APPENDIX H: STR POPULATION FREQUENCIES

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
BLACK POPULATION DATA
CSF1P0, TPOX, TH01 AND vWA ALLELE FREQUENCY TABLE

DATE: JUNE 1, 1998 N = 194

ALLELE CSF1P0	OBSERVATION	FREQUENCY		ALLELE TH01	OBSERVATION	FREQUENCY
15	0*	0.01289		11	0*	0.01289
14	2*	0.01289		10	4*	0.01289
13	24	0.06186		9.3	34	0.08762
12	107	0.27577		9	50	0.12886
11	90	0.23196		8	96	0.24742
10	92	0.23711		7	154	0.39690
9	14	0.03608		6	47	0.12113
8	29	0.07474		5	3*	0.01289
7	30	0.07732				
6	0*	0.01289				
n = 388				n = 388		
ALLELE TPOX	**OBSERVATION**	**FREQUENCY**		**ALLELE VWA**	**OBSERVATION**	**FREQUENCY**
13	1*	0.01289		21	1*	0.01289
12	8	0.02062		20	11	0.02835
11	88	0.22680		19	28	0.07216
10	32	0.08247		18	44	0.11340
9	86	0.22165		17	61	0.15722
8	138	0.35567		16	110	0.28351
7	6	0.01546		15	96	0.24742
6	29	0.07474		14	29	0.07474
				13	6	0.01546
				12	0*	0.01289
				11	2*	0.01289
n = 388				n = 388		

Note: * = Alleles with fewer than 5 observations are defaulted to a frequency of 5 per 388, or 0.01289. Therefore, allele frequencies on this page will NOT add to 1. If an allele is observed that is not listed above a frequency of 5/n will be used.

N = Total number of individuals
n = Total number of alleles from N individuals

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
BLACK POPULATION DATA
D16S539, D7S820, D13S317, AND D5S818 ALLELE FREQUENCY TABLE

DATE: JUNE 1, 1998 N = 194

ALLELE D16S539	OBSERVATION	FREQUENCY		ALLELE D13S317	OBSERVATION	FREQUENCY
15	1*	0.01289		15	1*	0.01289
14	12	0.03093		14	24	0.06190
13	56	0.14433		13	54	0.13918
12	73	0.18814		12	158	0.40722
11	113	0.29124		11	127	0.32732
10	37	0.09536		10	7	0.01804
9	81	0.20876		9	10	0.02577
8	15	0.03866		8	7	0.01804
5	0*	0.01289		7	0*	0.01289
n = 388				n = 388		
ALLELE D7S820	OBSERVATION	FREQUENCY		ALLELE D5S818	OBSERVATION	FREQUENCY
14	1*	0.01289		15	0*	0.01289
13	7	0.01804		14	10	0.02577
12	41	0.10567		13	89	0.22938
11	90	0.23196		12	141	0.36340
10	132	0.34021		11	99	0.25515
9	41	0.10567		10	26	0.06701
8	73	0.18814		9	8	0.02062
7	3*	0.01289		8	15	0.03866
6	0*	0.01289		7	0*	0.01289
n = 388				n = 388		

Note: * = Alleles with fewer than 5 observations are defaulted to a frequency of 5 per 388, or 0.01289. Therefore, allele frequencies on this page will NOT add to 1. If an allele is observed that is not listed in the above table a frequency of 5/n will be used.

N = Total number of individuals
n = Total number of alleles from N individuals

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
BLACK POPULATION DATA
D18S51 and D21S11

DATE: MAY 19, 2000 N = 192

ALLELE D18S51	OBSERVATION	FREQUENCY		ALLELE D18S51 CONT.	OBSERVATION	FREQUENCY
17	60	0.15625		27	0*	0.01302
16	68	0.17708		26	0*	0.01302
15	66	0.17188		25	0*	0.01302
14	25	0.06510		24	0*	0.01302
13.2	1*	0.01302		23	1*	0.01302
13	27	0.07031		22	4*	0.01302
12	28	0.07292		21	6	0.01563
11	0*	0.01302		20	18	0.04688
10.2	3*	0.01302		19	28	0.07292
10	3*	0.01302		18	46	0.11979
9	0*	0.01302				
8	0*	0.01302		n = 384		
ALLELE D21S11	OBSERVATION	FREQUENCY		ALLELE D21S11 CONT.	OBSERVATION	FREQUENCY
31.2	19	0.04948		38	0*	0.01302
31	26	0.06771		37	0*	0.01302
30.2	7	0.01823		36	3*	0.01302
30	74	0.19271		35.2	0*	0.01302
29.2	0*	0.01302		35	11	0.02865
29	79	0.20573		34.2	0*	0.01302
28	97	0.25260		34	4*	0.01302
27	16	0.04167		33.2	11	0.02865
26	1*	0.01302		33	3*	0.01302
25.2	0*	0.01302		32.2	30	0.07813
25	0*	0.01302		32.1	0*	0.01302
24.2	0*	0.01302		32	3*	0.01302
24	0*	0.01302		n = 384		

Note: * = Alleles with fewer than 5 observations are defaulted to a frequency of 5 per 384, or 0.01302 Therefore, allele frequencies on this page will NOT add to 1. If an allele is observed that is not listed above a frequency of 5/n will be used.

N = Total number of individuals
n = Total number of alleles from N individuals

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
BLACK POPULATION DATA
Penta E and D3S1358

DATE: MAY 19, 2000 N = 168 (Penta E) and 192 (D3S1358)

ALLELE Penta E	OBSERVATION	FREQUENCY		ALLELE Penta E cont.	OBSERVATION	FREQUENCY
15	18	0.05357		25	0*	0.01488
14	20	0.05952		24	0*	0.01488
13	46	0.13691		23	0*	0.01488
12	33	0.09821		22	0*	0.01488
11	26	0.07738		21	1*	0.01488
10	16	0.04762		20.3	0*	0.01488
9	12	0.03571		20	3*	0.01488
8	64	0.19048		19	0*	0.01488
7	37	0.11012		18	4*	0.01488
6	0*	0.01488		17	12	0.03571
5	34	0.10119		16	10	0.02976
				n = 336		
ALLELE D3S1358	OBSERVATION	FREQUENCY		ALLELE D3S1358 cont.	OBSERVATION	FREQUENCY
16.2	1*	0.01302		21	0*	0.01302
16	103	0.26823		20	0*	0.01302
15	124	0.32292		19	1*	0.01302
14	45	0.11719		18	21	0.05469
13	4*	0.01302		17	81	0.21094
12	3*	0.01302				
11	1*	0.01302		n = 384		

Note: * = Alleles for Penta E with fewer than 5 observations are defaulted to a frequency of 5 per 336, or 0.01488. Alleles for D3S1358 with fewer than 5 observations are defaulted to a frequency of 5 per 384, or 0.01302. Therefore, allele frequencies on this page will NOT add to 1. If an allele is observed that is not listed in the above table a frequency of 5/n will be used.

N = Total number of individuals
n = Total number of alleles from N individuals

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
BLACK POPULATION DATA
FGA AND D8S1179

DATE: MAY 19, 2000 N = 192

ALLELE FGA	OBSERVATION	FREQUENCY		ALLELE FGA, CONT.	OBSERVATION	FREQUENCY
25	33	0.08594		46.2	1*	0.01302
24.2	0*	0.01302		45.2	0*	0.01302
24	54	0.14063		44.2	2*	0.01302
23.2	0*	0.01302		43.2	0*	0.01302
23	66	0.17188		42.2	1*	0.01302
22.2	0*	0.01302		31.2	0*	0.01302
22	77	0.20052		31	1*	0.01302
21.2	1*	0.01302		30.2	1*	0.01302
21	39	0.10156		30	0*	0.01302
20.2	1*	0.01302		29	2*	0.01302
20	30	0.07813		28	7	0.01823
19.2	1*	0.01302		27	11	0.02865
19	25	0.06510		26.1	0*	0.01302
18.2	9	0.02344		26	18	0.04688
18	4*	0.01302		25.2	0*	0.01302
17	0*	0.01302				
				n = 384		
ALLELE D8S1179	OBSERVATION	FREQUENCY		ALLELE D8S1179	OBSERVATION	FREQUENCY
12	42	0.10938		18	0*	0.01302
11	19	0.04948		17	7	0.01823
10	11	0.02865		16	23	0.05990
9	2*	0.01302		15	71	0.18490
8	2*	0.01302		14	114	0.29688
7	0*	0.01302		13	93	0.24219
				n = 384		

Note: * = Alleles with fewer than 5 observations are defaulted to a frequency of 5 per 384, or 0.01302. Therefore, allele frequencies on this page will NOT add to 1. If an allele is observed that is not listed in the above table a frequency of 5/n will be used.

N = Total number of individuals
n = Total number of alleles from N individuals

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
BLACK POPULATION DATA
Penta D

DATE: JANUARY 7, 2002 N = 100

ALLELE Penta D	OBSERVATION	FREQUENCY		ALLELE Penta D cont.	OBSERVATION	FREQUENCY
10	22	0.11000		17	0*	0.02500
9	34	0.17000		16	0*	0.02500
8	23	0.11500		15	2*	0.02500
7	9	0.04500		14	4*	0.02500
5	8	0.04000		13	15	0.07500
3.2	3*	0.02500		12	20	0.10000
2.2	27	0.13500		11	33	0.16500
				n = 200		

Note: * = Alleles for Penta D with fewer than 5 observations are defaulted to a frequency of 5 per 200, or 0.0250. Therefore, allele frequencies on this page will NOT add to 1. If an allele is observed that is not listed in the above table a frequency of 5/n will be used.

N = Total number of individuals
n = Total number of alleles from N individuals

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
CAUCASIAN POPULATION DATA
CSF1P0, TPOX, THO1 AND vWA ALLELE FREQUENCY TABLE

DATE: JUNE 1, 1998 N = 174

ALLELE CSF1P0	OBSERVATION	FREQUENCY		ALLELE THO1	OBSERVATION	FREQUENCY
15	0*	0.01437		11	0*	0.01437
14	3*	0.01437		10	4*	0.01437
13	27	0.07759		9.3	108	0.31034
12	125	0.35919		9	50	0.14368
11	97	0.27874		8	35	0.10057
10	83	0.23851		7	66	0.18966
9	11	0.03161		6	83	0.23851
8	1*	0.01437		5	2*	0.01437
7	1*	0.01437				
6	0*	0.01437				
n = 348				n = 348		
ALLELE TPOX	OBSERVATION	FREQUENCY		ALLELE Vwa	OBSERVATION	FREQUENCY
13	0*	0.01437		21	0*	0.01437
12	18	0.05172		20	2*	0.01437
11	86	0.24713		19	29	0.08333
10	23	0.06609		18	81	0.23276
9	31	0.08908		17	96	0.27586
8	190	0.54598		16	73	0.20977
7	0*	0.01437		15	33	0.09483
6	0*	0.01437		14	33	0.09483
				13	1*	0.01437
				12	0*	0.01437
				11	0*	0.01437
n = 348				n = 348		

Note: * = Alleles with fewer than 5 observations are defaulted to a frequency of 5 per 348, or 0.01437. Therefore, allele frequencies on this page will NOT add to 1. If an allele is observed that is not listed above a frequency of 5/n will be used.

N = Total number of individuals
n = Total number of alleles from N individuals

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
CAUCASIAN POPULATION DATA
D16S539, D7S820, D13S317, AND D5S818 ALLELE FREQUENCY TABLE

DATE: JUNE 1, 1998 N = 174

ALLELE D16S539	OBSERVATION	FREQUENCY		ALLELE D13S317	OBSERVATION	FREQUENCY
15	1*	0.01437		15	0*	0.01437
14	6	0.01724		14	15	0.04310
13	62	0.17816		13	40	0.11494
12	112	0.32184		12	100	0.28736
11	89	0.25575		11	102	0.29310
10	24	0.06897		10	20	0.05747
9	48	0.13793		9	23	0.06609
8	6	0.01724		8	48	0.13793
5	0*	0.01437		7	0*	0.01437
n = 348				n = 348		
ALLELE D7S820	OBSERVATION	FREQUENCY		ALLELE D5S818	OBSERVATION	FREQUENCY
14	3*	0.01437		15	0*	0.01437
13	8	0.02299		14	8	0.02299
12	54	0.15517		13	55	0.15805
11	66	0.18966		12	121	0.34770
10	108	0.31034		11	128	0.36782
9	47	0.13506		10	20	0.05747
8	52	0.14943		9	15	0.04310
7	10	0.02874		8	1*	0.01437
6	0*	0.01437		7	0*	0.01437
n = 348				n = 348		

Note: * = Alleles with fewer than 5 observations are defaulted to a frequency of 5 per 348, or 0.01437. Therefore, allele frequencies on this page will NOT add to 1. If an allele is observed that is not listed above a frequency of 5/n will be used.

N = Total number of individuals
n = Total number of alleles from N individuals

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
CAUCASIAN POPULATION DATA
D18S51 and D21S11

DATE: MAY 19, 2000 N = 173

ALLELE D18S51	OBSERVATION	FREQUENCY		ALLELE D18S51 CONT.	OBSERVATION	FREQUENCY
17	51	0.14740		27	0*	0.01445
16	47	0.13584		26	0*	0.01445
15	55	0.15896		25	0*	0.01445
14	55	0.15896		24	0*	0.01445
13.2	0*	0.01445		23	0*	0.01445
13	49	0.14162		22	2*	0.01445
12	43	0.12428		21	1*	0.01445
11	6	0.01734		20	5	0.01445
10.2	0*	0.01445		19	6	0.01734
10	1*	0.01445		18	25	0.07225
9	0*	0.01445				
8	0*	0.01445		n = 346		
ALLELE D21S11	OBSERVATION	FREQUENCY		ALLELE D21S11 CONT.	OBSERVATION	FREQUENCY
31.2	27	0.07804		38	0*	0.01445
31	24	0.06936		37	0*	0.01445
30.2	13	0.03757		36	0*	0.01445
30	91	0.26301		35.2	1*	0.01445
29.2	0*	0.01445		35	0*	0.01445
29	73	0.21098		34.2	3*	0.01445
28	40	0.11561		34	0*	0.01445
27	7	0.02023		33.2	13	0.03757
26	0*	0.01445		33	0*	0.01445
25.2	1*	0.01445		32.2	43	0.12428
25	1*	0.01445		32.1	1*	0.01445
24.2	0*	0.01445		32	8	0.02312
24	0*	0.01445		n = 346		

Note: * = Alleles with fewer than 5 observations are defaulted to a frequency of 5 per 346, or 0.01445 Therefore, allele frequencies on this page will NOT add to 1. If an allele is observed that is not listed above a frequency of 5/n will be used.

N = Total number of individuals
n = Total number of alleles from N individuals

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
CAUCASIAN POPULATION DATA
Penta E and D3S1358

DATE: MAY 19, 2000 N =120 (Penta E) and 173 (D3S1358)

ALLELE Penta E	OBSERVATION	FREQUENCY		ALLELE Penta E cont.	OBSERVATION	FREQUENCY
15	20	0.08333		25	0*	0.02083
14	11	0.04583		24	0*	0.02083
13	18	0.07500		23	0*	0.02083
12	41	0.17083		22	0*	0.02083
11	30	0.12500		21	0*	0.02083
10	19	0.07917		20.3	0*	0.02083
9	2*	0.02083		20	3*	0.02083
8	2*	0.02083		19	5	0.02083
7	50	0.20833		18	3*	0.02083
6	0*	0.02083		17	11	0.04583
5	16	0.06667		16	9	0.03750
				n = 240		
ALLELE D3S1358	OBSERVATION	FREQUENCY		ALLELE D3S1358 cont.	OBSERVATION	FREQUENCY
16.2	0*	0.01445		21	0*	0.01445
16	89	0.25723		20	2*	0.01445
15	82	0.23699		19	7	0.02023
14	48	0.13873		18	51	0.14734
13	0*	0.01445		17	66	0.19075
12	0*	0.01445				
11	1*	0.01445		n = 346		

Note: * = Alleles for Penta E with fewer than 5 observations are defaulted to a frequency of 5 per 240, or 0.02083. Alleles for D3S1358 with fewer than 5 observations are defaulted to a frequency of 5 per 346, or 0.01445. Therefore, allele frequencies on this page will NOT add to 1. If an allele is observed that is not listed above a frequency of 5/n will be used.

N = Total number of individuals
n = Total number of alleles from N individuals

VIRGINIA DEPARTMENT OF FORENSIC SCIECE
CAUCASIAN POPULATION DATA
FGA AND D8S1179

DATE: MAY 19, 2000 N = 173

ALLELE FGA	OBSERVATION	FREQUENCY		ALLELE FGA, CONT.	OBSERVATION	FREQUENCY
25	31	0.08960		46.2	0*	0.01445
24.2	0*	0.01445		45.2	0*	0.01445
24	43	0.12428		44.2	0*	0.01445
23.2	0*	0.01445		43.2	0*	0.01445
23	45	0.13006		42.2	0*	0.01445
22.2	4*	0.01445		31.2	0*	0.01445
22	56	0.16185		31	0*	0.01445
21.2	0*	0.01445		30.2	0*	0.01445
21	66	0.19075		30	0*	0.01445
20.2	0*	0.01445		29	0*	0.01445
20	58	0.16763		28	0*	0.01445
19.2	1*	0.01445		27	4*	0.01445
19	20	0.05780		26.1	0*	0.01445
18.2	0*	0.01445		26	14	0.04046
18	3*	0.01445		25.2	0*	0.01445
17	1*	0.01445				
				n = 346		
ALLELE D8S1179	OBSERVATION	FREQUENCY		ALLELE D8S1179	OBSERVATION	FREQUENCY
12	49	0.14162		18	0*	0.01445
11	32	0.09249		17	3*	0.01445
10	37	0.10694		16	12	0.03468
9	2*	0.01445		15	31	0.08960
8	5	0.01445		14	68	0.19653
7	0*	0.01445		13	107	0.30925
				n = 346		

Note: * = Alleles with fewer than 5 observations are defaulted to a frequency of 5 per 346, or 0.01445 Therefore, allele frequencies on this page will NOT add to 1. If an allele is observed that is not listed above a frequency of 5/n will be used.

N = Total number of individuals
n = Total number of alleles from N individuals

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
CAUCASIAN POPULATION DATA
Penta D

DATE: JANUARY 7, 2002 N = 101

ALLELE Penta D	OBSERVATION	FREQUENCY		ALLELE Penta D cont.	OBSERVATION	FREQUENCY
10	27	0.13366		17	0*	0.02475
9	46	0.22772		16	0*	0.02475
8	2*	0.02475		15	2*	0.02475
7	1*	0.02475		14	11	0.05446
5	0*	0.02475		13	43	0.21287
3.2	0*	0.02475		12	41	0.20297
2.2	0*	0.02475		11	29	0.14356
				n = 202		

Note: * = Alleles for Penta D with fewer than 5 observations are defaulted to a frequency of 5 per 202, or 0.02475. Therefore, allele frequencies on this page will NOT add to 1. If an allele is observed that is not listed in the above table a frequency of 5/n will be used.

N = Total number of individuals
n = Total number of alleles from N individuals

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
HISPANIC POPULATION DATA
CSF1P0, TPOX, THO1 AND vWA ALLELE FREQUENCY TABLE

DATE: JUNE 1, 1998 N = 181

ALLELE CSF1P0	OBSERVATION	FREQUENCY		ALLELE THO1	OBSERVATION	FREQUENCY
15	1*	0.01381		11	0*	0.01381
14	3*	0.01381		10	2*	0.01381
13	20	0.05525		9.3	73	0.20166
12	120	0.33149		9	49	0.13536
11	109	0.30111		8	34	0.09392
10	90	0.24862		7	100	0.27624
9	12	0.03315		6	104	0.28729
8	3*	0.01381		5	0*	0.01381
7	4*	0.01381				
6	0*	0.01381				
n = 362				n = 362		
ALLELE TPOX	OBSERVATION	FREQUENCY		ALLELE VWA	OBSERVATION	FREQUENCY
13	2*	0.01381		21	0*	0.01381
12	31	0.08564		20	5	0.01381
11	100	0.27624		19	24	0.06630
10	19	0.05249		18	52	0.14365
9	31	0.08564		17	89	0.24590
8	169	0.46685		16	106	0.29282
7	3*	0.01381		15	53	0.14641
6	7	0.01934		14	31	0.08564
				13	1*	0.01381
				12	0*	0.01381
				11	1*	0.01381
n = 362				n = 362		

Note: * = Alleles with fewer than 5 observations are defaulted to a frequency of 5 per 362, or 0.01381. Therefore, allele frequencies on this page will NOT add to 1. If an allele is observed that is not listed above a frequency of 5/n will be used.

N = Total number of individuals
n = Total number of alleles from N individuals

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
HISPANIC POPULATION DATA
D16S539, D7S820, D13S317, AND D5S818 ALLELE FREQUENCY TABLE

DATE: JUNE 1, 1998 N = 181

ALLELE D16S539	OBSERVATION	FREQUENCY		ALLELE D13S317	OBSERVATION	FREQUENCY
15	0*	0.01381		15	0*	0.01381
14	9	0.02486		14	27	0.07459
13	58	0.16022		13	56	0.15470
12	97	0.26796		12	80	0.22099
11	73	0.20166		11	79	0.21823
10	55	0.15193		10	20	0.05525
9	62	0.17127		9	61	0.16851
8	7	0.01934		8	39	0.10773
5	1*	0.01381		7	0*	0.01381
n = 362				n = 362		
ALLELE D7S820	OBSERVATION	FREQUENCY		ALLELE D5S818	OBSERVATION	FREQUENCY
14	4*	0.01381		15	0*	0.01381
13	6	0.01657		14	3*	0.01381
12	72	0.19890		13	58	0.16022
11	94	0.25967		12	104	0.28729
10	94	0.25967		11	126	0.34807
9	34	0.09392		10	21	0.05801
8	55	0.15193		9	27	0.07459
7	3*	0.01381		8	5	0.01381
6	0*	0.01381		7	18	0.04972
n = 362				n = 362		

Note: * = Alleles with fewer than 5 observations are defaulted to a frequency of 5 per 362, or 0.01381. Therefore, allele frequencies on this page will NOT add to 1. If an allele is observed that is not listed above a frequency of 5/n will be used.

N = Total number of individuals
n = Total number of alleles from N individuals

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
HISPANIC POPULATION DATA
D18S51 and D21S11

DATE: MAY 19, 2000 N = 183

ALLELE D18S51	OBSERVATION	FREQUENCY		ALLELE D18S51 CONT.	OBSERVATION	FREQUENCY
17	55	0.15027		27	0*	0.01366
16	43	0.11749		26	0*	0.01366
15	51	0.13934		25	0*	0.01366
14	60	0.16393		24	0*	0.01366
13.2	0*	0.01366		23	2*	0.01366
13	51	0.13934		22	1*	0.01366
12	37	0.10109		21	1*	0.01366
11	4*	0.01366		20	10	0.02732
10.2	1*	0.01366		19	23	0.06284
10	1*	0.01366		18	26	0.07104
9	0*	0.01366				
8	0*	0.01366		n = 366		
ALLELE D21S11	OBSERVATIONS	FREQUENCY		ALLELE D21S11 CONT.	OBSERVATION	FREQUENCY
31.2	42	0.11475		38	0*	0.01366
31	30	0.08197		37	0*	0.01366
30.2	4*	0.01366		36	1*	0.01366
30	88	0.24044		35.2	0*	0.01366
29.2	1*	0.01366		35	3*	0.01366
29	78	0.21312		34.2	2*	0.01366
28	42	0.11475		34	1*	0.01366
27	7	0.01913		33.2	16	0.04372
26	0*	0.01366		33	0*	0.01366
25.2	0*	0.01366		32.2	46	0.12568
25	0*	0.01366		32.1	0*	0.01366
24.2	0*	0.01366		32	5	0.01366
24	0*	0.01366		n = 366		

Note: * = Alleles with fewer than 5 observations are defaulted to a frequency of 5 per 366, or 0.01366 Therefore, allele frequencies on this page will NOT add to 1. If an allele is observed that is not listed above a frequency of 5/n will be used.

N = Total number of individuals
n = Total number of alleles from N individuals

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
HISPANIC POPULATION DATA
Penta E and D3S1358

DATE: MAY 19, 2000 N = 181 (Penta E) and 183(D3S1358)

ALLELE Penta E	OBSERVATION	FREQUENCY		ALLELE Penta E cont.	OBSERVATION	FREQUENCY
15	32	0.08840		25	1*	0.01381
14	28	0.07735		24	0*	0.01381
13	29	0.08011		23	1*	0.01381
12	58	0.16022		22	4*	0.01381
11	21	0.05801		21	8	0.02210
10	27	0.07459		20.3	0*	0.01381
9	6	0.01658		20	4*	0.01381
8	21	0.05801		19	12	0.03315
7	34	0.09392		18	14	0.03867
6	0*	0.01381		17	16	0.04420
5	19	0.05249		16	27	0.07459
				n = 362		
ALLELE D3S1358	OBSERVATION	FREQUENCY		ALLELE D3S1358 cont.	OBSERVATION	FREQUENCY
16	93	0.25410		21	1*	0.01366
15	143	0.39071		20	0*	0.01366
14	26	0.07104		19	3*	0.01366
13	1*	0.01366		18	30	0.08197
12	0*	0.01366		17	69	0.18853
11	0*	0.01366		16.2	0*	0.01366
				n = 366		

Note: * = Alleles for Penta E with fewer than 5 observations are defaulted to a frequency of 5 per 362, or 0.01381. Alleles for D3S1358 with fewer than 5 observations are defaulted to a frequency of 5 per 366, or 0.01366. Therefore, allele frequencies on this page will NOT add to 1. If an allele is observed that is not listed in the above table a frequency of 5/n will be used.

N = Total number of individuals
n = Total number of alleles from N individuals

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
HISPANIC POPULATION DATA
FGA AND D8S1179

DATE: MAY 19, 2000 N = 183

ALLELE FGA	OBSERVATION	FREQUENCY		ALLELE FGA, CONT.	OBSERVATION	FREQUENCY
25	47	0.12842		46.2	0*	0.01366
24.2	0*	0.01366		45.2	1*	0.01366
24	58	0.15847		44.2	0*	0.01366
23.2	0*	0.01366		43.2	0*	0.01366
23	46	0.12568		42.2	0*	0.01366
22.2	1*	0.01366		31.2	0*	0.01366
22	36	0.09836		31	0*	0.01366
21.2	1*	0.01366		30.2	0*	0.01366
21	65	0.17760		30	1*	0.01366
20.2	0*	0.01366		29	1*	0.01366
20	40	0.10929		28	2*	0.01366
19.2	0*	0.01366		27	9	0.02459
19	31	0.08470		26.1	1*	0.01366
18.2	0*	0.01366		26	25	0.06831
18	1*	0.01366		25.2	0*	0.01366
17	0*	0.01366				
				n = 366		
ALLELE D8S1179	OBSERVATION	FREQUENCY		ALLELE D8S1179	OBSERVATION	FREQUENCY
12	40	0.10929		18	0*	0.01366
11	17	0.04645		17	0*	0.01366
10	30	0.08197		16	17	0.04645
9	1*	0.01366		15	44	0.12022
8	3*	0.01366		14	96	0.26230
7	0*	0.01366		13	118	0.32240
				n = 366		

Note: * = Alleles with fewer than 5 observations are defaulted to a frequency of 5 per 366, or 0.01366. Therefore, allele frequencies on this page will NOT add to 1. If an allele is observed that is not listed in the above table a frequency of 5/n will be used.

N = Total number of individuals
n = Total number of alleles from N individuals

VIRGINIA DEPARTMENT OF FORENSIC SCIENCE
HISPANIC POPULATION DATA
Penta D

DATE: NOVEMBER 13, 2001 N = 157

ALLELE Penta D	OBSERVATION	FREQUENCY		ALLELE Penta D cont.	OBSERVATION	FREQUENCY
10	49	0.15556		17	1*	0.01587
9	66	0.20952		16	0*	0.01587
8	9	0.02857		15	1*	0.01587
7	3*	0.01587		14	16	0.05079
5	3*	0.01587		13	56	0.17778
3.2	0	0.01587		12	59	0.18730
2.2	9	0.02857		11	43	0.13651
				n = 315**		

Note: * = Alleles for Penta D with fewer than 5 observations are defaulted to a frequency of 5 per 315, or 0.01587. Therefore, allele frequencies on this page will NOT add to 1. If an allele is observed that is not listed in the above table a frequency of 5/n will be used.

N = Total number of individuals
n = Total number of alleles from N individuals

** One of the samples analyzed for the creation of the Hispanic population database contained a 3 banded pattern at Penta D. Therefore, the number of alleles observed in the 157 individuals was 315.

♦**END**