conservation and management. Among these are: a population viability analysis that includes individual-based models; assessing levels of genetic variation amongst population of pumas using whole genome sequencing; determining mortality factors; assessing the efficacy of panther rehabilitation; analyzing the long-term benefits accrued to panthers via genetic restoration; evaluating the diet of panthers from scat and stomach contents; using camera trap data to assess differences in panther density between public and private lands; assessing the incident of infectious disease (e.g. dermatophytosis and Leptospirosis) in free-ranging panthers; assessing novel diagnostic tests to evaluate for underlying disease. Research projects involving FWC are also playing an integral role on several sub-teams of the USFWS Panther Recovery Implementation Team in hopes of improving science involved with monitoring progress towards recovery.

FWC assisted with the completion of several collaborative research projects during FY 2017-18 including: movement patterns and rates of panthers determined via GPS collars; surgery on long bone fractures in panthers. Agency staff served as lead or co-authors on two peer-reviewed publications and two published abstracts that were presented at professional conferences or invited seminars (see page 19).

## Literature Cited

- Alvarez, K. 1993. *Twilight of the panther*. Myakka River Publishing, Sarasota, Florida, USA.
- [Crnokrak, P., and D. A. Roff. 1999. Inbreeding depression in the wild. \*Heredity\* 83:260-270.](#)
- [Federal Register. 1967. Native fish and wildlife: endangered species. Federal Register-Department of the Interior-Fish and Wildlife Service, Washington D.C. USA.](#)
- Frankham, R., J. D. Ballou, and D. A. Briscoe. 2002. *Introduction to conservation genetics*. Cambridge University Press, Cambridge, United Kingdom.
- [Hostetler, J. A., D. P. Onorato, J. D. Nichols, W. E. Johnson, M. E. Roelke, S. J. O'Brien, D. Jansen, and M. K. Oli. 2010. Genetic introgression and the survival of Florida panther kittens. \*Biological Conservation\* 143:2789-2796.](#)
- [Jacobs, C. E., and M. B. Main. 2015. A Conservation-Based Approach to Compensation for Livestock Depredation: The Florida Panther Case Study. \*PLoS ONE\* 10:e0139203.](#)
- [Johnson, W. E., D. P. Onorato, M. E. Roelke, E. D. Land, M. Cunningham, R. C. Belden, R. McBride, D. Jansen, M. Lotz, D. Shindle, J. Howard, D. E. Wildt, L. M. Penfold, J. A. Hostetler, M. K. Oli, and S. J. O'Brien. 2010. Genetic Restoration of the Florida Panther. \*Science\* 329:1641-1645.](#)
- Laikre, L., R. Andrén, H. O. Larsson, and N. Ryman. 1996. Inbreeding depression in brown bears. *Biological Conservation* 76:69-72.
- Land, E. D., D. R. Garman, and G. A. Holt. 1998. Monitoring female Florida panthers via cellular telephone. *Wildlife Society Bulletin* 26:29-31.
- McCown, J. W., D. S. Maehr, and J. Roboski. 1990. A portable cushion as a wildlife capture aid. *Wildlife Society Bulletin* 18:34-36.
- McBride R. T., R. T. McBride, R. M. McBride, and C. E. McBride. 2008. Counting pumas by categorizing physical evidence. *Southeastern Naturalist* 7:381-400.
- [Onorato, D., C. Belden, M. Cunningham, D. Land, R. McBride, and M. Roelke. 2010. Long-term research on the Florida panther \(\*Puma concolor coryi\*\): historical findings and future obstacles to population persistence. Pages pp. 453-469 in D. Macdonald and A. Loveridge, editors. \*Biology and conservation of wild felids\*. Oxford University Press, Oxford, UK.](#)
- Roelke, M. E., J. S. Martenson, and S. J. O'Brien. 1993. The consequences of demographic reduction and genetic depletion in the endangered Florida panther. *Current Biology* 3:340-349.
- [Seal, U. S., ed. 1994. A plan for genetic restoration and management of the Florida panther \(\*Felis concolor coryi\*\). Report to the Florida Game and Freshwater Fish Commission. Conservation Breeding Specialist Group, Apple Valley, Minnesota, USA.](#)
- [USFWS. 2008a. Florida panther recovery plan \(\*Puma concolor coryi\*\), third revision. United States Fish and Wildlife Service, Atlanta, Georgia, USA.](#)
- [USFWS. 2008b. Environmental assessment for the "Interagency Florida Panther Response Plan". United States Fish and Wildlife Service, Naples, Florida, USA.](#)
- Young, S. P., and E. A. Goldman. 1946. The puma: mysterious American cat. Part I. History, life habits, economic status, and control. The American Wildlife Institute, Washington D.C., USA.

## FWC Panther Staff Publications and Presentations 2017-2018

- Au, J.Y., D.D. Lewis, S.B. Citino, **M.W. Cunningham**, A.R. Cross, J.P. Farese, L.S. Pablo. 2018. Surgical management of appendicular long-bone fractures in free-ranging Florida panthers (*Puma concolor coryi*): six cases (2000-2014). *Journal of Zoo and Wildlife Medicine* 49:162-171.
- Criffield, M.**, M. van de Kerk, E. Leone, **M. W. Cunningham**, **M. Lotz**, M. K. Oli, and **D. P. Onorato**. 2018. Assessing impacts of intrinsic and extrinsic factors on Florida panther movements. *Journal of Mammalogy* 99:702-712.
- Onorato, D. P.** 26 March 2018. Long-term implications of genetic restoration of the Florida panther. *Invited seminar, St. Leo University, St. Leo, FL, USA.*
- Prat-Guitart, M., **D.P. Onorato**, J.E. Hines, and M. K. Oli. 12 April 2018. Spatiotemporal patterns of human-panther conflicts in a human-dominated landscape. *Presented at the Florida Chapter of The Wildlife Society - Spring Meeting, Crystal River, FL, USA.*

\* Authors in bold represent current FWC panther staff.

Table 1. Florida panthers captured by the Florida Fish and Wildlife Conservation Commission from 1 July 2017 to 30 June 2018.

<b>Panther ID<sup>a</sup></b>	<b>Sex</b>	<b>Capture Date</b>	<b>Capture Location<sup>a</sup></b>	<b>Age (yrs)<sup>b</sup></b>	<b>Wt. (lbs)</b>	<b>Collar type - brand, model</b>	<b>Comments<sup>c</sup></b>
FP224	F	12/29/2017	Naples	5.5	94	ATS VHF	Hit by vehicle, injured. One fracture surgically repaired. Rehabilitated at White Oak. Released 10 Apr 2018 in PSSF. Yellow collar.
FP251	M	1/2/2018	Naples	7 mo.	30	ATS VHF	Dependent kitten of FP224. Rehabilitated at White Oak. Released 10 Apr 2018 in PSSF. Brown collar.
FP252	M	1/2/2018	Naples	7 mo.	30	ATS VHF	Dependent kitten of FP224. Rehabilitated at White Oak. Released 10 Apr 2018 in PSSF. Green collar.

<sup>a</sup> FP224, FP251 and FP252 were captured in a woodlot near the intersection of Collier Blvd. and City Gate Blvd. in Naples.

<sup>b</sup> mo. = months

<sup>c</sup> PSSF = Picayune Strand State Forest

Table 2. Neonate kittens handled at Florida panther dens by the Florida Fish and Wildlife Conservation Commission and the National Park Service from 1 July 2017 to 30 June 2018.

<b>FP Dam</b>	<b>Kitten ID</b>	<b>Sex</b>	<b>Den location<sup>a</sup></b>	<b>Date handled</b>	<b>Estimated age in days</b>	<b>Actual weight (grams)</b>
FP239	K481	F	SBCNP	8/19/2017	28	1729
FP239	K482	M	SBCNP	8/19/2017	28	1758
FP247	K483	F	Immokalee Ranch	10/14/2017	23	1600
FP247	K484	M	Immokalee Ranch	10/14/2017	23	1300
FP220	K485	F	SBCNP	3/19/2018	29	2353
FP220	K486	M	SBCNP	3/19/2018	29	2268
FP220	K487	F	SBCNP	3/19/2018	29	2438
FP246	K488	F	Immokalee Ranch	6/16/2018	26	2000
FP246	K489	M	Immokalee Ranch	6/16/2018	26	1900
FP246	K490	M	Immokalee Ranch	6/16/2018	26	2050

<sup>a</sup>SBCNP = Big Cypress National Preserve South of Interstate 75.

Table 3. Verified Florida panther mortalities and injuries recorded between 1 July 2017 and 30 June 2018. Data collected by FWC and BCNP staff. Causes of death include hit-by-car (HBC), intraspecific aggression (ISA), and unknown (U). The presence of atrial septal defects (ASD) and other biomedical and morphometric data are also noted. Sex is male (M), female (F), or unknown (U) and age is in years, months (mo.), or weeks (wks.). Some characteristics were not determined (nd) or not applicable (NA) to specific panthers.

Panther ID	Sex	Date deceased	Cause	Location	Age <sup>a</sup> (yr)	Weight (lbs.)	Kinked tail	Cowlick	ASD	Testes	Rabies FA <sup>b</sup>	Significant necropsy results
UCFP311	M	7/3/2017	HBC	Immokalee Rd, Collier Co.	5	117	N	Y	N	2	N	Encephalitis, injuries consistent with vehicular trauma.
UCFP312	F	7/18/2017	HBC	CR951, Collier Co.	2.5	71	N	N	N	NA	N	Interstitial nephritis, injuries consistent with vehicular trauma.
FP248	F	8/2/2017	HBC	Corkscrew Rd, Collier Co.	3	80	N	Y	N	NA	nd	Cellulitis associated with non-healing surgical wound, Pythium (anal sac), leukoencephalomalacia.
FP234	M	8/13/2017	HBC	I75, Collier Co.	12	85.2	N	Y	nd	NA		Injuries consistent with vehicular trauma.
UCFP313	M	8/14/2017	ISA	CREW, Lee Co.	2	46	N	Y	N	nd	N	Injuries consistent with ISA.
UCFP314	M	8/18/2017	HBC	Ft. Denaud Rd, Hendry Co.	1.5	81	N	N	N	2	N	Injuries consistent with vehicular trauma.
UCFP315	F	8/24/2017	HBC	CR846, Collier Co.	1	50	N	Nd	nd	nd	nd	Carcass was lost due to freezer failure during Hurricane Irma
FP244	M	8/28/2017	U	DIWMA, Hendry Co.	7	118	Y	N	nd	nd	U	Under investigation
UCFP316	M	9/16/2017	HBC	SR98, Highlands Co.	3.5	134	N	N	N	2	nd	Injuries consistent with vehicular trauma.
UCFP317	F	10/15/2017	HBC	CR835, Hendry Co.	1.5	57.8	N	N	N	NA	nd	Injuries consistent with vehicular trauma

<b>Panther ID</b>	<b>Sex</b>	<b>Date deceased</b>	<b>Cause</b>	<b>Location</b>	<b>Age<sup>a</sup> (yr)</b>	<b>Weight (lbs.)</b>	<b>Kinked tail</b>	<b>Cowlick</b>	<b>ASD</b>	<b>Testes</b>	<b>Rabies FA<sup>b</sup></b>	<b>Significant necropsy results</b>
K411	M	11/7/2017	HBC	Immokalee Rd, Collier Co.	3.7 <sup>e</sup>	129.6	N	N	N	2	N	Injuries consistent with vehicular trauma.
UCFP318 (K364)	M	11/13/2017	HBC	CR833, Hendry Co.	6 <sup>e</sup>	134.6	N	N	N	2	nd	Injuries consistent with vehicular trauma.
FP249	M	11/20/2017	HBC	CR833, Hendry Co.	2	90	N	N	N	2	N	Injuries consistent with vehicular trauma.
UCFP319	M	11/23/2017	HBC	Daniels Pkwy, Lee Co.	2	85.6	Y	N	N	2	N	Injuries consistent with vehicular trauma
UCFP320	M	12/9/2017	HBC	Desoto Blvd, Collier Co.	3mo.	11.6	N	N	N	2	N	Injuries consistent with vehicular trauma.
UCFP321	M	12/20/2017	ISA	SR78, Glades County	2-3	nd	N	N	N	nd	nd	Injuries consistent with ISA.
PC1144	F	1/7/2018	HBC	175, Collier Co.	4-5 mo.	17	N	N	N	NA	U	Injuries consistent with vehicular trauma
UCFP322	F	1/8/2018	HBC	Josie Billie Hwy, Hendry Co.	3-4	94	N	N	N	NA	U	Injuries consistent with vehicular trauma
UCFP323	M	1/13/2018	HBC	Immokalee Rd, Collier Co.	1.5	102	N	N	Y	2	N	Atrial septal defect, injuries consistent with vehicular trauma.
UCFP324	M	1/30/2018	HBC	SR80, Hendry Co.	2.5	60.2	nd	nd	nd	nd	2	Injuries consistent with severe vehicular trauma.
UCFP325	F	2/2/2018	HBC	CR835, Hendry Co.	3	70.8	Y	N	nd	NA	nd	Necropsy by USFWS
UCFP326	F	2/3/2018	HBC	CR835, Hendry Co.	5mo.	28.2	N	Y	N	NA	nd	Injuries consistent with vehicular trauma.
UCFP327	M	2/5/2018	HBC	Immokalee Rd, Collier Co.	4mo.	20	N	N	nd	2	nd	Injuries consistent with vehicular trauma.

Panther ID	Sex	Date deceased	Cause	Location	Age <sup>a</sup> (yr)	Weight (lbs.)	Kinked tail	Cowlick	ASD	Testes	Rabies FA <sup>b</sup>	Significant necropsy results
UCFP328	F	2/19/2018	HBC	Immokalee Rd, Collier Co.	5-6	62.4	N	N	nd	NA	nd	Injuries consistent with vehicular trauma.
UCFP329	M	2/22/2018	HBC	US27, Hendry Co.	2	99.6	N	N	N	2	nd	Injuries consistent with vehicular trauma.
UCFP330	F	2/28/2018	HBC	SR 29, Collier Co.	5-6	75.6	N	N	N	NA	N	Injuries consistent with vehicular trauma.
UCFP331	F	2/28/2018	HBC	CR846, Collier Co.	3	73	Y	N	N	NA	N	Injuries consistent with vehicular trauma.
FP245	M	3/14/2018	U	Immokalee Ranch, Hendry Co.	7	70	N	N	**	2	nd	Severely decomposed and scavenged
FP236	M	3/21/2018	U	Rock Rd, Collier Co.	9-10	82	N	N	N	2	N	Generalized dermatophytosis and pyoderma, atrophy of body fat.
UCFP332	F	4/3/2018	Vehicle	SR 82, Collier Co.	3	77.4	N	N	N	NA	nd	Injuries consistent with vehicular trauma.
UCFP333	M	5/18/2018	Vehicle	I-75, Collier Co.	2.5	83.8	Y	N	N	2	nd	Injuries consistent with HBC although there were also injuries likely due to recent ISA.
UCFP334	M	6/20/2018	Vehicle	CR833, Hendry Co.	9mo.	50.6	N	N	nd	2	nd	Injuries consistent with vehicular trauma.
UCFP335	M	6/25/2018	Vehicle	SR29, Collier Co.	2	89.8	N	N	N	2	N	Injuries consistent with vehicular trauma.

<sup>a</sup> Ages of panthers followed by \* were of known age due to initial handling and marking at the natal den.

<sup>b</sup> Rabies FA= Direct Fluorescent antibody test; u = tested but tissue condition was unsatisfactory for definitive diagnosis, nt = not tested, N = negative.

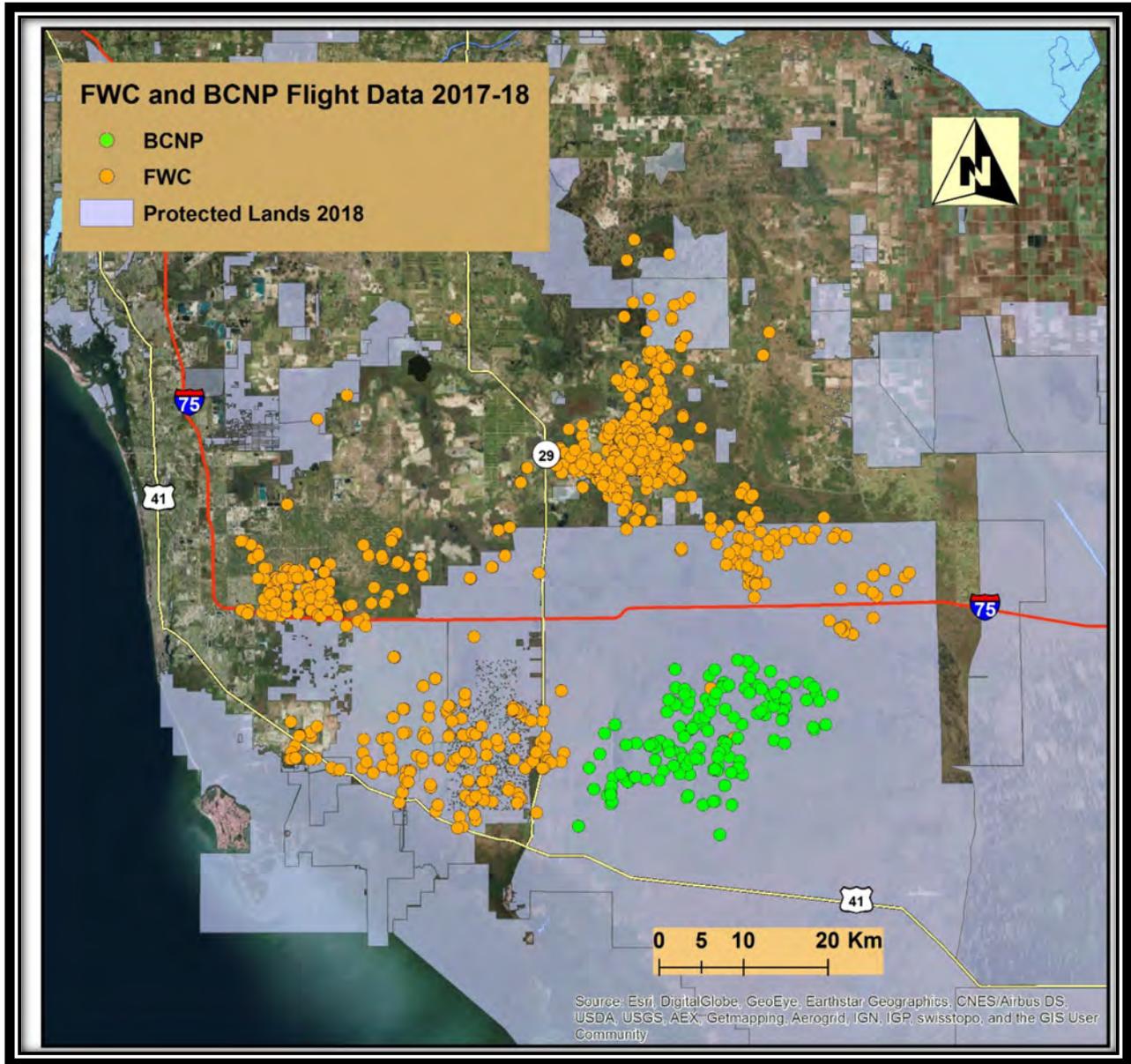


Figure 1. Locations of all radiocollared Florida panthers in southern Florida from 1 July 2017 to 30 June 2018. Data collected via aerial telemetry by FWC and NPS.



Figure 2. Depiction of the 100% minimum convex polygon home ranges for adult female Florida panthers monitored by FWC from 1 July 2017 to 30 June 2018. Data collected via aerial telemetry by FWC.

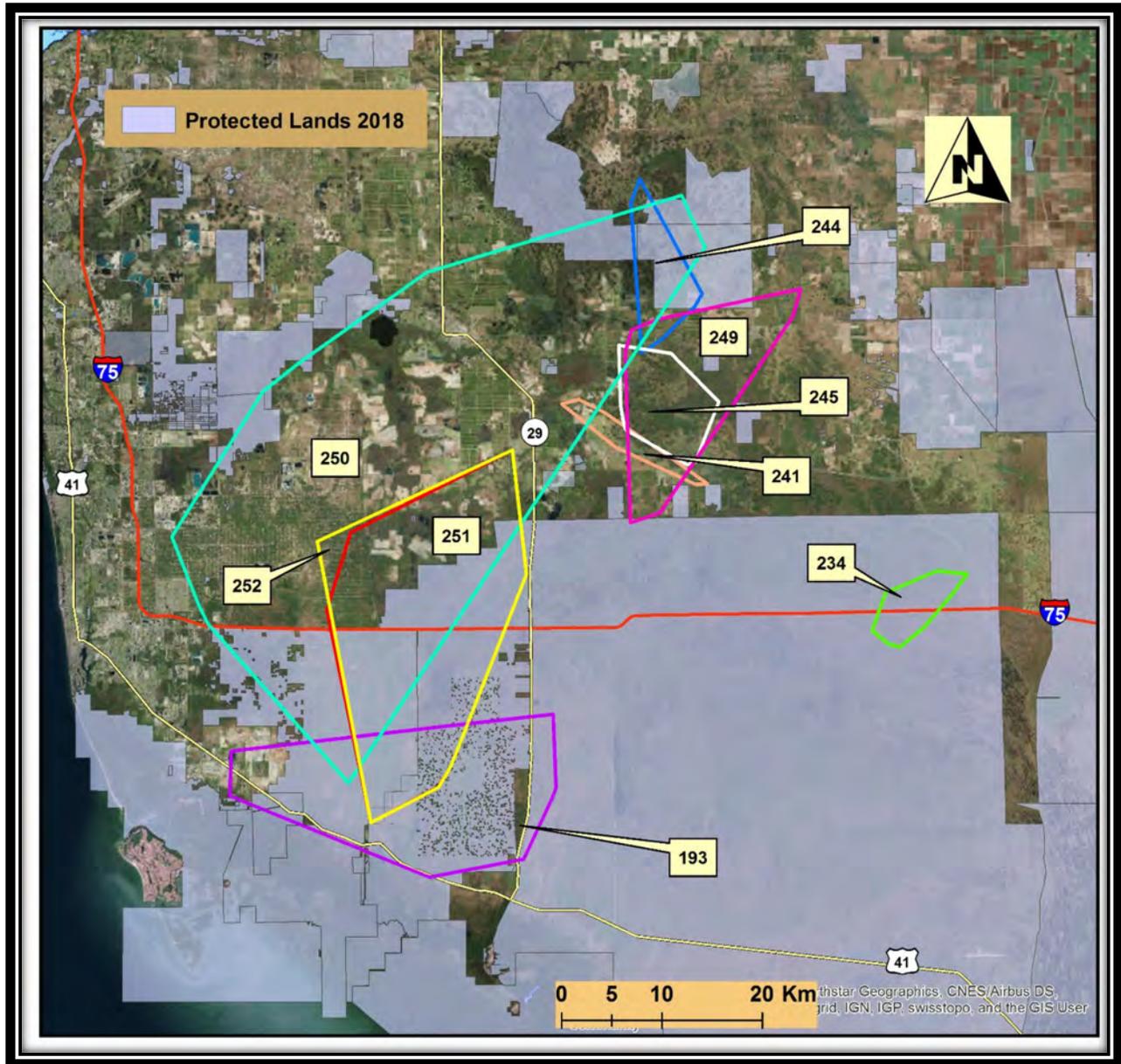


Figure 3. Depiction of the 100% minimum convex polygon home ranges for adult and subadult male Florida panthers monitored by FWC from 1 July 2017 to 30 June 2018.

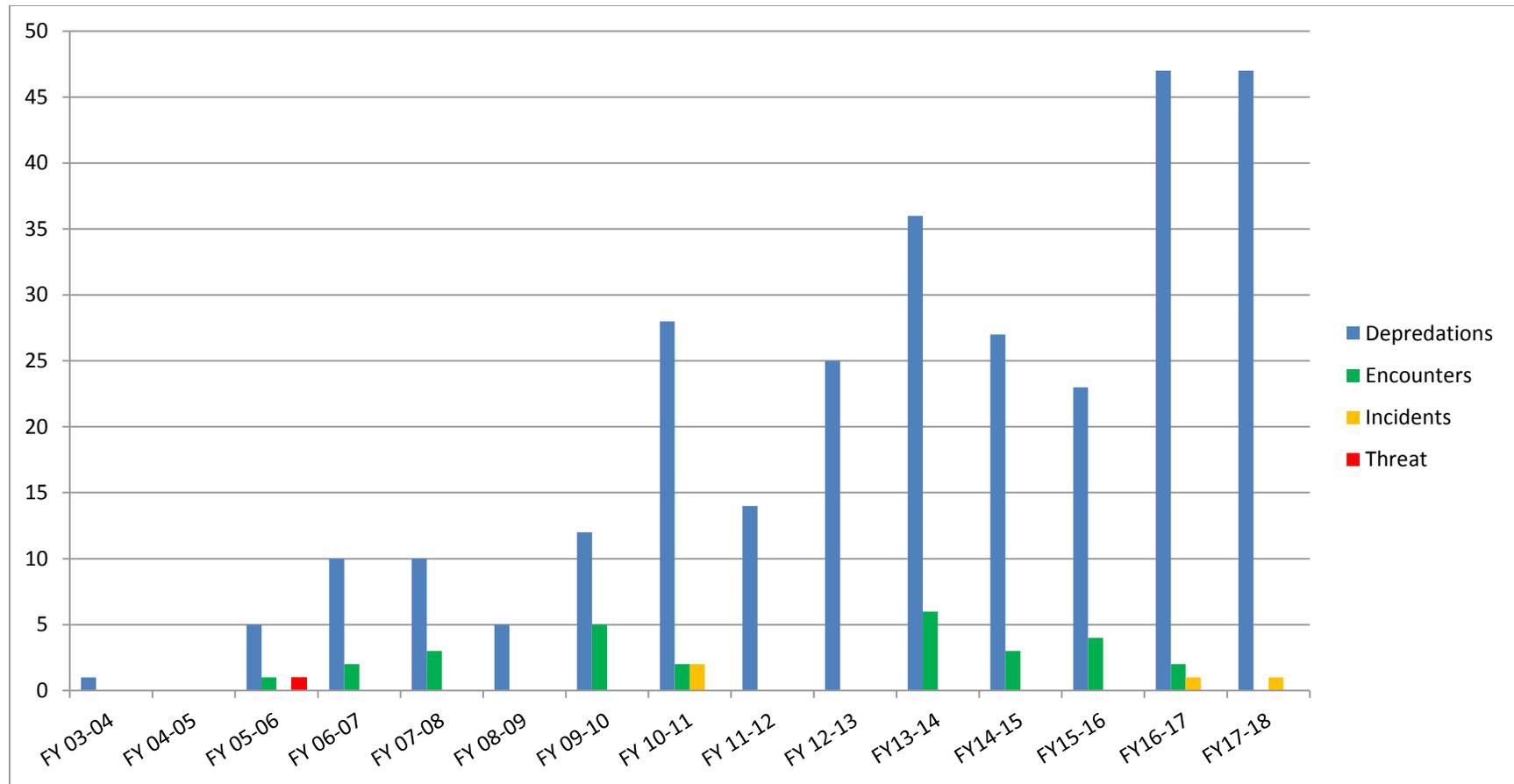


Figure 4. Confirmed human-panther interactions from FY 2003-2004 through 2017-2018. Note: Data in FY 2011-2012 and FY 2012-2013 includes five and six depredations of domestic animals, respectively, that involved radiotagged calves monitored as part of the UF-IFAS calf mortality study ([Jacobs and Main 2015](#)). Definitions of conflict categories can be found in Appendix C of the USFWS Environmental Assessment for the “[Interagency Florida Panther Response Plan](#)”.

Appendix I. List of radiocollared Florida panthers and Texas pumas in southern Florida from 10 February 1981 to 30 June 2017. Data includes panthers captured by FWC and BCNP staff.

Panther ID <sup>a</sup>	Sex	Capture date	Estimated age at first capture	Birth date	Dam	Purported sire	Use area <sup>b</sup>	Death date	Cause of death <sup>c</sup>
FP01	M	10 Feb 1981	10	-	-	-	FSPSP	14 Dec 1983	Vehicle (SR 84 mm 18)
FP02	M	20 Feb 1981	10	-	-	-	FSPSP	28 Nov 1984	Intraspecific aggression
FP03	F	23 Jan 1982	9	-	-	-	FSPSP	17 Jan 1983	Capture
FP04	M	27 Jan 1982	7-8	-	-	-	FSPSP	18 Apr 1985	Vehicle (SR 84 mm17)
FP05	F	23 Feb 1982	7-8	-	-	-	FPNWR	18 Nov 1983	Unknown
FP06	M	27 Feb 1982	6-8	-	-	-	SBCNP	16 Apr 1982	Unknown
FP07	M	02 Mar 1982	6-7	-	-	-	SBCNP, FSPSP	26 Oct 1985	Vehicle (SR 29 C. prison)
FP08	F	25 Mar 1984	9-10	-	-	-	FSPSP	20 Aug 1988	Liver failure, old age
FP09	F	26 Jan 1985	3-4	-	-	-	FSPSP	♦	Collar failed 8/8/1997
FP10	M	15 Jan 1986	5 mo.	Aug 1985	FP09	-	GG Estates, FSPSP	27 Jan 1987	Intraspecific aggression
FP11	F	21 Jan 1986	4-5	-	-	-	NBCNP, Private (Price's)	25 Feb 2001	Intraspecific aggression
FP12	M	28 Jan 1986	5	-	-	-	NBCNP, FPNWR, FSPSP	8 Nov 1994	Intraspecific aggression
FP13	M	27 Feb 1986	4-5	-	-	-	NBCNP, Private (Alico)	14 Dec 1987	Vehicle (SR 29 Sunniland)
FP14	F	07 Dec 1986	5-6	-	-	-	EVER	21 Jun 1991	Unknown
FP15	F	13 Dec 1986	5-6	-	-	-	EVER	10 Jun 1988	Intraspecific aggression
FP16	M	12 Jan 1987	12-14 mo.	-	FP14	-	EVER, SBCNP	3 Jan 2000	Unknown
FP17	M	20 Jan 1987	6-7	-	-	-	SBCNP, NBCNP	20 Jul 1990	Unknown
FP18	F	22 Jan 1987	7-8	-	-	-	Private (Gum Swamp, Scofields), BCSIR	1 Oct 1990	Intraspecific aggression
FP19	F	09 Feb 1987	9 mo.	May 1986	FP11	FP12	NBCNP, Private (Prices), FPNWR	2 Dec 1997	Aortic aneurysm
FP20	M	10 Mar 1987	3-4	-	-	-	Private (Alico), NBCNP	24 Aug 1988	Heart defect

<b>Panther ID<sup>a</sup></b>	<b>Sex</b>	<b>Capture date</b>	<b>Estimated age at first capture</b>	<b>Birth date</b>	<b>Dam</b>	<b>Purported sire</b>	<b>Use area<sup>b</sup></b>	<b>Death date</b>	<b>Cause of death<sup>c</sup></b>
FP21	F	16 Mar 1987	12-14 mo.	-	FP14	-	EVER, White Oak	26 Dec 1997	Vehicle/Captivity/Old age
FP22	F	18 Mar 1987	5-6 mo.	-	FP15	-	EVER	20 Jul 1991	Infection
FP23	F	18 Mar 1987	5-6 mo.	-	FP15	-	EVER, SBCNP	25-26 Nov 2000	Unknown
FP24	M	30 Jan 1988	3-4	-	-	-	Highlands Co.	22 Aug 1988	Unknown
FP25	M	16 Feb 1988	4-5	-	-	-	FPNWR	26 Aug 1988	Intraspecific aggression
FP26	M	01 Mar 1988	5-6	-	-	-	BCSIR, NBCNP	8 Jul 1994	Intraspecific aggression
FP27	F	11 Apr 1988	2-3	-	-	-	EVER	23 Jul 1989	Unknown
FP28	M	29 Nov 1988	1.5	-	-	-	Private (Ft. Myers, Lake Hicpochee, Gum Swamp), NBCNP	25 Sep 1992	Intraspecific aggression
FP29	M	03 Jan 1989	6.5 mo.	May 1988	FP11	FP20	NBCNP, Private (Gum Swamp)	27 May 1992	Pseudorabies
FP30	M	06 Jan 1989	9 mo.	Mar 1988	FP19	FP13	NBCNP, Private (Prices), FPNWR, FSPSP	29 Jan 1990	Intraspecific aggression
FP31	F	12 Jan 1989	7-9	-	-	-	FPNWR	3 Mar 1994	Vehicle (SR 29 Sunniland)
FP32	F	03 Feb 1989	2-2.5	-	-	-	FPNWR	12 Sep 2002	Unknown
FP33	M	05 Mar 1989	1.5-2	-	-	-	SBCNP (Loop Rd.), Private (Gum Swamp)	23 Nov 1989	Rabies
FP34	M	08 Jan 1990	10 mo.	Mar 1989	FP31	FP12	FPNWR, BCSIR, Private (Gum Swamp)	15 Nov 1993	Esophageal puncture
FP35	M	15 Jan 1990	10 mo.	Mar 1989	FP31	FP12	Private (Regency Farms)	24 Jan 1990	Bacterial infection from capture
FP36	F	27 Jan 1990	4-5	-	-	-	NBCNP	10 Oct 1998	Unknown natural causes
FP37	M	30 Jan 1990	3-4	-	-	-	FSPSP, FPNWR, NBCNP	26 Nov 1990	Vehicle (SR 29 Miles City)
FP38	F	08 Feb 1990	4.5	-	-	-	SBCNP, EWMA	4 Aug 1994	Pleuritis in chest
FP39	M	19 Feb 1990	3-4	-	-	-	EVER	18 May 1990	Pyothorax
FP40	F	26 Feb 1990	1.5-2	-	-	-	NBCNP	1 Feb 1998	Intraspecific aggression
FP41	F	28 Feb 1990	1.5-2	-	-	-	NBCNP, BCSIR	22 Sep 1990	Intraspecific aggression
FP42	M	06 Mar 1990	11 mo.	May 1989	FP14	FP16	EVER, SBCNP	22 Jun 1995	Unknown
FP43	M	01 May 1990	9.5 mo.	Jul 1989	FP19	FP12	FPNWR, NBCNP	31 Oct 1991	Intraspecific aggression

<b>Panther ID<sup>a</sup></b>	<b>Sex</b>	<b>Capture date</b>	<b>Estimated age at first capture</b>	<b>Birth date</b>	<b>Dam</b>	<b>Purported sire</b>	<b>Use area<sup>b</sup></b>	<b>Death date</b>	<b>Cause of death<sup>c</sup></b>
FP44	M	30 Apr 1991	6 mo.	Nov 1990	FP40	FP26	NBCNP, Naples, EVER, SBCNP	6 Jul 1993	Intraspecific aggression
FP45	M	08 May 1991	6 mo.	Nov 1990	FP19	FP12	FPNWR, NBCNP, BCSIR	2 Aug 1998	Intraspecific aggression
FP46	M	30 Jan 1992	2-2.5	-	-	-	NBCNP, Private (Gum Swamp), OSSF	3 Feb 1999	Intraspecific aggression
FP47	M	21 Feb 1992	6 mo.	Jul 1991	FP11	FP12	NBCNP, Belle Meade, FSPSP	19 Feb 1993	Intraspecific aggression
FP48	F	24 Feb 1992	4 mo.	Oct 1991	FP31	FP12	NBCNP	23 Oct 2006	Unknown
FP49	F	25 Feb 1992	2	-	-	-	NBCNP	3 Jan 2002	Intraspecific aggression
FP50	M	04 Mar 1992	8 mo.	May 1991	FP36	FP26	NBCNP, Private (Alico, Devils Garden)	6 Dec 1993	Vehicle (CR 846 5 mi E of Immokalee)
FP51	M	26 Mar 1992	3	-	-	-	FSPSP, FPNWR	17 Jul 1998	Vehicle (SR 29)
FP52	F	05 May 1992	6 mo.	Oct 1991	FP31	FP12	FPNWR, Private (Sadie Cypress)	14 Jan 1995	Vehicle (CR 846 & Dupree Rd)
FP53	M	10 Feb 1993	10 mo.	Apr 1992	FP19	FP12	FPNWR	26 Feb 1993	Intraspecific aggression
FP54	M	10 Feb 1993	10 mo.	Mar 1992	FP40	-	FSPSP, FPNWR	♦	Collar failed 10/20/2000
FP55	F	25 Jan 1994	1.1.	Dec 1992	FP23	FP42	SBCNP	12 July 2004	Intraspecific aggression
FP56	F	03 Feb 1994	2-3	-	-	-	NBCNP	♦	Collar failed 2/20/1998
FP57	F	31 Jan 1995	3	-	-	-	FPNWR, FSPSP	♦	Collar failed 4/5/2000
FP58	M	08 Feb 1995	8 mo.	Apr 1994	FP56	-	NBCNP, FPNWR, FSPSP	30 Mar 1997	Intraspecific aggression
FP59	M	04 Jan 1996	6 mo.	Jun 1995	FP48	-	NBCNP, FPNWR, FSPSP	22 Nov 2004	Intraspecific aggression
FP60	M	06 Mar 1996	5 mo.	Oct 1995	FP40	-	NBCNP, FSPSP, FPNWR, SBCNP	14 Dec 2008	Euthanasia (Removed from wild 6/29/2004)
TX101	F	05 Apr 1995	4	-	-	-	BCSIR	29 Mar 2000	Unknown
TX102	F	05 Apr 1995	4	-	-	-	E. Hendry County	22 Sep 1995	Vehicle (CR833 5 mi. N BCSIR)
TX103	F	04 May 1995	4	-	-	-	SBCNP	19 Aug 1999	Metabolic complications from pregnancy
TX104	F	24 Mar 1995	4	-	-	-	FSPSP, Belle Meade	18 Apr 1998	Gunshot
TX105	F	05 Jul 1995	4	-	-	-	EVER	1 July 2014	Renal failure (removed from wild 1/27/2003)
TX106	F	09 Apr 1995	4	-	-	-	PSSF, FPNWR, FSPSP	13 Mar 2012	Cancer (Removed from wild 1/8/2003)

<b>Panther ID<sup>a</sup></b>	<b>Sex</b>	<b>Capture date</b>	<b>Estimated age at first capture</b>	<b>Birth date</b>	<b>Dam</b>	<b>Purported sire</b>	<b>Use area<sup>b</sup></b>	<b>Death date</b>	<b>Cause of death<sup>c</sup></b>
TX107	F	04 May 1995	3	-	-	-	SBCNP	18 Jan 2001	Pneumonia
TX108	F	26 Jul 1995	3	-	-	-	EVER	5 Feb 2014	Removed from wild 11/18/2002
FP61	F	04 Mar 1997	8 mo.	Jul 1996	TX108	FP16	EVER	◆	Collar failed 6/4/2003
FP62	M	18 Mar 1997	6.5 mo.	Sep 1996	FP48	-	Catfish Creek, Polk Co.	◆	Collar failed 7/21/2000
FP63	M	13 Apr 1997	2	-	-	-	BCSIR, NBCNP, Private Lands	15 Jan 2000	Vehicle / Drowning
FP64	M	24 May 1997	8 mo.	Sep 1996	FP48	-	CREW (Corkscrew Marsh)	26 Mar 1999	Intraspecific aggression
FP65	M	19 Nov 1997	11 mo.	Dec 1996	TX101	FP45	OSSF, Private (Collier Enterprise)	◆	Collar failed 11/17/2010
FP66	F	09 Dec 1997	1	Dec 1996	TX101	FP45	Belle Meade, FPNWR, Private Lands	3 Sept 2014	Removed from wild 4/13/2014
FP67	F	19 Jan 1998	8 mo.	Jun 1997	FP56	FP45	BCSIR, Private Lands	15 Jan 2003	Intraspecific aggression (FP65)
FP68	M	23 Jan 1998	4.5	-	-	-	NBCNP	1 Mar 2000	Unknown (possible ISA)
FP69	F	05 Feb 1998	9 mo.	May 1997	FP40	FP45	NBCNP	12 Sep 2005	Unknown
FP70	F	25 Feb 1998	10 mo.	May 1997	TX107	-	SBCNP	14 Jan 2006	Vehicle
FP71	F	05 Mar 1998	10 mo.	May 1997	TX107	-	SBCNP	◆	Collar failed 7/22/2005
FP72	M	24 Apr 1998	2.5	-	-	-	BCSIR	23 Dec 1998	Intraspecific aggression
FP73	F	12 Nov 1998	3	Sep 1995	TX101	-	BCSIR	27 June 2003	Unknown
FP74	M	12 Nov 1998	1.5	-	FP73	-	Fisheating Creek, Glades and Highlands Co.	8 Sep 1999	Vehicle (SR 27 north of Palmdale)
FP75	F	11 Jan 1999	7 mo.	Jun 1998	FP48	FP68	NBCNP	◆	Collar failed 4/5/2006
FP76	M	13 Jan 1999	22 mo.	-	-	-	FPNWR, SBCNP	13 Nov 1999	Intraspecific aggression (FP54)
FP77	F	22 Jan 1999	1.5-2	-	-	-	NBCNP, BCSIR	12 July 2003	Unknown
FP78	F	16 Feb 1999	2.0	-	-	-	FPNWR	17 Oct 2002	Intraspecific aggression
FP79	M	03 Mar 1999	3.5	Sep 1995	TX101	-	SBCNP	31 Aug 2012	Removed from wild 2/21/2006
FP80	F	14 Jan 2000	4.0	-	-	-	BCSIR	10 Feb 2000	Vehicle (BCSIR)
FP81	M	14 Jan 2000	4.0	-	-	-	BCSIR, Hendry Co. Private Lands	◆	Collar failed 9/16/2002

<b>Panther ID<sup>a</sup></b>	<b>Sex</b>	<b>Capture date</b>	<b>Estimated age at first capture</b>	<b>Birth date</b>	<b>Dam</b>	<b>Purported sire</b>	<b>Use area<sup>b</sup></b>	<b>Death date</b>	<b>Cause of death<sup>c</sup></b>
FP82	F	25 Jan 2000	3.0	-	-	-	OSSF	9 May 2003	Unknown (possible ISA)
FP83	F	08 Feb 2000	8 mo.	Jun 1999	TX106	FP54	FSPSP	25 Mar 2011	Vehicle (US41)
FP84	M	11 Feb 2000	1.0	-	FP73	-	Dispersed from BCSIR to Fisheating Creek	20 Apr 2000	Unknown
FP85	M	17 Feb 2000	10-11 mo.	Mar 1999	FP61	FP16	EVER	1 Mar 2004	Unknown
FP86	F	21 Feb 2000	8 mo.	Jun 1999	FP71	FP79	SBCNP	7 Nov 2003	Spinal trauma
FP87	F	28 Feb 2000	10 mo.	Apr 1999	FP55	FP79	SBCNP	19 Jun 2003	Intraspecific aggression
FP88	F	02 Mar 2000	9 mo.	Jun 1999	FP70	FP79	SBCNP	♦	Collar failed 10/18/2002
FP89	M	02 Mar 2000	2.5	-	-	-	SBCNP	9 Nov 2000	Intraspecific aggression
FP90	M	08 Mar 2000	9 mo.	Jun 1999	FP71	FP79	SBCNP	26 April 2001	Vehicle (US27 Terrytown)
FP91	F	17 Mar 2000	9 mo.	Jun 1999	FP70	FP79	SBCNP	12 Dec 2003	Intraspecific aggression
FP92	M	06 Apr 2000	10 mo.	Jun 1999	FP70	FP79	SBCNP, Belle Meade, CREW	16 Sep 2001	Unknown
FP93	F	10 Apr 2000	14 mo.	Feb 1999	TX107	FP79	SBCNP	2 Dec 2015	Unknown
FP94	F	01 May 2000	10 mo.	Jul 1999	TX105	FP16	EVER	♦	Collar released 4/16/2007
FP95	F	07 Nov 2000	2.8	Jan 1998	TX108	FP16	EVER	♦	Collar failed 1/9/2008
FP96	M	07 Jan 2001	9 mo.	Apr 2000	FP78	FP59	FPNWR	17 Jan 2002	Intraspecific aggression
FP97	M	19 Jan 2001	11 mo.	-	FP105	-	FPNWR	2 Dec 2001	Intraspecific aggression
FP98	M	25 Jan 2001	3	-	-	-	NBCNP, Hendry Co. Private Lands	1 July 2002	Vehicle (SR29 N of Pistol Pond)
FP99	M	26 Jan 2001	11 mo.	-	FP105	-	FPNWR	28 Nov 2002	Vehicle (CR846 Collier fairgrounds)
FP100	M	31 Jan 2001	4	-	-	-	NBCNP, BCSIR	25 Jan 2007	Unknown
FP101	F	5 Feb 2001	2	-	-	-	NBCNP, BCSIR	♦	Collar failed 10/17/2003
FP102	F	20 Feb 2001	3	Feb 1998	FP55	-	SBCNP	23 Oct 2010	Intraspecific aggression
FP103	F	13 Mar 2001	8 mo.	Aug 2000	FP102	-	SBCNP	8 Aug 2007	Intraspecific aggression
FP104	M	2 Apr 2001	6-7 mo.	-	FP70	FP79	SBCNP	9 Mar 2006	Unknown

<b>Panther ID<sup>a</sup></b>	<b>Sex</b>	<b>Capture date</b>	<b>Estimated age at first capture</b>	<b>Birth date</b>	<b>Dam</b>	<b>Purported sire</b>	<b>Use area<sup>b</sup></b>	<b>Death date</b>	<b>Cause of death<sup>c</sup></b>
FP105	F	12 Apr 2001	6	-	-	-	FPNWR	15 Jan 2002	Unknown
FP106	F	12 Apr 2001	13 mo.	-	FP105	-	FPNWR	20 Feb 2003	Vehicle (SR29 Sunniland)
FP107	F	01 Nov 2001	19 mo.	Apr 2000	FP78	FP59	FPNWR	4 Aug 2008	Unknown
FP108	M	03 Nov 2001	10 mo.	Jan 2001	FP87	FP79	SBCNP	16 Nov 2002	Unknown
FP109	M	10 Feb 2002	10+	-	-	-	OSSF	23 Feb 2003	Intraspecific aggression
FP110	F	13 Feb 2002	13 mo.	Dec 2000	FP82	FP65	OSSF	♦	Collar failed 10/8/2014
FP111	M	14 Feb 2002	10	-	-	-	OSSF	4 Sep 2002	Intraspecific aggression
FP112	F	25 Feb 2002	3-4	-	-	-	NBCNP	11 Sep 2002	Intraspecific aggression
FP113	F	23 Oct 2002	6 mo.	Apr 2002	FP78	FP59	FPNWR	♦	Collar failed 10/19/2012
FP114	M	23 Oct 2002	6 mo.	Apr 2002	FP78	FP59	FPNWR	17 Oct 2003	Intraspecific aggression
FP115	F	26 Nov 2002	4-5	-	-	-	OSSF	17 May 2003	Pneumonia (FeLV)
FP116	F	20 Jan 2003	7 mo.	Jun 2002	FP67	-	Hendry Co. Private Lands	10 Jan 2007	Intraspecific aggression
FP117	M	25 Feb 2003	11 mo.	-	-	-	BCSIR	28 Jul 2004	Pseudorabies
FP118	F	5 Mar 2003	11 mo.	-	-	-	BCSIR	3 Apr 2003	Pseudorabies
FP119	M	2 Apr 2003	1	Apr 2002	FP93	FP79	FPNWR, FSPSP	♦	Collar failed 2/9/2011
FP120	F	8 Apr 2003	3	-	-	-	SBCNP	7 May 2005	Vehicle (US 41 Turner River)
FP121	F	2 Dec 2003	2.5	-	-	-	BCSIR	♦	Collar released 8/2/2006
FP122	F	30 Jan 2004	2-2.5	-	-	-	OSSF	13 Feb 2004	Pneumonia (FeLV)
FP123	M	2 Feb 2004	3.5	-	-	-	OSSF	15 Mar 2004	Intraspecific aggression
FP124	F	13 Feb 2004	3-4	-	-	-	SBCNP	♦	Collar failed 8/22/2008
FP125	M	13 Feb 2004	8 mo.	-	FP124	-	SBCNP, EVER	♦	Collar found 9/28/2004
FP126	M	13 Feb 2004	8 mo.	-	FP124	-	SBCNP, OSSF	1 Jan 2005	Intraspecific aggression
FP127	M	16 Feb 2004	2	-	-	-	SBCNP	14 Mar 2008	Intraspecific aggression

<b>Panther ID<sup>a</sup></b>	<b>Sex</b>	<b>Capture date</b>	<b>Estimated age at first capture</b>	<b>Birth date</b>	<b>Dam</b>	<b>Purported sire</b>	<b>Use area<sup>b</sup></b>	<b>Death date</b>	<b>Cause of death<sup>c</sup></b>
FP128	F	18 Feb 2004	3.7	Jun 2000	FP77	-	BCSIR, NBCNP	27 Sept 2007	Unknown
FP129	F	20 Feb 2004	3.1	Jan 2001	FP87	FP79	SBCNP	22 Mar 2006	Intraspecific aggression
FP130	M	4 Mar 2004	9.5 mo.	May 2003	FP110	-	OSSF, FEC, BWWMA	21 Mar 2007	Vehicle (I-4 Reedy Creek)
FP131	M	10 Mar 2004	5	-	-	-	FPNWR	16 Apr 2008	Pneumonia
FP132	M	17 Mar 2004	3	-	-	-	OSSF, DIRWMA	22 Jul 2004	Feline leukemia
FP133	M	18 Nov 2004	4.5	-	-	-	NBCNP, SBCNP	27 Feb 2012	Intraspecific aggression
FP134	M	14 Dec 2004	2.5	-	-	-	NBCNP	29 Jan 2007	Intraspecific aggression
FP135	M	17 Dec 2004	1.7	Apr 2003	FP101	FP65	FPNWR, Private Lands	27 Oct 2006	Intraspecific aggression/euthanized
FP136	F	13 Jan 2005	3.5	-	-	-	SBCNP	13 Jun 2005	Spinal fracture
FP137	M	25 Jan 2005	2.5	-	-	-	OSSF, Private Lands, DIRWMA, SWWMA	♦	Collar failed 9/4/2009
FP138	M	31 Jan 2005	4	-	-	-	SBCNP, BCSIR, NBCNP	12 May 2008	Unknown
FP139	M	31 Mar 2005	2.9	May 2002	FP75	FP100	OSSF, Private Lands	♦	Collar released 8/24/2005
FP140	F	14 Nov 2005	3.5	-	-	-	FPNWR	7 Jun 2009	Intraspecific aggression
FP141	M	30 Nov 2005	3.5	-	-	-	BCSIR, NBCNP	3 Jan 2011	Unknown
FP142	F	14 Dec 2005	2.5	-	-	-	EVER	♦	Collar failed 7/11/2007
FP143	M	9 Jan 2006	1.5	-	-	-	BCSIR, Private Lands	♦	Collar failed 7/30/2007
FP144	M	8 Feb 2006	2	-	-	-	NBCNP	21 Jun 2010	Intraspecific aggression
FP145	F	16 Feb 2006	1.7	-	-	-	SBCNP	♦	Collar failed 5/25/2012
FP146	M	27 Feb 2006	3	-	-	-	PSSF	♦	Collar released 7/16/2008
FP147	M	3 Mar 2006	11 mo.	Mar 2005	FP129	-	SBCNP, FSPSP, PSSF, RBNER	♦	Collar failed 8/29/2007
FP148	F	24 Mar 2006	2.5	-	-	-	PSSF	20 Mar 2015	Intraspecific aggression
FP149	F	17 Jan 2007	2	-	-	-	PSSF	♦	Collar released 5/11/2007
FP150	F	8 Feb 2007	3.6	Jul 2003	FP93	FP60	SBCNP	♦	Collar failed 6/6/2008

<b>Panther ID<sup>a</sup></b>	<b>Sex</b>	<b>Capture date</b>	<b>Estimated age at first capture</b>	<b>Birth date</b>	<b>Dam</b>	<b>Purported sire</b>	<b>Use area<sup>b</sup></b>	<b>Death date</b>	<b>Cause of death<sup>c</sup></b>
FP151	F	10 Feb 2007	4.9	Apr 2002	FP93	FP79	SBCNP	◆	Collar failed 5/19/2016
FP152	M	16 Feb 2007	4-5	-	-	-	SBCNP	22 Oct 2008	Intraspecific aggression
FP153	F	19 Feb 2007	6	-	-	-	SBCNP	16 June 2015	Unknown
FP154	M	21 Feb 2007	3	-	-	-	FPNWR	◆	Collar failed 4/2/2008
FP155	M	29 Nov 2007	2.5	-	-	-	OSSF, Private Lands	8 Sept 2008	Unknown
FP156	M	7 Dec 2007	2.5	-	-	-	PSSF, North Belle Meade	29 Jul 2011	Pseudorabies
FP157	M	19 Dec 2007	3	-	-	-	LCPA, CREW (Flint Pen)	9 Apr 2008	Intraspecific aggression
FP158	F	21 Jan 2008	2.5	-	-	-	PSSF, C SSP, RBNERR	22 May 2010	Vehicle
FP159	M	29 Jan 2008	5-6	-	-	-	LCPA, CREW (Flint Pen, Bird Rook), CSS	27 Apr 2015	Unknown
FP160	F	5 Feb 2008	5	-	-	-	CREW (Corkscrew Marsh), CSS	◆	Collar failed 11/12/2008
FP161	F	10 Feb 2008	3.7	May 2004	FP70	-	SBCNP	◆	Collar failed 5/8/2014
FP162	F	18 Feb 2008	3	-	-	-	SBCNP	6 May 2016	Intraspecific Aggression
FP163	M	21 Feb 2008	1	Feb 2007	FP93	-	SBCNP, NBCNP, Private Lands	25 April 2014	Vehicle
FP164	M	24 Feb 2008	2	-	-	-	SBCNP	30 Jun 2008	Unknown
FP165	M	24 Nov 2008	1	-	-	-	OSSF, DIRWMA, Private Lands	◆	Collar failed 9/14/2009
FP166	M	30 Jan 2009	4-5	-	-	-	BCSIR, Private Lands	5 Oct 2009	Intraspecific aggression
FP167	M	6 Feb 2009	2.5	-	-	-	BCSIR, Private Lands	◆	Collar failed 11/25/2009
FP168	F	9 Feb 2009	7	-	-	-	CREW (Flint Pen), LCPA	12 Oct 2010	Intraspecific aggression
FP169	M	25 Feb 2009	4-5	-	-	-	SBCNP	21 May 2010	Vehicle
FP170	F	26 Feb 2009	2.5	-	-	-	PSSF, FSPSP	28 Feb 2011	Intraspecific aggression
FP171	M	27 Feb 2009	2-3	-	-	-	SBCNP, NBCNP	14 Aug 2016	Vehicle
FP172	F	19 Nov 2009	5	-	-	-	NBCNP	22 Mar 2010	Intraspecific aggression
FP173	M	21 Jan 2010	4	-	-	-	CREW, PIMB, LCPA	22 Dec 2010	Pseudorabies

<b>Panther ID<sup>a</sup></b>	<b>Sex</b>	<b>Capture date</b>	<b>Estimated age at first capture</b>	<b>Birth date</b>	<b>Dam</b>	<b>Purported sire</b>	<b>Use area<sup>b</sup></b>	<b>Death date</b>	<b>Cause of death<sup>c</sup></b>
FP174	M	26 Jan 2010	4	-	-	-	PSSF	16 Mar 2010	Vehicle
FP175	F	7 Feb 2010	2.5	Jul 2007	FP150	-	NBCNP, SBCNP	24 Jan 2014	Peritonitis
FP176	M	8 Feb 2010	3-4	-	-	-	OSSF, SWWMA	17 Nov 2010	Vehicle
FP177	M	9 Feb 2010	3	Mar 2007	FP113	FP119	NBCNP	16 Jul 2014	Intraspecific aggression
FP178	F	10 Feb 2010	2	-	-	-	NBCNP	♦	Collar failed 7/2/2014
FP179	M	14 Feb 2010	5	-	-	-	SBCNP	♦	Collar failed 5/5/2010
FP180	F	21 Feb 2010	2	Feb 2008	FP151	-	SBCNP	♦	Collar failed 8/5/2016
FP181	M	28 Feb 2010	9	Mar 2001	TX106	FP60	SBCNP, FSPSP, PSSF	♦	Collar failed 8/2/2010
FP182	F	1 Mar 2010	1	Feb 2009	FP161	-	SBCNP	11 Dec 2012	Vehicle
FP183	M	3 Nov 2010	4.5	-	-	-	FPNWR, FSPSP	25 Feb 2015	Vehicle
FP184	F	8 Nov 2010	3-4	-	-	-	NBCNP, Private Lands	26 Apr 2013	Intraspecific aggression
FP185	F	15 Nov 2010	1.5-2	-	-	-	Private Lands east of County Line Rd	♦	Collar failed 9/25/2017
FP186	M	10 Jan 2011	7 mo.	-	-	-	CREW-Flint Pen, Bird Rookery Swamp	30 May 2011	Intraspecific aggression
FP187	M	5 Feb 2011	7	-	-	-	SBCNP	♦	Collar failed 3/27/2015
FP188	F	8 Feb 2011	3	-	-	-	Alico Grove north of CREW Marsh	10 Sept 2011	Unknown
FP189	M	14 Feb 2011	3	-	-	-	NBCNP, FPNWR, Private Lands	5 Jan 2012	Intraspecific aggression
FP190	F	14 Feb 2011	5	-	-	-	SBCNP	♦	Collar failed 12/21/2012
FP191	F	26 Feb 2011	12	Feb 1999	TX107	FP79	SBCNP	13 Feb 2015	Unknown
FP192	F	28 Feb 2011	1.7	Jul 2009	FP170	-	SBCNP	♦	Collar failed 12/14/2015
FP193	M	7 Mar 2011	2-2.5	-	-	-	PSSF, CSSP, Private Lands	-	-
FP194	M	30 Oct 2010	5 mo.	May 2010	FP102	-	SBCNP	13 Jan 2012	Intraspecific aggression
FP195	F	30 Nov 2011	3.5	-	-	-	PSSF	29 Aug 2016	Intraspecific aggression
FP196	F	20 Jan 2012	2	-	-	-	PSSF	6 Oct 2012	Vehicle

<b>Panther ID<sup>a</sup></b>	<b>Sex</b>	<b>Capture date</b>	<b>Estimated age at first capture</b>	<b>Birth date</b>	<b>Dam</b>	<b>Purported sire</b>	<b>Use area<sup>b</sup></b>	<b>Death date</b>	<b>Cause of death<sup>c</sup></b>
FP197	M	25 Jan 2012	4	-	-	-	CREW/LCPA	18 Jul 2012	Unknown
FP198	F	8 Feb 2012	4	-	-	-	CREW/LCPA	22 Mar 2017	Intraspecific aggression
FP199	F	9 Feb 2012	2	-	-	-	NBCNP	♦	Collar came off 1/17/2018
FP200	M	2 Nov 1984	3-5	-	-	-	Injured by vehicle on US41	3 June 1994	“Big Guy”. Died in captivity
FP201♣	M	20 Feb 1991	7 mo.	July 1990	FP31	FP12	FPNWR, SBCNP	11 Mar 1997	Released, unknown cause of death
FP202♣	M	22 Feb 1991	7 mo.	July 1990	FP9	FP37	FSPSP	10 Feb 2002	Died in captivity
FP203♣	M	25 Feb 1991	7 mo.	July 1990	FP9	FP37	FSPSP, SBCNP	26 Feb 1997	Released, intraspecific aggression
FP204♣	F	27 Feb 1991	7 mo.	July 1990	FP31	FP12	FPNWR	28 July 2009	Died in captivity
FP205♣	F	3 May 1991	6 mo.	Dec 1990	FP19	-	FPNWR	11 October 1992	Died in captivity
FP206♣	F	6 May 1991	6 mo.	Dec 1990	FP40	-	Private Lands	2 May 1992	Died in captivity
FP207♣	M	4 Mar 1992	8-10 mo.	Jun 1991	FP36	-	Nobles Ranch	10 Sept 2007	Died in captivity
FP208♣	F	25 May 1992	12-14 days	May 1992	FP32	FP12	FPNWR	18 Feb 2007	Died in captivity
FP209♣	F	20 Aug 1992	10 days	Aug 1992	FP23	FP42	SBCNP	16 Jan 2004	Died in captivity
FP210♣	M	20 Aug 1992	10 days	Aug 1992	FP23	FP42	SBCNP	9 Oct 2008	Died in captivity
FP211	M	10 Feb 2012	2	-	-	-	NBCNP	21 May 2012	Intraspecific aggression
FP212	M	13 Feb 2012	3	-	-	-	OSSF	18 May 2012	Intraspecific aggression
FP213	F	15 Feb 2012	2.5	-	-	-	OSSF	31 Dec 2014	Intraspecific aggression
FP214	F	17 Feb 2012	3-4	-	-	-	SBCNP	-	-
FP215	F	23 Feb 2012	6.8	Apr 2005	FP113	FP131/133	FPNWR	22 Jun 2016	Unknown
FP216	M	11 Mar 2012	1	-	-	-	SBCNP	♦	Collar released 2/27/2014
FP217	F	7 Jan 2013	5	-	-	-	OSSF	♦	Collar failed 6/13/2017
FP218	F	24 Jan 2013	2.5	-	-	-	OSSF/Private	♦	Collar released 1/15/2014
FP219	F	23 Sep 2011	5 mo.	May 2011	FP188	-	FSPSP/PSSF/Captive	18 Sep 2015	Vehicle

<b>Panther ID<sup>a</sup></b>	<b>Sex</b>	<b>Capture date</b>	<b>Estimated age at first capture</b>	<b>Birth date</b>	<b>Dam</b>	<b>Purported sire</b>	<b>Use area<sup>b</sup></b>	<b>Death date</b>	<b>Cause of death<sup>c</sup></b>
FP220	F	4 Feb 2013	6	Feb 2007	FP93	-	SBCNP	-	-
FP221	F	22 Feb 2013	9-10 mo.	-	-	-	SBCNP	♦	Collar failed 5/19/2016
FP222	F	26 Feb 2013	8	-	-	-	FPNWR	23 Oct 2015	Vehicle
FP223	M	23 Sep 2011	5 mo.	May 2011	FP188	-	Private Lands/ <b>Captive</b>	4 Jan 2014	Pneumonia
FP224	F	13 May 2013	8-9 mo.	-	-	-	Golden Gate Estates/ <b>Captive</b>	-	-
FP225	M	15 Jan 2014	20 mo.	-	-	-	NBCNP	♦	Collar failed 3/13/2015
FP226	F	15 Jan 2014	5	-	-	-	NBCNP	♦	Collar released 11/12/2014
FP227	M	10 Feb 2014	2-3	-	-	-	NBCNP	♦	Collar failed 12/24/2014
FP228	M	20 Feb 2014	4	-	-	-	NBCNP	17 Mar 2014	Vehicle
FP229	F	27 Feb 2014	3-4	-	-	-	NBCNP	14 Nov 2014	Unknown
FP230	M	8 Mar 2014	5-6	-	-	-	SBCNP	♦	Collar failed 7/29/2014
FP231	M	24 Mar 2014	2	-	-	-	Clam Pass, Naples	4 Aug 2014	Unknown
FP232	M	15 Apr 2014	2.5	-	-	-	Ft. Meade/ <b>Captive</b> /Central Florida	♦	Collar failed 10/7/2015
FP233	M	6 Jan 2015	1.5	-	-	-	NBCNP	♦	Collar released 7/15/2015
FP234	M	7 Jan 2015	9-10	-	-	-	NBCNP	13 Aug 2017	Vehicle
FP235	M	8 Jan 2015	4	-	-	-	NBCNP/BCSIR	♦	Collar released 8/3/2015
FP236	M	16 Jan 2015	6-7	-	-	-	CREW	21 Mar 2018	Unknown
FP237	M	20 Jan 2015	10-12 mo.	-	-	-	CREW	30 Mar 2015	Intraspecific aggression
FP238	M	3 Feb 2015	1.5-2	-	-	-	RBNER/PSSF/SBCNP	♦	Collar failed 10/2/2015
FP239	F	12 Feb 2015	11 mo.	-	-	-	SBCNP	-	-
FP240	F	18 Feb 2015	2	Dec 2012	FP151	-	SBCNP	10 Aug 2015	Intraspecific aggression
FP241	M	12 Jan 2016	7-8	-	-	-	Immokalee Ranch	♦	Collar failed 10/9/2017
FP242	M	20 Jan 2016	9-10	-	-	-	Immokalee Ranch	5 Aug 2016	Pseudorabies

Panther ID <sup>a</sup>	Sex	Capture date	Estimated age at first capture	Birth date	Dam	Purported sire	Use area <sup>b</sup>	Death date	Cause of death <sup>c</sup>
FP243	M	12 Apr 2016	2	-	-	-	Farmworkers Village, <b>Captive</b> , SBCNP, NBCNP, BCSIR, <b>Captive</b>	-	Removed from wild 7/21/2016
FP244	M	7 Dec 2016	6-7	-	-	-	OSSF	28 Aug 2017	Unknown
FP245	M	19 Jan 2017	6	-	-	-	Immokalee Ranch	14 Mar 2018	Unknown
FP246	F	7 Feb 2017	2	-	-	-	Immokalee Ranch	-	-
FP247	F	14 Feb 2017	3-4	-	-	-	Immokalee Ranch	-	-
FP248	F	11 May 2017	3	-	-	-	Corkscrew Road	-	Removed from wild 5/11/2017
FP249	M	31 May 2017	1.5	-	-	-	Alva, DIRWMA, Immokalee Ranch	21 Nov 2017	Vehicle
FP250	M	7 June 2017	1.5	-	-	-	GGE, DIR	-	-
FP251	M	2 Jan 2018	6 mo.	5/31/2017	FP224	-	GGE, FSPSP, PSSF	-	-
FP252	M	2 Jan 2018	6 mo.	5/31/2017	FP224	-	GGE, FSPSP, PSSF	-	-

<sup>a</sup> FP denotes panthers captured for radiocollaring. TX denotes female Texas pumas released in 1995 as part of the genetic introgression project.

<sup>b</sup> BCSIR = Big Cypress Seminole Indian Reservation; BWMA=Babcock Webb Wildlife Management Area; CREW = Corkscrew Regional Ecosystem Watershed; CSS = Corkscrew Swamp Sanctuary; CSSP = Collier Seminole State Park; DIRWMA = Dinner Island Ranch Wildlife Management Area; EVER = Everglades National Park; EWMA; Everglades Wildlife Management Area; FEC=Fisheating Creek; FPNWR = Florida Panther National Wildlife Refuge; FSPSP = Fakahatchee Strand Preserve State Park; GGE = Golden Gate Estates; LCPA = Lee County Port Authority Mitigation Area; NBCNP = Big Cypress National Preserve north of Interstate 75; OSSF = Okaloacoochee Slough State Forest; PIMB=Panther Island Mitigation Bank; PSSF = Picayune Strand State Forest/Wildlife Management Area; RBNER = Rookery Bay National Estuarine Research Reserve; SBCNP = Big Cypress National Preserve south of Interstate 75; SWWMA = Spirit of the Wild Wildlife Management Area.

<sup>c</sup> ISA = Intraspecific aggression

◆ Telemetry collar either failed or was released (via timed or remote release mechanisms) prior to the death of the animal.

♠ Panthers removed from the wild for a captive breeding program from 1991-1992. Program was eventually dissolved in favor of genetic restoration.

Appendix II. List of Florida panther kittens handled at natal dens in southern Florida by FWC and BCNP staff from 7 April 1992 through 30 June 2018. Litters are sorted chronologically.

<b>Kitten ID</b>	<b>Dam ID</b>	<b>Date marked</b>	<b>Sex</b>	<b>Transponder ID</b>	<b>Estimated age in days</b>	<b>Purported field sire</b>	<b>Date collared</b>	<b>Eventual panther ID</b>
K1	FP40	4/7/1992	M	None	14-21	FP28	2/10/1993	FP54
K2	FP40	4/7/1992	M	None	14-21	FP28		
K3	FP40	6/18/1993	M	None	21	FP26		
K4	FP40	6/18/1993	F	None	21	FP26		
K5	FP40	6/18/1993	F	None	21	FP26		
K6	FP48	10/30/1993	M	None	8	FP12		
K7	FP48	10/30/1993	F	None	8	FP12		
K8	FP48	10/30/1993	F	None	8	FP12		
K9	FP56	4/21/1994	M	None	14	Unknown		
K10	FP56	4/21/1994	F	None	14	Unknown		
K11	FP56	4/21/1994	M	None	14	Unknown		
K12	FP19	5/17/1994	F	None	14-17	FP51		
K13	FP19	5/17/1994	F	None	14-17	FP51		
K14	FP55	4/8/1995	F	None	12	FP42		
K15	FP55	4/8/1995	F	None	12	FP42		
K16	FP48	6/20/1995	M	12A4640	12	Unknown	1/7/1996	FP59
K17	FP48	6/20/1995	F	129FE45	12	Unknown		
K18	TX101	10/10/1995	F	F82665	21	Unknown	11/12/1998	FP73
K19	TX101	10/10/1995	M	F79CB9	21	Unknown	3/3/1999	FP79
K20	FP56	10/31/1995	M	762141	14	FP45		
K21	FP56	10/31/1995	M	632448	14	FP45		
K22	FP56	10/31/1995	M	F6642F	14	FP45		
K23	TX106	12/1/1995	F	11DFD74	21	FP51		
K24	FP36	2/6/1996	F	12AB55F	14	FP45		
K25	FP36	2/6/1996	M	1147C9B	14	FP45		
K26	FP36	2/6/1996	M	11DF0DA	14	FP45		

<b>Kitten ID</b>	<b>Dam ID</b>	<b>Date marked</b>	<b>Sex</b>	<b>Transponder ID</b>	<b>Estimated age in days</b>	<b>Purported field sire</b>	<b>Date collared</b>	<b>Eventual panther ID</b>
UCFP44 <sup>a</sup>	FP36	2/6/1996	U	none	Unknown	Unknown		
UCFP24	FP32	3/18/1996	F	dead not marked	10-14	Unknown		
K27	FP19	4/17/1996	F	114DAFE (11363DC)	24	FP54/FP51		
K28	FP19	4/17/1996	F	11EOD50	24	FP54/FP51		
K29	FP56	8/14/1996	U	11EAB72T	14	FP45		
K30	FP56	8/14/1996	U	1142876	14	FP45		
K31	FP48	9/18/1996	M	7037C2	14-17	Unknown	3/18/1997	FP62
K32	FP48	9/18/1996	M	11EA2EC	14-17	Unknown	5/24/1997	FP64
K33	FP48	9/18/1996	M	6FFD52	14-17	Unknown		UCFP50
K34	TX105	10/4/1996	F	11EAO30T	30-35	FP16		
K35	TX101	12/21/1996	M	12AFFBF	4	FP45	11/19/1997	FP65
K36	TX101	12/21/1996	F	142581A	4	FP45	12/9/1997	FP66
K37	FP40	5/14/1997	M	1146911	21	FP45		
unmarked1 <sup>b</sup>	FP40	2/5/1998	F	none	270	Unknown	2/5/1998	FP69
K38	TX107	6/4/1997	F	1311B3B	30+	Unknown	3/5/1998	FP71
K39	TX107	6/4/1997	F	771B4D	30+	Unknown	2/25/1998	FP70
K40	FP56	6/17/1997	M	1412E16	25-28	FP45		
K41	FP56	6/17/1997	F	14259BF	25-28	FP45		
K42	FP56	6/17/1997	F	1425A07	25-28	FP45	1/19/1998	FP67
K43	FP56	6/17/1997	M	12C2B93	25-28	FP45		
K44	FP55	10/2/1997	M	12A9E4AT	25-30	Unknown		
K45	TX108	2/11/1998	F	1D1DFDOT	21	FP16	11/7/2000	FP95
K46	TX108	2/11/1998	M	143E96ET	21	FP16		
K47	TX106	2/17/1998	M	1D3E32OT	7-10	FP54		
K48	FP55	2/25/1998	F	121134F	14	Unknown	2/20/2001	FP102
K49	FP55	2/25/1998	F	1D2B3AET	14	Unknown		
K50	FP55	2/25/1998	M	12A94A6T	14	Unknown		
K51	FP48	6/27/1998	M	1D2A504T	28	Unknown		
unmarked3 <sup>c</sup>	FP48	1/11/1999	F	00013C2DC7T	7 months	Unknown	1/11/1999	FP75

<b>Kitten ID</b>	<b>Dam ID</b>	<b>Date marked</b>	<b>Sex</b>	<b>Transponder ID</b>	<b>Estimated age in days</b>	<b>Purported field sire</b>	<b>Date collared</b>	<b>Eventual panther ID</b>
K52	FP66	10/2/1998	M	1D21638T	12	FP72		
K53	FP66	10/2/1998	F	1C49E48T	12	FP72		
K54	FP66	10/2/1998	M	1D2CBC3T	12	FP72		
K55	FP49	2/23/1999	M	1211046	25	Unknown		
K56	TX107	3/11/1999	F	1327679T	21+	FP79	2/26/2011	FP191
K57	TX107	3/11/1999	M	14245FOT	21+	FP79		
K58	TX107	3/11/1999	F	12A9FE5T	21+	FP79	4/10/2000	FP93
K59	FP61	4/6/1999	M	1EFF6EFT	14	FP16	2/17/2000	FP85
K60	FP55	5/10/1999	F	1EFFA75T	24-26	FP79	2/28/2000	FP87
K61	FP55	5/10/1999	M	1EFF978T	24-26	FP79		
K62	TX106	6/18/1999	F	114C9D7T	14	FP54/FP60		
K63	TX106	6/18/1999	F	12AFC11T	14	FP54/FP60	2/8/2000	FP83
K64	FP70	6/23/1999	F	1E2EB33T	10-12	FP79	3/2/2000	FP88
K65	FP70	6/23/1999	M	703A4AT	10-12	FP79	4/6/2000	FP92
K66	FP70	6/23/1999	F	1EFFF55T	10-12	FP79	3/17/2000	FP91
K67	FP71	7/4/1999	M	1E2EBFET	17	FP79	3/8/2000	FP90
K68	FP71	7/4/1999	F	20509A9T	17	FP79	2/21/2000	FP86
K69	FP71	7/4/1999	M	1E2F6B7T	17	FP79		
K70	FP71	7/4/1999	F	1E2DF2BT	17	FP79		
K71	FP69	8/1/1999	M	1E2F276T	7	Unknown		
K72	FP69	8/1/1999	F	1F07255T	7	Unknown		
K73	FP69	8/1/1999	F	1FO14C2T	7	Unknown		
K74	FP48	10/25/1999	F	1EFFF38T	14-17	FP63,FP68		
K75	FP48	10/25/1999	F	1FO1BEDT	14-17	FP63,FP68		
K76	FP66	12/24/1999	M	1D2C5F6T	14	FP60		
K77	FP66	12/24/1999	F	1F00067T	14	FP60		
K78	FP66	12/24/1999	F	1E2F2D6T	14	FP60		
K79	FP78	4/26/2000	F	1D1CDD8T	10-14	FP59	11/1/2001	FP107
K80	FP78	4/26/2000	M	1F07DD7T	10-14	FP59	1/7/2001	FP96

<b>Kitten ID</b>	<b>Dam ID</b>	<b>Date marked</b>	<b>Sex</b>	<b>Transponder ID</b>	<b>Estimated age in days</b>	<b>Purported field sire</b>	<b>Date collared</b>	<b>Eventual panther ID</b>
K81	FP77	6/27/2000	M	1D3B75CT	28	Unknown		
K82	FP77	6/27/2000	F	1433F77T	28	Unknown	2/18/2004	FP128
K83	FP77	6/27/2000	M	1D3A078T	28	Unknown		
K84	FP67	8/19/2000	M	143F34DT	12	Unknown		
K85	FP67	8/19/2000	F	1E2E834T	12	Unknown		
K86	FP82	1/3/2001	F	1E2F17ET	14	FP65	2/13/2002	FP110
K87	FP82	1/3/2001	F	1E2EFB7T	14	FP65		
K88	FP82	1/3/2001	M	1F00D57T	14	FP65		
K89	FP87	2/7/2001	F	20501C5T	14-21	FP79	2/20/2004	FP129
K90	FP87	2/7/2001	M	1E2F06B	14-21	FP79	11/3/2001	FP108
K91	FP87	2/7/2001	M	1F071F4T	14-21	FP79		
K92	TX106	3/17/2001	F	600DBE9	14-16	FP60		
K93	TX106	3/17/2001	M	600CCC4	14-16	FP60	2/28/2010	FP181
K94	FP88	5/25/2001	M	1E2EB3DT	21	Unknown		
K95	FP88	5/25/2001	F	1EFF463T	21	Unknown		
K96	FP88	5/25/2001	M	1F00576T	21	Unknown		
K97	FP88	5/25/2001	F	204F878T	21	Unknown		
K98	FP67	5/26/2001	F	11D5AFD	21	Unknown		UCFP49
K99	FP67	5/26/2001	M	1248B13T	21	Unknown		
K100	FP67	5/26/2001	M	600EFAF	21	Unknown		
K101	FP67	5/26/2001	M	600E363	21	Unknown		
K102	FP75	6/15/2001	M	600E58A	10-12	FP59		
K103	FP75	6/15/2001	M	6000FA1	10-12	FP59		
K104	FP55	6/28/2001	M	1EFFFC5T	17	Unknown		
K105	FP102	7/12/2001	M	1E2DFA4T	21	FP79		
K106	FP102	7/12/2001	M	600E036	21	FP79		
K107	FP49	8/27/2001	M	000600F828	21	Unknown		
K108	FP77	8/30/2001	M	000600F0EA	30	Unknown		
K109	FP73	3/3/2002	M	000600FD77	7	Unknown		

<b>Kitten ID</b>	<b>Dam ID</b>	<b>Date marked</b>	<b>Sex</b>	<b>Transponder ID</b>	<b>Estimated age in days</b>	<b>Purported field sire</b>	<b>Date collared</b>	<b>Eventual panther ID</b>
K110	FP73	3/3/2002	M	0001E2D9E2T	7	Unknown		
K111	FP73	3/3/2002	F	000600A2C9	7	Unknown		
K112	FP95	4/21/2002	F	0001E2E9D3T	25	FP85		
unmarked2 <sup>d</sup>	FP95	not marked	U	none	Unknown	FP85		
K113	FP93	4/23/2002	F	0001EFF813T	18	FP79	2/10/2007	FP151
K114	FP93	4/23/2002	F	000600CC53	18	FP79		
K115	FP93	4/23/2002	M	0001F071E4T	18	FP79	4/2/2003	FP119
K116	FP93	4/23/2002	F	0001F01C76T	18	FP79		
K117	FP78	4/30/2002	F	000600CDB3	21	FP59		
K118	FP78	4/30/2002	F	000600DB01	21	FP59		
K119	FP78	4/30/2002	F	000600E3E3	21	FP59	10/23/2002	FP113
K120	FP78	4/30/2002	M	0001F01D1CT	21	FP59	10/23/2002	FP114
K121	FP101	5/9/2002	M	000204F9EAT	10	Unknown		
K122	FP101	5/9/2002	F	0001E2D6FDT	10	Unknown		
K123	FP83	5/12/2002	M	000631AED6	28	Unknown		
K124	FP106	5/27/2002	F	0001F003A0T	10	Unknown		
K125	FP106	5/27/2002	M	0001D2CBC4T	10	Unknown		
K126	FP106	5/27/2002	M	0001E2E8F6T	10	Unknown		
K127	FP55	5/30/2002	F	000600EAD2	10	FP79		
K128	FP75	6/6/2002	M	000600E84B	10	FP100/FP98		
K129	FP75	6/6/2002	M	00060101BC	10	FP100/FP98	3/31/2005	FP139
K130	FP112	6/15/2002	M	0001EFF497T	7	FP100/FP98		
K131	FP112	6/15/2002	M	000600E4CE	7	FP100/FP98		
K132	FP67	6/18/2002	F	000600D0F1	10	Unknown	1/20/2003	FP116
K133	FP67	6/18/2002	M	000600EBA8	10	Unknown		
K134	FP67	6/18/2002	M	000600E776	10	Unknown		
K135	FP107	7/7/2002	M	0006010509	9-10	Unknown		
K136	FP107	7/7/2002	F	000600F465	9-10	Unknown		
K137	FP102	7/19/2002	F	0006318229	15	FP79		

<b>Kitten ID</b>	<b>Dam ID</b>	<b>Date marked</b>	<b>Sex</b>	<b>Transponder ID</b>	<b>Estimated age in days</b>	<b>Purported field sire</b>	<b>Date collared</b>	<b>Eventual panther ID</b>
K138	FP102	7/19/2002	M	000630E287	15	FP79		
K139	FP61	9/27/2002	F	000204FBC3T	10	Unknown		
K140	FP61	9/27/2002	M	000600D0D4	10	Unknown		
K141	FP61	9/27/2002	M	000600F2F8	10	Unknown		
K142	FP61	9/27/2002	F	0001D29A56T	10	Unknown		
K143	FP87	3/25/2003	F	000600DD57	15	FP79		
K144	FP87	3/25/2003	M	ID not recorded	15	FP79		
K145	FP87	3/25/2003	F	ID not recorded	15	FP79		
K146	FP101	4/19/2003	F	00062EDF9D	10	FP65/FP100		
K147	FP101	4/19/2003	M	0006328F81	10	FP65/FP100	12/17/2004	FP135
K148	FP101	4/19/2003	F	00062E2A15	10	FP65/FP100		
K149	FP110	6/3/2003	F	000600F8DE	6-10	Unknown		
K150	FP110	6/3/2003	M	000600CCD1	6-10	Unknown	3/4/2004	FP130
K151	FP110	6/3/2003	F	000600C049	6-10	Unknown		
K152	FP93	8/5/2003	F	000600037C	21	FP60	2/8/2007	FP150
K153	FP93	8/5/2003	M	0005FFE2D6	21	FP60		
K154	FP93	8/5/2003	M	0006000B2A	21	FP60		
K155	FP120	2/7/2004	F	0005FFE0A	14	Unknown		
K156	FP120	2/7/2004	M	0005FFE0DA	14	Unknown		
K157	FP75	3/21/2004	M	0006327AC0	23	Unknown		
K158	FP75	3/21/2004	M	000632781C	23	Unknown		
K159	FP75	3/21/2004	F	00062EE361	23	Unknown		
K160	FP116	5/1/2004	F	0006479F70	14	FP65		
K161	FP116	5/1/2004	F	000647D7A6	14	FP65		
K162	FP116	5/1/2004	M	0006485640	14	FP65		
K163	FP107	5/21/2004	M	0006327255	7	Unknown		
K164	FP107	5/21/2004	M	0006326E04	7	Unknown		
K165	FP107	5/21/2004	F	000632227C	7	Unknown		
K166	FP107	5/21/2004	F	000647A475	7	Unknown		

<b>Kitten ID</b>	<b>Dam ID</b>	<b>Date marked</b>	<b>Sex</b>	<b>Transponder ID</b>	<b>Estimated age in days</b>	<b>Purported field sire</b>	<b>Date collared</b>	<b>Eventual panther ID</b>
K167	FP70	6/6/2004	F	00064DBAB1	12	Unknown		
K168	FP70	6/6/2004	M	00064DAB32	12	Unknown		
K169	FP70	6/6/2004	F	00064D7C86	12	Unknown	2/10/2008	FP161
K170	FP102	8/5/2004	F	00064DEB7D	15	FP79		
K171	FP102	8/5/2004	M	00064DDEEA	15	FP79		
K172	FP102	8/5/2004	F	00064D918C	15	FP79		
K173	FP121	9/1/2004	F	0006000738	14	Unknown		
UCFP67	FP113	9/2/2004	F	dead not marked	< 7	Unknown		
K174	FP124	9/29/2004	M	000647D79D	21+	Unknown		
K175	FP124	2/10/2005	M	0005FFF5E1	14	Unknown		
K176	FP124	2/10/2005	M	00064D67F9	14	Unknown		
K177	FP124	2/10/2005	F	0006000D6B	14	Unknown		
K178	FP110	3/7/2005	M	000601E07A	12	Unknown		
K179	FP110	3/7/2005	F	00064DD051	12	Unknown		
K180	FP107	3/15/2005	F	000600E4BB	14	FP119/FP131		
K181	FP107	3/15/2005	F	000600F978	14	FP119/FP131		
K182	FP129	4/6/2005	F	0006482822	10	Unknown		
K183	FP129	4/6/2005	M	00064DE502	10	Unknown		
K184	FP129	4/6/2005	M	00064D7610	10	Unknown	3/3/2006	FP147
K185	FP113	4/20/2005	F	000647B5F9	15	FP131/FP133	2/23/2012	FP215
K186	FP113	4/20/2005	F	000647AEBB	15	FP131/FP133		
K187	FP116	6/19/2005	M	00064D6A85	22	Unknown		
K188	FP116	6/19/2005	F	000647AEEEE6	22	Unknown		
K189	FP116	6/19/2005	M	000647BC03	22	Unknown		
K190	FP128	7/21/2005	M	64D816A	24	Unknown		
K191	FP128	7/21/2005	M	647C7FE	24	Unknown		
K192	FP75	8/7/2005	M	000647CDE9	7	FP135		
K193	FP75	8/7/2005	F	00064DB63B	7	FP135		
K194	FP75	8/7/2005	F	00064DAC56	7	FP135		

<b>Kitten ID</b>	<b>Dam ID</b>	<b>Date marked</b>	<b>Sex</b>	<b>Transponder ID</b>	<b>Estimated age in days</b>	<b>Purported field sire</b>	<b>Date collared</b>	<b>Eventual panther ID</b>
K195	FP75	8/7/2005	M	000600E8A6	7	FP135		
K196	FP110	11/1/2005	M	00063DE442	21	Unknown		
K197	FP110	11/1/2005	M	00063DA510	21	Unknown		
K198	FP110	11/1/2005	M	00064339FD	21	Unknown		
K199	FP110	11/1/2005	F	000643666C	21	Unknown		
K200	FP107	2/17/2006	F	0006009668	6	FP131		
K201	FP107	2/17/2006	M	000600F274	6	FP131		
K202	FP121	3/5/2006	F	000600DAB4	14	Unknown		
K203	FP121	3/5/2006	M	000600B508	14	Unknown		
K204	FP121	3/5/2006	M	0006483B07	14	Unknown		
K205	FP94	6/22/2006	F	00064DA2F2	18	Unknown		
K206	FP94	6/22/2006	M	00063D8B9D	18	Unknown		
K207	FP94	6/22/2006	F	00063DD7D8	18	Unknown		
K208	FP145	6/23/2006	F	000647B5DA	12	FP138		
K209	FP145	6/23/2006	F	00064ECCA4	12	FP138		
K210	FP145	6/23/2006	F	000672579C	12	FP138		
K211	FP93	7/1/2006	F	0064068FF	18	FP133		
K212	FP93	7/1/2006	F	00647879D	18	FP133		
K213	FP93	7/1/2006	F	0064D988C	18	FP133		
K214	FP95	7/3/2006	F	00064D852D	10	Unknown		
K215	FP95	7/3/2006	F	00064D5EDC	10	Unknown		
K216	FP95	7/3/2006	M	000647C887	10	Unknown		
K217	FP102	7/12/2006	M	000672358E	18	FP138		
K218	FP102	7/12/2006	M	000671CA33	18	FP138		
K219	FP140	11/15/2006	F	006435A2B	9-11	FP119		
K220	FP140	11/15/2006	M	0006436824	9-11	FP119		
K221	FP148	1/18/2007	F	000647D2EE	21	FP146		
K222	FP148	1/18/2007	M	00064DC433	21	FP146		
K223	FP148	1/18/2007	F	00064E23C	21	FP146		

<b>Kitten ID</b>	<b>Dam ID</b>	<b>Date marked</b>	<b>Sex</b>	<b>Transponder ID</b>	<b>Estimated age in days</b>	<b>Purported field sire</b>	<b>Date collared</b>	<b>Eventual panther ID</b>
K224	FP124	2/17/2007	M	64EED68	9	Unknown		
K225	FP124	2/17/2007	M	64E00C9	9	Unknown		
K226	FP93	3/8/2007	M	6712488	16	Unknown		
K227	FP93	3/8/2007	M	64DF113	16	Unknown	2/21/2008	FP163
K228	FP93	3/8/2007	F	64EO84F	16	Unknown	2/4/2013	FP220
K229	FP110	3/20/2007	F	0006327849	10-12	FP137		
K230	FP110	3/20/2007	M	00063DD906	10-12	FP137		
K231	FP110	3/20/2007	F	00063DC6F3	10-12	FP137		
K232	FP110	3/20/2007	M	00063218EB	10-12	FP137		
K233	FP113	3/25/2007	F	00063DC1F0	7	FP119		
K234	FP113	3/25/2007	M	00063DC585	7	FP119		
K235	FP113	3/25/2007	M	0006439AB7	7	FP119	2/9/2010	FP177
K236	FP103	4/4/2007	F	0006722801	24	FP127		
K237	FP103	4/4/2007	F	00067142C6	24	FP127		
K238	FP103	4/4/2007	M	000671D047	24	FP127		
K239	FP149	4/13/2007	F	00063DCBCC	11-13	Unknown		
K240	FP149	4/13/2007	F	000631A816	11-13	Unknown		
K241	FP151	4/21/2007	M	67245C4	16	Unknown		
K242	FP151	4/21/2007	F	67216AA	16	Unknown		
K243	FP151	4/21/2007	F	64E6E50	16	Unknown		
K244	FP145	4/26/2007	M	6718E19	16	FP133		
K245	FP145	4/26/2007	M	6718AEE	16	FP133		
K246	FP145	4/26/2007	F	6722453	16	FP133		
K247	FP107	4/27/2007	F	0006437F96	10-12	Unknown		
K248	FP107	4/27/2007	M	0006435576	10-12	Unknown		
K249	FP107	4/27/2007	F	dead not marked	10-12	Unknown		
K250	FP128	5/12/2007	M	0006435419	10-12	Unknown		
K251	FP128	5/12/2007	M	0006434A69	10-12	Unknown		
K252	FP128	5/12/2007	F	0006433EFA	10-12	Unknown		

<b>Kitten ID</b>	<b>Dam ID</b>	<b>Date marked</b>	<b>Sex</b>	<b>Transponder ID</b>	<b>Estimated age in days</b>	<b>Purported field sire</b>	<b>Date collared</b>	<b>Eventual panther ID</b>
K253	FP150	7/20/2007	M	6726F07	18	Unknown		
K254	FP150	7/20/2007	F	671F6F3	18	Unknown	2/7/2010	FP175
K255	FP150	7/20/2007	F	67231E8	18	Unknown		
K256	FP150	7/20/2007	F	671E895	18	Unknown		
K257	FP110	8/10/2007	M	0006439E20	13-15	Unknown		
K258	FP110	8/10/2007	M	000643422C	13-15	Unknown		
K259	FP151	8/27/2007	M	dead not marked	17-20	Unknown		
K260	FP151	8/27/2007	U	dead not marked	17-20	Unknown		
K261	FP107	9/25/2007	M	000643530F	10-14	Unknown		
K262	FP107	9/25/2007	M	0006435247	10-14	Unknown		
K263	FP107	9/25/2007	M	00063DC5C2	10-14	Unknown		
K264	FP151	3/4/2008	F	6957DE2	21	Unknown	2/21/2010	FP180
K265	FP151	3/4/2008	M	695B244	21	Unknown		
K266	FP140	5/2/2008	M	00063DF3C8	7	FP154		
K267	FP140	5/2/2008	M	00063DEAA1	7	FP154		
K268	FP162	5/23/2008	F	dead not marked	14	FP138		
K269	FP162	5/23/2008	M	dead not marked	14	FP138		
K270	FP158	6/7/2008	F	6435FEC	14-17	FP146		
K271	FP158	6/7/2008	M	6435381	14-17	FP146		
K272	FP158	6/7/2008	M	642652B	14-17	FP146		
K273	FP158	6/7/2008	M	643824C	14-17	FP146		
K274	FP153	7/20/2008	F	695849E	14	Unknown		
K275	FP153	7/20/2008	M	695ACE5	14	Unknown		
K276	FP153	7/20/2008	M	6958EAA	14	Unknown		
K277	FP161	2/25/2009	M	698B098	16	Unknown		
K278	FP161	2/25/2009	M	69581FC	16	Unknown		
K279	FP161	2/25/2009	F	6959939	16	Unknown	3/1/2010	FP182
K280	FP162	5/7/2009	F	695AOB3	25-27	Unknown		
K281	FP153	7/8/2009	M	671F728	30	Unknown		

<b>Kitten ID</b>	<b>Dam ID</b>	<b>Date marked</b>	<b>Sex</b>	<b>Transponder ID</b>	<b>Estimated age in days</b>	<b>Purported field sire</b>	<b>Date collared</b>	<b>Eventual panther ID</b>
K282	FP153	7/8/2009	M	6958DCD	30	Unknown		
K283	FP168	7/21/2009	M	0006483E5C	7	Unknown		
K284	FP168	7/21/2009	M	0006434DB7	7	Unknown		
K285	FP170	7/28/2009	M	00063DF972	22	Unknown		
K286	FP170	7/28/2009	M	00063DE7FC	22	Unknown		
K287	FP170	7/28/2009	F	000600E52E	22	Unknown	2/28/2011	FP192
K288	FP172	2/20/2010	M	00063DDEB6	15	Unknown		
K289	FP172	2/20/2010	M	0006435874	15	Unknown		
K290	FP172	2/20/2010	M	0006436050	15	Unknown		
K291	FP145	2/25/2010	F	00069577CI	28	Unknown		
K292	FP145	2/25/2010	M	000695BO19	28	Unknown		
K293	FP145	2/25/2010	F	00067214F1	28	Unknown		
K294	FP162	3/23/2010	M	6957879	14	FP133		
K295	FP162	3/23/2010	F	695A869	14	FP133		
K296	FP162	3/23/2010	F	695A5CF	14	FP133		
K297	FP148	4/13/2010	F	00063DFB49	14	Unknown		
K298	FP148	4/13/2010	F	0006436575	14	Unknown		
K299	FP148	4/13/2010	M	0006435550	14	Unknown		
K300	FP161	5/26/2010	M	000695AD83	16	Unknown		
K301	FP161	5/26/2010	F	0006723CE4	16	Unknown		
K302	FP161	5/26/2010	F	000695B151	16	Unknown		
K303	FP102	6/6/2010	M	0006958363	21	Unknown		
K304	FP102	6/6/2010	M	000695A272	21	Unknown	11/29/2011	FP194
K305	FP178	6/22/2010	M	0006434D2E	14-17	Unknown		
K306	FP178	6/22/2010	M	000643461A	14-17	Unknown		
K307	FP113	7/15/2010	F	0001EFF852	5-7	Unknown		
K308	FP113	7/15/2010	M	000643352E	5-7	Unknown		
K309	FP113	7/15/2010	F	0006439939	5-7	Unknown		
K310	FP175	8/2/2010	F	0006959F9E	18	Unknown		

<b>Kitten ID</b>	<b>Dam ID</b>	<b>Date marked</b>	<b>Sex</b>	<b>Transponder ID</b>	<b>Estimated age in days</b>	<b>Purported field sire</b>	<b>Date collared</b>	<b>Eventual panther ID</b>
K311	FP175	8/2/2010	F	0006959B00	18	Unknown		
K312	FP110	8/4/2010	F	0006436660	10-12	Unknown		
K313	FP110	8/4/2010	F	00063DCB00	10-12	Unknown		
K314	FP110	8/4/2010	M	00064359C2	10-12	Unknown		
K315	FP148	1/17/2011	M	0006433EE1	12	Unknown		
K316	FP148	1/17/2011	M	0006437C54	12	Unknown		
K317	FP178	1/27/2011	M	0006436F25	12-14	Unknown		
K318	FP178	1/27/2011	M	00063DECC8	12-14	Unknown		
K319	FP175	1/27/2011	M	0006959F88	21	Unknown		
K320	FP175	1/27/2011	F	000695A8A8	21	Unknown		
K321	FP113	3/9/2011	M	00063460F7	21	Unknown		
K322	FP162	4/15/2011	F	0006959680	19	Unknown		
K323	FP162	4/15/2011	M	000695A73E	19	Unknown		
K324	FP162	4/15/2011	M	0006959FC4	19	Unknown		
K325	FP162	4/15/2011	M	000695A29B	19	Unknown		
K326	FP184	4/26/2011	M	0006483D1B	12	Unknown		
K327	FP184	4/26/2011	M	00064DB286	12	Unknown		
K328	FP184	4/26/2011	F	000631C890	12	Unknown		
K329	FP184	4/26/2011	M	000647B1C4	12	Unknown		
K330	FP182	4/29/2011	M	0006959053	14	Unknown		
K331	FP182	4/29/2011	M	000695823A	14	Unknown		
K332	FP182	4/29/2011	F	0006957B55	14	Unknown		
K333	FP182	4/29/2011	M	0006958665	14	Unknown		
K334	FP188	5/26/2011	F	0001D3E191T	18	Unknown	1/31/2013	FP219
K335	FP188	5/26/2011	M	00012AA1A2	18	Unknown	4/3/2013	FP223
K336	FP188	5/26/2011	M	0001E2E62ET	18	Unknown		
K337	FP145	6/9/2011	M	00069584D5	12	Unknown		
K338	FP145	6/9/2011	F	000695B041	12	Unknown		
K339	FP145	6/9/2011	F	00069580FE	12	Unknown		

<b>Kitten ID</b>	<b>Dam ID</b>	<b>Date marked</b>	<b>Sex</b>	<b>Transponder ID</b>	<b>Estimated age in days</b>	<b>Purported field sire</b>	<b>Date collared</b>	<b>Eventual panther ID</b>
K340	FP151	6/10/2011	F	000695B062	21	FP187		
K341	FP151	6/10/2011	M	0006957B2E	21	FP187		
K342	FP113	8/7/2011	F	000631A606	25	Unknown		
K343	FP110	12/15/2011	F	000631FC2A	10-14	Unknown		
K344	FP110	12/15/2011	F	0006321ECF	10-14	Unknown		
K345	FP145	2/16/2012	M	000695AFBA	24	Unknown		
K346	FP145	2/16/2012	F	000695A522	24	Unknown		
K347	FP145	2/16/2012	M	0006958FF1	24	Unknown		
K348	FP153	2/19/2012	M	000695ACD5	9	Unknown		
K349	FP153	2/19/2012	M	00066957F4D	9	Unknown		
K350	FP153	2/19/2012	M	000695A8EO	9	Unknown		
K351	FP153	2/19/2012	M	0006959029	9	Unknown		
K352	FP195	3/3/2012	M	0006328CF1	12	Unknown		
K353	FP191	3/28/2012	M	0007136AE7	14	Unknown		
K354	FP192	4/15/2012	M	0007138FD0	21	Unknown		
K355	FP192	4/15/2012	M	0007135EE2	21	Unknown		
K356	FP192	4/15/2012	M	000713972D	21	Unknown		
K357	FP161	4/25/2012	F	0007136CC3	14	Unknown		
K358	FP161	4/25/2012	M	000695ABF6	14	Unknown		
K359	FP161	4/25/2012	M	0006958D4E	14	Unknown		
K360	FP161	4/25/2012	F	0007136DC5	14	Unknown		
K361	FP190	5/14/2012	F	0007138138	20	Unknown		
K362	FP190	5/14/2012	M	0007136F0C	20	Unknown		
K363	FP190	5/14/2012	F	00071368E2	20	Unknown		
K364	FP213	6/5/2012	M	00063DFC55	6	Unknown		
K365	FP213	6/5/2012	F	00063DD656	6	Unknown		
K366	FP213	6/5/2012	M	0006319AC9	6	Unknown		
K367	FP162	6/26/2012	M	000695B179	22	FP187		
K368	FP162	6/26/2012	F	0006E37AD8	22	FP187		

<b>Kitten ID</b>	<b>Dam ID</b>	<b>Date marked</b>	<b>Sex</b>	<b>Transponder ID</b>	<b>Estimated age in days</b>	<b>Purported field sire</b>	<b>Date collared</b>	<b>Eventual panther ID</b>
K369	FP178	7/7/2012	F	0006F3DB0E	20	unknown		
K370	FP178	7/7/2012	F	0006E758B9	20	unknown		
K371	FP178	7/7/2012	F	0006E7713A	20	unknown		
K372	FP191	7/11/2012	F	0007138363	14	FP187		
K373	FP175	7/18/2012	F	0006F3D4BC	14	unknown		
K374	FP175	7/18/2012	M	0006F3E3A0	14	unknown		
K375	FP175	7/18/2012	M	0006E7876A	14	unknown		
K376	FP180	8/6/2012	M	0006E3AF4C	18	unknown		
K377	FP180	8/6/2012	M	0007136BD2	18	unknown		
K378	FP180	8/6/2012	M	0007137F02	18	unknown		
K379	FP198	10/9/2012	M	0006F3F8DC	12	FP197		
K380	FP198	10/9/2012	M	0006EE4539	12	FP197		
K381	FP198	10/9/2012	M	0006E78830	12	FP197		
K382	FP198	10/9/2012	F	0006E76595	12	FP197		
K383	FP161	12/11/2012	M	0006959E24	16	unknown		
K384	FP161	12/11/2012	F	0006E373C9	16	unknown		
K385	FP151	1/2/2013	F	000695A4ED	17	unknown	2/18/2015	FP240
K386	FP151	1/2/2013	F	000695830A	17	unknown		
K387	FP192	2/26/2013	M	0007138FC0	19	unknown		
K388	FP192	2/26/2013	M	0006957EEB	19	unknown		
K389	FP148	3/10/2013	M	0006F3D86E	18	unknown		
K390	FP148	3/10/2013	F	0006E7807F	18	unknown		
K391	FP148	3/10/2013	F	0006EE3A7F	18	unknown		
K392	FP215	3/21/2013	F	0006E777C2	13	unknown		
K393	FP215	3/21/2013	F	0006E76F0F	13	unknown		
K394	FP218	5/23/2013	M	0006E766AC	14	unknown		
K395	FP218	5/23/2013	M	0006EE21A2	14	unknown		
K396	FP218	5/23/2013	F	0006F3FA62	14	unknown		
K397	FP218	5/23/2013	F	0006E75162	14	unknown		

<b>Kitten ID</b>	<b>Dam ID</b>	<b>Date marked</b>	<b>Sex</b>	<b>Transponder ID</b>	<b>Estimated age in days</b>	<b>Purported field sire</b>	<b>Date collared</b>	<b>Eventual panther ID</b>
K398	FP219	6/22/2013	F	0006E75AD7	30	unknown		
K399	FP213	9/10/2013	F	0006F3C3B4	21	unknown		
K400	FP213	9/10/2013	M	0006F3D29F	21	unknown		
K401	FP199	9/28/2013	F	0006E75E37	21	unknown		
K402	FP199	9/28/2013	M	0006E7833D	21	unknown		
K403	FP198	12/11/2013	F	0006F3D86D	18-20	159		
K404	FP198	12/11/2013	M	0006327768	18-20	159		
K405	FP198	12/11/2013	M	0001D278E9	18-20	159		
K406	FP220	3/13/2014	F	0006959321	21+	unknown		
K407	FP220	3/13/2014	M	0006959907	21+	unknown		
K408	FP220	3/13/2014	F	0007136A30	21+	unknown		
K409	FP178	3/22/2014	F	0006E752BD	17	unknown		
K410	FP178	3/22/2014	M	0006E75237	17	unknown		
K411	FP215	3/29/2014	M	0006E7740A	21	unknown		
K412	FP215	3/29/2014	F	0006E759F2	21	unknown		
K413	FP162	4/10/2014	M	00071386E3	28-35	unknown		
K414	FP162	4/10/2014	F	00071396F8	28-35	unknown		
K415	FP162	4/10/2014	M	0006E398E0	28-35	unknown		
K416	FP217	4/15/2014	F	0006F3DB91	6	unknown		
K417	FP217	4/15/2014	M	00066E75239	6	unknown		
K418	FP213	4/30/2014	F	0006EE38CC	21	unknown		
K419	FP213	4/30/2014	M	0006E75165	21	unknown		
K420	FP213	4/30/2014	F	0006E75309	21	unknown		
K421	FP229	5/7/2014	M	0006E7870C	14	unknown		
K422	FP229	5/7/2014	M	0006F3F496	14	unknown		
K423	FP229	5/7/2014	F	0006E7577A	14	unknown		
K424	FP221	5/31/2014	M	00069599FB	14	unknown		
K425	FP221	5/31/2014	M	0007135E88	14	unknown		
K426	FP222	6/24/2014	M	0006DE76D4	9	unknown		

<b>Kitten ID</b>	<b>Dam ID</b>	<b>Date marked</b>	<b>Sex</b>	<b>Transponder ID</b>	<b>Estimated age in days</b>	<b>Purported field sire</b>	<b>Date collared</b>	<b>Eventual panther ID</b>
K427	FP222	6/24/2014	F	0006E7796A	9	unknown		
K428	FP222	6/24/2014	F	0006DE5FB4	9	unknown		
K429	FP162	8/17/2014	M	0006957D11	12	unknown		
K430	FP162	8/17/2014	M	00071386FA	12	unknown		
K431	FP162	8/17/2014	F	0007138A25	12	unknown		
K432	FP219	9/22/2014	F	0006EE2F81	23	unknown		
K433	FP219	9/22/2014	F	0006F3FCOE	23	unknown		
K434	FP219	9/22/2014	F	0006E7DCDC	23	unknown		
K435	FP226	10/12/2014	F	0006E75367	12	FP177		
K436	FP226	10/12/2014	F	0006E77032	12	FP177		
K437	FP224	2/1/2015	M	0006E773F9	17	unknown		
K438	FP224	2/1/2015	M	0006EE1F04	17	unknown		
K439	FP224	2/1/2015	F	0006DE7DD9	17	unknown		
K440	FP224	2/1/2015	M	0006EE4A0B	17	unknown		
K441	FP192	3/23/2015	M	00074FFB31	18	unknown		
K442	FP192	3/23/2015	M	000728A80A	18	unknown		
K443	FP240	6/10/2015	F	00071366D8	12	FP187		
K444	FP240	6/12/2015	M	0007137658	14	FP187		
K445	FP240	6/12/2015	M	0007135F8F	14	FP187		
K446	FP199	6/12/2015	M	0006E78648	21	unknown		
K447	FP199	6/12/2015	M	0006E77B7E	21	unknown		
K448	FP180	9/17/2015	F	000728885D	19	unknown		
K449	FP180	9/17/2015	M	0006E3B8D0	19	unknown		
K450	FP198	10/28/2015	F	0006E75DB5	11	unknown		
K451	FP198	10/28/2015	M	0006E7672F	11	unknown		
K452	FP214	3/3/2016	M	00074F8594	20	unknown		
K453	FP214	3/3/2016	M	00071371B1	20	unknown		
K454	FP185	3/9/2016	F	0006DE7EDE	12	unknown		
K455	FP185	3/9/2016	F	0006E78822	12	unknown		

<b>Kitten ID</b>	<b>Dam ID</b>	<b>Date marked</b>	<b>Sex</b>	<b>Transponder ID</b>	<b>Estimated age in days</b>	<b>Purported field sire</b>	<b>Date collared</b>	<b>Eventual panther ID</b>
K456	FP185	3/9/2016	F	0006E771CB	12	unknown		
K457	FP221	3/27/2016	M	00071364A3	25	unknown		
K458	FP221	3/27/2016	M	0007136044	25	unknown		
K459	FP180	5/2/2016	F	00072838B8	14	unknown		
K460	FP180	5/2/2016	F	000728E7C8	14	unknown		
K461	FP180	5/2/2016	F	00072875A0	14	unknown		
K462	FP195	5/10/2016	M	0006E7759A	40	unknown		
K463	FP224	10/5/2016	M	0006E7774B	12	unknown		
K464	FP224	10/5/2016	F	0006F3EE4D	12	unknown		
K465	FP224	10/5/2016	F	0006E7796C	12	unknown		
K466	FP214	1/18/2017	M	0006E372BC	21	unknown		
K467	FP214	1/18/2017	M	0007136CF1	21	unknown		
K468	FP247	4/13/2017	F	0006EE357D	10	unknown		
K469	FP247	4/13/2017	M	0006E7568C	10	unknown		
K470	FP247	4/13/2017	M	0006EE23A4	10	unknown		
K471	FP199	4/25/2017	F	0006EE2125	8	unknown		
K472	FP199	4/25/2017	F	0006E78ADA	8	unknown		
K473	FP199	4/25/2017	M	0006EE4C2B	8	unknown		
K474	FP224	6/16/2017	M	0006E7647F	17	unknown		
K475	FP224	6/16/2017	F	982000406136604	17	unknown	4/10/2018	FP251
K476	FP224	6/16/2017	M	982000406139337	17	unknown	4/10/2018	FP252
K477	FP220	6/22/2017	M	00072A4331	12	unknown		
K478	FP220	6/22/2017	F	00074EFFC5	12	unknown		
K479	FP220	6/22/2017	M	000728A726	12	unknown		
K480	FP220	6/22/2017	F	0007283EDC	12	unknown		
K481	FP239	8/19/2017	F	00075802B7	28	unknown		
K482	FP239	8/19/2017	M	00075A5AB8	28	unknown		
K483	FP247	10/14/2017	F	982.000406136536	23	unknown		
K484	FP247	10/14/2017	M	982.000406137064	23	unknown		

<b>Kitten ID</b>	<b>Dam ID</b>	<b>Date marked</b>	<b>Sex</b>	<b>Transponder ID</b>	<b>Estimated age in days</b>	<b>Purported field sire</b>	<b>Date collared</b>	<b>Eventual panther ID</b>
K485	FP220	3/19/2018	F	00075A5046	29	unknown		
K486	FP220	3/19/2018	M	0007283B8E	29	unknown		
K487	FP220	3/19/2018	F	0007136BB2	29	unknown		
K488	FP246	6/16/2018	F	982.000406135664	26	unknown		
K489	FP246	6/16/2018	M	982.000406137233	26	unknown		
K490	FP246	6/16/2018	M	982.000406137374	26	unknown		

<sup>a</sup> The remains of a sibling to K24-26 were found at the den site. Condition of the carcass made sex identification impossible.

<sup>b</sup> This kitten was not observed or marked at the den, but was captured at the carcass of the dam on 2/5/1998. Eventually released into the wild as FP69.

<sup>c</sup> This kitten was not observed or marked at the den, but was captured near FP48 and collared as FP75 on 1/11/1999. Reunited with FP48 the following day.

<sup>d</sup> FP95 was observed with 2 kittens from the air on 1/2, 3/31, and 4/1/2003, verifying that at least 1 littermate of K112 was not recorded on 4/21/2002.

Appendix III. List of all known dens of radiocollared female Florida panthers and Texas pumas in southern Florida from June 1985 to June 2018.

Kitten numbers preceded with “K” indicate natal den was visited. Samples are ordered by female ID and secondarily by year. Data collected by FWC and BCNP.

Panther ID	Den date	Location <sup>a</sup>	Habitat	Minimum number of kittens at den	Kittens handled	Purported field sire
FP009	Jun-1985	S Golden Gate Estates	Unknown	1	FP10♂ den not visited	Unknown
FP009	Jun-1987	FSPSP	Hardwood hammock	1	den not visited	FP12
FP009	May-1989	FSPSP	Mixed swamp	Unknown	den not visited	Unknown
FP009	Jul-1990	FSPSP	Mixed swamp	2	FP202♂, FP203♂ den not visited	FP37
FP009	Jun-1993	FSPSP	Hardwood hammock	Unknown	den not visited	FP51
FP011	May-1986	BCNP - Bear Island	Pine/palmetto	3	FP19♀ den not visited	FP12
FP011	May-1988	BCNP - Bear Island	Pine/palmetto	1	FP29♂ den not visited	FP20
FP011	Apr-1990	BCNP - Bear Island	Palmetto/oaks	1	♀(roadkill) den not visited	FP12
FP011	Jul-1991	Price's	Unknown	1	FP47♂ den not visited	FP12
FP011	Mar-1993	BCNP - Bear Island	Unknown	Unknown	den not visited	FP12
FP014	Apr-1989	Long Pine Key	Pine/palmetto	2	FP42♂, den not visited	FP16
FP014	Mar-1991	Long Pine Key	Pine/palmetto	Unknown	den not visited	FP16
FP015	May-1988	Long Pine Key	Vines/ferns	Unknown	den not visited	FP16
FP019	Mar-1988	Price's	Pine/palmetto	4	FP30♂ den not visited	FP13
FP019	Jul-1989	FPNWR	Palmetto, myrtle	1	FP43♂ den not visited	FP12
FP019	Nov-1990	Rock Spring Island	Pine/palmetto	2	FP205♀, FP45♂ den not visited	FP12
FP019	Mar-1992	NE Hog Pond	Pine/palmetto	2	UCFP21♀, FP53♂ den not visited	FP12
FP019	May-1994	FPNWR	Mixed swamp	2	K12♀, K13♀	FP51
FP019	Mar-1996	Barfield's	Cypress swamp	2	K27♀, K28♀	FP54, FP51
FP023	Aug-1992	SBCNP-Raccoon Point	Pine/palmetto	2	FP209♀, FP210♂	FP42
FP023	Dec-1992	SBCNP-Raccoon Point	Pine/palmetto	1	FP55♀ den not visited	FP42
FP031	Mar-1989	Catherine Island	Pine/palmetto	3	FP34♂, FP35♂ den not visited	FP12
FP031	Jul-1990	Regency Farms	Palmetto/myrtle	2	FP201♂, FP204♀ den not visited	FP12
FP031	Sep-1991	Barfield's	Palmetto	2	FP48♀, FP52♀ den not visited	FP12
FP032	Mar-1989	Catherine Island	Pine/palmetto	Unknown	den not visited	Unknown
FP032	May-1992	FPNWR	Palmetto	1	FP208♀	FP12
FP032	Mar-1996	FPNWR	Pine/palmetto	1	UCFP24 (Dead ♀)	Unknown
FP036	Mar-1990	BCSIR	Pine/palmetto	Unknown	den not visited	Unknown
FP036	May-1991	BCNP - Addition Lands	Palmetto	2	FP207♂, FP50♂ den not visited	FP26

Panther ID	Den date	Location <sup>a</sup>	Habitat	Minimum number of kittens at den	Kittens handled	Purported field sire
FP036	Oct-1993	N of BCSIR	Pine/palmetto	1	den not visited	FP26, FP34
FP036	Jun-1995	Canoe Lake Strand	Mixed swamp	Unknown	den not visited	FP45
FP036	Jan-1996	Wilson Cypress	Hardwood hammock	4	K24♀,K25♂,K26♂,UCFP44	FP45
FP040	Nov-1990	BCNP-Baker's Grade	Hardwood/Schinus	2	FP206♀, FP44♂ den not visited	FP26
FP040	Mar-1992	BCNP-Baker's Grade	Pine/palmetto	2	FP54♂, K02♂	FP28
FP040	May-1993	BCNP-Baker's Grade	Cypress, cabbage	3	K03♂,K04♀,K05♀	FP26
FP040	Apr-1997	BCNP - Addition Lands	Pine/palmetto	2	FP69♀, K37♂	FP45
FP040	Sep-1995 <sup>b</sup>	Unknown	Unknown	1	FP60♂, ♀ tracks, den not visited	Unknown
FP048	Oct-1993	BCNP - Bear Island	Palmetto	3	K06♂,K07♀,K08♀	FP12
FP048	Jun-1995	Dozier Hammock	Palmetto	2	FP59♂,K17♀	Unknown
FP048	Sep-1996	NE Doctor's Hammock	Pine/palmetto	3	FP62♂,FP64♂,UCFP50♂	Unknown
FP048	Jun-1998	BCNP - Bear Island	Pine/palmetto	2	K51♂, FP75♀	FP68 or FP45
FP048	Oct-1999	BCNP - Bear Island	Pine/palmetto	2	K74♀, K75♀( abandoned)	FP63 or FP68
FP049	Jan-1999	BCNP - Addition Lands	Unknown	1	K55♂	Unknown
FP049	Aug-2001	BCNP - Addition Lands	Unknown	1	K107♂	Unknown
FP052	Jul-1993	Sadie Cypress	Palmetto	2	UCFP23♂ (roadkill) den not visited	FP46
FP052	Jul-1994	Sadie Cypress	Hardwood hammock	Unknown	den not visited	Unknown
FP055	Apr-1995	BCNP	Pine/palmetto	2	K14♀,K15♀	FP42
FP055	Sep-1997	SBCNP - N Burns Lake	Palmetto	1	K44♂	Unknown
FP055	Feb-1998	SBCNP - N Monument Lake	Palmetto	3	FP102♀,K49♀,K50♂	Unknown
FP055	Apr-1999	BCNP	Palmetto	2	FP87♀, K61♂	Unknown
FP055	Jun-2001	SBCNP - NE Airplane Prairie	Palmetto	1	K104♂	FP79
FP055	May-2002	BCNP	Pine/palmetto	1	K127♀	FP79
FP055	Sep-2003	BCNP	Pine/cabbage	Unknown	den not visited	Unknown
FP056	Apr-1994	BCNP-Baker's Grade	Pine/palmetto	3	K09♂,K10♀,K11♂	Unknown
FP056	Oct-1995	North BCSIR	Sawgrass marsh	3	K20♂,K21♂,K22♂	FP45
FP056	Jul-1996	North BCSIR	Fern bed	2	K29♀?,K30♀	FP45
FP056	May-1997	BCNP-Baker's Grade	Unknown	4	K40♂,K41♀,K43♂, FP67♀	FP45
FP057	Jun-1998	FSPSP	Palmetto	Unknown	den not visited	FP54
FP061	Mar-1999	Long Pine Key	Pine/palm	1	FP85♂	FP16
FP061	Sep-2002	EVER - East	Sawgrass marsh	4	K139♀, K140♂, K141♂, K142♀	Unknown
FP066	Sep-1998	Belle Meade	Palmetto	3	K52♂,K53♀,K54♂	FP72
FP066	Dec-1999	Private lands	Hardwood hammock	3	K76♂,K77♀,K78♀	FP60
FP067	Aug-2000	Private lands	Pine/palmetto	2	K84♂, K85♀	Unknown
FP067	May-2001	Private lands	Hardwood hammock	4	K98♀,K99♂,K100♂, K101♂	Unknown

<b>Panther ID</b>	<b>Den date</b>	<b>Location<sup>a</sup></b>	<b>Habitat</b>	<b>Minimum number of kittens at den</b>	<b>Kittens handled</b>	<b>Purported field sire</b>
FP067	Jun-2002	Private lands	Brazilian pepper	3	FP116♀, K133♂, K134♂	Unknown
FP069	Jul-1999	BCNP - NE of Baker's Camp	Hardwood hammock	3	K71♂, K72♀, K73♀	Unknown
FP070	Jun-1999	SBCNP-NE of Monument Lk	Pine/palmetto	3	FP88♀, FP92♂, FP91♀	FP79
FP070	May-2004	SBCNP - Turner River Unit	Palmetto/vines	3	K167♀, K168♂, FP161♀	Unknown
FP071	Jun-1999	BCNP	Mixed swamp	4	FP90♂, FP86♀, K69♂, K70♀	FP79
FP073	Aug-1997 <sup>c</sup>	BCSIR	Unknown	1	FP74♂ den not visited	Unknown
FP073	Feb-1999	BCSIR	Pine/palmetto	1	FP84♂ den not visited	Unknown
FP073	Feb-2002	BCNP - Addition Lands	Pine/palmetto	3	K109♂, K110♂, K111♀	Unknown
FP075	Apr-2000	Private lands	Hardwood hammock	Unknown	den not visited	Unknown
FP075	Jun-2001	NBCNP - Bear Island	Pine/palmetto	2	K102♂, K103♂	FP59
FP075	May-2002	NBCNP - Bear Island	Pine/palmetto	2	K128♂, K129♂	FP98, FP100
FP075	Mar-2004	NBCNP - Bear Island	Pine/palmetto	3	K157♂, K158♂, K159♀	Unknown
FP075	Aug-2005	NBCNP - Bear Island	Hardwood hammock	4	K192♂, K193♀, K194♀, K195♂	FP135
FP077	May-2000	BCNP - Addition Lands	Palmetto/vines	3	K81♂, K82♀, K83♂	Unknown
FP077	Aug-2001	BCNP - Addition Lands	Pine/palmetto	1	K108♂	Unknown
FP078	Apr-2000	FPNWR	Palmetto/oak	2	FP107♀, FP96♂	FP59
FP078	Apr-2002	FPNWR	Palmetto	4	K117♀, K118♀, K119♀, K120♂	FP59
FP082	Dec-2000	OSSF	Unknown	3	K86♀, K87♀, K88♂	FP65
FP083	Apr-2002	FSPSP	Pine/palmetto	1	K123♂	Unknown
FP083	Jun-2004	FSPSP	Pine/palmetto	Unknown	den not visited	Unknown
FP087	Jan-2001	SBCNP	Pine/palmetto	3	K89♀, FP108♂, K91♂	FP79
FP087	Mar-2003	SBCNP - N of Oasis	Pine/palmetto	3	K143♀, K144♂, K145♀	FP79
FP088	May-2001	SBCNP - Loop Unit	Cypress/ferns	4	K94♂, K95♀, K96♂, K97♀	Unknown
FP093	Apr-2002	SBCNP - Turner River Unit	Pine/palmetto	4	FP151♀, K114♀, FP119♂, K116♀	FP79
FP093	Jul-2003	SBCNP - Turner River Unit	Hardwood hammock	3	FP150♀, K153♂, K154♂	FP60
FP093	Jun-2006	SBCNP - Turner River Unit	Tropical hardwood	3	K211♀, K212♀, K213♀	FP133
FP093	Feb-2007	SBCNP - Turner River Unit	Pine/palmetto	3	K226♂, FP163♂, FP220♀	Unknown
FP094	Jun-2006	EVER - CIA hammock	Hardwood hammock	3	K205♀, K206♂, K207♀	Unknown
FP095	Mar-2002	EVER - Long Pine Key	Pine/palmetto	1	K112♀	FP85
FP095	Jun-2006	EVER - Long Pine Key	Hardwood/palmetto	3	K214♀, K215♀, K216♂	Unknown
FP101	Apr-2002	BCSIR	Pine/palmetto	2	K121♂, K122♀	Unknown
FP101	Apr-2003	Private lands	Pine/palmetto	3	K146♀, K147♂, K148♀	FP65/FP100
FP102	Jun-2001	SBCNP - Monument Lake	Pine/palmetto	2	K105♂, K106♂	FP79
FP102	Jul-2002	SBCNP - Monument Lake	Hardwood hammock	2	K137♀, K138♂	FP79
FP102	Jul-2004	SBCNP - Burns Lake	Hardwood hammock	3	K170♀, K171♂, K172♀	FP79

<b>Panther ID</b>	<b>Den date</b>	<b>Location<sup>a</sup></b>	<b>Habitat</b>	<b>Minimum number of kittens at den</b>	<b>Kittens handled</b>	<b>Purported field sire</b>
FP102	Jun-2006	SBCNP - Turner River Unit	Hardwood hammock	2	K217♂, K218♂	FP138
FP102	Jun-2010	SBCNP	Pine/palmetto	2	K303♂, K304♂	Unknown
FP103	Apr-2007	SBCNP - Corn Dance	Hardwood hammock	3	K236♀, K237♀, K238♂	FP127
FP106	May-2002	FPNWR	Hardwood hammock	3	K124♀, K125♂, K126♂	Unknown
FP107	Jun-2002	FPNWR	Hardwood hammock	2	K135♂, K136♀	Unknown
FP107	May-2004	FPNWR	Hardwood hammock	4	K163♂, K164♂, K165♀, K166♀	Unknown
FP107	Mar-2005	FPNWR	Hardwood hammock	2	K180♀, K181♀	FP119, FP131
FP107	Feb-2006	FPNWR	Pine/palmetto	2	K200♀, K201♂	FP131
FP107	Apr-2007	FPNWR - Rock Island	Pine/palmetto	3	K247♀, K248♂, K249♀	Unknown
FP107	Sep-2007	FPNWR	Pine/palmetto	3	K261♂, K262♂, K263♂	Unknown
FP110	May-2003	OSSF	Pine/palmetto	3	K149♀, K150♂, K151♀	Unknown
FP110	Feb-2005	OSSF	Pine/palmetto	2	K178♂, K179♀	Unknown
FP110	Nov-2005	OSSF	Hardwood hammock	4	K196♂, K197♂, K198♂, K199♀	Unknown
FP110	Mar-2007	OSSF	Pine/palmetto	4	K229♀, K230♂, K231♀, K232♂	FP137
FP110	Aug-2007	OSSF	Hardwood hammock	2	K257♂, K258♂	Unknown
FP110	Nov-2007	OSSF-Dog Island	Palmetto	Unknown	den not visited	Unknown
FP110	Aug-2010	OSSF	Palmetto	3	K312♀, K313♀, K314♂	Unknown
FP110	Dec-2011	OSSF	Pine/palmetto	2	K343♀, K344♀	Unknown
FP112	Jun-2002	NBCNP - Bear Island	Pine/palmetto	2	K130♂, K131♂	FP98, FP100
FP113	Aug-2004	FPNWR	Pine/palmetto	Unknown	UCFP67	Unknown
FP113	Apr-2005	FPNWR	Pine/palmetto	2	K185♀, K186♀	FP131, FP133
FP113	Mar-2007	FPNWR	Hardwood hammock	3	K233♀, K234♂, K235♂	FP119
FP113	Apr-2009 <sup>d</sup>	FPNWR	Unknown	1	1 kitten via remote camera	Unknown
FP113	Jul-2010	Barron Collier, N. of FPNWR	Pine Palmetto	3	K307♀, K308♂, K309♀	Unknown
FP113	Mar-2011	Barron Collier, N. of FPNWR	Pine Palmetto	1	K321♂	Unknown
FP113	Aug-2011	Barron Collier, N. of FPNWR	Pine Palmetto	1	K342♀	Unknown
FP116	Apr-2004	Hendry Co. Gum Swamp	Hardwood hammock	3	K160♀, K161♀, K162♂	FP65
FP116	May-2005	NBCNP- Addition Lands	Pine/palmetto	3	K187♂, K188♀, K189♂	Unknown
FP120	Jan-2004	SBCNP - Turner River Unit	Pine/palmetto	2	K155♀, K156♂	Unknown
FP121	Aug-2004	BCSIR	Pine/palmetto	1	K173♀	Unknown
FP121	Feb-2006	BCSIR	Pine/palmetto	3	K202♀, K203♂, K204♂	Unknown
FP124	Sep-2004	SBCNP - Stairsteps	Pine/palmetto	1	K174♂	Unknown
FP124	Jan-2005	SBCNP - Pinecrest	Pine/palmetto	3	K175♂, K176♂, K177♀	Unknown
FP124	Feb-2007	SBCNP - Stairsteps	Cypress/hardwood	2	K224♂, K225♂	Unknown
FP128	Jun-2005	BCSIR	Pine/palmetto	2	K190♂, K191♂	Unknown

<b>Panther ID</b>	<b>Den date</b>	<b>Location<sup>a</sup></b>	<b>Habitat</b>	<b>Minimum number of kittens at den</b>	<b>Kittens handled</b>	<b>Purported field sire</b>
FP128	May-2007	Stirelli property - Add Lands	Palmetto/fern	3	K250♂, K252♂, K252♀	Unknown
FP129	Apr-2005	SBCNP- Corn Dance	Unknown	3	K182♀, K183♂, K184♂	Unknown
FP140	Nov-2006	FPNWR	Hardwood hammock	2	K219♀, K220♂	FP119
FP140	May-2008	FPNWR	Cypress/ferns	2	K266♂, K267♂	FP154
FP145	Jun-2006	SBCNP -Deep Lake	Pine/palmetto	3	K208♀, K209♀, K210♀	FP138
FP145	Apr-2007	SBCNP - Deep Lake	Hardwood hammock	3	K244♂, K245♂, K246♀	FP133
FP145	Feb-2010	SBCNP	Palmetto	3	K291♀, K292♂, K293♀	Unknown
FP145	Jun-2011	SBCNP	Palmetto	3	K337♂, K338♀, K339♀	Unknown
FP145	Feb-2012	SBCNP- Deep Lake	Hardwood hammock	3	K345♂, K346♀, K347♂	Unknown
FP148	Jan-2007	Belle Meade-PSSF	Palmetto	3	K221♀, K222♂, K223♀	FP146
FP148	Apr-2010	Belle Meade-PSSF	Pine/palmetto	3	K297♀, K298♀, K299♂	Unknown
FP148	Jan-2011	Belle Meade-PSSF	Cypress swamp/ferns	2	K315♂, K316♂	Unknown
FP148	Mar-2013	Belle Meade-PSSF	Cypress swamp/ferns	3	K389♂, K390♀, K391♀	Unknown
FP149	Apr-2007	PSSF	Bracken fern	2	K239♀, K240♀	Unknown
FP150	Jul-2007	SBCNP	Palmetto	4	K253♂, K254♀, K255♀, K256♀	Unknown
FP151	Apr-2007	SBCNP- Turner River	Palmetto	3	K241♂, K242♀, K243♀	Unknown
FP151	Aug-2007	SBCNP	Palmetto	2	K259♂, K260 unknown sex	Unknown
FP151	Mar-2008	SBCNP-Turner River	Palmetto	2	K264♀, K265♂	Unknown
FP151	Jun-2011	SBCNP-Turner River	Palmetto	2	K340♀, K341♂	FP187
FP151	Jan-2013	SBCNP-Turner River	Palmetto	2	K385♀, K386♀	Unknown
FP153	Jul-2008	SBCNP-Turner River	Palmetto	3	K274♀, K275♂, K276♂	Unknown
FP153	Jul-2009	SBCNP	Hardwood hammock	2	K281♂, K282♂	Unknown
FP153	Feb-2012	SBCNP- Turner River	Saw Palmetto	4	K348♂, K349♂, K350♂, K351♂	Unknown
FP158	Jun-2008	CSSP	Pepper/climbing fern	4	K270♀, K271♂, K272♂, K273♂	FP146
FP158	Apr-2010 <sup>e</sup>	PSSF	Pine/palmetto	2	kittens not handled	Unknown
FP160	Oct-2008	Jack-In-The-Box Ranch CREW	Hardwood hammock	Unknown	Den not visited	Unknown
FP161	Feb-2009	SBCNP	Palmetto	3	K277♂, K278♂, K279♀	Unknown
FP161	May-2010	SBCNP	Pine/palmetto	3	K300♂, K301♀, K302♀	Unknown
FP161	Apr-2012	SBCNP-Turner River	Pine/Palmetto	4	K357♀, K358♂, K359♂, K360♀	Unknown
FP161	Dec-2012	SBCNP-Turner River	Pine/palmetto	2	K383♂, K384♀	Unknown
FP162	May-2008	SBCNP-Turner River	Hardwood hammock	2	K268♀, K269♂ (both dead)	FP138
FP162	Apr-2009	SBCNP	Hardwood hammock	1	K280♀	Unknown
FP162	Mar-2010	SBCNP	Hardwood hammock	3	K294♂, K295♀, K296♀	FP133
FP162	Apr-2011	SBCNP	Palmetto	4	K322♀, K323♂, K324♂, K325♂	Unknown
FP162	Jun-2012	SBCNP	Palmetto	2	K367♂, K368♀	FP187

<b>Panther ID</b>	<b>Den date</b>	<b>Location<sup>a</sup></b>	<b>Habitat</b>	<b>Minimum number of kittens at den</b>	<b>Kittens handled</b>	<b>Purported field sire</b>
FP162	Apr-2014	SBCNP	Hardwood hammock	3	K413♂, K414♀, K415♂	Unknown
FP162	Aug-2014	BCNP-Turner River	Palmetto	3	K429♂, K430♂, K431♀	Unknown
FP168	Jul-2009	CREW-Flint Pen	Pine/palmetto/fern	2	K283♂, K284♂	Unknown
FP170	Jul-2009	PSSF	Cabbage Palm/shrub	3	K285♂, K286♂, K287♀	Unknown
FP172	Feb-2010	NBCNP- Addition Lands	Palmetto	3	K288♂, K289♂, K290♂	Unknown
FP175	Aug-2010	NBCNP, Bear Island	Pine/palmetto	2	K310♀, K311♀	Unknown
FP175	Jan-2011	NBCNP, Bear Island	Palmetto/pine scrub	2	K319♂, K320♀	Unknown
FP175	Jul-2012	NBCNP, Bear Island	Hardwood hammock	3	K373♀, K374♂, K375♂	Unknown
FP178	Jun-2010	NBCNP, Bear Island	Pine/palmetto	2	K305♂, K306♂	Unknown
FP178	Jan-2011	NBCNP, Bear Island	Palmetto/oak scrub	2	K317♂, K318♂	Unknown
FP178	Jul-2012	NBCNP, Bear Island	Pine/palmetto	3	K369♀, K370♀, K371♀	Unknown
FP178	Mar-2014	Bear Island, south of E Hinson	Pine/palmetto	2	K409♀, K410♂	Unknown
FP180	Mar-2011 <sup>f</sup>	SBCNP	Unknown	2	den not visited	Unknown
FP180	Aug-2012	SBCNP-Deep Lake Unit	Hardwood/fern	3	K376♂, K377♂, K378♂	Unknown
FP180	Sep-2015	SBCNP-Deep Lake Unit	Saw Palmetto	2	K448♀, K449♂	Unknown
FP180	May-2016	SBCNP-Deep Lake Unit	Palmetto	3	K459♀, K460♀, K461♀	Unknown
FP182	Apr-2011	SBCNP	Hardwood scrub	4	K330♂, K331♂, K332♀, K333♂	Unknown
FP184	Apr-2011	NBCNP, Addition Lands	Saw Palmetto	4	K326♂, K327♂, K328♀, K329♂	Unknown
FP185	Mar-2016	Immokalee Ranch	Palmetto	3	K454♀, K455♀, K456♀	Unknown
FP188	May-2011	Troyer Bros., Lee County	Cypress/ferns	3	K334♀, K335♂, K336♂	Unknown
FP190	May-2012	SBCNP-Raccoon Point	Oak Palmetto	3	K361♀, K362♂, K363♀	Unknown
FP191	Mar-2012	SBCNP- Turner River	Pine Island	1	K353♂	Unknown
FP191	Jul-2012	SBCNP- Turner River	Pine Island	1	K372♀	FP187
FP192	Apr-2012	SBCNP-Corn Dance Unit	Hardwood/Fern	3	K354♂, K355♂, K356♂	Unknown
FP192	Feb-2013	SBCNP-Corn Dance Unit	Pine-Hardwood	2	K387♂, K388♂	Unknown
FP192	Mar-2015	SBCNP-Corn Dance Unit	Pine/palmetto	2	K441♂, K442♂	Unknown
FP195	Mar-2012	PSSF	Pine/palmetto	1	K352♂	Unknown
FP195	Jan-2014	FPNWR	Sawgrass	1	UCFP205♂	Unknown
FP195	Sep-2014 <sup>g</sup>	SE Golden Gate Estates	Hardwood hammock	2	den not visited	Unknown
FP195	Apr-2016	PSSF	Pine cabbage/fern	1	K462♂	Unknown
FP198	Oct-2012	Corkscrew Water Treat Plant	Cogan grass	4	K379♂, K380♂, K381♂, K382♀	FP197
FP198	Dec-2013	LCPA Mitigation Land	Palmetto	3	K403♀, K404♂, K405♂	FP159
FP198	Oct-2015	FL Rock, N of LCPA	Palmetto, Grapevine	2	K450♀, K451♂	Unknown
FP199	Sep-2013	NBCNP - Addlands	Hardwood/fern	2	K401♀, K402♂	Unknown
FP199	Jun-2015	NBCNP- Addlands	Hardwood/fern	2	K446♂, K447♂	Unknown

<b>Panther ID</b>	<b>Den date</b>	<b>Location<sup>a</sup></b>	<b>Habitat</b>	<b>Minimum number of kittens at den</b>	<b>Kittens handled</b>	<b>Purported field sire</b>
FP199	Apr-2017	NBCNP-Addlands	Hardwood/fern	3	K471♀, K472♀, K473♂	Unknown
FP213	Jun-2012	OSSF- 4 Sections	Palmetto	3	K364♂, K365♀, K366♂	Unknown
FP213	Sep-2013	OSSF- 4 Section	Hardwood hammock	2	K399♀, K400♂	Unknown
FP213	Apr-2014	Alico Ranch south of Keri Rd.	Sawgrass	3	K418♀, K419♂, K420♀	Unknown
FP214	Mar-2016	SBCNP-Turner River	Palmetto	2	K452♂, K453♂	Unknown
FP214	Dec-2016	SBCNP-Turner River	Palmetto	2	K466♂, K467♂	Unknown
FP215	Mar-2013	Barron Collier	Pine/palmetto	2	K392♀, K393♀	Unknown
FP215	Mar-2014	Barron Collier	Shrub/brush	2	K411♂, K412♀	Unknown
FP217	Apr-2014	OSSF- 4 Section	Pine/palmetto	2	K416♀, K417♂	Unknown
FP218	May-2013	Alico North of Keri Rd	Palmetto	4	K394♂, K395♂, K396♀, K397♀	Unknown
FP219	Jun-2013	FSPSP	Maple Fern	1	K398♀	Unknown
FP219	Sep-2014	Naples National Golf Course	Pine/palmetto	3	K432♀, K433♀, K434♀	Unknown
FP220	Mar-2014	SBCNP-Turner River	Palmetto	3	K406♀, K407♂, K408♀	Unknown
FP220	Jun-2017	SBCNP-Turner River	Palmetto	4	K477♂, K478♀, K479♂, K480♀	Unknown
FP220	Feb-2018	SBCNP-Turner River	Pine/palmetto	3	K485♀, K486♂, K487♀	Unknown
FP221	May-2014	SBCNP-Turner River	Palmetto	2	K424♂, K425♀	Unknown
FP221	Mar-2016	SBCNP-Turner River	Palmetto	2	K457♂, K458♂	Unknown
FP222	Jun-2014	Barron Collier	Palmetto	3	K426♂, K427♀, K428♀	Unknown
FP224	Feb-2015	North Belle Meade	Pine/palmetto	4	K437♂, K438♂, K439♀, K440♂	Unknown
FP224	Oct-2016	North Belle Meade	Pine/palmetto	3	K463♂, K464♀, K465♀	Unknown
FP224	Jun-2017	North Belle Meade	Pine/palmetto	3	K474♂, K475♀, K476♂	Unknown
FP226	Oct-2014	NBCNP- Addlands	Fern/palmetto	2	K435♀, K436♀	FP177
FP229	May-2014	NBCNP- Addlands	Sawgrass	3	K421♂, K422♂, K423♀	Unknown
FP239	Jul-2017	SBCNP-Turner River	Pine/palmetto	2	K481♀, K482♂	Unknown
FP240	Jun-2015	SBCNP-Turner River	Palmetto	3	K443♀, K444♂, K445♂	FP187
FP246	Jun-2018	Immokalee Ranch	Palmetto	3	K488♀, K489♂, K490♂	Unknown
FP247	Apr-2017	Immokalee Ranch	Agr./exotic grass	3	K468♀, K469♂, K470♂	Unknown
FP247	Oct-2017	Immokalee Ranch	Palmetto	2	K483♀, K484♂	Unknown
TX101	Sep-1995	BCSIR	Pine/palmetto	2	FP73♀, FP79♂	Unknown
TX101	Dec-1996	BCSIR	Palmetto/oak	2	FP65♂, FP66♀	FP45
TX105	Aug-1996	EVER - Long Pine Key	Tropical hardwood	1	K34♀	FP16
TX105	Jul-1999	EVER - Long Pine Key	Brazilian pepper	1	FP94F1♀ den not visited	FP16
TX106	Nov-1995	S Golden Gate Estates	Cypress/mixed	1	K23♀	FP51
TX106	Feb-1998	N Golden Gate Estates	Vines/cabbage	1	K47♂	FP54, FP59
TX106	Jun-1999	PSSF	Cabbage	2	K62♀, FP83♀	FP54

<b>Panther ID</b>	<b>Den date</b>	<b>Location<sup>a</sup></b>	<b>Habitat</b>	<b>Minimum number of kittens at den</b>	<b>Kittens handled</b>	<b>Purported field sire</b>
TX106	Mar-2001	FPNWR	Pine/palmetto	2	K92♀, FP181♂	FP60
TX107	Apr-1997	SBCNP - N of Oasis	Pine/palmetto	2	FP70♀, FP71♀	Unknown
TX107	Feb-1999	SBCNP - N of Buckskin Prairie	Pine/palmetto	3	FP191♀, K57♂, FP93♀	FP79
TX108	Jun-1996	EVER - Long Pine Key	Tropical hardwood	1	FP61♀ den not visited	FP16
TX108	Jan-1998	EVER - Long Pine Key	Tropical hardwood	2	FP95♀, K46♂	FP16

<sup>a</sup>BCNP = Big Cypress National Preserve; BCSIR = Big Cypress Seminole Indian Reservation; CREW = Corkscrew Regional Ecosystem Watershed; CSSP = Collier-Seminole State Park; EVER = Everglades National Park; FPNWR = Florida Panther National Wildlife Refuge; FSPSP = Fakahatchee Strand Preserve State Park; LCPA = Lee County Port Authority Mitigation Area; NBCNP = Big Cypress National Preserve north of Interstate 75; OSSF = Okaloacoochee Slough State Forest; PSSF = Picayune Strand State Forest/Wildlife Management Area; SBCNP = Big Cypress National Preserve south of Interstate 75.

<sup>b</sup>FP40 had lost her collar when her kitten FP60 was captured at 6 months of age on 3/6/96. Den is assumed to have dated to September 1995.

<sup>c</sup>FP73 was marked as a kitten then captured with her 15month old kitten FP74 on 11/12/98. Den is assumed to have dated to August 1997.

<sup>d</sup>FP113 den in April 2009 was not documented by FWC during routine monitoring. A 4 month old kitten was photographed with FP113 on 28 July 2009 via trail camera on FPNWR.

<sup>e</sup>FP158 den in April 2010 was visited by FWC, but kittens were not sampled or marked. This litter subsequently failed with the death of FP158 on 22 May 2010.

<sup>f</sup>FP180 den in March 2011 was not documented by BCNP staff. A visual was obtained of FP180 with two 4 month old kittens on 8 July 2011 during routine aerial telemetry monitoring.

<sup>g</sup>FP195 den in September 2014 was not documented by FWC after repeated attempts at locating the site. Video of FP195 with two kittens crossing under I75 from FPNWR verified litter in June 2015.

Appendix IV. Florida panther and Texas puma mortalities, injuries, and removal to captivity sorted by year through 30 June 2018. Data collected by FWC and BCNP. Ages are estimated unless panthers were handled as kittens at natal dens. Age values are in years unless noted otherwise.

Date	Panther ID	Sex	Age	Location*	Cause
Circa 1940s	UCFP01	U	Unknown	Immokalee, Collier Co.	Preserved skin, skull and bones
Circa 1954	UCFP47	U	Unknown	Rocky Lake, Hendry Co.	Taxidermy pelt from hunted specimen
2/13/1972	UCFP28	M	2 to 3	SR 25 S of Moore Haven	Vehicle
3/8/1978	UCFP02	M	2 to 3	L-28, Dade Co.	Illegally shot
2/1/1979	UCFP03	M	unknown	US 41, Gannet Strand	Unknown
12/23/1979	UCFP04-(G80-4)	F	1.5 to 2.5	SR 29 just N SR 84 (now I-75)	Vehicle
2/7/1980	UCFP05-(G80-15)	M	1.5 to 2.5	SR 29 near Sunniland	Vehicle
4/19/1981	UCFP06-(G81-19)	F	2 to 3	SR 29 near Copeland	Vehicle
4/16/1982	FP06	M	6 to 7	SBCNP	Unknown
1/17/1983	FP03	F	9+	FSSP	Capture
3/18/1983	UCFP09-(G83-22)	M	2 to 3	US 27 Palmdale	Vehicle
5/22/1983	UCFP10	F	adult	L-8 canal near Canal Point, Palm Beach Co.	Illegally shot
11/18/1983	FP05	F	8 to 9	Fakahatchee Conservation Club (now FPNWR)	Unknown
12/1/1983	UCFP08	M	3 to 6	BCSIR	Illegally shot
12/14/1983	FP01	M	12 to 14	SR 84 (now I-75)	Vehicle
11/28/1984	FP02	M	14+	FSSP	Intraspecific aggression
10/30/1984	UCFP11	F	2 to 3	Corbett WMA, Palm Bch. Co. (Elmer Brooker)	Illegally shot
11/2/1984	BIG GUY (FP200)	M	2 to 4	US 41 near Turner River	Vehicle - <b>injured</b>
11/12/1984	UCFP12-(G84-26)	F	8 to 10	SR 84 (now I-75)	Vehicle
1/8/1985	UCFP13-(G85-BNZ)	F	1.5 to 2	SR 84 (now I-75)	Vehicle
3/23/1985	UCFP14	F	2 to 3	Collier Seminole State Park, Collier Co.	Illegally shot (skeleton)
4/18/1985	FP04	M	12+	SR 84 (now I-75)	Vehicle
5/12/1985	NONE	F	UNK	CR 951, 2 miles N of US 41	Vehicle - <b>injured</b>
10/26/1985	FP07	M	10	SR 29, 4 miles S of SR 84 (now I-75)	Vehicle
1/1/1986	FP09	F	not fatal	Golden Gate Estates, S of SR 84 (now I-75)	Illegally shot ( <b>not fatal</b> )
11/15/1986	UCFP15	F	4 to 5	SR 84 (now I-75)	Vehicle
1/27/1987	FP10	M	16 to 20 mo.	Mud Lake Strand, now FPNWR	Intraspecific aggression - by adult male panther
6/17/1987	FP20	M	3 to 4	CR 858 .8 miles E of SR 29	Vehicle - <b>injured</b>
12/14/1987	FP13	M	6 to 8	SR 29 Sunniland	Vehicle
12/19/1987	UCFP17	M	10	Crane Swamp, Farmton WMA, Volusia Co.	Unknown (skeletal remains)
6/10/1988	FP15	F	7 to 8	EVER	Unknown

Date	Panther ID	Sex	Age	Location <sup>a</sup>	Cause
7/23/1988	FP21	F	2.5	1 mile E of US1 on Palm Drive	Vehicle - <b>injured</b>
8/20/1988	FP08	F	13 to 15	Gainesville	Liver failure (old age)
8/22/1988	FP24	M	3 to 5	Glades Co. near Palmdale	Unknown
8/24/1988	FP20	M	4 to 5	Bear Island	Congenital heart defect
8/26/1988	FP25	M	4 to 5	FPNWR	Intraspecific aggression - bacterial infection
11/29/1988	FP28	M	1.5 to 2	Near Daniels Road, RSW Airport	Vehicle - <b>injured</b>
1/25/1989	UCFP18	M	3	CR 850, 1.5 miles S of SR 82	Vehicle
7/23/1989	FP27	M	3 to 4	EVER	Unknown
11/25/1989	FP33	M	3	2 mi. NW of Hendry Prison	Rabies
1/24/1990	FP35	M	10 mo.	Gainesville	Capture-related abandonment (infection)
1/29/1990	FP30	M	22 mo.	FSSP	Intraspecific aggression- killed by FP37
6/18/1990	UCFP19	M	10 mo.	CR 835, 1 mile E of CR 833	Vehicle
6/18/1990	FP39	M	3 to 4	EVER	Pyothorax
7/23/1990	FP17	M	9	NBCNP, near Tangerine Camp	Unknown
9/26/1990	FP41	F	2	W of BCSIR, Hendry Co.	Intraspecific aggression- killed by FP28
10/3/1990	FP18	F	9	S of CR 846 near Rocky Lake, Hendry Co.	Intraspecific aggression- killed by FP28
11/26/1990	FP37	M	4 to 5	SR 29, 0.5 miles N of I-75	Vehicle
2/4/1991	UCFP20	F	9 mo.	SR 29, at Pistol Pond	Vehicle
6/20/1991	FP14	F	10 to 11	EVER	Unknown
7/20/1991	FP22	F	5	EVER	Infection
11/1/1991	FP43	M	2	BCSIR, Hendry Co.	Intraspecific aggression - killed by FP26
4/7/1992	NONE	M	Unknown	Alico Road, Lee Co.	Vehicle - <b>injured</b>
5/27/1992	FP29	M	4	Hendry Co., Gum Swamp	Pseudorabies
9/25/1992	FP28	M	5.5	BCSIR, Hendry Co.	Intraspecific aggression - possibly killed by FP26
11/9/1992	UCFP21	F	7 mo.	SR 29, Sunniland	Vehicle
2/19/1993	FP47	M	18 mo.	FSSP	Intraspecific aggression - killed by FP51
2/26/1993	FP53	M	11 mo.	Private lands N of FPNWR	Intraspecific aggression-killed, eaten by uncollared male
7/6/1993	FP44	M	2.5	SBCNP, Raccoon Pt.	Intraspecific aggression-killed by FP42
8/9/1993	UCFP22	M	2 to 3	Daniels Rd, 1 mile E of I-75	Vehicle
11/15/1993	FP34	M	5	SE Hendry Co. near L28 W feeder canal	Bacterial infection from lacerated esophagus
12/6/1993	FP50	M	2.5	CR 846, 5 miles E of Immokalee	Vehicle
2/28/1994	UCFP23	M	8 mo.	County Line Road, 3 miles N of CR 858	Vehicle
3/3/1994	FP31	F	12 to 14	SR 29 Sunniland	Vehicle
7/8/1994	FP26	M	11 to 12	4 mi. E. Hendry Prison	Intraspecific aggression- killed by FP46, punctured skull
8/4/1994	FP38	F	9	Conservation Area 3A	Pleuritis related to chest puncture

Date	Panther ID	Sex	Age	Location <sup>a</sup>	Cause
11/8/1994	FP12	M	13 to 14	Private lands, Hendry County	Intraspecific aggression - infected bite wounds by FP46
1/14/1995	FP52	F	3.3	CR 846 near Dupree Road	Vehicle
6/22/1995	FP42	M	6	SBCNP	Unknown
9/21/1995	TX102	F	4	CR 833, just N of CR 835	Vehicle
3/18/1996	UCFP24	F	1.5 to 2 wks.	FPNWR	Unknown (dehydrated)
4/24/1996	UCFP29	M	3 to 5	CR 832, 5.5 miles E of SR 29	Vehicle
5/2/1996	UCFP30	F	1	US 41, Turner River	Vehicle
3/30/1997	FP58	M	3	Sadie Cypress - Collier Co.	Intraspecific aggression-septicemia from bite wounds
7/13/1997	UCFP31	U	UNK	CR 846, 1.5 miles W of CR 858	Vehicle
12/2/1997	FP19	F	11.5	FPNWR	Ruptured aorta
12/26/1997	FP21	F	11 to 12	White Oak	Euthanasia
2/2/1998	FP40	F	10	NBCNP	Intraspecific aggression, infected bite wounds
2/14/1998	FP64	M	1.5	SR 29, at clearcut, FPNWR	Vehicle - <b>injured</b>
4/18/1998	TX104	F	6 to 7	S of Sabal Palm Road in citrus grove	Illegally shot
6/13/1998	UCFP25	F	2	CR 846, 3 miles E of CR 858	Vehicle
7/17/1998	FP51	M	9	SR 29, Bear Island Grade	Vehicle
8/2/1998	FP45	M	7.5	BCSIR, Hendry Co.	Intraspecific aggression
9/17/1998	UCFP26	M	3 to 5	US 41	Vehicle
10/10/1998	FP36	F	14+	NBCNP, E of L28 interceptor canal	Unknown (likely natural)
12/23/1998	FP72	M	3 to 4	BCSIR, Hendry Co.	Intraspecific aggression- killed by uncollared male
2/3/1999	FP46	M	9 to 9.5	Private land S. CR 846, Hendry Co.	Intraspecific aggression
3/26/1999	FP64	M	2.5	Audubon's Corkscrew Sanctuary	Intraspecific aggression- killed by uncollared male
7/8/1999	UCFP27	F	2	Farm Road E of Hendry Prison	Vehicle
8/19/1999	TX103	F	UNK	SBCNP, Lostman's Pines 1 mile N of EVER boundary	Metabolic complications associated with pregnancy
9/8/1999	FP74	M	2.5	US 27, near Venus	Vehicle
10/29/1999	UCFP33	M	11 mo.	CR 833, 2 miles N of BCSIR	Vehicle
11/13/1999	FP76	M	2.5 to 3	FSSP, 1.9 miles W of SR 29 off of Lancaster Grade	Intraspecific aggression-killed by FP54
1/3/2000	FP16	M	14	EVER, NE boundary	Unknown
1/15/2000	FP63	M	5	SR 29, N of Pistol Pond	Vehicle-drowning
2/10/2000	FP80	F	4 to 5	W Boundary Road, BCSIR	Vehicle
2/28/2000	K76	M	3 mo.	CR 858, 1 mile W of SR 29	Vehicle
3/1/2000	FP68	M	5 to 7	NBCNP, W of Tangerine tram	Unknown
3/23/2000	UCFP34	M	1.5 to 2	CR 846, 2 miles E of Collier/Hendry line	Vehicle
3/29/2000	TX101	F	UNK	BCSIR, near game pen	Unknown
4/20/2000	FP84	M	14 mo.	Fisheating Creek WMA, 5 miles W of US 27	Unknown

Date	Panther ID	Sex	Age	Location <sup>a</sup>	Cause
6/23/2000	UCFP35	M	1.5 to 2	CR 846, 2 miles E of Immokalee	Vehicle
8/13/2000	UCFP36	F	1.7	CR 846, near big powerline	Vehicle
11/10/2000	FP89	M	3.5	BCNP, 2 miles NW of Mud Lake	Intraspecific aggression - killed by FP79
12/1/2000	FP23	F	14	BCNP, 2 miles E of Turkey Foot	Unknown
12/29/2000	UCFP37	F	5	CR 846, 4.5 miles E of SR 29	Vehicle
1/18/2001	TX107	F	8 to 9	SBCNP, near Eleven Mile Rd.	Unknown
2/27/2001	FP11	F	19 to 20	Private land, 200yds. S of CR846, 1 mile E of Dupree Rd.	Intraspecific aggression
4/14/2001	UCFP38	F	2	CR 833, 1 mile N of BCSIR, Hendry Co.	Vehicle
4/26/2001	FP90	M	1.9	US 27, 2.5 miles N of Terrytown	Vehicle
5/7/2001	UCFP39	F	10 mo.	SR 29, 1/2 mile N of Jerome	Vehicle
5/7/2001	UCFP40	M	10 mo.	SR 29, 1/2 mile N of Jerome	Vehicle
5/22/2001	UCFP41	M	2 to 3	SR 29, Sunniland, near mine entrance	Vehicle
6/14/2001	UCFP42	F	3 to 4	CR 846, 1 mile E of big powerline	Vehicle
8/17/2001	UCFP43	M	2 to 3	CR 846, 1 mile E of big powerline	Vehicle
9/1/2001	FP92	M	2.2	CREW, N Flint Pen Strand	Unknown
12/2/2001	FP97	M	2	Private land, E of Gopher Ridge Grove, N of Immokalee	Intraspecific aggression
1/3/2002	FP49	F	12	BCNP Addition Lands	Intraspecific aggression- killed by uncollared male
1/15/2002	FP96	M	1.75	Private land, Hogan Island, Collier Co.	Intraspecific aggression
1/16/2002	FP105	F	7	FPNWR, SW corner of clearcut	Unknown
4/5/2002	UCFP45	M	3	US 27, 3.4 miles N of Palmdale, Glades Co.	Vehicle
4/10/2002	UCFP46	M	6 mo.	SR 29, 1/2 mile N of Deep Lake, Collier Co.	Vehicle
7/1/2002	FP98	M	4 to 5	SR 29, 1 km N of Pistol Pond	Vehicle
9/5/2002	FP111	M	9 to 10	OSSF, N of CR 832	Intraspecific aggression
9/11/2002	FP112	F	4	BCNP - Bear Island	Intraspecific aggression
9/12/2002	FP32	F	15	FPNWR - Rock Island	Malnutrition (old-age)
10/16/2002	FP78	F	6	FPNWR - Fire Tower	Intraspecific aggression
11/10/2002	UCFP48	F	8 to 9 mo.	CR 846, 5 miles E of Immokalee	Vehicle
11/16/2002	FP108	M	22 mo.	SBCNP, Raccoon Point	Traumatic Neck Injury
11/25/2002	UCFP49 (K98)	F	19 mo.	CR 846, 3 miles E of Immokalee	Vehicle
11/28/2002	FP99	M	33 mo.	CR 846, 1/4 mile N of Collier fairgrounds	Vehicle
1/15/2003	FP67	F	5.5	Private land, Gum Slough, Hendry Co.	Intraspecific aggression-killed by FP65
1/26/2003	UCFP50 (K33)	M	3 to 4	CR 846, 3.4 miles E of Everglades Blvd.	Vehicle
2/20/2003	FP106	F	3	SR 29, entrance to Sunniland Mine	Vehicle
2/22/2003	FP109	M	10+	OSSF, N of CR 832	Intraspecific aggression
3/10/2003	UCFP51	M	1.5 to 2.0	I-4, 0.25 miles E of I-75, near Tampa	Vehicle

Date	Panther ID	Sex	Age	Location <sup>a</sup>	Cause
3/20/2003	UCFP52	M	2 to 3	CR 833, 2 miles S of CR 832, Hendry Co.	Vehicle
4/4/2003	FP118	F	1	BCSIR - Game Pen	Pseudorabies
5/10/2003	FP82	F	6	OSSF	Intraspecific aggression
5/17/2003	FP115	F	4 to 5	OSSF, Sick Island	FeLV
5/25/2003	UCFP53	F	2 to 3	SR 29, 1.4 miles N of CR 858, Collier Co.	Vehicle
6/3/2003	UCFP54	M	8 to 10 mo.	SR 29, 1.7 miles N of CR 858, Collier Co.	Vehicle
6/13/2003	UCFP55	M	1 to 1.5	BCSIR Safari Pen	Unknown
6/14/2003	UCFP56	M	1 to 1.5	BCSIR Safari Pen	Unknown
6/16/2003	UCFP57	F	4 to 6	BCSIR Safari Pen	Pseudorabies
6/19/2003	FP87	F	4	SBCNP - 7 miles NNE of Oasis	Intraspecific aggression
6/28/2003	FP73	F	7.8	BCSIR - Game Pen	Unknown
6/30/2003	UCFP58	F	1	CR 846, 3/4 miles E of Everglades Blvd.	Vehicle
7/12/2003	FP77	F	6	BCSIR- Game Pen	Unknown
10/17/2003	FP114	M	1.5	FPNWR, S of Oil Pad Rd.	Intraspecific aggression
11/2/2003	UCFP59	M	3 to 4 mo.	CR 858, 1.2 miles W of SR 29	Vehicle
11/7/2003	FP86	F	4.5	University of Florida, Vet School, Gainesville	Euthanasia
12/9/2003	UCFP60	M	2 to 3	US 41, 1 mile E of CR 92	Vehicle
12/12/2003	FP91	F	4.5	BCNP, Turner River Unit	Intraspecific aggression
12/25/2003	UCFP61	F	2 to 3	CR 833, 1.7 miles N of CR 846 intersection	Vehicle
1/11/2004	UCFP62	F	7 to 8 mo.	US 41, near 40 Mile Bend	Vehicle
2/13/2004	FP122	F	2 to 3	OSSF, NW Wild Cow Island	FeLV
2/26/2004	UCFP63	M	3.5	I-75, 99 mm, Eastbound lane	Vehicle
3/1/2004	FP85	M	5	EVER	Unknown
3/3/2004	UCFP64	U	unknown	SR66, 0.75 miles W OF SR 635	Vehicle - <b>injured</b>
3/15/2004	FP123	M	3.5	OSSF	Intraspecific aggression
4/6/2004	UCFP65	M	2	SR 29, 200 yds. N of Bear Island Grade	Vehicle
6/27/2004	UCFP66	M	3	I-75, 93 mm, 0.5 miles W of Everglades Blvd.	Vehicle
7/7/2004	FP55	F	11.5	BCNP	Intraspecific aggression
7/11/2004	FP120	F	4	US 41, 750 m W of Turner River Road	Vehicle - <b>injured</b>
7/22/2004	FP132	M	3 to 3.5	OSSF	FeLV
7/28/2004	FP117	M	27 mo.	OSSF	Pseudorabies
8/2/2004	K156	M	6 mo.	US 41, Turner River	Vehicle
8/17/2004	K94	M	3.3	I-75, near 98 mm, Eastbound lane	Vehicle
9/2/2004	UCFP67	F	< 7 days	FPNWR - Ridge Road	Unknown
9/30/2004	UCFP68	F	3 to 6	SBCNP - N of Oasis Ranger Station	Unknown

Date	Panther ID	Sex	Age	Location <sup>a</sup>	Cause
10/25/2004	UCFP69	F	2	SR 29 2.5 miles N of CR 858	Vehicle
11/22/2004	FP59	M	9.4	Private property, just E of Ford Test Track, Collier Co.	Intraspecific aggression
12/1/2004	UCFP70	F	1	SR 29, Owl Hammock Curve	Vehicle
12/6/2004	K128	M	2.5	CR 832, 1 mile E of RR grade	Vehicle
1/1/2005	FP126	M	1.6	Private property, 1/2 mile S of CR 846, Sadie Cypress	Intraspecific aggression
2/4/2005	UCFP71	M	2 to 3	US 41, just E of 11 Mile Road	Vehicle
2/25/2005	UCFP72	M	2	SR 29, near Jerome	Vehicle
4/7/2005	UCFP73	M	7 mo.	CR 951, S of Rattlesnake Hammock Road	Vehicle
5/7/2005	FP120	F	5	US 41, near Turner River	Vehicle
6/4/2005	UCFP74	M	3	I-95, St. John's/Flagler Co. line	Vehicle
6/14/2005	FP136	F	4	SBCNP, 2 miles NE of Burns Lake	Spinal trauma
6/19/2005	UCFP75	M	2	SR 29, Owl Hammock Curve	Vehicle
8/29/2005	K153	M	2.1	CR951, 1.2 miles S of Davis Blvd.	Vehicle
9/12/2005	FP69	F	8.3	NBCNP - Addition Lands	Unknown
9/18/2005	UCFP76	M	1	US 41, 1.4 miles E of CR 951	Vehicle
12/2/2005	K49	F	7.8	SR 29, 1 mile N of Wagon Wheel Road	Vehicle
1/14/2006	FP70	F	8.6	US 41, near Turner River	Vehicle
1/15/2006	UCFP77	F	2 to 3	BCSIR, W of Swamp Safari	Intraspecific aggression
1/25/2006	UCFP78	M	9 mo.	CR 846, 1 miles W of CR 858	Vehicle
1/26/2006	UCFP79	F	2	CR 846, 2 miles N of CR 858 - near Collier fairgrounds	Vehicle
2/2/2006	UCFP80	F	2	Card Sound Road, Dade Co.	Vehicle
2/27/2006	UCFP81	M	2	I-75, between exits 137-138, Lee Co.	Vehicle
2/27/2006	UCFP82	U	unknown	Private property, 0.2 miles W of SR 29 Hendry Co.	Unknown (skeletal remains)
3/9/2006	FP104	M	5.5	SBCNP	Unknown
3/11/2006	UCFP83	M	3	CREW, 1 mile S of Corkscrew Rd., Flint Pen Strand	Intraspecific aggression
3/22/2006	FP129	F	5	SBCNP	Unknown
4/6/2006	K203	M	1 mo.	BCSIR	Unknown
4/14/2006	UCFP84	M	3 to 4	I-4, SW of Orlando	Vehicle
6/5/2006	UCFP85	M	3 to 4	CR 832, 3 miles E of OSSF SF	Vehicle
7/6/2006	UCFP86	U	unknown	SR 29, 0.6 miles S of Sunniland	Vehicle - carcass not found (gator?)
8/24/2006	UCFP87	M	3	Corkscrew Rd. near Alico, Lee Co.	Vehicle
10/27/2006	FP135	M	3.5	Private property, N of FPNWR	Intraspecific aggression/euthanized at UF Vet School
10/23/2006	FP48	F	15	Sunniland, Collier Co.	Unknown
11/26/2006	UCFP88	F	2	US 41, between Manatee Rd and CR951	Vehicle
12/12/2006	UCFP89	M	3 to 5	County Line Road, Collier/Hendry	Vehicle

Date	Panther ID	Sex	Age	Location <sup>a</sup>	Cause
1/10/2007	FP116	F	4.5	Williams Ranch, Hendry Co.	Intraspecific aggression
1/24/2007	UCFP90	F	4 to 6 mo.	CR 832, 1mile W of Forestry tower	Vehicle
1/25/2007	FP100	M	10	Miccosukee Reservation, N of I-75	Unknown
1/29/2007	FP134	M	5.5	NBCNP, W of L-28, S of pipeline	Intraspecific aggression
3/9/2007	UCFP91	M	5 mo.	CR 832, W of Keri tower, OSSF	Vehicle
3/21/2007	FP130	M	4	I-4, near Osceola/Orange County line	Vehicle
3/29/2007	UCFP92	M	1.5	US 41, 1.2 miles W of SR 29	Vehicle
3/30/2007	UCFP93	M	2	I-75, 0.5 miles N Corkscrew Road, Lee Co.	Vehicle
4/3/2007	UCFP94	M	2 to 3	I-75, 2 miles E of toll booth 98mm, Collier Co.	Vehicle
4/18/2007	UCFP95	M	2 to 3	Walk-in-Water road, Polk Co.	Vehicle
4/27/2007	K249	F	10 to 12 days	FPNWR, Unit12	Septicemia
5/3/2007	K247	F	16 to 18 days	FPNWR, Unit12	Complications related to dermatophytosis
5/3/2007	K248	M	16 to 18 days	FPNWR, Unit12	Unknown
5/9/2007	UCFP96	F	3	US1, 1/2 mile S of Card Sound Rd., Dade Co.	Vehicle
5/14/2007	UCFP97	F	4 to 5	Corkscrew Road, near Alico, Lee Co.	Vehicle
6/11/2007	UCFP98	M	20 to 24 mo.	SR 29, at Jerome wildlife crossing	Vehicle
6/14/2007	UCFP99	M	12 to 15 mo.	SR 82, 0.7 miles W of Sunshine Blvd	Vehicle
6/23/2007	UCFP100	M	2 to 3	SR 29, 3 miles S of Immokalee	Vehicle
6/23/2007	K199	F	20 mo.	CR 832, 0.6 miles W of Forestry tower	Vehicle
6/26/2007	UCFP101	M	4	US 41, 1 mile E of Krome Ave	Vehicle
8/2/2007	FP103	F	7	SBCNP	Intraspecific aggression
8/27/2007	K259	M	3 wks.	SBCNP	Suspected black bear predation at den
8/27/2007	K260	U	3 wks.	SBCNP	Suspected black bear predation at den
9/12/2007	UCFP102	M	2	I-75, 1.5 miles E of SR 29	Vehicle
9/27/2007	FP128	F	7.5	BCSIR, game pen	Unknown
3/9/2008	UCFP103	M	2 to 3	Pine Ridge Road, half way between CR951, Logan	Vehicle
3/14/2008	FP127	M	5	NBCNP	Intraspecific aggression
4/12/2008	UCFP104	F	1 to 2	SR 29, 2.6 km N of US 41	Vehicle
4/9/2008	FP157	M	3	CREW	Intraspecific aggression
4/16/2008	FP131	M	9	Horse Trial grounds, N of CR 858, W of SR 29	Pneumonia
4/23/2008	UCFP105	F	5 to 6	FSSP, 0.24 miles W of Janes Scenic, N side of Mud Tram	Unknown or Accidental
5/4/2008	UCFP106	M	2	Leonard Boulevard, Lehigh Acres, Lee Co.	Vehicle
5/12/2008	FP138	M	7	SBCNP, 5.5 km N of Monument Lake Campground	Unknown
5/22/2008	UCFP107	F	2 to 3	CR 951, 2.4 km S of US 41 on CR951, crossed E to W	Vehicle
5/23/2008	K268	F	2 wks.	SBCNP	Consumed (possible intraspecific aggression)

Date	Panther ID	Sex	Age	Location <sup>a</sup>	Cause
5/23/2008	K269	M	2 wks.	SBCNP	Consumed (possible intraspecific aggression)
6/30/2008	FP164	M	2.5	NBCNP	Unknown
7/28/2008	UCFP108	F	3 to 4	CR 846, 1.7 mile E of Oil Grade Rd	Vehicle
8/6/2008	FP107	F	8	FPNWR	Unknown
9/15/2008	FP155	M	3	Lee-Hendry Landfill, Hendry Co.	Unknown
9/15/2008	UCFP109	M	8	Private Property (J. Ivey), 2 miles E of Corkscrew Sanctuary	Unknown
9/29/2008	UCFP110	F	2 to 3 mo.	EVER	Vehicle
10/22/2008	FP152	M	5 to 6	SBCNP	Intraspecific aggression
10/24/2008	UCFP111	F	6 to 8 mo.	SR 29, 2.4km N of Oil Well Road	Vehicle
11/4/2008	UCFP112	M	3	SR 80, E of CR 833	Vehicle
11/16/2008	UCFP123	M	3 to 4	Troup Co., GA	Shot
11/26/2008	UCFP113	M	4 to 5	Alico Road, Lee Co.	Vehicle
11/28/2008	UCFP114	F	4	CR 858, 1 miles E of Camp Keais Rd	Vehicle
1/11/2009	UCFP115	M	4	CR 832, E of OSSF	Vehicle
1/17/2009	K253	M	18 mo.	I-75, eastbound exit ramp for SR 29	Vehicle
1/20/2009	UCFP116	F	4 to 5	SR 29, 3 miles S of Immokalee	Vehicle
2/2/2009	UCFP117	M	3	BCSIR	Intraspecific aggression
3/25/2009	UCFP118	M	1.5	Treeline Ave, Lee Co.	Vehicle
4/9/2009	UCFP119	F	2 to 3	US 41, Turner River	Vehicle
4/21/2009	UCFP120	F	2	Big Cypress Mitigation Bank	Illegally Shot
5/14/2009	UCFP121	M	2	SR 29, ~4 miles S of I-75	Vehicle
5/25/2009	UCFP122	M	2	CR 846, near Camp Keais Rd	Vehicle
6/12/2009	FP140	F	7	FPNWR, SE of Hog Pond	Intraspecific aggression
7/28/2009	FP204	F	19	White Oak (captive)	Euthanasia
8/5/2009	UCFP124	M	1.5	I-75, 90mm	Vehicle
9/6/2009	UCFP125	F	2	I-75, 96.5mm	Vehicle
9/15/2009	UCFP126	M	2	E of Ave Maria, Ranch 1 Orange Gr.	Vehicle
10/5/2009	FP166	M	5 to 6	BCSIR, N. of Safari Pen	Intraspecific aggression
10/9/2009	UCFP127	F	3 to 4	Turner River, 600m S of US 41	Unknown
10/10/2009	UCFP128	F	3	North Belle Meade	Illegally shot
10/19/2009	UCFP129	M	3 to 4 mo.	CR 846, 2 miles E of Immokalee	Vehicle
10/21/2009	UCFP130	F	3 to 4	CR 846, 2 miles E of Immokalee	Vehicle
11/1/2009	UCFP131	F	3 to 4 mo.	CR 833, N boundary of BCSIR	Vehicle
11/19/2009	UCFP132	M	3 to 4	FL Turnpike, S of Yeehaw Junction	Vehicle (decapitated posthumously)
12/17/2009	UCFP133	M	3 to 4	I-75, 1/2 miles W Snake Road	Vehicle
12/23/2009	UCFP134	M	3	Corkscrew Road, near CREW Gate 5	Vehicle

Date	Panther ID	Sex	Age	Location <sup>a</sup>	Cause
12/29/2009	UCFP135	F	4	SR 29, 2 miles N of Jerome	Vehicle
12/31/2009	UCFP136	F	3 to 4 mo.	County Barn Rd, 0.3 miles S of Davis Blvd	Vehicle
1/16/2010	UCFP137	M	2.5	1 mile S Corkscrew Rd, near Bella Terra	Intraspecific aggression
1/29/2010	UCFP138	M	6 to 8	N of Shell Island Rd, Rookery Bay	Unknown (skeletal remains)
3/12/2010	UCFP139	F	3	Corkscrew Rd, CREW Marsh Trailhead 1	Vehicle
3/16/2010	FP174	M	4 to 5	I-75, 95mm, eastbound	Vehicle
3/22/2010	FP172	F	5	NBCNP	Intraspecific aggression
4/15/2010	UCFP140	M	1.5 to 2	I-75, mm 117, Lee Co.	Vehicle
4/29/2010	UCFP141	F	6 mo.	Church Road, near Hendry Co landfill	Vehicle
5/4/2010	UCFP142	F	8 mo.	Golden Gate Blvd., between 5th and 7th St NW	Vehicle
5/21/2010	FP169	M	5 to 6	US 41, 4km W of Monroe Station	Vehicle
5/22/2010	FP158	F	5	US 41, 1km E of SR92	Vehicle
5/23/2010	UCFP143	M	7 to 8 mo.	US 41, 2.2km E of CR951	Vehicle
5/31/2010	UCFP144	M	12 to 14 mo.	CR 833, 0.66km N of intersect with CR 832	Vehicle
6/21/2010	FP144	M	6	NBCNP	Intraspecific aggression
6/24/2010	UCFP145	M	16 to 18 mo.	SR 29, 3.7km S of Farm Workers Village	Vehicle
8/3/2010	UCFP146	F	3 to 4	SR 29, 1 miles S of Owl Hammock, Collier Co.	Vehicle
10/1/2010	UCFP147	F	3	US 41, 1.7 miles E of Monroe Station	Vehicle
10/15/2010	FP168	F	8	CREW, Flint Pen Strand	Intraspecific aggression
10/25/2010	FP102	F	12 8mo.	SBCNP	Intraspecific aggression
11/17/2010	FP176	M	4 to 5	CR 832, OSSF	Vehicle
12/12/2010	UCFP148	M	2 to 3	US 27, 0.5 miles E of SR 80, Hendry Co.	Vehicle
12/13/2010	UCFP149	M	1.5	Golden Gate Blvd., 7th ST NW, Collier Co.	Vehicle
12/19/2010	UCFP150	M	8 to 9 mo.	CR 846, 1.5 miles S of CR 833	Vehicle
12/22/2010	FP173	M	5	Lee County Port Authority Mitigation Land	Pseudorabies
12/23/2010	UCFP151	F	10 to 18 mo.	Private property, Collier Co.	Intraspecific aggression
1/5/2011	FP141	M	8.5	Private property, Hendry Co.	Unknown
1/7/2011	K284	M	1.5	SR 29, S of Sears Rd., Hendry Co.	Vehicle
1/13/2011	UCFP152	F	3	I-75, 98mm, eastbound, Collier Co.	Vehicle
1/21/2011	UCFP153	M	8 mo.	I-75, 98mm, westbound, Collier Co.	Vehicle
1/21/2011	UCFP154	M	8 mo.	Orange grove N of Sears Rd, Hendry Co.	Intraspecific aggression
2/23/2011	UCFP155	F	4	Golden Gate Estates	Illegally Shot
2/26/2011	UCFP156	M	3 to 4	I-75, near 114mm, Collier Co.	Vehicle
3/2/2011	FP170	F	4.5	PSSF, Swan Lake Prairie, Collier Co.	Intraspecific aggression
3/15/2011	UCFP157	F	>3	SBCNP	Unknown (skeletal remains)
3/17/2011	UCFP158	M		Seminole Co.	Under Investigation
3/25/2011	UCFP159	F	4 to 5	SR 29, near Farmworkers Village	Vehicle (survived gunshot to head)

Date	Panther ID	Sex	Age	Location <sup>a</sup>	Cause
3/25/2011	FP83	F	11 10 mo.	US 41, W of Port of the Islands, Collier Co.	Vehicle
4/30/2011	UCFP160	M	12 to 14 mo.	US 41, between 40 and 50 mile bend, Miami-Dade Co.	Vehicle
5/3/2011	K322	F	5 wks.	SBCNP, Collier Co.	Wildfire
5/3/2011	K323	M	5 wks.	SBCNP, Collier Co.	Wildfire
5/3/2011	K324	M	5 wks.	SBCNP, Collier Co.	Wildfire
5/3/2011	K325	M	5 wks.	SBCNP, Collier Co.	Wildfire
6/1/2011	FP186	M	11.5 mo.	CREW, Bird Rookery Swamp, Collier Co.	Intraspecific aggression
7/6/2011	UCFP161	M	7 to 9	Silver Strand Grove, N of Immokalee, Collier Co.	Intraspecific aggression
7/11/2011	UCFP162	M	1 to 1.5	SR 29, Owl Hammock Curve, Collier Co.	Vehicle
7/29/2011	FP156	M	6	PSSF, Belle Meade, Collier Co.	Pseudorabies
9/3/2011	UCFP163	M	3 to 4	Palmer Ranch, Hendry Co.	Unknown
9/14/2011	FP188	F	3.5	Private Land, Collier Co.	Unknown
9/19/2011	UCFP164	F	3 to 4	SR 29, Owl Hammock Curve, Collier Co.	Vehicle
10/30/2011	UCFP165	F	3 to 4	SR 29, Collier-Hendry line	Vehicle
1/2/2012	UCFP166	M	4 to 5	SR 82, 3.8km W of SR 29, Collier Co.	Vehicle
1/5/2012	FP189	M	3.5	Tomato field S of Oil Well Rd, Collier Co.	Intraspecific aggression
1/7/2012	UCFP167	F	4	US 41, 0.5km W of Manatee Rd, Collier Co.	Vehicle
1/13/2012	FP194	M	20 mo.	SBCNP, Collier Co.	Intraspecific aggression
2/6/2012	UCFP168	M	5	US 41, 0.4km E of Bass Rd, Collier Co.	Vehicle
2/23/2012	K351	M	12 days	SBCNP, Collier Co.	Malnutrition
2/27/2012	FP133	M	12	FSSP, Collier Co.	Intraspecific aggression
3/13/2012	TX106	F	21	White Oak Conservation Center, (in captivity)	Age related- cancer
3/31/2012	UCFP190	U	U	US 41, W of Trail Lakes Campground; Ducati panther	Vehicle- <b>injured</b>
4/7/2012	UCFP169	M	9 wks.	Orange grove N of Church Rd., Hendry Co.	Vehicle
4/16/2012	UCFP170	M	3 to 4	Alico Rd, 0.1 km W of Airport Haul Rd, Lee Co.	Vehicle
5/18/2012	FP212	M	3	2 km NW of CR 846 and County Line Rd intersection	Intraspecific aggression
5/21/2012	FP211	M	2	Orange grove 8.7km SE of prison, Hendry Co.	Intraspecific aggression
5/23/2012	UCFP171	M	1.5 to 2	SR80, 23km E of I-75, Lee Co.	Vehicle
5/26/2012	UCFP172	M	4 mo.	Found injured on SR82, E of Church Rd., Lee Co.	Vehicle - <b>rescued but died in captivity</b>
6/19/2012	UCFP173	F	7 mo.	CR 846, 2.4 km E of Oil Well Grade Rd, Collier Co.	Vehicle
7/18/2012	FP197	M	4.5	Port Authority Mitigation Land, Lee Co.	Unknown
8/28/2012	UCFP174	M	10 mo.	Private property, N of CR 832, E of OSSF, Hendry Co.	Intraspecific aggression
8/31/2012	FP79	M	17	Captivity, F1 panther originally radiocollared in BCNP	Euthanasia- cancer
10/6/2012	FP196	F	2.5	US 41, 1.4km E of San Marco Rd, Collier Co.	Vehicle
10/8/2012	UCFP175	M	12 to 14 mo.	SR 29, 2.7km N of US 41, Collier Co.	Vehicle
10/9/2012	UCFP176	F	3 mo.	Immokalee Rd, 2 miles N of fairgrounds, Collier Co.	Vehicle
11/4/2012	UCFP177	F	4 mo.	18th Ave NE, Golden Gate Estates, Collier Co.	Vehicle

Date	Panther ID	Sex	Age	Location <sup>a</sup>	Cause
11/14/2012	UCFP178	F	1	SR 29, 1.5 miles S of I-75, Collier Co.	Vehicle
11/19/2012	UCFP179	M	3	SR 29, Owl Hammock Curve, Collier Co.	Vehicle
11/19/2012	UCFP180	M	4 to 5	US 41, 0.5 miles W of Manatee Road, Collier Co.	Vehicle
11/26/2012	UCFP181	F	2 to 3 mo.	Immokalee Rd, 3.6 miles N of Oil Well Rd, Collier Co.	Vehicle
12/9/2012	UCFP182	M	3	SR 528, Orange Co.	Vehicle
12/11/2012	FP182	F	3.8	US 41, near Turner River canoe launch, Collier Co.	Vehicle
12/28/2012	UCFP183	U	unknown	CR 835, 0.21km S of Dooley Grade Rd, Hendry Co.	Vehicle
1/1/2013	UCFP184	F	7 mo.	CR 833, 2 miles E CR 846, Hendry Co.	Vehicle
1/3/2013	UCFP185	M	10 mo.	SR 29, 600 ft. S Oil Well Rd, Collier Co.	Vehicle
1/26/2013	UCFP186	M	2 to 4	Sadie Cypress, 2 miles S 846, Collier Co.	Intraspecific aggression
1/31/2013	UCFP187	F	4 mo.	CR835, Hendry Co.	Vehicle
2/1/2013	UCFP188	M	2 to 3	OSSF, S of Dove Field Rd, Hendry Co.	Unknown
2/20/2013	UCFP189	F	5 to 6 mo.	Everglades Blvd S, Golden Gate Estates, Collier Co.	Vehicle
3/16/2013	UCFP191	M	2 to 3	SR 80, just E of Labelle, Hendry Co.	Vehicle
4/26/2013	FP184	F	5 to 6	NBCNP, Collier Co.	Intraspecific aggression
4/28/2013	UCFP192	F	10	CR 846, 2.3 miles W of County Line Road, Collier Co.	Vehicle
5/13/2013	FP224	F	9 mo.	12 Street NE, Golden Gate Estates, Collier Co.	Vehicle- <b>injured</b>
5/31/2013	UCFP193	M	2	US 192, E of Triple N WMA, Osceola Co.	Vehicle
6/29/2013	UCFP194	M	2-3	Orange River Rd, 1.2km E of Staley Rd, Lee Co.	Vehicle
7/8/2013	UCFP195	M	2 to 3	CR 846, 7.9km E of County Line Rd, Hendry Co.	Vehicle
7/15/2013	UCFP196	M	2 to 3	I-75, 96.5mm, Collier Co.	Vehicle
8/7/2013	UCFP197	F	16 mo.	US41, 2.4km W of Oasis, Collier Co.	Vehicle
8/19/2013	UCFP198	F	3	I-75, 93 MM on Miller Canal Bridge, Collier Co.	Vehicle
9/20/2013	UCFP199	M	4	CR951, Collier Co.	Vehicle
11/12/2013	UCFP200	M	2-3	Treeline Ave. N of Daniels Pkwy., Lee Co.	Vehicle
12/2/2013	UCFP201	M	1	Northbound I75 W of Faka Union MM92, Collier Co.	Vehicle
12/7/2013	K368	F	1.5	Big Cypress National Preserve, Collier Co.	Illegally Shot
12/11/2013	UCFP202	U	9 mo.	FL Panther National Wildlife Refuge, Collier Co.	Intraspecific Aggression
1/2/2014	UCFP203	M	2-3	I-75 near MM 111, Collier Co.	Vehicle
1/4/2014	FP223	M	2.7	Private Land, Hendry Co.	Pneumonia
1/22/2014	UCFP204	M	1.5	SR 29, Owl Hammock Curve, Collier Co.	Vehicle
1/23/2014	UCFP205	M	7 days	<b>Yuma-</b> FPNWR, Collier Co.	Hypothermic – <b>CAPTIVITY HOMOSASSA SPRGS.</b>
1/24/2014	FP175	F	6.5	BCNP Addition Lands, Collier Co.	Peritonitis
3/1/2014	UCFP206	M	3	SR80, Lee/Hendry Co line	Vehicle
3/8/2014	UCFP207	M	1.5	CR 833, Hendry Co.	Vehicle
3/17/2014	FP228	M	4	Everglades/Francis Taylor WMA, Broward Co.	Vehicle
3/29/2014	UCFP208	U	2	Concho Billy Trail, SBCNP	Intraspecific Aggression

Date	Panther ID	Sex	Age	Location <sup>a</sup>	Cause
4/3/2014	UCFP209	M	3 to 5	CR 833, just S of CR 832, Hendry Co.	Vehicle
4/8/2014	UCFP210	M	2 to 3	CR 846, 6 miles E of Immokalee, Collier Co.	Vehicle
4/11/2014	UCFP211	U	8 to 10 mo.	Belle Meade, PSSF, Collier Co.	Intraspecific Aggression
4/14/2014	UCFP212	M	4 to 5	US27, N of Lake Placid, Highlands Co.	Vehicle
4/14/2014	FP232	M	3	East Broadway Street, Ft. Meade, Polk Co.	Vehicle - <b>injured</b>
4/25/2014	FP163	M	7.2	Co Line Rd, Collier/Hendry Co. Line	Vehicle
4/25/2014	FP231	M	2	Golden Gate Blvd, just W of Everglades, Collier Co	Vehicle - <b>injured</b>
5/1/2014	UCFP213	F	3	I-75 near MM 134, Lee Co.	Vehicle
5/16/2014	UCFP214	M	14 mo.	Oil Well Rd, E of Pacific Grade, Collier Co.	Vehicle
6/12/2014	K390/UCFP215	F	1-2	US41, SE of Collier Seminole SP, Collier Co.	Vehicle
6/25/2014	UCFP216	F	1	Corkscrew Rd, near CREW gate 5, Lee/Collier Co. line	Vehicle
7/1/2014	TX105	F	22	White Oak Conservation Center, (died in captivity)	Age related- Renal failure
7/16/2014	FP177	M	7	BCNP - North Addition Lands, Collier Co.	Intraspecific Aggression
8/4/2014	FP231	M	2.5yrs	Golden Gate Estates, Collier Co.	Unknown
8/6/2014	UCFP217	F	2	CR833, between CR 832 and SR 80, Hendry Co.	Vehicle
8/24/2014	UCFP218	F	4 mo.	Immokalee Rd/Wildwood Blvd, Collier Co.	Vehicle
8/24/2014	UCFP219	M	4 mo.	Immokalee Rd/Krape Rd, Collier Co.	Vehicle
9/2/2014	UCFP220	F	3 to 4	CR833, N of BCSIR, Hendry Co.	Vehicle
9/3/2014	FP66	F	17	Homosassa Springs Wildlife Park (died in captivity)	Age related
10/11/2014	UCFP221	M	2	<b>Uno</b> - Found blinded by shotgun on CR 846, Collier Co.	<b>CAPTIVITY - NAPLES ZOO</b>
10/20/2014	UCFP222	M	3	Florida's Turnpike, MM 192, Yeehaw Junction, Osceola Co.	Vehicle
11/13/2014	UCFP223	F	3-4	County Line Road, just S of CR846, Collier Co.	Vehicle
11/14/2014	FP229	F	4-5	Northern Addition Lands, BCNP, Collier Co.	Unknown
11/21/2014	K434	F	11 wks.	Parker's Hammock Road, Collier Co.	Separated from dam, <b>CAPTIVITY – MIAMI ZOO</b>
11/28/2014	UCFP224	M	6 mo.	Golden Gate Blvd/6th St NE, Collier Co.	Vehicle
12/18/2014	UCFP225	M	4	Flaghole Road, 8km S of US27, Hendry Co.	Vehicle
12/18/2014	UCFP226	M	3	Collier Blvd, 2.4km S of US41, Collier Co.	Vehicle
12/19/2014	UCFP227	M	2	US41, MM 57, 3.8 km W of Oasis, Collier Co.	Vehicle
12/28/2014	UCFP228	M	2	Golden Gate Blvd/10th St NE, Collier Co.	Vehicle
12/30/2014	UCFP229	F	2.5	16th ST SE, Golden Gate Estates, Collier Co.	Vehicle
12/31/2014	FP213	F	5.5	Dinner Island Ranch WMA, Hendry Co.	Intraspecific Aggression
1/16/2015	UCFP230	F	1.5	I-75 1/2 mile E of toll booth, Collier Co.	Vehicle
1/20/2015	UCFP231	F	1.5	Immokalee Rd, 250m S of Bethune RD, Collier Co	Vehicle
1/24/2015	UCFP232	M	4	MM132, I75, Lee Co.	Vehicle
1/25/2015	UCFP233	M	5-6	MM95, I75, Collier Co.	Vehicle
1/29/2015	UCFP234	U	U	Corkscrew Swamp Sanctuary, Collier Co. (skeletal)	Unknown (skeletal remains)
2/6/2015	UCFP235	U	10 mo.	Golden Gate Estates, Collier Co.	Unknown

Date	Panther ID	Sex	Age	Location <sup>a</sup>	Cause
2/13/2015	FP191	F	16	Big Cypress National Preserve, Collier Co.	Unknown
2/15/2015	UCFP236	M	1	CR846, 1/2 mi S of CR833 intersection, Hendry Co.	Vehicle
2/25/2015	FP183	M	9	SR29, 2.75 mi S of I-75, Collier Co.	Vehicle
3/7/2015	K402	M	1.5	I-75, 0.5 miles S of Exit 123, Corkscrew Road, Lee Co.	Vehicle
3/8/2015	UCFP237	M	2.5	CR951, 300 m N of Port au Prince Rd, Collier Co.	Vehicle
3/20/2015	FP148	F	11.5	Picayune Strand State Forest, Collier Co.	Intraspecific Aggression
3/22/2015	UCFP238	M	5	Immokalee Road, 3.4km W of Camp Keais Rd., Collier Co.	Illegally Shot
3/30/2015	FP237	M	1	Audubon's Corkscrew Swamp Sanctuary, Collier Co.	Intraspecific Aggression
4/3/2015	UCFP239	M	3 to 4	I-75, 1.1 miles E of toll booth, Collier Co.	Vehicle
4/13/2015	UCFP240	F	1	SR29, 1.3 mi N. of CR858, Collier Co.	Vehicle
4/27/2015	FP159	M	12 to 13	Private land, 2 miles N of Corkscrew Rd., Lee Co.	Unknown
4/30/2015	UCFP241	M	2 to 3	I-75, 0.5 miles S of Exit 123, Corkscrew Road, Lee Co.	Vehicle
5/19/2015	UCFP242	F	3	CR833, 1/4 mi south of CR832, Hendry Co.	Vehicle
6/11/2015	UCFP243	M	4	US 41, BCNP, Collier Co.	Vehicle
6/16/2015	FP153	F	14	BCNP, Collier Co.	Unknown
7/5/2015	UCFP244	M	1.5	Immokalee Rd., 0.4 mi south of Wild Turkey Dr., Collier Co.	Vehicle
7/8/2015	UCFP245	M	10 to 11 mo.	Daniels Pkwy, 1 mi SW of SR82, Lee Co.	Vehicle
7/1/2015	UCFP246	U	2 wks.	Lee County Port Authority Mitigation Land, Lee Co.	Unknown
7/13/2015	UCFP247	M	2 to 3	SR80, 5 mi west of LaBelle, Hendry Co.	Vehicle
7/30/2015	UCFP248	F	4 to 5 mo.	Golden Gate Blvd, Collier Co.	Vehicle
8/9/2015	FP240	F	2.7	Deep Lake Unit of Big Cypress NP, Collier Co.	Intraspecific Aggression
9/18/2015	FP219	F	4.3	I-75, just west of exit 101, Collier Co.	Vehicle
9/22/2015	UCFP249	M	4 mo.	CR858, 1/4 mi west of County Line Rd, Collier Co.	Vehicle
9/28/2015	UCFP250	M	3 to 4	US41, just west of Trail Lakes Campground, Collier Co.	Vehicle
9/30/2015	K432	F	13 mo.	I-75, MM102, Collier Co.	Vehicle
10/8/2015	UCFP251	F	3	US 41, west of CR 92, Collier Co.	Vehicle
10/23/2015	FP222	F	10.5	I75, MM90, Collier Co.	Vehicle
10/31/2015	UCFP252	M	4 mo.	CSSP near boat ramp, Collier. Co.	Emaciation due to orphaning
11/2/2015	UCFP253	F	4 mo.	CSSP campground, Collier Co.	Orphaned, <b>CAPTIVITY – PALM BEACH ZOO</b>
11/23/2015	UCFP254	M	8 to 10 mo.	CR846, just W Everglades Blvd., Collier Co.	Vehicle
11/25/2015	K387	M	2.8	SR29 between Pollywog Rd and SR78, Glades Co.	Vehicle
12/2/2015	FP93	F	16.8	Turner River Unit, BCNP, Collier Co.	Unknown (skeletal remains)
12/8/2015	UCFP255	F	1	CR832, Hendry Co.	Vehicle
12/15/2015	UCFP256	F	2.5	Corkscrew Road, Collier Co.	Vehicle
12/16/2015	UCFP257	M	6	CR835, 2.5 km S of Dooley Grade Rd, Hendry Co.	Vehicle
12/21/2015	UCFP258	M	1	SR29, Owl Hammock Curve, Collier Co.	Vehicle
12/30/2015	UCFP259	F	7 mo.	CR832, 3 mi west of CR833, Hendry Co.	Vehicle

Date	Panther ID	Sex	Age	Location <sup>a</sup>	Cause
1/3/2016	UCFP260	M	6 mo.	18th Ave SE, W of Desoto, Collier Co.	Unknown
1/18/2016	UCFP261	M	3 mo.	Sakata Farms off SR82, Lee Co.	Orphaned. <b>CAPTIVITY – HOMOSASSA SPRGS.</b>
1/20/2016	UCFP262	F	7 to 9 mo.	Daniel's Parkway, 1/2 mile east of Treeline Avenue, Lee Co.	Vehicle
1/21/2016	UCFP263	M	2 to 3	Florida Tnpk, S of Ft. Drum Service Plaza, Okeechobee Co.	Vehicle
1/30/2016	UCFP264	F	4	SR82, 1.4 km west of Church Rd, Hendry Co.	Vehicle
2/2/2016	UCFP265	M	2 to 3	I75, 2 km north of Daniel's Parkway, Lee Co.	Vehicle
2/12/2016	UCFP266	F	1.5 to 2	SR82, near Sparta Avenue, Lee Co.	Vehicle
2/15/2016	UCFP267	U	5 to 6 mo.	SR82, just E of Hendry Co line, Collier Co.	Vehicle
2/17/2016	UCFP268	M	4	SR 82, 1.25 miles E of Corkscrew Road, Collier Co.	Vehicle
2/18/2016	UCFP269	U	2	Private Property S of CR864, W of CR951, Collier Co.	Unknown
3/5/2016	UCFP270	U	2 to 4	NBCNP, Addition Lands Unit, west of L28I, Collier Co.	Under Investigation
3/10/2016	UCFP271	M	3	Polk Parkway (SR570) west of Lakeland, Polk Co.	Vehicle
3/25/2016	UCFP272	M	14 to 16 mo.	Golden Gate Blvd., 0.3 miles east of CR951, Collier Co.	Vehicle
4/1/2016	UCFP273	U	1	I-75, near MM96 bordering Belle Meade, Collier Co.	Vehicle
4/6/2016	UCFP274	M	3	I-75, near Luckett Rd Exit, MM138, Lee Co.	Vehicle
4/6/2016	UCFP275	M	3	Immokalee Rd, 4km east of CR951, Collier Co.	Vehicle
4/9/2016	UCFP276	M	4-5	I-75, 0.6 mi south of Bonita Beach Rd, Lee Co.	Vehicle
4/10/2016	UCFP277	M	5 to 6 mo.	Golden Gate Blvd, just east of 22nd St NE, Collier Co.	Vehicle
4/15/2016	UCFP278	M	16 to 18 mo.	Randall Blvd, 110 m east of 16th St. NE, Collier Co.	Vehicle
4/26/2016	UCFP279	F	3 to 4	I-75, southbound at 122 MM, Lee Co.	Vehicle
4/26/2016	UCFP280	M	1	CR833, 735m north of junction with CR835, Hendry Co.	Vehicle
4/28/2016	UCFP281	M	4	OSSF, 3.5 mi N of Keri Rd, Twin Mills Grade, Hendry Co.	Intraspecific Aggression
5/3/2016	UCFP282	M	2 to 3	SR 29, 1/4 mi N of US 41, Collier Co.	Vehicle
5/6/2016	FP162	F	11	SBCNP, Turner River Unit, Collier Co.	Intraspecific Aggression
5/26/2016	K403	F	4	Daniel's Parkway junc. with Commerce Lakes Drive, Lee Co.	Vehicle
5/26/2016	UCFP283	M	2	US 27 near Venus, Highlands Co.	Vehicle
6/16/2016	UCFP284	F	6 mo.	CR 858 at Camp Keais Road, Collier Co.	Vehicle
6/22/2016	FP215	F	11	Private Property NW of FPNWR, Collier Co.	Unknown
8/5/2016	UCFP285	F	4	SR 82, 1/2 mile W of Church Road, Collier County	Vehicle
8/5/2016	FP242	M	10	Immokalee Ranch, 670m south of CR846, Hendry County	Pseudorabies
8/14/2016	FP171	M	9-10	SR29, 4.3km north of I75, Collier County	Vehicle
8/29/2016	FP195	F	8.5	36th Avenue SE, Golden Gate Estates, Collier County	Intraspecific Aggression
10/2/2016	K421	M	2yr 5 mo.	2685 SR 29, Immokalee, Collier County	Vehicle
10/10/2016	UCFP286	M	2	SR 80 at the Lee/Hendry Co. line	Vehicle
10/18/2016	UCFP287	M	3-4	US27, near Venus, Highlands County	Vehicle
10/28/2016	UCFP288	M	6 mo.	Daniels Parkway southwest of SR82, Lee County	Vehicle
10/31/2016	UCFP289	F	3	Golden Gate Blvd 1km west of Everglades Blvd, Collier Co.	Vehicle

Date	Panther ID	Sex	Age	Location <sup>a</sup>	Cause
11/16/2016	UCFP290	F	adult	SR 29, 2.3 miles S of CR 858, Collier County	Vehicle
11/20/2016	UCFP291	M	9 mo.	CR 832 two miles E of SR29, Hendry County	Vehicle
12/6/2016	UCFP292	F	2	SR 29 2 miles N of CR 858, Collier County	Vehicle
12/8/2016	UCFP293	F	4 mo.	Paul J. Doherty Pkwy, just S of Daniels Pkwy, Lee County	Vehicle
12/9/2016	UCFP294	F	2	Corkscrew Rd 250m E of Ben Hill Griffin Pkwy, Lee Co.	Vehicle
12/10/2016	UCFP295	F	4-5 mo.	Ben Hill Griffin Pkwy & FGCU Blvd, Lee County	Vehicle
1/12/2017	UCFP296	M	3 mo.	CR832 5 miles W of CR833, Hendry County	Vehicle
†	UCFP297	†	†	†	<b>Injured- under investigation</b>
1/27/2017	K388	M	4	Private property east of CR835, Hendry County	Intraspecific Aggression
2/23/2017	UCFP299	U	U	2nd Ave NE, east of Desoto, GGE, Collier County	Unknown
2/27/2017	UCFP300	M	5-6	SR82 1/2 mile east of CR850, Collier County	Vehicle
2/28/2017	UCFP301	M	2.5-3	NE Four Mile Road, Desoto County	Vehicle
3/4/2017	UCFP302	F	2	SR82 1.7 miles west of CR850, Hendry County	Vehicle
3/9/2017	UCFP303	F	2 mo.	SR82 1.4 miles east of CR850, Collier County	Vehicle
3/14/2017	UCFP304	F	4	CR846, 2 miles east of Immokalee, Collier County	Vehicle
3/22/2017	FP198	F	9	Consolidated Citrus, near CREW, Lee County	Intraspecific Aggression
4/5/2017	UCFP305	F	1.5	CR835 south of Dooley Grade, Hendry County	Vehicle
4/13/2017	UCFP306	M	3	I-4, at CR532 exit, Polk County	Vehicle
4/20/2017	UCFP307	F	4-5	CR846, 2.6 miles west of County Line Rd, Collier County	Vehicle
5/8/2017	UCFP308	F	3-4	CR832, 5 mi. east of OSSF, Hendry County	Vehicle
5/11/2017	FP248	F	3	Corkscrew Rd, just south of CR832, Collier County	Vehicle-injured
6/7/2017	PC1095	M	1.5	Immokalee Road, 260 m east of Krape Rd., Collier Co.	Vehicle-injured
6/11/2017	UCFP309	U	U	Keri Island Rd. GGE, Collier County	Unknown
6/16/2017	UCFP310	M	2-3	CR846, 2 mi east of County Line Road, Hendry Co	Vehicle
6/28/2017	K480	F	18 days	SBCNP, Turner River Unit, Collier County	Abandoned- <b>CAPTIVITY</b>
7/3/2017	UCFP311	M	5	Immokalee Rd, 2 mi east of CR951, Collier County	Vehicle
7/18/2017	UCFP312	F	2.5	CR951, 400 ft N of City Gate, Collier County	Vehicle
8/2/2017	FP248	F	3	Struck by vehicle 5/11/2017.	Euthanized
8/13/2017	FP234	M	12	I75, MM54, Collier County	Vehicle
8/14/2017	UCFP313	M	2	CREW, Marsh Hiking Trails, Collier County	Intraspecific Aggression
8/18/2017	UCFP314	M	1.5	Ft. Denaud Rd., LaBelle, Hendry Co.	Vehicle
8/24/2017	UCFP315	F	1	CR846, Robert's Ranch Rd (Duck Curve), Hendry County	Vehicle
8/28/2017	FP244	M	7	Dinner Island Ranch WMA, Hendry County	Unknown
9/16/2017	UCFP316	M	3.5	SR98, north of Lake Istokpoga, Highlands County	Vehicle
10/15/2017	UCFP317	F	1.5	CR835, 1 mi south of Dooley Grade Rd, Hendry County	Vehicle
11/7/2017	K411	M	3.7	Immokalee Rd, Collier County	Vehicle
11/13/2017	UCFP318 (K364)	M	6	CR833. 1 mi south of Hill Grade, Hendry County	Vehicle

Date	Panther ID	Sex	Age	Location <sup>a</sup>	Cause
11/20/2017	FP249	M	2	CR833, 3.6 km south of junction with CR835, Hendry Co.	Vehicle
11/23/2017	UCFP319	M	2	Daniels Pkwy, east of 75, Lee Co.	Vehicle
12/9/2017	UCFP320	M	3 mo.	Desoto Blvd, near 24th Ave SE, Collier County	Vehicle (euthanized)
12/20/2017	UCFP321	M	2-3	North of SR78, 8.8km east of junction with SR29, Glades Co.	Intraspecific Aggression
12/29/2017	FP224	F	5.4	CR 951 at City Gate, Collier Co.	Vehicle- <b>injured</b>
1/7/2018	PC1144	F	4-5 mo.	I75 southbound lanes, just west of exit 101, Collier Co.	Vehicle
1/8/2018	UCFP322	F	3-4	Josie Billie Highway, 6 miles E of SIR, Hendry Co.	Vehicle
1/13/2018	UCFP323	M	1.5	Immokalee Road at Wildwood, Collier County	Vehicle
1/30/2018	UCFP324	M	2.5	SR80, west of LaBelle, Hendry County	Vehicle
2/2/2018	UCFP325	F	3	CR835, 1/2 mi south Dooley Gr Rd, Hendry County	Vehicle
2/3/2018	UCFP326	F	5 mo.	CR835, 1/2 mi south Dooley Gr Rd, Hendry County	Vehicle
2/5/2018	UCFP327	M	4 mo.	Immokalee Rd south of Stockade St, Collier County	Vehicle
2/19/2018	UCFP328	F	5-6	Immokalee Rd, 8.8km east of Everglades Blvd, Collier Co.	Vehicle
2/22/2018	UCFP329	M	2	US27, 6km west of Clewiston, Hendry Co.	Vehicle
2/28/2018	UCFP330	F	5-6	SR 29 in Jerome, Collier Co.	Vehicle
2/28/2018	UCFP331	F	3	CR846, 2.5 miles west of County Line Rd, Collier County	Vehicle
3/14/2018	FP245	M	7	Immokalee Ranch, 2mi ESE of the Bishop Pens; Hendry Co.	Unknown
3/21/2018	FP236	M	9-10	Rock Rd, Golden Gate Estates, Collier County	Unknown
4/3/2018	UCFP332	F	3	SR 82, 332m west of Corkscrew Rd., Collier Co.	Vehicle
5/18/2018	UCFP333	M	2.5	I-75, 2km east of SR29, Collier County	Vehicle
6/20/2018	UCFP334	M	9 mo.	CR833 0.2 km north of CR832, Hendry County	Vehicle
6/25/2018	UCFP335	M	2	SR29 3km south of CR858, Collier County	Vehicle

<sup>a</sup> BCSIR = Big Cypress Seminole Indian Reservation; CREW = Corkscrew Regional Ecosystem Watershed; EVER = Everglades National Park; FPNWR = Florida Panther National Wildlife Refuge; FSPSP = Fakahatchee Strand Preserve State Park; NBCNP = Big Cypress National Preserve north of Interstate 75; OSSF = Okaloacoochee Slough State Forest; PSSF = Picayune Strand State Forest/Wildlife Management Area.; SBCNP = Big Cypress National Preserve south of Interstate 75.

<sup>†</sup> Information withheld. Under investigation.

## FPRMTF: FUNDING INFORMATION AS OF 30 JUNE 2018

Beginning Balance July 1, 2017	<u>\$2,043,515</u>
--------------------------------	--------------------

### Fiscal Year 2017-2018 Actual Revenue

Panther License Plate Annual Use Fees	\$ 1,167,145
Interest Earnings	29,613
Donations	4,100

<b>Total Revenue</b>	<b><u>\$1,200,858</u></b>
----------------------	---------------------------

### Fiscal Year 2017-2018 Expenditures

Law Enforcement	\$352,688
Panther Management	480,699
Panther Research	332,319
Administration Overhead	150,000
Service Charge to General Revenue	99,583

<b>Total Expenditures</b>	<b><u>\$1,415,289</u></b>
---------------------------	---------------------------

<b>Projected Fund Balance June 30, 2018</b>	<b><u>\$2,050,413</u></b>
---	---------------------------

### FWC Florida Panther Management Operating Program Appropriations

Division of Law Enforcement	\$348,938
Division of Habitat and Species Conservation	617,212
Fish and Wildlife Research Institute	383,500

<b>Total Florida Panther Program Appropriations</b>	<b><u>\$ 1,349,650</u></b>
---	----------------------------

1 October 2018