YSTR Average Mutation Rate Log Entries Analysis.
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Start Date: 7 Jan 2005
Data Date: 22 Feb 2010 (O'Shea entry added)

Surname & Group Number if Any	Submitted by:	Initial Entry Date	Last Update Date	Haplogroup	SNP Tested or Predicted Hg	Panel Sizes and Haplotype Size (HS)	Number Tested for Each Haplotype Size	UTEs (births)	UMEs (mutations)	chk sum	(UTExHS) = Mutation Opportunities	Observed Haplotype Average Mutation Rates
Kerchner	C Kerchner	7-Jan-2005	13-Dec-2007	R1b1c	M269+ U152+ S28+	12 13 12 30 25 37 67	10 10 10 10 10 10 10	38 38 38 38 38 38 38	2 2 4 3 4 8 11	359	456 494 456 1140 950 1406 2546	0.0044 0.0040 0.0088 0.0026 0.0042 0.0057 0.0043
Hurst	W Hurst	11-Jan-2005		R1b1	P25+	12 13 12 25 37	8 8 7 8 7	52 52 47 52 47	3 1 1 4 5	401	624 676 564 1300 1739	0.0048 0.0015 0.0018 0.0031 0.0029
Humphrey	M Humphrey	11-Jan-2005		I1a1	P40+	12 13 12 25 37	4 4 4 4 4	24 24 24 24 24	0 0 2 0 2	243	288 312 288 600 888	0.0000 0.0000 0.0069 0.0000 0.0023
Athey	W Athey	12-Jan-2005	8-Nov-2007	G2	P15+	12 13 12 30 25 37 67	20 19 19 9 19 19 9	134 132 132 68 132 132 68	7 3 13 3 10 23 16	913	1608 1716 1584 2040 3300 4884 4556	0.0044 0.0017 0.0082 0.0015 0.0030 0.0047 0.0035
Stillman	A Stillman	14-Jan-2005		G2	P15+	12 13 12 25 37	6 6 6 6 6	37 37 37 37 37	0 0 5 0 5	324	444 481 444 925 1369	0.0000 0.0000 0.0113 0.0000 0.0037
Laudenslager	C Kerchner	19-Jan-2005		R1b1	P25+	12 13 12 25 37	4 4 4 4 4	36 36 36 36 36	1 1 2 2 4	309	432 468 432 900 1332	0.0023 0.0021 0.0046 0.0022 0.0030
Barlow/Goff (G2)	P Goff	12-Mar-2005	8-Jul-2007	I1a	Predicted	12 13 12 30 25 37 67	2 2 2 2 2 2 2	9 9 9 9 9 9 9	0 0 1 1 0 1 2	156	108 117 108 270 225 333 603	0.0000 0.0000 0.0093 0.0037 0.0000 0.0030 0.0033
Harvey	W Harvey	14-Mar-2005		E3b	M35+	12 13 12 25 37	2 2 2 2 2	11 11 11 11 11	0 0 0 0 0	164	132 143 132 275 407	0.0000 0.0000 0.0000 0.0000 0.0000
Harper	M Harper	31-May-2005		R1a	SNP Tested	12 13 12 25 37	6 6 6 6 6	27 27 27 27 27	1 2 5 3 8	283	324 351 324 675 999	0.0031 0.0057 0.0154 0.0044 0.0080
Oliver	W Oliver	1-Jun-2005		I1a	P19+	12 13 12 25 37	13 9 8 9 8	56 48 45 48 45	1 1 3 2 5	400	672 624 540 1200 1665	0.0015 0.0016 0.0056 0.0017 0.0030
Hart	L Hart	15-Jun-2005		R1b	Predicted	12 13 12 25 37	6 6 6 6 6	59 59 59 59 59	3 5 8 8 16	464	708 767 708 1475 2183	0.0042 0.0065 0.0113 0.0054 0.0073
MacDonald	D MacDonald	16-Jun-2005		R1a	SNP Tested	12 13 12 25 37	8 8 8 8 8	124 124 124 124 124	3 7 9 10 19	807	1488 1612 1488 3100 4588	0.0020 0.0043 0.0060 0.0032 0.0041
Bolt	K Borges	1-Jul-2005		R1b		12 13 12 25 37	4 4 4 4 4	27 27 27 27 27	1 1 2 2 4	264	324 351 324 675 999	0.0031 0.0028 0.0062 0.0030 0.0040
Carpenter (G12)	J Chandler	21-Sep-2005		R1a		12 13 12 25 37	8 7 6 7 6	83 75 65 75 65	1 4 9 5 14	529	996 975 780 1875 2405	0.0010 0.0041 0.0115 0.0027 0.0058
Carpenter (G13)	J Chandler	21-Sep-2005		R1b		12 13 12 25 37	3 2 2 2 2	4 3 3 3 3	0 1 0 1 1	129	48 39 36 75 111	0.0000 0.0256 0.0000 0.0133 0.0090
Owen (G1)	W Athey	29-Sep-2005	26-Nov-2007	J2	M172+	12 13 12 25 37	6 6 4 6 4	45 45 34 45 34	0 5 0 5 4	342	540 585 408 1125 1258	0.0000 0.0085 0.0000 0.0044 0.0032
Davenport	W Davenport	30-Sep-2005		R1b1c*	SNP Tested	12 13 12 25 37	6 6 5 6 5	53 53 45 53 45	0 1 1 1 2	381	636 689 540 1325 1665	0.0000 0.0015 0.0019 0.0008 0.0012
Blair	J Blair	11-Oct-2005		R1b		12 13 12 25 37	6 6 4 6 4	17 17 13 17 13	2 0 0 2 2	208	204 221 156 425 481	0.0098 0.0000 0.0000 0.0047 0.0042
Rutledge	W Athey	20-Oct-2005		R1b	Predicted	12 13 12 25 37	5 5 5 5 5	22 22 22 22 22	1 1 1 2 3	242	264 286 264 550 814	0.0038 0.0035 0.0038 0.0036 0.0037
Corson	M Corson	21-Oct-2005		R1b	Predicted	43 3 25 1				0	1075	0.0009
Bartlebaugh	E Bartlebaugh-Sch	6-Jan-2006		R1b	Predicted	12 13 12 25 37	3 3 3 3 3	18 18 18 18 18	0 1 1 1 2	209	216 234 216 450 666	0.0000 0.0043 0.0046 0.0022 0.0030
Ivey	J Ivey	20-May-2006		E3a	P1+	12 13 12 25 37	7 7 6 7 6	16 16 15 16 15	1 1 1 2 3	218	192 208 180 400 555	0.0052 0.0048 0.0056 0.0050 0.0054
Mumma	D Mumma	21-Jun-2006		R1b1	P25+	12 13 12 25 37	50 50 50 50 50	277 277 277 277 277	10 17 19 27 46	1853	3324 3601 3324 6925 10249	0.0030 0.0047 0.0057 0.0039 0.0045
Waite	S Waite-Langley	28-Jun-2006		I1a	Predicted	12 13 12 25 37	10 10 9 10 9	78 78 70 78 70	0 3 4 3 7	538	936 1014 840 1950 2590	0.0000 0.0030 0.0048 0.0015 0.0027
Whitmore	H Whitmore	24-Jul-2006		R1b1	Predicted	12 13 12 25 37	6 6 6 6 6	44 44 44 44 44	1 0 4 1 5	360	528 572 528 1100 1628	0.0019 0.0000 0.0076 0.0009 0.0031
Ewing (G4)	D Ewing	18-Aug-2006	31-Oct-2007	~R1b1c7	P25+	12 13 12 25 37	12 12 12 12 12	76 76 76 76 76	2 1 8 3 11	564	912 988 912 1900 2812	0.0022 0.0010 0.0088 0.0016 0.0039
Carr	J Carr	30-Oct-2006		R1b1c	M269+	43 9 16 3				0	688	0.0044
Fergusson (G1)	C Ferguson	30-Nov-2006		R1b1c7	M222+	12 13 12 25 37	3 3 3 3 3	11 11 11 11 11	1 1 1 2 3	177	132 143 132 275 407	0.0076 0.0070 0.0076 0.0073 0.0074
Fergusson (G2)	C Ferguson	1-Dec-2006		R1b1c	M269+	12 13 12 25 37	4 4 4 4 4	27 27 27 27 27	1 1 5 2 7	270	324 351 324 675 999	0.0031 0.0028 0.0154 0.0030 0.0070
Vick	L Vick	11-May-2007	23-Oct-2007	Q*	M242+ MEH2+ P36+	12 13 12 30 25 37 67	22 19 17 10 19 17 10	150 135 121 67 135 121 67	2 7 11 4 9 18 13	902	1800 1755 1452 2010 3375 4477 4489	0.0011 0.0040 0.0076 0.0020 0.0027 0.0040 0.0029
Booher	B Grider	11-May-2007		G2	Predicted	12 13 12 25 37	5 4 4 4 4	26 23 23 23 23	0 2 3 2 5	250	312 299 276 575 851	0.0000 0.0067 0.0109 0.0035 0.0059
Fabian	Beth	24-May-2007		R1b1	Predicted	12 13 12 25 37	2 2 2 2 2	12 12 12 12 12	1 0 0 1 1	172	144 156 144 300 444	0.0069 0.0000 0.0000 0.0033 0.0023
Worden	D Wheeler	1-Jun-2007		J2e1	SNP Tested	12 13 12 25 37	9 9 8 9 8	81 81 72 81 72	1 2 5 3 8	548	972 1053 864 2025 2664	0.0010 0.0019 0.0058 0.0015 0.0030
Bradt	C Biasca	14-Jun-2007		I1a	Predicted	12 13 12 30 25 37 67	13 13 13 3 13 13 3	107 107 107 21 107 107 21	3 3 8 1 6 14 4	733	1284 1391 1284 630 2675 3959 1407	0.0023 0.0022 0.0062 0.0016 0.0022 0.0035 0.0028
Wilder	D H	24-Oct-2007		R1b1	Predicted	12 13 12 30 25 37 67	3 3 3 3 3 3 3	34 34 34 34 34 34 34	0 0 2 1 0 2 3	288	408 442 408 1020 850 1258 2278	0.0000 0.0000 0.0049 0.0010 0.0000 0.0016 0.0013
Ewing (G3)	D Ewing	31-Oct-2007	2-Nov-2007	R1b1c7	M222+	12 13 12 25 37	6 6 6 6 6	45 45 45 45 45	3 0 6 3 9	375	540 585 540 1125 1665	0.0056 0.0000 0.0111 0.0027 0.0054
Ewing (G5)	D Ewing	31-Oct-2007	2-Nov-2007	R1b1c7	M222+	12 13 12 25 37	5 5 5 5 5	37 37 37 37 37	1 0 3 1 4	318	444 481 444 925 1369	0.0023 0.0000 0.0068 0.0011 0.0029
Ewing (G6)	D Ewing	31-Oct-2007	2-Nov-2007	R1b1	P25+	12 13 12 25 37	3 3 3 3 3	18 18 18 18 18	0 0 1 0 1	206	216 234 216 450 666	0.0000 0.0000 0.0046 0.0000 0.0015
Ewing (G7)	D Ewing	31-Oct-2007	2-Nov-2007	R1b1	P25+	12 13 12 25 37	3 3 3 3 3	16 16 16 16 16	2 1 1 3 4	205	192 208 192 400 592	0.0104 0.0048 0.0052 0.0075 0.0068
Ewing (G9)	D Ewing	31-Oct-2007	2-Nov-2007	I	M170+	12 13 12 25 37	3 3 3 3 3	18 18 18 18 18	2 0 1 2 3	212	216 234 216 450 666	0.0093 0.0000 0.0046 0.0044 0.0045
Dugas	D Dugas	10-Nov-2007		J2	M172+	12 13 12 30 25 37 67	2 2 2 2 2 2 2	17 17 17 17 17 17 17	0 0 4 1 0 4 5	202	204 221 204 510 425 629 1139	0.0000 0.0000 0.0196 0.0020 0.0000 0.0064 0.0044
Eisenhart	G Belytschko	12-Nov-2007		R1b1c	M269+	12 13 12 25 37	8 8 8 8 8	52 52 52 52 52	1 0 6 1 7	414	624 676 624 1300 1924	0.0016 0.0000 0.0096 0.0008 0.0036
Devine	D Devine	13-Nov-2007		R1b1c	M269+	12 13 12 25 37	5 5 5 5 5	15 15 15 15 15	0 1 2 1 3	206	180 195 180 375 555	0.0000 0.0051 0.0111 0.0027 0.0054
Bailey	J Bailey	21-Nov-2007		R1b1c	M269+	12 13 12 25 37	5 5 5 5 5	46 46 46 46 46	2 3 5 5 10	379	552 598 552 1150 1702	0.0036 0.0050 0.0091 0.0043 0.0059
Owen (G16)	W Athey	26-Nov-2007		R1b1c	M269+	12 13 12 25 37	4 4 4 4 4	18 18 18 18 18	1 2 0 3 3	218	216 234 216 450 666	0.0046 0.0085 0.0000 0.0067 0.0045
Perdue (G1)	W Athey	27-Nov-2007		R1b	Predicted	12 13 12 25 37	3 3 2 3 2	23 23 16 23 16	0 0 1 0 1	215	276 299 192 575 592	0.0000 0.0000 0.0052 0.0000 0.0017
McCabe	J Freed	27-Nov-2007		R1b1	Predicted	12 13 12 30 25 37 67	5 5 5 4 5 5 4	25 25 25 17 25 25 17	0 2 2 1 2 4 3	259	300 325 300 510 625 925 1139	0.0000 0.0062 0.0067 0.0020 0.0032 0.0043 0.0026
Corrigan	Frances James	16-Jan-2008		R1b1	Predicted	12 13 12 25 37	3 3 3 3 3	14 14 14 14 14	1 1 1 2 3	192	168 182 168 350 518	0.0060 0.0055 0.0060 0.0057 0.0058
McGonigal	John Mcgonnigil	17-Feb-2008		R1b1c7	M222+	12 13 12 30 25 37 67	7 7 7 5 7 7 5	29 29 29 17 29 29 17	0 1 2 0 1 3 3	286	348 377 348 510 725 1073 1139	0.0000 0.0027 0.0057 0.0000 0.0014 0.0028 0.0026
Pendergrass	Mary Fern Souder	13-Mar-2008	20-Sep-2009	R1a1	M17+	12 13 12 25 37	7 7 7 7 7	29 29 29 29 29	4 2 6 6 12	309	348 377 348 725 1073	0.0115 0.0053 0.0172 0.0083 0.0112
Acree	Charles Acree	23-Mar-2008		R1b	Predicted	43 3 20 2				0	860	0.0023
Fulmer/Folmar	W Athey	10-Jun-2008		I1 (old I1a)	Estimated	12 13 12 25 37	3 3 3 3 3	16 16 16 16 16	0 0 2 0 2	198	192 208 192 400 592	0.0000 0.0000 0.0104 0.0000 0.0034
Anderson	Mary A Farrell	15-Jun-2008	4-Nov-2009	R1b1	P25+	12 13 12 25 37	4 4 4 4 4	25 25 25 25 25	1 1 2 2 4	254	300 325 300 625 925	0.0033 0.0031 0.0067 0.0032 0.0043
Woody	Dave Woody	27-Sep-2008		R1b1b2	Estimated	12 13 12 25 37	5 5 5 5 5	24 24 24 24 24	3 2 2 5 7	263	288 312 288 600 888	0.0104 0.0064 0.0069 0.0083 0.0079
Gee	Mike Gee	26-Jan-2009		R1b1b2	Estimated	12 13 12 25 37	3 3 3 3 3	23 23 23 23 23	1 0 2 1 3	236	276 299 276 575 851	0.0036 0.0000 0.0072 0.0017 0.0035
Venter	Piet Venter	17-Jan-2009	4-Nov-2009	R1a1	Estimated	12 13 12 25 37	6 6 6 6 6	41 41 41 41 41	1 1 4 2 6	348	492 533 492 1025 1517	0.0020 0.0019 0.0081 0.0020 0.0040
James	Lee James	2-Oct-2009		R1b1b2a1b5*	SNP Tested	12 13 12 25 37	4 4 4 4 4	27 27 27 27 27	1 1 2 2 4	264	324 351 324 675 999	0.0031 0.0028 0.0062 0.0030 0.0040
Galbraith	William Gilbreath	3-Oct-2009		R1b1b2a1a4	SNP Tested	12 13 12 25 37	3 3 3 3 3	21 21 21 21 21	0 1 2 1 3	226	252 273 252 525 777	0.0000 0.0037 0.0079 0.0019 0.0039
O'Shea	James O'Shea	22-Feb-2010		R1b1b2	Predicted	12 13 12 25 37	8 8 8 8 8	24 24 24 24 24	0 1 6 1 7	274	288 312 288 600 888	0.0000 0.0032 0.0208 0.0017 0.0079
										chk sum 20059		
Column Subtotals						672 728 672 270 1400 2072 603 129	381 370 356 48 370 356 48 15	2418 2381 2301 288 2381 2301 288 61	73 94 201 15 167 365 60 6	20059	29016 30953 27612 8640 59525 85137 19296 2623	0.15604 0.1802 0.40481 0.01629 0.16886 0.24743 0.02786 0.00762
Project Count						56 56 56 9 56 56 9 3	56 56 56 9 56 56 9 3	56 56 56 9 56 56 9 3	56 56 56 9 56 56 9 3	1120	56 56 56 9 56 56 9 3	56 56 56 9 56 56 9 3
												Ave Project Rate 0.0028 0.0032 0.0072 0.0018 0.0030 0.0044 0.0031 0.0025

Haplotype Size	12(1-12)	3(13-25)	12(26-37)	0(38-67)	25(1-25)	37(1-37)	67(1-67)	43(1-43)
Mutation Rate Weighted Average	0.0025	0.0030	0.0073	0.0017	0.0028	0.0043	0.0031	0.0023
+-	0.0003	0.0003	0.0005	0.0004	0.0002	0.0002	0.0004	0.0009
StdDev of Observed Project Rates	0.0031	0.0039	0.0046	0.0010	0.0026	0.0021	0.0009	0.0017
Min	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0013	0.0009
Max	0.0115	0.0256	0.0208	0.0037	0.0133	0.0112	0.0044	0.0044

HapSize	12(1-12)	3(13-25)	12(26-37)	0(38-67)	25(1-25)	37(1-37)	67(1-67)	43(1-43)
Weighted Ave Mutation Rate	0.0025	0.0030	0.0073	0.0017	0.0028	0.0043	0.0031	0.0023
+-	0.0003	0.0003	0.0005	0.0004	0.0002	0.0002	0.0004	0.0009
StdDev of Observed Project Rates	0.0031	0.0039	0.0046	0.0010	0.0026	0.0021	0.0009	0.0017
Min	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0013	0.0009
Max	0.0115	0.0256	0.0208	0.0037	0.0133	0.0112	0.0044	0.0044

End of Report

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