

Chamberlain DNA Studies

Number 13

25 August 2006 ...

Results from the 67 marker enhancements have now begun to arrive, allowing us to see some of the characteristics of these additional 30 markers. It appears that these new markers include a few sites that vary substantially in rate of mutation. For some of the pedigrees this means that there may be a basis for differentiating among descendants of the various sons of immigrant ancestors, but more results are needed before this becomes clear.

Mutation Rates

In Table 3 below I have listed all the results for 67 markers that have been reported so far. By looking at each column, from Markers 38 through 67, it can be seen that some columns display the same number from top to bottom. These are markers 38, 40, 42, 44, 45, 48, 52, 53, 54, 56, 62, and 65. That these markers all have the same allele across all the different pedigrees indicates that these sites mutate slowly. They date back to a prehistoric time before different haplogroups had begun to form by the slow drift of mutation. Other markers exhibit a variety of alleles: three for 47; four at 51; three for 55; four at 58 and three at 60 and 63. These latter sites are surely faster mutating regions on the DNA molecule. The faster mutating sites will probably prove more useful to us in tracing some of our lineages.

The Added Power of 67 Markers

To illustrate the additional power conferred by extra markers, consider the results for the participants in the Warwickshire/Rutlandshire group, on Page 2 of Table 1. When 7747 goes to his FTDNA personal page and clicks on Y-DNA Matches, he sees the names and e-mail addresses of all the persons in the FTDNA data base who match his own haplotype. Any matches at 12 markers can be ignored because they include people with common ancestors far back in history, actually in pre-history, since the common ancestor lived long before surnames came into use.

Participant 7747 has a matching Chamberlain individual, who is # 9706, at 25 markers, and the haplotypes differ by one mutation. There are two other, non-Chamberlain names who are also one mutation matches at 25 markers, and as well 15 non-Chamberlain persons who differ by two mutations.

When 7747 looks at the 37 marker matches, however, he sees that all the non-Chamberlain matches have disappeared, and only the match with # 9706 remains. But the number of mutations by which 7747 and 9706 differ has increased to four mutations. The elimination of the non-Chamberlain names shows that even at 25 markers, these matching individuals were probably too far back in time to be of genealogical interest. A four marker difference at 37 markers is not unreasonable because we have a number of instances where good documentation shows persons to be related within 10 generations and who have four mutations difference at 37 markers.

When the matches for 67 markers are examined, it turns out that, as for 37 markers, only the match with # 9706 appears. Of more interest, the 67 marker match again exhibits only a four mutation difference between 7747 and 9706. This is a significant finding, because it means that the probability of discovering a common ancestor within 15 or so generations has increased substantially. This can be seen in the "FTDNATiP Report" provided by FTDNA. Participants can obtain a similar report for their own matches by going to the Y-DNA Matches on their personal page, scrolling to the desired number of markers - 25, 37 or 67 - and then clicking on the little icon on the far right. For # 7747, the TiP Report is as follows.

FTDNA TiP™ Report

Family Tree DNA Time Predictor*

Version 1.2 - Patent Pending

In comparing 37 markers, the probability that # 7747 and # 9706 shared a common ancestor within the last...					
4 generations is	8 generations is	12 generations is	16 generations is	20 generations is	24 generations is
3.03%	22.64%	51.57%	74.88%	88.62%	95.33%

In comparing 67 markers, the probability that # 7747 and # 9706 shared a common ancestor within the last...					
4 generations is	8 generations is	12 generations is	16 generations is	20 generations is	24 generations is
7.86%	42.35%	74.95%	91.45%	97.51%	99.35%

To understand the significance of this report we observe that 12 generations takes us back to the 1500-1550 time period; 16 generations might be sometime in the 1400s. Finding parish registers in the mid 1500s is a reasonable possibility, but tracing anyone to the 1400s depends on the luck of finding manorial records or inquest data containing the target family.

So we see that with only 37 markers # 7747 had only a 50-50 chance of finding a common ancestor with # 9706 within 12 generations. With 67 markers, the odds bumped up to about three out of four. And finding a common ancestor within 16 generations is over 90%, actually pretty good odds. This shows that a 67 marker haplotype provides much better information than 37 markers, in the search for a common ancestor.

To illustrate this power of additional markers more emphatically, consider a case with two descendants in the “Richard” group on Page 1 of Table 1. We have good documentation showing that # 6125 descends from the immigrant Richard Chamberlain of Braintree, Massachusetts, born about 1615. We also have good documentation demonstrating that # 18842 descends from a Richard Chamberlain, born 1535 in Somerset, England. The haplotypes for these two participants are quite similar, differing by four mutations at 37 markers. This tells us that they have a common ancestor in a time period of genealogical interest. We have not yet found that common ancestor, so we naturally want to figure out when the common ancestor lived.

We first note that the number of mutations by which the two participants differed does not increase when going from 37 markers to 67 markers. That is a good sign, and we can obtain an estimate of the time period by using the TiP calculation provided by FTDNA. The following results are copied from the figures that appear when clicking on the little icon on the Y-DNA matches page for # 6125.

In comparing 25 markers, the probability that # 6125 and #18842 shared a common ancestor within the last...

4 generations is 7.98%	8 generations is 29.29%	12 generations is 52.47%	16 generations is 70.82%	20 generations is 83.19%	24 generations is 90.75%
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In comparing 37 markers, the probability that # 6125 and # 18842 shared a common ancestor within the last...

4 generations is 12.27%	8 generations is 47.78%	12 generations is 76.76%	16 generations is 91.39%	20 generations is 97.17%	24 generations is 99.15%
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In comparing 67 markers, the probability that # 6125 and # 18842 shared a common ancestor within the last...

4 generations is 22.71%	8 generations is 67.31%	12 generations is 90.43%	16 generations is 97.73%	20 generations is 99.53%	24 generations is 99.91%
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Notice that using only 25 markers, the chance of finding a common ancestor within 12 generations is only about 50-50. With 37 markers, the chances increase to about three out of four, but with 67 markers, the chances increase to 90%. And the chances of finding the common ancestor within 16 generations are very good, over 97%.

Readers who have kept track of communications from FTDNA may recall that the company had this to say about the FTDNATiP calculator back in 2004: “This program, coupled with results of a mutation rate study conducted by the University of Arizona, and presented by Family Tree DNA at the 1st International Conference on Genetic Genealogy on Oct. 30, 2004, has resulted in an extremely powerful new tool for genealogists. FTDNATiP incorporates specific mutation rates that have been proven to differ across the Y-chromosome markers, greatly increasing the power and precision of estimates of Time to the Most Recent Common Ancestor (TMRCA) between two individuals. The University of Arizona mutation rate study generated values significantly higher than those typically reported in the literature.”

In other words, instead of using a single mutation rate for all markers, in calculating probabilities, FTDNA’s algorithm used a different rate for each marker, derived from empirical studies conducted by researchers at the University of Arizona. These different rates were used for the 37 marker calculations, but as yet not enough data are available to provide accurate rates for the new markers 38-67. Therefore the FTDNATiP calculator uses a single mutation rate for these new markers and will do so until they obtain better information on the mutation rates for the new markers. But even with this single mutation rate for the new markers, we have seen above that a 67 marker calculation gives us considerably more power in estimating the time to a common ancestor. When data become available for differential mutation rates among markers 38-67, the power will become even greater.

Unmatched Participants

The above calculations with DNATiP of course are mainly useful for participants who have matches in the FTDNA data base. For those of us who have no matches, the task is to find cousins who

Kit # 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37

Mecklenburg, VA

07792 13 25 14 10 11 11 12 12 13 13 13 29 17 09 10 11 11 24 15 19 29 15 15 16 17

South Carolina, Abbeville District, ca. 1755

12959 13 24 14 11 12 14 12 12 12 13 13 30 17 09 09 11 11 25 15 19 30 15 15 17 17 10 11 19 23 16 15 19 17 37 37 13 12

14881 13 24 14 11 12 14 12 12 12 13 13 30 17 09 09 11 11 25 15 19 30 15 15 17 17 10 11 19 23 16 15 19 17 36 37 13 12

Tennessee, 1812

18391 13 24 14 11 11 14 12 12 13 13 14 30 18 09 10 11 11 25 16 19 29 15 15 17 17

Herefordshire & Virginia

06343 13 23 14 12 10 14 12 12 12 13 13 29 17 09 10 11 11 24 14 18 28 15 15 17 17

07081 13 23 14 12 10 14 12 12 12 13 13 29 18 09 10 11 11 24 14 18 28 15 15 17 17

Henry1/John2

26842 13 24 14 10 11 14 12 12 12 17 13 27 18 09 09 12 11 25 15 19 28 15 15 16 17 11 11 19 23 15 15 19 17 35 36 12 12

27106 13 24 14 10 11 14 12 12 12 16 13 26 17 09 10 12 11 25 15 19 28 15 15 16 17

26704 13 24 14 10 11 14 12 12 12 17 13 27 17 09 10 11 11 25 15 19 28 15 15 16 17 11 11 19 23 15 15 19 17 36 36 12 12

38254 13 24 14 10 11 14 12 12 12 17 13 27 18 09 10 12 11 25 15 19 28 15 15 16 17 11 11 19 23 15 15 19 17 35 36 12 12

Henry1/William2

06253 13 24 14 10 11 14 12 12 11 17 13 27 18 09 10 12 11 25 15 19 28 15 15 16 17 11 11 19 23 15 15 20 17 35 36 12 12

07838 13 24 14 10 11 14 12 12 12 16 13 26 18 09 10 12 11 25 15 19 28 15 15 16 17 11 11 19 23 15 15 19 17 35 36 12 12

08656 13 24 14 10 11 14 12 12 12 16 13 26 18 09 10 12 11 25 15 19 28 15 15 16 17 11 11 19 23 15 15 19 17 35 36 12 12

12349 13 24 14 10 11 14 12 12 12 17 13 27 18 09 10 12 11 25 15 19 28 15 15 16 17 11 12 19 23 15 15 19 17 35 36 12 12

12525 13 24 14 10 11 14 12 12 12 17 13 27 17 09 10 12 11 25 15 19 29 15 15 16 17 11 11 19 23 15 15 19 17 35 36 12 12

13836 13 24 14 10 11 14 12 12 12 17 13 27 18 09 10 12 11 25 15 19 28 15 15 16 17 11 11 19 23 15 15 19 17 35 36 12 12

13966 13 24 14 10 11 14 12 12 12 17 13 27 18 09 10 12 11 25 15 19 28 15 15 16 17 11 11 19 23 15 15 18 17 35 36 12 12

15743 13 24 14 10 11 14 12 12 12 17 13 27 18 09 10 12 11 25 15 19 28 15 15 16 17 11 11 19 23 15 15 19 17 35 36 12 12

18259 13 24 14 10 11 14 12 12 12 17 13 27 18 09 10 12 11 25 15 19 28 15 15 16 17 11 11 19 23 15 15 19 17 34 36 12 12

21678 13 24 14 10 11 14 12 12 12 17 13 27 18 09 10 12 11 25 15 19 28 15 15 16 17 11 11 19 23 15 15 19 17 35 36 12 12

26864 13 24 14 10 11 14 12 12 12 17 13 27 18 09 10 12 11 25 15 19 28 15 15 16 17 11 11 19 23 15 15 19 17 35 36 12 12

Henry1/Henry2

24591 13 24 14 10 11 14 12 12 12 17 13 27 18 09 10 12 11 25 15 19 28 15 15 16 17 11 11 19 23 15 15 19 17 36 36 12 12

Henry - false paternities

06021 13 24 14 10 11 14 12 12 12 13 13 30 16 09 10 11 11 25 15 19 29 14 16 16 18 11 11 19 23 16 15 17 17 34 35 12 12

10504 13 24 14 10 11 14 12 12 12 13 13 30 16 09 10 11 11 25 15 19 29 15 16 17 18 11 11 19 23 16 15 17 17 34 35 12 12

27969 13 24 14 11 11 14 12 12 12 13 13 29 16 09 09 11 11 25 15 19 29 15 15 17 18 10 11 19 23 17 16 18 18 33 37 12 12

16803 13 24 14 10 11 13 12 12 13 11 13 27 17 09 10 11 12 25 15 19 29 15 16 16 18 11 11 19 23 15 16 18 18 37 38 11 12

Warwickshire/Rutlandshire

07747 13 22 14 11 13 14 11 14 11 12 11 28 15 08 09 08 11 23 16 20 27 12 14 15 16 11 10 19 21 14 14 17 20 37 37 13 10

09706 13 22 14 11 13 14 11 14 12 12 11 28 15 08 09 08 11 23 16 20 27 12 14 15 16 11 10 19 21 15 14 17 20 36 38 13 10

00419 13 22 14 11 13 14 11 14 11 12 11 28 15 08 09 08 11 23 16 20 28 12 14 14 15

Robert of Berkshire

09311 13 24 14 11 12 14 12 12 13 13 13 29 18 09 09 11 11 25 15 19 28 17 17 17 17

10514 13 24 14 11 12 14 12 12 13 13 13 29 18 09 09 11 11 25 15 19 28 17 17 17 17

Joseph Chamberland, 1767, Detroit, MI

13009 13 24 15 11 11 14 12 12 11 13 13 28 18 09 10 11 11 24 15 19 30 15 16 17 17

Kit # 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37

Chamberland

53104 14 23 15 10 15 16 11 16 12 13 11 28 16 09 09 11 11 27 15 19 29 12 13 15 16

Preston Capes, Northamptonshire

05994 13 22 17 10 15 16 11 12 12 12 12 30 15 09 09 11 11 23 16 19 33 15 16 16 17 10 11 18 21 16 12 18 19 32 35 11 10

07558 13 22 17 10 15 16 11 12 12 12 12 30 15 09 09 11 11 23 16 19 33 15 16 16 17 10 11 18 21 16 12 18 19 32 35 11 10

07836 13 22 17 10 15 16 11 12 12 12 12 30 15 09 09 11 11 23 16 19 33 15 16 16 17 10 11 18 21 16 12 18 19 32 35 11 10

Overstone, Northamptonshire

17128 13 24 14 10 13 15 12 12 12 13 13 29 15 09 10 11 11 25 15 18 30 14 16 17 18 11 11 19 23 17 15 20 18 35 37 12 12

Harbury, Warwickshire

07518 13 24 14 11 13 14 13 12 12 13 13 29 17 09 10 11 11 27 15 19 29 15 16 17 17

Barston, Warwickshire

09373 13 24 14 12 11 14 12 12 12 13 13 29 16 09 10 11 11 25 15 19 28 15 15 16 17

George LeRoy Chamberlain of NYC

10891 13 23 15 11 12 13 12 12 12 13 13 29 18 09 09 11 11 24 15 18 29 17 17 17 17

Swepstone, Leicestershire

09643 13 23 14 11 11 14 12 12 11 13 13 29 18 09 09 11 11 25 15 18 28 14 15 16 17

Sedgwick, Kansas

17772 13 23 12 11 11 14 12 12 12 13 13 29 18 09 09 11 11 25 15 19 29 15 16 16 17

Huntingdonshire

15495 13 25 14 10 11 14 12 12 13 14 13 30 20 09 10 11 11 25 15 19 31 15 15 17 17

Edinburgh, Scotland

13315 13 25 14 11 11 13 12 12 12 13 14 29 17 09 10 11 11 24 15 18 30 15 16 16 17

Chamblin, Illinois

14329 13 24 14 12 11 13 12 12 11 12 13 29 17 09 09 11 11 25 16 19 29 15 17 18 19 11 11 19 23 17 15 18 16 37 37 13 13

Shamblin, Illinois

35778 13 25 14 11 11 15 12 12 12 13 13 30 16 09 10 11 11 24 15 19 30 15 15 16 17 11 10 19 23 15 14 19 17 38 38 12 12*

43940 13 25 14 11 11 15 12 12 12 13 13 30 16 09 10 11 11 24 15 19 30 15 16 17 17 11 10 19 23 15 14 19 17 38 38 12 12

44239 13 25 14 11 11 15 12 12 12 13 13 30 16 09 10 11 11 24 15 19 30 15 16 17 17 11 10 19 23 15 14 18 17 38 38 12 12

* Has an extra copy of DYS 464.

Shamblin families

14817 13 24 14 10 11 15 12 12 12 13 13 29 18 09 10 11 12 25 15 19 31 15 15 16 17 11 11 19 24 15 16 17 18 36 38 12 12

21994 13 24 14 10 11 15 12 12 12 13 13 29 18 09 10 11 12 25 15 19 31 15 15 16 17 11 11 19 24 15 16 17 18 36 38 12 11

23534 13 24 14 10 11 15 12 12 12 13 13 29 18 09 10 11 12 25 15 19 31 15 15 16 17 11 11 19 24 15 16 17 18 36 38 12 12

25298 13 24 14 10 11 15 12 12 12 13 13 29 18 09 10 11 12 25 15 19 31 14 15 16 17 11 11 19 23 15 16 17 18 36 37 12 12

30766 13 24 14 10 11 15 12 12 12 13 13 29 18 09 10 11 12 25 15 19 31 15 15 16 16 11 11 19 24 15 16 17 18 36 38 12 12

34849 13 24 14 10 11 15 12 12 11 13 13 29 18 09 10 11 12 25 15 19 31 15 15 16 17

02808 13 24 14 10 11 15 12 12 12 13 13 29 18 09 10 11 12 25 15 19 31 15 15 16 17 11 11 19 24 15 16 17 18 36 38 12 12

37629 13 24 14 10 11 15 12 12 12 13 13 29 18 09 10 11 12 25 15 19 31 15 15 16 17 11 11 19 24 15 16 17 18 36 37 12 12

Name1 13 24 14 10 11 15 12 12 12 13 13 29 18 09 10 11 12 25 15 19 31 15 15 16 17

Name2 13 24 14 10 11 15 12 12 12 13 13 29 18 09 10 11 12 25 15 19 31 15 15 16 17 11 11 19 24 15 16 17 18 36 38 12 12

Paul Adolphus/Paul Pendleton Chamberlain lineage

38999 13 24 14 11 11 14 12 12 12 14 13 30 18 09 10 11 11 25 15 19 31 15 15 16 16 11 11 19 23 15 15 19 17 36 37 12 12

Kit # 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37

Suffolk, England

45531 13 25 14 10 11 12 12 12 12 12 13 28 17 09 09 11 11 24 15 19 30 15 16 16 17 11 11 19 22 16 15 19 17 36 36 12 12

Ireland, Jeremiah/Ninian families

44664 13 24 14 11 12 15 12 12 11 14 13 30 15 09 09 11 11 24 15 19 31 15 16 16 17

57347 13 24 14 11 12 15 12 12 11 14 13 30 15 09 09 11 11 24 15 19 31 15 16 16 17

Ireland

50132 13 24 15 11 11 14 12 12 12 13 13 29 18 09 10 11 11 25 15 19 31 14 15 17 18

60687 13 24 15 11 11 14 12 12 12 13 13 29 17 09 10 11 11 25 15 19 31 14 15 17 18

Z1 13 24 14 11 11 14 12 12 12 13 13 29 17 09 09 11 11 25 15 19 29 15 16 17 17

14983 13 24 14 11 12 14 12 12 13 13 13 29 15 09 09 10 11 25 15 19 30 14 15 16 17

44754 13 23 14 10 13 14 11 14 11 12 11 28 16 08 10 08 11 23 16 20 28 12 14 15 17 10 10 19 21 15 14 19 18 35 36 13 10

Modal values for haplogroup R1b

R1b 13 24 14 11 11 14 12 12 12 13 13 29 17 09 10 11 11 25 15 19 29 15 15 17 17

Table 2. Participants In DNA Study

Participant Origins:

02808-Ancestry traced to David Mauck b. 1826 in OH, but DNA matches Shamblin lineages

05994- Preston Capes, Northamptonshire, Eng.

06021 - Henry, New England

06125- Richard, New England, from son Benjamin

06253- Known ancestry ends in New York; immigrant ancestor unknown

06343- Chamberlayne of Virginia, and Much Dewchurch, Herefordshire, Eng.

06344- Documents ancestry to New England immigrant William

06569 - No documented ancestry; probable cousin of 6344 (23/25 match)

06668 -Traced to David Chamberlain & Hannah Bridge ca. 1820; immigrant uncertain

07081 - Chamberlayne, Herefordshire, 3rd cousin of 6343

07133- Richard, 4th cousin of 6125

07518- Harbury, Warwickshire, Eng.

07558 - Northamptonshire, brother of 5994, 3 year age separation

07747- Hampton In Arden, Warwickshire, England

07792- Mecklenburg Co., Virginia

07836- Northamptonshire, 2x grand nephew of 5994

07838- Documented to New England immigrant Henry

08032- Documents ancestry to New England immigrant William; 7th cousin, 2x to 6344

08097- Father of 6668

08627- Third cousin once removed to Subject 6668.

08656-Immigrant ancestor previously unknown

09311- Ancestry not documented to the immigrant; 25/25 match with 10514

09373-Barston, Warwickshire, Eng.

09643- Documents ancestry to Swepstone, Leicestershire, Eng.

09706- Documents ancestry to Cottesmore, Rutlandshire, Eng.

10078- Documents ancestry to New England immigrant Edmund Chamberlain

10504- Documented ancestry to New England immigrant Henry Chamberlin; 7th cousin, 1x to 6021

10514-Documented ancestry to Robert Chamberlain, of Lambourne parish, Berkshire, Eng.

10891-Immigrant ancestor not yet identified

12318-Lineage controversial; descent from the New England immigrant Thomas theorized.

12349-Ancestry previously uncertain

12525-Ancestry previously uncertain

12564-Immigrant ancestor uncertain; thought to be either Henry or Thomas

12726-Traced to New England immigrant Richard, via son Joseph

12959-Line traced to Abbeville District, South Carolina, John Chamberlin, ca. 1755
13009- Immigrant ancestor not yet identified
13097- Traced to New England immigrant Thomas
13314-Richard descendant from son Joseph
13315- Traced to Philip Chamberlain 1806 of Edinburgh, Scotland
13341-Ancestry traced to immigrant William.
13836-Ancestry not traced
13966-Ancestry documented to Henry's grandson Nathaniel, by son William's first wife
14329-Ancestry documented to Bryan Chamblin 1689, landowner of Prince William Co., VA
14817-Thought to be in the lineage of Bryan Chamblin
14881-Line traced to Abbeville District, South Carolina, John Chamberlin, ca. 1755
14983-surname is "Berlin." Perfect 12 marker match with 9311 and 10514
15495- Documented to the 17th century in Huntingdonshire
15743-Ancestry documented to Henry's son William and grandson Joseph.
16030-Ancestry uncertain; US Census listed ancestry to Scotland
16803-Thought to have descended from Henry
17128-Ancestry traced to Overstone, Northamptonshire, England
17772- Membership in pedigree of Andrew Chamberlain 1823
18116-Ancestry traced to New England immigrant Edmund Chamberlain
18391-Possible descendant of Samuel Chamberlain, Brunswick, VA
18411-Ancestry traced, with some uncertainty, to New England immigrant Richard Chamberlain
18589-Ancestry traced to New England immigrant Richard Chamberlain; 3rd cousin 1x to # 18411
18837-Ancestry traced to Richard 1535 in North Cadbury, Somerset
18840-Living in Wincanton, Somerset
18841-Living in Wincanton, Somerset; son of 18840
18842-Ancestry traced to Richard 1535 in North Cadbury, Somerset
20173-Ancestry traced to James Atherton Chamberlain, 1812
21994-Thought to be in the lineage of Bryan Chamblin
22510-Traced to David Chamberlain & Hannah Bridge ca. 1820; immigrant uncertain
23534-Paper trail to Aaron Chamblin of Virginia
24590-Ancestry traced to New England immigrant William Chamberlain
24591-Ancestry traced to immigrant Henry's son Henry
25298- Paper trail to Aaron Chamblin of Virginia
26704-Ancestry not traced
28365-Traced to the immigrant Richard Chamberlain of Braintree
26842-Ancestry traced to immigrant Henry's son John
26864-Ancestry traced to Henry's son William.
27106-Ancestry traced to immigrant Henry's son John
27324-Ancestry traced to immigrant William
27969-Ancestry traced to immigrant Henry's son John
30038-Ancestry traced to New England immigrant William Chamberlain
30766-Ancestry traced to Bryan Chamblin of Virginia
30824- Ancestry traced to New England immigrant William Chamberlain
33061-Ancestry traced to immigrant Richard Chamberlain
34849-Ancestry traced to Bryan Chamblin of Virginia
35778-Ancestry traced to Bryan Chamblin of Virginia.
37629-Ancestry traced to Bryan Chamblin of Virginia.
38999-Ancestry traced to Paul Adolphus Chamberlain.
39142-Ancestry traced to immigrant Edmund.
43940-Documentation suggests link to Bryan Chamblin.
44239-Documentation suggests link to Bryan Chamblin.
44664-Ancestry traced to Jeremiah/Ninian lineage
45531-Current resident of Suffolk, Eng., ancestry not traced
50132-Ancestry traced to an immigrant from Ireland ca 1850.
53104-Ancestry untraced
55669-Ancestry traced to Andrew Chamberlain from Somerset, Eng.
55919-Ancestry traced to immigrant William Chamberlain (three brothers)
57347-Ancestry traced to Jeremiah/Ninian lineage

60687-Ancestry traced to Ireland
 Z1 - Non-Chamberlain surname (McCeney)
 Z2 - Non-Chamberlain surname (Maxwell) (23/25 match with 6344)
 N8921-Non-Chamberlain surname but haplotype matches three brothers lineage.
 N28365-Unknown lineage
 14983 – Non-Chamberlain surname
 44754 – Non-Chamberlain surname
 00419- Non-Chamberlain surname (Crowley) (23/25 match with 7747)
 Name1-Non-surname (Carter); 25/25 match with three Shamblin participants.
 Name2-Non-surname (Johnson)

Loci Identifications (* = faster mutation)

1	393	14	459a	*	27	GATA H4
2	390	15	459b	*	28	YCA IIa
3	19 (a.k.a. DYS 394)	16	455		29	YCA IIb
4	391	17	454		30	456
5	385a	18	447	*	31	607
6	385b	19	437	*	32	576
7	426	20	448		33	570
8	388	21	449	*	34	CDYa
9	439	22	464a	*	35	CDYb
10	389-1	23	464b	*	36	442
11	392	24	464c	*	37	438
12	389-2	25	464d	*		
13	458	26	460			

Table 3.
DNA Loci 38-67

38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67

Thomas, Edmund, William

06569 11 09 15 16 08 10 10 08 10 10 12 21 23 16 10 12 12 15 08 13 22 20 13 12 11 15 11 11 12 11
27324 11 09 15 16 08 10 10 08 10 09 12 21 23 16 10 12 12 15 08 12 22 20 13 12 11 15 11 11 12 11
13097 11 09 15 16 08 10 10 08 10 10 12 21 23 16 10 12 12 15 08 13 22 20 13 12 11 15 11 11 12 11

Richard

06125 11 09 15 16 08 10 10 08 10 10 12 23 23 16 10 12 12 15 08 12 23 20 14 12 11 13 12 11 12 12
18841 11 09 15 16 08 10 10 08 10 11 12 23 23 16 10 12 12 15 08 12 23 20 14 12 11 13 12 11 12 12
18842 11 09 15 16 08 10 10 08 10 10 12 23 23 16 10 12 12 15 08 12 23 20 14 12 11 13 12 11 12 12
33061 11 09 15 16 08 10 10 08 10 10 12 23 23 15 10 12 12 15 08 12 23 20 14 12 11 13 12 11 12 12

Henry

06253 11 09 15 16 08 10 10 08 10 10 12 23 23 17 10 12 12 17 08 12 22 22 13 12 11 13 11 11 12 12
07838 11 09 15 16 08 10 10 08 10 10 12 23 23 17 10 12 12 17 08 12 22 22 13 12 11 13 11 11 12 12
08656 11 09 15 16 08 10 10 08 10 10 12 23 23 18 10 12 12 17 08 12 22 22 13 12 11 13 11 11 12 12
38254 11 09 15 16 08 10 10 08 10 10 12 23 23 16 10 12 12 17 08 12 22 22 13 12 11 13 11 11 12 12

Warwickshire/Rutlandshire

07747 11 08 15 15 08 11 10 08 09 09 12 23 25 15 10 12 12 16 08 13 27 20 12 13 11 12 10 11 12 11
09706 11 08 15 15 08 11 10 08 09 09 12 23 25 15 10 12 12 16 08 13 27 20 12 13 11 12 10 11 12 11

Shamblin families

02808 11 09 15 16 08 10 10 08 10 11 12 23 23 16 10 12 12 15 08 12 21 20 13 12 11 13 11 11 13 12

DYS Designations for Markers 38-67

38	531	48	425	58	481
39	578	49	413a	59	520
40	395S1a	50	413b	60	446
41	395S1b	51	557	61	617
42	590	52	594	62	568
43	537	53	436	63	487
44	641	54	490	64	572
45	472	55	534	65	640
46	406S1	56	450	66	492
47	511	57	444	67	565
