

2015.068

AZA CONTRACEPTIVE PATHOLOGY SURVEY

If no information is available please indicate so in the spaces provided

Submitting Veterinarian Dr. Julie Swenson

Institution: Fossil Rim Wildlife Center

Address: 2155 County Road 2008 Phone# ()

GLEN ROSE, TX 76043 E-mail

Species: CANIS LUPUS BAILEYI (MEXICAN WOLF) Sex: (M) F Body weight (kg):

SB# 656-PACO Local ID: 6017 House Name: PACO

Date of birth (D/M/Y) 29 May 2000 Date tract was obtained (D/M/Y) 05 Aug 15

Cause of death/ indication for spay/castration Declining quality of life

Has this animal spent its entire reproductive life at your zoo? Y (N)

For females, according to the animal's record:

Did this animal show signs of estrus while treated? Y N Was breeding ever attempted? Y N

Dates of pregnancies, if any: _____

CONTRACEPTIVE HISTORY

Never contracepted

If more space is needed, please use the back

Product	Dose (g) or # of Implants	Animal weight (kg)	Date implanted or administered	Date removed
VASECTOMY		35.84	04 Oct 2007	N/A

OTHER PROBLEMS THAT MAY HAVE AFFECTED REPRODUCTION? (use the back if needed)

Please send tissues and form to: **Dr. Dalen Agnew**

Attn: Histo Research; Diagnostic Center for Population and Animal Health; 4125 Beaumont Rd. Lansing, MI USA 48910-8104 Phone: 517-353-1683.

Questions: agnewd@dcpah.msu.edu or anneke_moresco@hotmail.com

Specimen Report



ISIS GAN MIG12-29182352

Local ID: FOSSILRIM / 6017

Canis lupus baileyi

Mexican wolf

Order Carnivora

Family Canidae

IUCN Least Concern (LC)

CITES II

Start Date Jan 01, 1800

End Date Aug 08, 2015

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Basic Animal Information

Sex - Contraception Male - Medical method-surgical/Active [FOSSILRIM]
Birthdate - Age May 29, 2000 - 15Y,2M,10D
Origin Detroit Zoological Society
Birth Type Captive Born
Sire MIG12-29853530 (DETROIT / 7066)
Current Collection Main Institution Animal Collection
Clutch / Litter

Status Alive
Preferred ID FOSSILRIM / 6017
Rearing Parent
Hybrid Status Not Hybrid
Dam MIG12-29925506 (DETROIT / 7624)
Collection Trip
Enclosure IMA

Local Data Differences

Sire M7066/DETROIT
Dam F6724/DETROIT

Visit History

Date in	Acquisition - Vendor/Local ID	Phy	Own	Reported By	Disposition - Recipient/Local ID	Phy	Own	Date Out
May 29, 2000	Birth/Hatch Owner: USFWS/656	In	-	DETROIT / 7923	Loan Transfer To WCSRC/200112	Out	-	Nov 29, 2001
Nov 29, 2001	Loan In From Sender: DETROIT/7923 Vendor: USFWS/656	In	-	WCSRC / 200112	Loan Transfer To COLO SPRG/22M020	Out	-	Jun 27, 2002
Jun 27, 2002	Loan In From Sender: WCSRC/200112 Vendor: USFWS/656	In	-	COLO SPRG / 22M020	Loan Transfer To FOSSILRIM/656	Out	-	Oct 24, 2004
Oct 24, 2004	Loan In From Sender: COLO SPRG/22M020 Vendor: USFWS/656	In	-	FOSSILRIM / 6017		-	-	

Identifiers

Reported By	Effective Date	Type	Identifier	Location	Status	Comments
FOSSILRIM	Oct 24, 2004	Local ID	6017		Active	
FOSSILRIM	Jul 13, 2003	Transponder	035372797		In-Use	
COLO SPRG	Jul 13, 2003	Transponder	035-372-797		In-Use	
COLO SPRG	Jul 13, 2003	Regional Studbook Number	AZA/656		Active	Legacy SLocation: AZA Legacy Comment:
WCSRC	Aug 18, 2002	Old Accession Number	200112		Active	
COLO SPRG	Jun 27, 2002	House Name	Paco		Active	
FOSSILRIM	Jun 27, 2002	Regional Studbook Number	AZA/656		Active	Legacy SLocation: AZA Legacy Comment:
FOSSILRIM	Jun 27, 2002	Studbook Name	#656-Paco		Active	
COLO SPRG	Jun 27, 2002	Local ID	22M020		Active	
WCSRC	Nov 29, 2001	Local ID	200112		Active	
WCSRC	Aug 30, 2000	House Name	Paco		Active	
DETROIT	Aug 30, 2000	House Name	PACO		Active	
WCSRC	Aug 30, 2000	Studbook Name	Paco		Active	
DETROIT	Jul 19, 2000	Transponder	035*372*797		In-Use	Legacy SLocation: Behind L ear Legacy Comment:
WCSRC	Jul 19, 2000	Transponder	035-372-797		In-Use	Legacy SLocation: Behind L ear Legacy Comment:
DETROIT	May 29, 2000	Intl Stdbk#	656		Active	
DETROIT	May 29, 2000	Local ID	7923		Active	
WCSRC	May 29, 2000	Intl Stdbk#	656		Active	

Sex Information

Reported By	Date	Sex	Comments
FOSSILRIM	Nov 17, 2004	Male	
COLO SPRG	Jun 27, 2002	Male	
WCSRC	Nov 29, 2001	Male	
DETROIT	May 29, 2000	Male	

Parent Info

Reported By	Date	Type	Value	Units	Comments
FOSSILRIM	Jan 31, 2012	Live weight	35.74	kilogram	
FOSSILRIM	Jan 31, 2012	Live weight	78.4	pound	
FOSSILRIM	Oct 04, 2007	Live weight	35.84	kilogram	
FOSSILRIM	Apr 05, 2007	Live weight	34.30	kilogram	
COLO SPRG	Nov 05, 2003	Live weight	32.67	kilogram	
DETROIT	Oct 06, 2000	Live weight	20.42	kilogram	Migrated from MedARKS Clinical Notes module.
DETROIT	Sep 06, 2000	Live weight	14.52	kilogram	Migrated from MedARKS Clinical Notes module.
DETROIT	Jul 19, 2000	Live weight	7.105	kilogram	Migrated from MedARKS Clinical Notes module.
DETROIT	Jul 19, 2000	Live weight	7105.0	gram	

No Lengths Found

Training Info List

Feed Log

Date	Time	Food	Quantity	Consumed	Fed By	Comments
Dec 09, 2012		Purina Pro Plan Lamb and Rice	1 units			Group left 2 scoops of Purina from AM diet (1.2 MGW)
Dec 07, 2012		Purina Pro Plan Lamb and Rice	1 units			Group Left 1 3/4 scoop of Purina from AM diet (1.2 MGW)
Dec 06, 2012		Horse Necks	4 units	4 units		Group received 4 horse necks in PM (1.2 MGW)
Dec 06, 2012		Purina Pro Plan Lamb and Rice	1 units			Group left 2 scoops of Purina from AM diet (1.2 MGW)
Dec 05, 2012		Purina Pro Plan Lamb and Rice	1 units			Group left 1 1/4 scoop of Purina from AM diet (1.2 MGW)
Dec 03, 2012		Purina Pro Plan Lamb and Rice	1 units		Jordan Maupin	Group left 1 1/2 scoops of Purina from AM diet (1.2 MGW)
Dec 02, 2012		Purina Pro Plan Lamb and Rice	1 units			Group left 3 scoops of Purina from AM diet
Dec 01, 2012		Purina Pro Plan Lamb and Rice	1 units			Group left 1/3 scoop of Purina from AM diet
Nov 30, 2012		Purina Pro Plan Lamb and Rice	1 units			Group Left 2 1/4 scoop of Purina (1.2 MGW)
Nov 29, 2012		Purina Pro Plan Lamb and Rice	1 units			Group left 3/4 scoop of Purina from AM diet (1.2 MGW)
Nov 28, 2012		Purina Pro Plan Lamb and Rice	1 units		Jordan Maupin	Group left 1 1/4 scoop of Purina from AM diet (1.2 MGW)
Nov 27, 2012		Purina Pro Plan Lamb and Rice	1 units		Jordan Maupin	Group left 1/4 scoop of Purina from AM diet (1.2 MGW)
Nov 26, 2012		Purina Pro Plan Lamb and Rice	1 units		Jordan Maupin	Group left 3 1/2 scoops of Purina from AM diet, only ate 1/4 scoop between all 3. (1.2 MGW)
Nov 25, 2012		Purina Pro Plan Lamb and Rice	1 units		Jordan Maupin	Group left 1 1/4 scoop of Purina from AM diet (1.2 MGW)
Nov 21, 2012		Purina Pro Plan Lamb and Rice	1 units		Jordan Maupin	Group left 2 1/2 scoops of Purina from AM diet (1.2 MGW)
Nov 20, 2012		Purina Pro Plan Lamb and Rice	1 units		Jordan Maupin	Group left 1 scoop of Purina from AM diet (1.2 MGW)
Nov 19, 2012		Purina Pro Plan Lamb and Rice	1 units		Jordan Maupin	Group left 3/4 scoop of Purina from AM diet (1.2 MGW)
Nov 09, 2012		Purina Pro Plan Lamb and Rice	1 units		Jordan Maupin	Group left 2 scoops of Purina from AM diet (1.2 MGW)
Oct 26, 2012		Head of Lettuce	1 units			Received 1 head of lettuce for enrichment
Oct 25, 2012		Purina Pro plan Lamb and Rice	1 units			Group left 2/3 scoop of kibble from AM diet (1.2 MGW)
Oct 23, 2012		Purina Pro Plan Lamb and Rice	1 units		Jordan Maupin	Group left 3/4 scoop of Purina (1.2 MGW)
Oct 20, 2012		Hard-boiled egg without shell	1 units	1 units		Received 1 hard-boiled egg without the shell for enrichment
Oct 13, 2012		Purina Pro Plan Lamb and Rice	1 units		Jordan Maupin	Group left 2 1/4 scoops of Purina (1.2 MGW)
Oct 12, 2012		Purina Pro Plan Lamb and Rice	1 units			Group left 3 scoops of Purina (1.2 MGW)
Oct 11, 2012		Purina Pro Plan Lamb and Rice	1 units			2 scoops of Purina left in group (1.2 MGW)
Oct 03, 2012		Horse Neck	1 units	1 units	Jordan Maupin	Received 1 horse neck in AM

No Alerts Found

Notes/Observations

<u>reported by</u>	<u>text</u>
FOSSILRIM	Date: Dec 04, 2013 Type/Subtype: Animal Care/Medical Treatment (MT) Keyword: Monthly Meds Received sentinel and Praziquantel
FOSSILRIM	Date: Nov 06, 2013 Type/Subtype: Animal Care/Medical Treatment (MT) Keyword: Monthly meds Received Sentinel
FOSSILRIM	Date: Oct 07, 2013 Type/Subtype: Animal Care/Medical Treatment (MT) Keyword: Monthly meds Received Sentinel
FOSSILRIM	Date: Sep 10, 2013 Type/Subtype: Animal Care/Medical Treatment (MT) Keyword: Monthly meds Received Sentinel and Praziquantel
FOSSILRIM	Date: Jul 31, 2013 Type/Subtype: Animal Care/Medical Treatment (MT) Keyword: Monthly meds Received Sentinel
FOSSILRIM	Date: Jul 03, 2013 Type/Subtype: Animal Care/Medical Treatment (MT) Keyword: Monthly meds Received Sentinel
FOSSILRIM	Date: Jun 26, 2013 Type/Subtype: Animal Care/Medical Treatment (MT) Keyword: - Finished Chlorpheniramine
FOSSILRIM	Date: Jun 12, 2013 Type/Subtype: Animal Care/Medical Treatment (MT) Keyword: - Started 8mg of Chlorpheniramine BID for 14 days due to seasonal allergies
FOSSILRIM	Date: May 29, 2013 Type/Subtype: Animal Care/Medical Treatment (MT) Keyword: Monthly meds Received Sentinel and Praziquantel
FOSSILRIM	Date: Apr 29, 2013 Type/Subtype: Animal Care/Medical Treatment (MT) Keyword: Monthly meds Received Ivermectin and Lufenuron
FOSSILRIM	Date: Apr 08, 2013 Type/Subtype: Animal Care/Medical Treatment (MT) Keyword: Monthly meds Received Ivermectin and Lufenuron
FOSSILRIM	Date: Mar 04, 2013 Type/Subtype: Animal Care/Medical Treatment (MT) Keyword: Monthly meds Received Ivermectin, Lufenuron, and Praziquantel
FOSSILRIM	Date: Feb 19, 2013 Type/Subtype: Animal Care/Immobilization (MI) Keyword: - Darted in holding yard. Went in calmly. Mass on his back-size of a golf ball. Removed mass. teeth looked great, a little thin but still good condition for age. recovered quicker and easier than previous year. 2 hours after KD, shaking head, foaming at the mouth, and heaving. Gave him Benadryl for possible drug reaction. Acted very comfortable in holding yard. Still acting same as he was before bendadryl, let him into yard with girls. Very calm and he laid down in back of yard. fine in PM, but still shaking head slightly.
FOSSILRIM	Date: Dec 17, 2012 Type/Subtype: Animal Care/Medical Observation (MO) Keyword: Limp Paco has a slight limp on his right front leg. He is still very active and jumping around, so it doesn't seem to bother him too bad.

Reported By

Text

DETROIT

Date: Jul 19, 2000 | Type/Subtype: Animal Information/Identification Obsolete (ID) | Keyword: Identification
White tip on tail [[NLB]]

DETROIT

Date: May 29, 2000 | Type/Subtype: Sex Information/Sexing Information | Keyword: EDU Process Sex Record
Legacy data sex record: Date = 2000-05-29, Sex = Male, Comment = (no comment)

Report Start Date
May 08, 2015

Necropsy Case Report

Report End Date
Aug 08, 2015



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6017 | Mexican wolf / *Canis lupus baileyi* | MIG12-29182352

Individual

Sex: Male Birth Date: May 29, 2000

Age at Submission Date: 15Y,2M,7D

Case Info

Case Number	Responsible Pathologist	Responsible Resident
2015-0065	Michael Garner	-
Parties to Get Copy of Final Report		
Mary Jo Stearns		

Necropsy Submission

Death Date	Date Submitted	Date Discovered	Submitted By	Manner of Death	Carcass Weight	Death Location
Aug 05, 2015	Aug 05, 2015	-	Julie Swenson	Euthanasia, medical	-	IMA

Recent History/Observations

Declining quality of life for past several months.

Special Request

Per SSP:

Reproductive tract to be sent to Dr. Dalen Agnew at MSU

Carcass to be sent to Museum of Southwestern Biology at the U of New Mexico

Frozen tissues to be kept at FRWC: liver, brain, kidney, plasma, serum, small intestines, lung, spleen, lymph node.

Frozen tissues to be sent with carcass: heart, kidney, spleen, lung

Gross Necropsy

Necropsy Date	Carcass Condition	Necropsy Location	Necropsy Prosector
Aug 05, 2015	Fresh	OAK TRAP	Julie Swenson
Report Date	Additional Staff		
Aug 05, 2015	Brad SoRelle, Lindsay Cosmi, Preceptor Vet		

Gross Necropsy Findings:

Integumentary: Large, pedunculated skin mass on the back of the skull, ~2 cm across the base and 6 cm long, darkly pigmented with no fur present, slight oozing of blood and purulent liquid at the base. Second and third mass, similar in appearance but smaller in size present along the right side of the face. Significant alopecia across neck and shoulders.

Special Senses: Nuclear sclerosis bilaterally. Moderate waxy debris AU.

Musculoskeletal: Significant muscle wasting. Multiple joints swollen and enlarged including both stifles and (mild) both carpi.

Serosal Cavities: Several small (<0.5 cm) nodules within the omentum, on cut surface appear to be fibrous tissue.

Respiratory: Moderate pulmonary congestion. Scattered white foci throughout all lung fields (fibrosis)

Cardiovascular: right heart appears subjectively dilated with some palpable thickening of the valve leaflets.

Oral Cavity: Multiple worn teeth. One upper incisor (right I3) is discolored.

Esophagus: NGL

Stomach: Significant greenish yellow to white frothy material within stomach, no significant food component seen. Multiple pinpoint to coalescing ulcers in the stomach mucosa. None appear to be full thickness.

Intestines: Abnormal omental adhesion near the ileocecal junction, does not appear to be causing any type of partial or complete obstruction. Area of erythema within the mucosa at the ileocecal junction

Liver: Mild to moderate mottling of the surface of the liver. Several areas near the tips of the lobes that contain white fibrotic areas. Two apparent hepatic abscesses noted, both small (< 1cm).

Gall Bladder: NGL

Pancreas: NGL

Spleen: NGL

Lymphatic: NGL

Urogenital: Moderate congestion of the kidneys with fibrosis visible on the exterior surface. Possible area of infarct in the cortex of the right kidney.

Endocrine: NGL

Neurologic: NGL

Other: N/A