

Wildlife Genetics Proficiency Testing Program –Test # 022013

Consensus Report 05/03/2013

Test Start Date -02/20/2013 Test Due Date -04/26/2013

This document reports the results of the Wildlife Genetics Proficiency Testing Program. The National Fish and Wildlife Forensic Laboratory was the duty Lab and was responsible for sample preparation, sample verification, distribution, and gathering and reporting the results.

The results are self explanatory and are divided into three sections:

- 1. Results of Test for Species Origin
- 2. Results of Determination of Gender Origin
- 3. Results of Individual Identification

Each section contains the following:

- 1. The species source that you identified for Items 1, 2 and 3.
- 2. The methods used to make these identifications.

Scenario

A Wildlife Agent is investigating a poaching incident involving mule deer. The suspect claims the meat in his freezer is coming from one mule deer. All three tissue samples were recovered from the suspect's freezer.

The Agent requests that the species and gender origins of all submitted evidence be determined. He is also interested in knowing whether the three submitted evidence items are from the same individual animal. It is not known where the poaching incident occurred.

Items Submitted

Item 1: Tissue from suspect's freezer.

Item 2: Tissue from suspect's freezer.

Item 3: Tissue from suspect's freezer.



Wildlife Genetics Proficiency Testing Program Answers:

	Item 1	Item 2	Item 3
Species Origin	Mule Deer	White-tailed Deer	White-tailed Deer
	(Odocoileus	(Odocoileus	(Odocoileus
	hemionus)	virginianus)	virginianus)
Gender Origin	Male	Female	Female
Accession No.	QA2L56-QA2M24	QA2P73-QA3A41	QA2P73-QA3A41
Provider	Wyoming Game and Fish	Idaho Fish and Game	Idaho Fish and Game
Original ID	STK02, HA81/82	GMU32/39, Hwy55	GMU32/39, Hwy55
	Platte River	Gardena and Banks	Gardena and Banks
	Wilderness Area		

Items 2 and 3 are from the same individual

The results of pre-distribution testing confirmed the expected results.

Society for Wildlife Forensic Science Develop Wildlife Forensic Science into a comprehensive, integrated and mature discipline.

I) Compilation of Species Origin Results

1 **Species Source**

Lab	Item 1	Item 2	Item 3
I3K48M-1	Odocoileus hemionus	Odocoileus virginianus	Odocoileus virginianus
I3K48M-2	Odocoileus hemionus	Odocoileus virginianus	Odocoileus virginianus
M3B22N	Odocoileus hemionus	Odocoileus virginianus	Odocoileus virginianus
	Mule Deer	WTD	WTD
J4L18F	Mule Deer	White-tailed Deer	White-tailed Deer
B5H06W	Odocoileus hemionus	Odocoileus virginianus	Odocoileus virginianus
	Mule Deer	White-tailed Deer	White-tailed Deer
B7H20L	Odocoileus sp.	Odocoileus sp.	Odocoileus sp.
D6S24F	Odocoileus hemionus	Odocoileus virginianus	Odocoileus virginianus
S2F23G	Odocoileus sp.	Odocoileus sp.	Odocoileus sp.
R2J94A-1	Odocoileus sp.	Odocoileus sp.	Odocoileus sp.
	White-tail vs Mule deer not	White-tail vs Mule deer not	White-tail vs Mule deer not
	determined due to lack of	determined due to lack of	determined due to lack of
	geographic information	geographic information	geographic information
R2J94A-2	Odocoileus sp.	Odocoileus sp.	Odocoileus sp.
	Note: Unable to	Note: Unable to	Note: Unable to
	differenciate between	differenciate between	differenciate between
	White-tailed deer and Mule	White-tailed deer and Mule	White-tailed deer and Mule
	deer due to lack of	deer due to lack of	deer due to lack of
	geographical information	geographical information	geographical information
R2J94A-3	Odocoileus sp.	Odocoileus sp.	Odocoileus sp.
	Cannot differentiate	Cannot differentiate	Cannot differentiate
	between White-tailed +	between White-tailed +	between White-tailed +
	Mule deer due to lack of	Mule deer due to lack of	Mule deer due to lack of
	geographic information	geographic information	geographic information
P2W87T-1	Odocoileus hemionus	Odocoileus virginianus	Odocoileus virginianus
	Mule Deer	White-tailed Deer	White-tailed Deer
P2W87T-2	Odocoileus hemionus	Odocoileus virginianus	Odocoileus virginianus
	hemionus Mule Deer	White-tailed Deer	White-tailed Deer
K2R46H	Odocoileus hemionus	Odocoileus virginianus	Odocoileus virginianus
	Mule Deer	White-tailed Deer	White-tailed Deer
D3H13G-1	Odocoileus hemionus	Odocoileus virginianus	Odocoileus virginianus
	Mule Deer	WTD	WTD
D3H13G-2	Odocoileus hemionus	Odocoileus virginianus	Odocoileus virginianus
	Mule Deer	WTD	WTD
D3H13G-3	Odocoileus hemionus	Odocoileus virginianus	Odocoileus virginianus
	Mule Deer	WTD	WTD
C3F65S	Odocoileus hemionus	Odocoileus virginianus	Odocoileus virginianus
M1S68R	Odocoileus hemionus	Odocoileus virginianus	Odocoileus virginianus

	Mule Deer	White-tailed Deer	White-tailed Deer
B4W11V-1	Odocoileus hemionus	Odocoileus virginianus	Odocoileus virginianus
B4W11V-2	Odocoileus hemionus	Odocoileus virginianus	Odocoileus virginianus
B4W11V-3	Odocoileus hemionus	Odocoileus virginianus	Odocoileus virginianus
J2R15F-1	Odocoileus hemionus	Odocoileus virginianus	Odocoileus virginianus
	Mule Deer	White-tailed Deer	White-tailed Deer
J2R15F-2	Odocoileus hemionus	Odocoileus virginianus	Odocoileus virginianus
	Mule Deer	White-tailed Deer	White-tailed Deer
K1W95S-1	Odocoileus sp. (most likely	Odocoileus sp.	Odocoileus sp.
K1W95S-3	O. hemionus Mule Deer)	(most likely O. virginianus	(most likely O. virginianus
K1W95S-4		White-tailed Deer)*	White-tailed Deer)*
		*Based on WDFW's	*Based on WDFW's
		Washington baseline	Washington baseline
K1W95S-2	Odocoileus spp.	Odocoileus spp.	Odocoileus spp.
K1W95S-3	Deer	Deer	Deer
K1W95S-4			
R4R65C-1	Odocoileus sp.	Odocoileus sp.	Odocoileus sp.
R4R65C-2			
C3F54C	Inconclusive*	White-tailed deer	White-tailed deer
	failure to amplify some of		
	the markers used to sort		
	Mule deer from White-tail		
	using structure analysis		
	*We do not guarantee our		
	customers the ability to		
	discern White-tail deer		
	from Mule deer, this is		
	clearly stated on our Fee		
	schedule form		
B4C27D	Odocoileus virginianus or	Odocoileus virginianus	Odocoileus virginianus
	hemionus	O	Ŭ
R9H57A	Odocoileus hemionus	Odocoileus sp.	Odocoileus sp.
		Inconsistent results in	Inconsistent results in
		NCBI-Blast: come as	NCBI-Blast: come as
		O.virginianus and O.	O.virginianus and O.
		hemionus	hemionus
J3V67H	Odocoileus hemionus	Odocoileus virginianus	Odocoileus virginianus

Develop Wildlife Forensic Science into a comprehensive, integrated and mature discipline.

2 Methods Used

Lab	Methods/ Genetic Marker(s)	
I3K48M-1	DNA Sequence Analysis/ D-loop Hemopexin-5	
I3K48M-2	DNA Sequence Analysis/ mtDNA d-loop, Bexon 4 (serum albumin)	
M3B22N	DNA Sequence Analysis/ Cyt b sequence	
	STR Analysis/ Cervid STR panel	
J4L18F	DNA Sequence Analysis/ Cyt-b seq analysis	
	STR Analysis/ Cervid STR panel	
B5H06W	DNA Sequence Analysis/ Portion of the Cyt B/Central Region genes	
	STR Analysis/8 STR loci – Deer STR Panel	
B7H20L	DNA Sequence Analysis	
D6S24F	DNA Sequence Analysis/ Cytochrome b	
	STR Analysis/ Cervid panel	
S2F23G	DNA Sequence Analysis/ mtDNA cytochrome b, 5' end	
R2J94A-1	DNA Sequence Analysis/ Fragment of mitochondrial 16S ribosomal RNA gene	
R2J94A-2	DNA Sequence Analysis/ Fragment of mitochondrial 16S ribosomal RNA gene	
R2J94A-3	DNA Sequence Analysis/ segment of mitochondrial 16S ribosomal RNA gene	
P2W87T-1	DNA Sequence Analysis/ Analysis of cytochrome b region	
P2W87T-2	DNA Sequence Analysis/ Analysis of cytochrome B region of mtDNA	
K2R46H	Immunodiffusion/ Ouchterlony – (Cervid, Bovine & Ursid)	
	Isozyme Analysis/ PGI, SOD & EAP	
	Isoelectric Focusing	
D3H13G-1	Isoelectric Focusing/ Phosphoglucose Isomerase and Albumin	
	Counter Immunoelectrophoresis	
D3H13G-2	Isoelectric Focusing/ Phosphoglucose Isomerase and Albumin	
	Counter Immunoelectrophoresis	
D3H13G-3	Isoelectric Focusing/ Phosphoglucose Isomerase and Albumin	
COECEG	Counter Immunoelectrophoresis	
C3F65S	Immunodiffusion/ Counter immunoelectrophoresis	
	Isoelectric Focusing/ Phosphoglucose Isomerase	
M1S68R	Other/ Albumin Western blot Immunodiffusion/ Ouchterlony - Deer anti-serum	
WIISOOK	Isoelectric Focusing/ PGI (IEF3-9); EAP (IEF5-8)	
D437/1137/1		
B4W11V-1	DNA Sequence Analysis/ Cytochrome b	
B4W11V-2	STR Analysis/ FCB193 -2 DNA Sequence Analysis/ Cytochrome b	
D+W11V-2	STR Analysis/ FCB193	
B4W11V-3		
D4W11V-3	DNA Sequence Analysis/ Cytochrome b STR Analysis/ FCB193	
IOD 15E 1	-	
J2R15F-1	Immunodiffusion/ Ouchterlony (Anti-Cervid)	
IOD 15E 2	Isozyme Analysis/ PGI & EAP with Phast System	
J2R15F-2	Immunodiffusion/ Ouchterlony using Cervid antiserum Isoelectric Focusing/ PGI & EAP with Phast System	
	1 isociceure rocusing/ rot & EAF with rhast System	

K1W95S-1 K1W95S-3 K1W95S-4	DNA Sequence Analysis/ 12s rRNA
K1W95S-2 K1W95S-3 K1W95S-4	DNA Sequence Analysis/ 12s rRNA mtDNA sequencing
R4R65C-1 R4R65C-2	DNA Sequence Analysis/ Cytochrome B
C3F54C	DNA Sequence Analysis/ Cytochrome b Structure Analysis A data set using the genotypes of 50 Mule deer & 50 White-tail deer was used to run a structure analysis.
B4C27D	DNA Sequence Analysis/ COI and Cyt B – Big Dye Terminator v.3.1 STR Analysis/ Custom 19 marker panel
R9H57A	DNA Sequence Analysis/ Cyt b - Sanger Sequencing
J3V67H	DNA Sequence Analysis/ cytochrome – B, D-loop

Society for Wildlife Forensic Science Develop Wildlife Forensic Science into a comprehensive, integrated and mature discipline.

II) Compilation of Gender Origin Results

1 **Gender Origin**

Lab	Item 1	Item 2	Item 3
I3K48M-1	Male	Female	Female
I3K48M-2	Male	Female	Female
M3B22N	Male	Female	Female
J4L18F	Male	Female	Female
B5H06W	Male	Female	Female
B7H20L	Male	Female	Female
D6S24F	Male	Female	Female
S2F23G	Male	Female	Female
R2J94A-1	Test not performed because it	Test not performed because it	Test not performed because it
	is not validated for casework	is not validated for casework	is not validated for casework
R2J94A-2	This test was not performed	This test was not performed	This test was not performed
	because it is not validated for	because it is not validated for	because it is not validated for
	case work	case work	case work
R2J94A-3	not performed because no	not performed because no	not performed because no
	validated sex-typing test for	validated sex-typing test for	validated sex-typing test for
	deer in lab	deer in lab	deer in lab
P2W87T-1	Male	Female	Female
P2W87T-2	Male	Female	Female
K2R46H	Male	Female	Female
D3H13G-1	Male	Female	Female
D3H13G-2	Male	Female	Female
D3H13G-3	Male	Female	Female
C3F65S	Male	Female	Female
M1S68R	Male	Female	Female
B4W11V-1	Male	Female	Female
B4W11V-2	Male	Female	Female
B4W11V-3	Male	Female	Female
J2R15F-1	Male	Female	Female
J2R15F-2	Male	Female	Female
K1W95S-1	Male	Female	Female
K1W95S-3			
K1W95S-4			
K1W95S-2	Male	Female	Female
K1W95S-3			
K1W95S-4			
R4R65C-1	Male	Female	Female
R4R65C-2			
C3F54C	Male	Female	Female
B4C27D	Male	Female	Female



J3V67H

Male

R9H57A	Male	Female	Female

Female

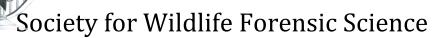
Female

Develop Wildlife Forensic Science into a comprehensive, integrated and mature discipline.

2 Methods Used

Lab	Methods/ Genetic Marker(s)	
I3K48M-1	PCR ZF/XY amplimers	
I3K48M-2	PCR ZF/XY amplimers	
M3B22N	PCR amplification of portions of the SRY locus, visualization by capillary electrophoresis &	
	laser detection of male band	
J4L18F	PCR of SRY region	
B5H06W	Fragment analysis/ C. Electrophoresis testing for the presence or absence of a portion of the SRY gene linked to the male sex chromosome of mammals.	
B7H20L	PCR amplification of sex-linked DNA markers	
D6S24F	PCR amplification of a portion of the SRY gene	
S2F23G	PCR amplification of diagnostic mammalian sex chromosome markers SRY (HMG region); ZFX (Last exon, 5' end).	
R2J94A-1	-	
R2J94A-2	-	
R2J94A-3	N/A	
P2W87T-1	Amplified nuclear DNA (Zfx/Zfy genes on X & Y chromosomes) and ran product on 1.5% Agarose gel.	
P2W87T-2	PCR amplification of nuclear DNA using 2 sets of primers – one specific to region on Y chromosome + the other specific to region on X chromosome (3C & 3D, Zfx & Zfy). The amplified product was run on a gel to determine the gender (2 bands=male, 1 band=female).	
K2R46H	PCR amplification/analysis of the ZFX/ ZFY control region and SRY region through capillary electrophoresis fragment analysis	
D3H13G-1	Amplification of the zinc finger protein of the X- chromosome and the testes determining factor of the Y- chromosome (if present) using PCR	
D3H13G-2	Amplification of the zinc finger protein of the X- chromosome and the testes determining factor of the Y- chromosome (if present) using PCR	
D3H13G-3	Amplification of the zinc finger protein of the X- chromosome and the testes determining factor of the Y- chromosome (if present) using PCR	
C3F65S	Amplification of the Zfx region on the X-chromosome and the SRY region of the Y-chromosome	
M1S68R	PCR amplification of SRY gene visualized using capillary electrophoresis	
B4W11V-1	Amplification of SRY and CELB9 using dye-labeled primers	
B4W11V-2	Amplification of SRY and CELB9 using dye-labeled primers	
B4W11V-3	Amplification of SRY and CELB9 using dye-labeled primers	
J2R15F-1	ZFX/ SRY PCR gender typing	
J2R15F-2	PCR-based typing using ZFx & Sry genetic markers	
K1W95S-1 K1W95S-3 K1W95S-4	SRY - sex- determining region Y chromosome ZF - zinc finger (X chromosome control)	

K1W95S-2	SRY - sex- determining region Y chromosome
K1W95S-3	ZF - zinc finger (X chromosome control)
K1W95S-4	
R4R65C-1	USFW method 'PCR Gender Typing of Mammals' NFWFL DNA-016 ver. 01-09-2009
R4R65C-2	Detection of ZFX/ZFY and SRY genes
C3F54C	PCR amplification of ZFX on the X chromosome & SRY on the Y chromosome
B4C27D	PCR fragment analysis markers Sry & Zfx
R9H57A	PCR amplification of amelogenin and agarose gel electrophoresis diagnosis using two set of primers: K41/K42 - Yamauchi et al.(2000) SE47/SE48 – Ennis and Gallagher (1994)
J3V67H	PCR and gel electrophoresis using primer set CerSRY and primer set CerzFXY



Develop Wildlife Forensic Science into a comprehensive, integrated and mature discipline.

III) Compilation of Individual Identification Results

Lab	Individual typing is not performed on the following species identified in this proficiency test	1) What could be the minimum number of animals represented in these 3 samples?	2) Which samples have the same genetic profile?
I3K48M-1	-	2	Item 2 & Item 3
I3K48M-2	-	2	Item 2 & Item 3
M3B22N	-	2	Item 2 and Item 3
J4L18F	-	2	Items 2 & 3
B5H06W	-	2	Item 2 & Item 3
B7H20L	-	-	-
D6S24F	-	2	PT-2 & PT-3
S2F23G	-	-	-
R2J94A-1	-	Two (2)	Item 2 and Item 3
R2J94A-2	-	Two (2)	Item 2 and Item 3
R2J94A-3	none	2	Item 2 and Item 3
P2W87T-1	N/A	2	Sample 2 & Sample 3 (Based on 8 microsatellite loci, Sample 2 & Sample 3 cannot be excluded as originating from the same animal).
P2W87T-2	-	-	-
K2R46H	none	2	Item 2 and Item 3
D3H13G-1	-	2	Items #2 and 3
D3H13G-2	-	2	Items #2 and 3
D3H13G-3	-	2	Items #2 and 3
C3F65S	Odocoileus hemionus	2	Items 2 and 3
M1S68R	-	2	Item 2 and Item 3
B4W11V-1	-	2	Items 2 & 3
B4W11V-2	-	2	Items 2 & 3
B4W11V-3	-	2	Items 2 & 3
J2R15F-1	Odocoileus virginianus White-tailed Deer	-	-
J2R15F-2	Odocoileus virginianus White-tailed Deer	-	-
K1W95S-1 K1W95S-3 K1W95S-4	-	2	Items #2 and #3 have the same genetic profile
K1W95S-2 K1W95S-3 K1W95S-4	-	2	Items 2 and 3 were both identified as female deer (<i>Odocoileus spp.</i>) and had identical STR genotypes.

R4R65C-1	Item 1, 2 and 3	-	-
R4R65C-2			
C3F54C	-	2	Sample #2 & Sample #3
B4C27D	-	2	Item 2 and Item 3
R9H57A	-	2	Item 2 and 3
J3V67H	-	-	-

Society for Wildlife Forensic Science Develop Wildlife Forensic Science into a comprehensive, integrated and mature discipline.

3 **Methods Used**

	Lab	Methods/ Genetic Marker(s)
M3B22N STR Analysis/ Cervid 1, BM1225, T159S, RT24, BM4208, T7, BM4107, RT7, SRY J4L18F STR Analysis/ CBR1, BM1225, BM4207, RT24, BM4208, T7, T159S, RT7 B5H06W STR Analysis/ 8 STR loci; Cervid 1, BM1225, BM4107, RT24, BM4208, T7, T159S, RT7 B7H20L - D6S24F STR Analysis/ Cervid 1, BM1225, BM4107, RT24, BM4208, T7, T159S, RT7+SRY S2F23G - R2J94A-1 STR Analysis/ Deer Multiplex 1-BM4107, T7, OvirA, Rt30, Rt7 Deer Multiplex 2-Rt5, BM1225, OheN, BM4208, OheQ R2J94A-2 STR Analysis/ Multiplex 1-BM4107, T7, OvirA, Rt30, Rt7 Multiplex 2-Rt5, BM1225, OheN, BM4208, OheQ R2J94A-3 STR Analysis/ BM4107, T7, OvirA, Rt30, Rt7, Rt5, BM1225, OheN, BM4208, OheQ P2W87T-1 STR Analysis/ MAP2C, BM1225, RT9, RT24, IGF, BM4208, FCB193, RT30 P2W87T-2 - K2R46H STR Analysis/ CDFG's Suite of 8 nuclear loci: P, M, Q, D, N, K, R, O D3H13G-1 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 D3H13G-3 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 C3F65S STR Analysis/ RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107, T7, and BM4208	I3K48M-1	STR Analysis/ Cervid Loci (microsat) BM4513, BM1225, RT24, D, N
J4L18F STR Analysis/ CBR1, BM1225, BM4207, RT24, BM4208, T7, T159S, RT7 B5H06W STR Analysis/ 8 STR loci; Cervid 1, BM1225, BM4107, RT24, BM4208, T7, T159S, RT7 B7H20L - D6S24F STR Analysis/ Cervid 1, BM1225, BM4107, RT24, BM4208, T7, T159S, RT7+SRY S2F23G - R2J94A-1 STR Analysis/ Deer Multiplex 1-BM4107, T7, OvirA, Rt30, Rt7 Deer Multiplex 2-Rt5, BM1225, OheN, BM4208, OheQ R2J94A-2 STR Analysis/ Multiplex 1-BM4107, T7, OvirA, Rt30, Rt7 Multiplex 2-Rt5, BM1225, OheN, BM4208, OheQ R2J94A-3 STR Analysis/ BM4107, T7, OvirA, Rt30, Rt7, Rt5, BM1225, OheN, BM4208, OheQ P2W87T-1 STR Analysis/ MAP2C, BM1225, RT9, RT24, IGF, BM4208, FCB193, RT30 P2W87T-2 STR Analysis/ CDFG's Suite of 8 nuclear loci: P, M, Q, D, N, K, R, O D3H13G-1 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225, BM4107, T7 and BM4208 D3H13G-3 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225, BM4107, T7 and BM4208 D3H13G-3 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225, BM4107, T7 and BM4208 D3H13G-3 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225, BM4107, T7 and BM4208 D3H13G-3 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225, BM4107, T7 and BM4208 C3F65S STR Analysis/ RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107, RT3, RT34, RT30, INRA040,	I3K48M-2	STR Analysis/ RT9, BM1225, RT24, D, N
B5H06W STR Analysis/ 8 STR loci; Cervid 1, BM1225, BM4107, RT24, BM4208, T7, T159S, RT7 B7H20L - D6S24F STR Analysis/ Cervid 1, BM1225, BM4107, RT24, BM4208, T7, T159S, RT7+SRY S2F23G - R2J94A-1 STR Analysis/ Deer Multiplex 1-BM4107, T7, OvirA, Rt30, Rt7 Deer Multiplex 2-Rt5, BM1225, OheN, BM4208, OheQ R2J94A-2 STR Analysis/ Multiplex 1-BM4107, T7, OvirA, Rt30, Rt7 Multiplex 2-Rt5, BM1225, OheN, BM4208, OheQ R2J94A-3 STR Analysis/ BM4107, T7, OvirA, Rt30, Rt7, Rt5, BM1225, OheN, BM4208, OheQ P2W87T-1 STR Analysis/ MAP2C, BM1225, RT9, RT24, IGF, BM4208, FCB193, RT30 P2W87T-2- - K2R46H STR Analysis/ CDFG's Suite of 8 nuclear loci: P, M, Q, D, N, K, R, O D3H13G-1 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 D3H13G-3 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 C3F65S STR Analysis/ RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107	M3B22N	STR Analysis/ Cervid 1, BM1225, T159S, RT24, BM4208, T7, BM4107, RT7, SRY
B7H20L - D6S24F STR Analysis/ Cervid 1, BM1225, BM4107, RT24, BM4208, T7, T159S, RT7+SRY S2F23G - R2J94A-1 STR Analysis/ Deer Multiplex 1-BM4107, T7, OvirA, Rt30, Rt7 Deer Multiplex 2-Rt5, BM1225, OheN, BM4208, OheQ R2J94A-2 STR Analysis/ Multiplex 1-BM4107, T7, OvirA, Rt30, Rt7 Multiplex 2-Rt5, BM1225, OheN, BM4208, OheQ R2J94A-3 STR Analysis/ BM4107, T7, OvirA, Rt30, Rt7, Rt5, BM1225, OheN, BM4208, OheQ P2W87T-1 STR Analysis / MAP2C, BM1225, RT9, RT24, IGF, BM4208, FCB193, RT30 P2W87T-2 - K2R46H STR Analysis/ CDFG's Suite of 8 nuclear loci: P, M, Q, D, N, K, R, O D3H13G-1 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 D3H13G-3 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 C3F65S STR Analysis/ RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107	J4L18F	STR Analysis/ CBR1, BM1225, BM4207, RT24, BM4208, T7, T159S, RT7
D6S24F STR Analysis/ Cervid 1, BM1225, BM4107, RT24, BM4208, T7, T159S, RT7+SRY S2F23G - R2J94A-1 STR Analysis/ Deer Multiplex 1-BM4107, T7, OvirA, Rt30, Rt7 Deer Multiplex 2-Rt5, BM1225, OheN, BM4208, OheQ R2J94A-2 STR Analysis/ Multiplex 1-BM4107, T7, OvirA, Rt30, Rt7 Multiplex 2-Rt5, BM1225, OheN, BM4208, OheQ R2J94A-3 STR Analysis/ BM4107, T7, OvirA, Rt30, Rt7, Rt5, BM1225, OheN, BM4208, OheQ P2W87T-1 STR Analysis/ MAP2C, BM1225, RT9, RT24, IGF, BM4208, FCB193, RT30 P2W87T-2 - K2R46H STR Analysis/ CDFG's Suite of 8 nuclear loci: P, M, Q, D, N, K, R, O D3H13G-1 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225, BM4107, T7 and BM4208 D3H13G-3 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225, BM4107, T7 and BM4208 C3F65S STR Analysis/ RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107, RT12, RT12, RT24, RT30, RT24, RT30, CERV1, ETH152, BM4107, RT12, RT32, RT424, RT30, RT44, RT30, CERV1, ETH152, RT41, RT52, RT41, RT52, RT424, RT430, RT41, RT41, RT41, RT41, RT424, RT430, RT41,	B5H06W	STR Analysis/ 8 STR loci; Cervid 1, BM1225, BM4107, RT24, BM4208, T7, T159S, RT7
S2F23G - R2J94A-1 STR Analysis/ Deer Multiplex 1-BM4107, T7, OvirA, Rt30, Rt7 Deer Multiplex 2-Rt5, BM1225, OheN, BM4208, OheQ R2J94A-2 STR Analysis/ Multiplex 1-BM4107, T7, OvirA, Rt30, Rt7 Multiplex 2-Rt5, BM1225, OheN, BM4208, OheQ R2J94A-3 STR Analysis/ BM4107, T7, OvirA, Rt30, Rt7, Rt5, BM1225, OheN, BM4208, OheQ P2W87T-1 STR Analysis / MAP2C, BM1225, RT9, RT24, IGF, BM4208, FCB193, RT30 P2W87T-2 - K2R46H STR Analysis/ CDFG's Suite of 8 nuclear loci: P, M, Q, D, N, K, R, O D3H13G-1 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 D3H13G-3 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 C3F65S STR Analysis/ RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107	B7H20L	-
R2J94A-1 STR Analysis/ Deer Multiplex 1-BM4107, T7, OvirA, Rt30, Rt7 Deer Multiplex 2-Rt5, BM1225, OheN, BM4208, OheQ R2J94A-2 STR Analysis/ Multiplex 1-BM4107, T7, OvirA, Rt30, Rt7 Multiplex 2-Rt5, BM1225, OheN, BM4208, OheQ R2J94A-3 STR Analysis/ BM4107, T7, OvirA, Rt30, Rt7, Rt5, BM1225, OheN, BM4208, OheQ P2W87T-1 STR Analysis / MAP2C, BM1225, RT9, RT24, IGF, BM4208, FCB193, RT30 P2W87T-2 - K2R46H STR Analysis/ CDFG's Suite of 8 nuclear loci: P, M, Q, D, N, K, R, O D3H13G-1 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225, BM4107, T7 and BM4208 D3H13G-3 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225, BM4107, T7 and BM4208 C3F65S STR Analysis/ RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107, T7 and BM4208	D6S24F	STR Analysis/ Cervid 1, BM1225, BM4107, RT24, BM4208, T7, T159S, RT7+SRY
Deer Multiplex 1-BM4107, T7, OvirA, Rt30, Rt7 Deer Multiplex 2-Rt5, BM1225, OheN, BM4208, OheQ R2J94A-2 STR Analysis/ Multiplex 1-BM4107, T7, OvirA, Rt30, Rt7 Multiplex 2-Rt5, BM1225, OheN, BM4208, OheQ R2J94A-3 STR Analysis/ BM4107, T7, OvirA, Rt30, Rt7, Rt5, BM1225, OheN, BM4208, OheQ P2W87T-1 STR Analysis / MAP2C, BM1225, RT9, RT24, IGF, BM4208, FCB193, RT30 P2W87T-2 K2R46H STR Analysis/ CDFG's Suite of 8 nuclear loci: P, M, Q, D, N, K, R, O D3H13G-1 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225, BM4107, T7 and BM4208 D3H13G-2 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225, BM4107, T7 and BM4208 D3H13G-3 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225, BM4107, T7 and BM4208 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225, BM4107, T7 and BM4208 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225, BM4107, T7 and BM4208 STR Analysis/ RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107, T7 and BM4208 STR Analysis/ RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107, T7 and BM4208	S2F23G	-
Deer Multiplex 2-Rt5, BM1225, OheN, BM4208, OheQ R2J94A-2 STR Analysis/ Multiplex 1-BM4107, T7, OvirA, Rt30, Rt7 Multiplex 2-Rt5, BM1225, OheN, BM4208, OheQ R2J94A-3 STR Analysis/ BM4107, T7, OvirA, Rt30, Rt7, Rt5, BM1225, OheN, BM4208, OheQ P2W87T-1 STR Analysis/ MAP2C, BM1225, RT9, RT24, IGF, BM4208, FCB193, RT30 P2W87T-2 - K2R46H STR Analysis/ CDFG's Suite of 8 nuclear loci: P, M, Q, D, N, K, R, O D3H13G-1 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225, BM4107, T7 and BM4208 D3H13G-2 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225, BM4107, T7 and BM4208 D3H13G-3 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225, BM4107, T7 and BM4208 C3F65S STR Analysis/ RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107, T7 and BM4208	R2J94A-1	STR Analysis/
R2J94A-2 STR Analysis/ Multiplex 1-BM4107, T7, OvirA, Rt30, Rt7 Multiplex 2-Rt5, BM1225, OheN, BM4208, OheQ R2J94A-3 STR Analysis/ BM4107, T7, OvirA, Rt30, Rt7, Rt5, BM1225, OheN, BM4208, OheQ P2W87T-1 STR Analysis/ MAP2C, BM1225, RT9, RT24, IGF, BM4208, FCB193, RT30 P2W87T-2 - K2R46H STR Analysis/ CDFG's Suite of 8 nuclear loci: P, M, Q, D, N, K, R, O D3H13G-1 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225, BM4107, T7 and BM4208 D3H13G-2 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225, BM4107, T7 and BM4208 D3H13G-3 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225, BM4107, T7 and BM4208 C3F65S STR Analysis/ RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107		Deer Multiplex 1-BM4107, T7, OvirA, Rt30, Rt7
Multiplex 1-BM4107, T7, OvirA, Rt30, Rt7 Multiplex 2-Rt5, BM1225, OheN, BM4208, OheQ R2J94A-3 STR Analysis/ BM4107, T7, OvirA, Rt30, Rt7, Rt5, BM1225, OheN, BM4208, OheQ P2W87T-1 STR Analysis / MAP2C, BM1225, RT9, RT24, IGF, BM4208, FCB193, RT30 P2W87T-2 - K2R46H STR Analysis/ CDFG's Suite of 8 nuclear loci: P, M, Q, D, N, K, R, O D3H13G-1 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 D3H13G-2 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 D3H13G-3 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 C3F65S STR Analysis/ RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107		Deer Multiplex 2-Rt5, BM1225, OheN, BM4208, OheQ
Multiplex 2-Rt5, BM1225, OheN, BM4208, OheQ R2J94A-3 STR Analysis/ BM4107, T7, OvirA, Rt30, Rt7, Rt5, BM1225, OheN, BM4208, OheQ P2W87T-1 STR Analysis / MAP2C, BM1225, RT9, RT24, IGF, BM4208, FCB193, RT30 P2W87T-2 - K2R46H STR Analysis/ CDFG's Suite of 8 nuclear loci: P, M, Q, D, N, K, R, O D3H13G-1 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225, BM4107, T7 and BM4208 D3H13G-2 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225, BM4107, T7 and BM4208 D3H13G-3 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225, BM4107, T7 and BM4208 C3F65S STR Analysis/ RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107,	R2J94A-2	
R2J94A-3 STR Analysis/ BM4107, T7, OvirA, Rt30, Rt7, Rt5, BM1225, OheN, BM4208, OheQ P2W87T-1 STR Analysis / MAP2C, BM1225, RT9, RT24, IGF, BM4208, FCB193, RT30 P2W87T-2 - K2R46H STR Analysis/ CDFG's Suite of 8 nuclear loci: P, M, Q, D, N, K, R, O D3H13G-1 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225, BM4107, T7 and BM4208 D3H13G-2 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225, BM4107, T7 and BM4208 D3H13G-3 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225, BM4107, T7 and BM4208 C3F65S STR Analysis/ RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107, RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107, RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107, RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107, RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107, RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107, RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107, RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107, RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107, RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107, RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107, RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107, RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107, RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107, RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, RT12, RT30, RT24, RT30, INRA040, RT13, RT24, RT30, INRA040, RT13, RT24, RT30, INRA040, RT13, RT24, RT30, IN		
P2W87T-1 STR Analysis / MAP2C, BM1225, RT9, RT24, IGF, BM4208, FCB193, RT30 P2W87T-2 - K2R46H STR Analysis/ CDFG's Suite of 8 nuclear loci: P, M, Q, D, N, K, R, O D3H13G-1 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 D3H13G-2 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 D3H13G-3 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 C3F65S STR Analysis/ RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107		•
P2W87T-2 - K2R46H STR Analysis/ CDFG's Suite of 8 nuclear loci: P, M, Q, D, N, K, R, O D3H13G-1 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 D3H13G-2 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 D3H13G-3 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 C3F65S STR Analysis/ RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107		
K2R46H STR Analysis/ CDFG's Suite of 8 nuclear loci: P, M, Q, D, N, K, R, O D3H13G-1 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 D3H13G-2 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 D3H13G-3 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 C3F65S STR Analysis/ RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107	P2W87T-1	STR Analysis / MAP2C, BM1225, RT9, RT24, IGF, BM4208, FCB193, RT30
D3H13G-1 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 D3H13G-2 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 D3H13G-3 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 C3F65S STR Analysis/ RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107		-
BM4107, T7 and BM4208 D3H13G-2 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 D3H13G-3 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 C3F65S STR Analysis/ RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107	K2R46H	
D3H13G-2 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 D3H13G-3 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 C3F65S STR Analysis/ RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107	D3H13G-1	STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225,
BM4107, T7 and BM4208 D3H13G-3 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 C3F65S STR Analysis/ RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107		
D3H13G-3 STR Analysis/ RT1, RT5, INRA040, RT13, RT24, RT30, CERV1, ETH152, BM1225 BM4107, T7 and BM4208 C3F65S STR Analysis/ RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107	D3H13G-2	
BM4107, T7 and BM4208 C3F65S STR Analysis/ RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107		
	D3H13G-3	
BM4208, I /	C3F65S	STR Analysis/ RT1, RT5, RT13, RT24, RT30, INRA040, Cerv1, Eth152, BM4107, BM4208, T7
	M1S68R	STR Analysis/ Protocol DNA020C/ Cervid1, BM1225, BM4107, RT24, BM4208, T7,
B4W11V-1 STR Analysis/ ADCYC, AGLA226, BL42, BM203, BM4107, BM4208, BM6438, BM6506	B4W11V-1	STR Analysis/ ADCYC, AGLA226, BL42, BM203, BM4107, BM4208, BM6438, BM6506, CELB9, CELJP15, CERVID1, CERVID2, ETH152, FCB193, GNZ204, RM006, SRCRSP1,
TGLA94		
	B4W11V-2	STR Analysis/ ADCYC, AGLA226, BL42, BM203, BM4107, BM4208, BM6438, BM6506,
CELB9, CELJP15, CERVID1, CERVID2, ETH152, FCB193, GNZ204, RM006, SRCRSP1 TGLA94		CELB9, CELJP15, CERVID1, CERVID2, ETH152, FCB193, GNZ204, RM006, SRCRSP1, TGLA94
B4W11V-3 STR Analysis/ ADCYC, AGLA226, BL42, BM203, BM4107, BM4208, BM6438, BM6506	B4W11V-3	STR Analysis/ ADCYC, AGLA226, BL42, BM203, BM4107, BM4208, BM6438, BM6506,
CELB9, CELJP15, CERVID1, CERVID2, ETH152, FCB193, GNZ204, RM006, SRCRSP1 TGLA94		CELB9, CELJP15, CERVID1, CERVID2, ETH152, FCB193, GNZ204, RM006, SRCRSP1, TGLA94
J2R15F-1 -	J2R15F-1	-
J2R15F-2 -	J2R15F-2	-

K1W95S-1	STR Analysis/WDFW deer STR microsatellite panel/ BM1225, BM4107, C89, Cervid1,
K1W95S-3	CRSP-1, RT24, RT5, RT7, T159, T7, Texan-4
K1W95S-4	
K1W95S-2	STR Analysis/WDFW deer STR microsatellite panel/BM1225, BM4107, C89, Cervid1,
K1W95S-3	CRSP-1, RT24, RT5, RT7, T159, T7, Texan-4
K1W95S-4	
R4R65C-1	-
R4R65C-2	
C3F54C	STR Analysis/ RT1, INRA040, BM4107, BM1225, Cerv1, T7, RT5, BM4208, RT24,
	BM203, ETH152, RT9
B4C27D	STR Analysis/ Cervid, RT7, L, BM6506, N, RT5, INRA, Q, S, OAR, O, BM6438, BL25, P,
	K, RT13, D, BL42
	Gender Markers – Sry & Zfx
R9H57A	STR Analysis/ OarFCB304, BMC1009, BM1706, RT1, RT13, T156, BM188, BM757, RT7,
	T26
	References: (Talbot et al.1996), (Bishop et al.1994), (Wilson et al.1997), (Jones et al.2002),
	(Barendse et al.1994), (Bouchard and Crowford 1993)
J3V67H	-

Response Summary Total Participants: 34

Confirmation	Item 1	Item 2	Item 3
Species Origin	33 (97%)	34 (100%)	34 (100%)
Gender Origin	31 (91%)	31 (91%)	31 (91%)
Individual Identification		26 (76%)	

Inconclusive	Item 1	Item 2	Item 3
Species Origin	1 (3%)	0 (0%)	0 (0%)
Gender Origin	0 (0%)	0 (0%)	0 (0%)
Individual Identification		0 (0%)	

N/A	Item 1	Item 2	Item 3
Species Origin	0 (0%)	0 (0%)	0 (0%)
Gender Origin	3 (9%)	3 (9%)	3 (9%)
Individual Identification		8 (24%)	

END OF REPORT