DNA

I. CASE STUDIES PER TEST

II. NEW THINGS PER COMPANY

By Kenneth H. Thomas, Jr.

October 7, 2023

Archives and Genealogy Day
DNA TESTS

FAMILY TREE DNA

• Only company to offer the *mtDNA* or mitochondrial test of the direct matrilineal line.

• Only company to offer the *Y-DNA* test of the direct male line.

Autosomal Tests

• Offered by all five major DNA testing companies.

• *Ancestry.com* and *23andMe* require a *spit test* be done and you cannot transfer results in.

• *FamilyTreeDNA, LivingDNA, and MyHeritage* use the *cheek swab* and allow results transferred in.
mtDNA Test—how to make it work for you

- Find a direct matrilineal line.
- From a female relative, or yourself, back to ? (Your mother’s mother’s mother.) or their mother’s mother, etc.
- Depending on what you are hoping to prove, verify.
- Finding the candidate is one thing, getting them to test is another.
- But if you need this information, keep at it.

- mtDNA only offered at Family Tree DNA.
- Bargain discounts often. Only the *Full Sequence test* will do.
The Wellborn/Sanders/Driver proof

• Sarah Sanders Wellborn (1802-1850s) – Ken’s ancestor and Ken’s mtDNA test.
• 6 generations from Sarah thru Ken’s grandmother, his mother, to him.
• His research/paper trail was weak as a lot was unprovable.
• But a friend secured a DNA test that sealed the deal.

Daughters of Nathaniel Sanders and Mary Driver

Sarah S. Wellborn (1802-50s) sisters
Martha S Deloach
Eliza W. Hudson (1845-1917)
Jennie H. Russell (1868-1960)
Helen R. Brooks (1905-1993)
Louise B. Thomas (1922-2021)
Ken
Debra S. DNA
### mtDNA Matches

#### FILTER MATCHES
- Show Matches For: The Entire Database
- Regions: HVR1, HVR2, Coding Regions
- Matches Per Page: 25
- Last Name Starts With: (Optional) New Since:
- Run Report

#### HVR1, HVR2, CODING REGIONS - 126 MATCHES

<table>
<thead>
<tr>
<th>Genetic Distance</th>
<th>Name</th>
<th>Earliest Known Ancestor</th>
<th>mtDNA Haplogroup</th>
<th>Match Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Mary Driver (Nathaniel Sanders), Franklin Co., NC</td>
<td></td>
<td>K1a4a1a-T195C</td>
<td>10/4/2019</td>
</tr>
<tr>
<td>0</td>
<td>John Doe</td>
<td></td>
<td>K1a4a1a-T195C</td>
<td>2/28/2020</td>
</tr>
<tr>
<td>0</td>
<td>Alice Smith</td>
<td></td>
<td>K1a4a1a-T195C</td>
<td>5/6/2021</td>
</tr>
</tbody>
</table>

Rest of matches cut off for the purpose of this slide. KHTjr.

This info added after the match was made. Not Automatic. Added by that test taker.
Phebe (?) Barbee (c.1774-1836) 
Orange Co., NC- What was maiden name?

- Find direct female desc. to test.
- Several were eligible.
- Picked one who had already done a DNA test, knew her.
- mtDNA results in Sept. 2022.
- Highest match had done genealogy, had tree, and thus her direct maternal line helped.

- Red Star-Orange Co.NC-Phebe
- Purple Star- Brunswick/Greensville Co. VA for mtDNA match’s ancestors, so far.
Mary Jane Parker
only known daughter of
James Parker and his first wife,
name unknown.
For mtDNA to be useful here, you
Have to test a direct female
Descendant. While I was prepared
To track one down, ThruLines
Has lead me right to someone.
Next step, Get In Touch.
Y-DNA Test-only at Family Tree DNA

- Y-DNA test can only be taken by men. *Minimal 37 marker test.*
- Need to find a man in the direct male surname line to test.
- May need to pick a cousin if you have no male siblings, etc.
- Be prepared for whatever results show up.
- There can be surprises.

- **Humphries** test-Ken took to prove the family story.
- **Russell** test-cousins matched, proved family origin story.
- **Harrison** test pending, if we find the right people to test on each branch.
- **Knott** test pending, see the Group Projects at FTDNA-How will the candidate fit?
HUMPHRIES TEST TO PROVE FAMILY STORY

- Ken’s paternal grandfather born c. 1893 to a single mother, Vina Hoyle.
- After she married in 1902, she gave her children the surname Thomas.
- Knew since 1967 that Thomas was not our ancestral name. Took until 1992 to get a hint.
- Cousin said man’s name was Humphries.

- Ken did Y-DNA test in 2005
- Got results in late 2006
- At first, Matched one Humphries, on a different branch.
- By then had researched the clues and knew our purported ancestor was William Humphries who died 1825 Rutherford Co., NC on the NC/SC line.
ThruLines® for Samuel Humphries

ThruLines® uses Ancestry® trees to suggest that you may be related to 69 DNA matches through Samuel Humphries.

Relationships

Samuel Humphries
4th great-grandfather

William Pettis Humphreys

Daniel Humphries
3rd great-grandfather
1807-1889

Perry G. Humphries
2nd great-grandfather
1831-1888

Stephen Humphries
2nd great-granduncle
1833-1894

Frances Humphries
2nd great-granduncle
1835-1895

Misanah Humphries
2nd great-granduncle
1843-1901

Lawson Humphries
2nd great-granduncle
1845-

Kenneth H. Thomas

EVALUATE

3 DNA Matches

EVALUATE

3 DNA Matches

EVALUATE

4 DNA Matches

EVALUATE

4 DNA Matches

Elizabeth
4th cousin
8 cM 1 segments

Donna McC
4th cousin
11 cM 2 segments

Siblings

DNA Matches
This is the man the Family story identified Known as Mun Humphries
RUSSELL FAMILY PROJECT: PROVING A STORY

• Russell family ancestor born c. 1866 out-of-wedlock.
• Purported father lived in Eufaula, AL & never acknowledged sons.
• No male Russell-surnamed descendants in the legitimate line.
• Had to find descendant of a brother of the purported father.
• Went up the tree and back down.
• Found DNA test taker in Arkansas.
• The two Russell-surnamed men were exact match at genetic distance 0 at FamilyTreeDNA.

My 2nd Cousin on Russell Line.
• The Y-DNA test on my Harrison family is needed to link ours in Mecklenburg Co., NC with the line in adjacent Rowan Co., NC.
• We have autosomal matches with them.
• The Rowan Co., NC Harrisons on paper can be proven back to St. Mary's Co., MD. My ancestor in Meck. Co. said in 1880 parents born in MD (bef. 1780S).
• My Harrison branch narrows down to one 15 yr. old, and we would have to deal with a minor, his mother, and I don’t know them.

• So what next?
• My great-grandfather C. W. Harrison was the youngest of 6 brothers, and had 15 siblings total.
• He had a very distinct look.
• So its clear to me that the descendants of one brother who have already done DNA would be good to contact.
• The Rowan Co. group already have someone who they hope to test.
• **But don’t wait too long.**
C. W. HARRISON AND HIS BROTHER-clearly they are brothers, so DNA should be OK.

C. W. Harrison (1876-1946), my great-grandfather.  
Phonzo M. Harrison (1868-1916), his brother.
Before Y-DNA Testing someone, check to see if anyone on your line has already tested at Y-DNA.

- At FTDNA you can go to the Group Projects area.
- Find the Y-DNA group for your surname, usually mixed with other spelling variations.
- You don’t see the tester’s name, but you can see if they have put any useful data down.
- Always check first.

- For the *Harrison* family, checking this has not proven any possible links.
- But on the *Knott* DNA project there are a number of men tested, variously grouped.
- The man we have asked to test, from Granville Co., NC, should match one of these groups.
- *That match could lead our research in a new direction.*
The Harrison Group Project on FTDNA, has a **Results Page** where they have sorted all the DNA matches into groups, and if the person knew anything, their earliest Harrison ancestor and location. Mine do not show up.
Orange Arrow indicates someone that claims Their Knott line is the one from Jamestowne.
• SPELLING VARIATIONS SHOW CHANGES IN A NAME OVER CENTURIES.

• MY FRIEND’S LINE CAN BE TRACED ON PAPER AS ATKINSON BACK INTO N.C. IN 1780s.

• THESE OTHER MEN MAY NOT HAVE THOUGHT OF NAME VARIATIONS.

**SURNAME VARIATIONS OF MATCHES**

Genetic Distance 0:
- Atkinson (2)
- Caulder
- Blair (2)

Genetic Distance 1:
- Atkinson (2)
- Atkison
- Adkison

G. D. 2: Atkins
Autosomal DNA

• Proof of other matches, mysteries thru Ancestry.com’s ThruLines is good example of why to use that site.

• To verify a line and your paper trail you may need to recruit more test takers, and if need be, pay for them yourself. Again, depending on your goals.

• Case Study Huneycutt.
The Shared cM Project – Version 4.0 (March 2020)

How to read this chart:

**Relationship**
- **Aunt/Uncle**
  - Average: 1741
  - Range (min-max): 1201 - 2282

**Great-Great-Grandparent**
- **GGG-Aunt/Uncle**
  - Average: 208
  - Range (min-max): 103 - 284

**Great-Great-Grandparent**
- **Great-Great-Grandparent**
  - **GGGG-Aunt/Uncle**
    - Average: 120
    - Range (min-max): 117 - 238

**Great-Grandparent**
- **Great-Great-Aunt/Uncle**
  - Average: 431
  - Range (min-max): 184 - 668

**Great-Grandparent**
- **Half Great-Aunt/Uncle**
  - Average: 859
  - Range (min-max): 330 - 1467

**Grandparent**
- **Great Aunt/Uncle**
  - Average: 871
  - Range (min-max): 246 - 984

**Parent**
- **Half Parent**
  - Average: 526
  - Range (min-max): 245 - 982

**Sibling**
- **Sibling**
  - Average: 2376
  - Range (min-max): 3720 - 492

**Self**
- **SELF**
  - Average: 41
  - Range (min-max): 592 - 396

**Child**
- **Child**
  - Average: 526
  - Range (min-max): 971 - 245

**Niece/Nephew**
- **Niece/Nephew**
  - Average: 740
  - Range (min-max): 1301 - 2282

**Grandchild**
- **Grandchild**
  - Average: 14
  - Range (min-max): 533 - 14

**Other Relationships**
- **6C**
  - Average: 0
  - Range (min-max): 0 - 71

- **6C1R**
  - Average: 0
  - Range (min-max): 0 - 56

- **7C**
  - Average: 0
  - Range (min-max): 0 - 57

- **7C1R**
  - Average: 0
  - Range (min-max): 0 - 50

Minimum was automatically set to 0 cM for relationships more distant than Half 2C, and averages were determined only for submissions in which DNA was shared.
How to Calculate Cousinhood

Follow these steps to figure out what kind of cousins you are with a relative:
1. Identify the most recent ancestor you share with your relative, and how that ancestor is related to both you and to your relative.
2. Find the ancestor on the chart (such as your parent, grandparent, great-grandparent, etc.).
3. Count down one box for each generation between that ancestor and your relative. The box you land on specifies your relationship with the relative, and how much DNA you share with him or her.

The shared DNA data can help you estimate your relationship to a genetic match. Note that this chart doesn’t show double cousins or half siblings, both relationships with about 25 percent shared DNA (roughly 1,700 cM).
FTDNA-Chromosome Browser-Cathy C.
same woman from Living DNA-on cM 18- matches

Cathy C. has roots in Stanly Co., NC and With matches kin to Huneycutt family of My great-grandmother. But she also matches Motley desc. From same County.

I know on paper where She fits into the Huneycutt Tree. Not sure of the others.
This tree showed up because I put the Huneycutt clue on my tree, to force a ThruLines match.

This is what You get when you Click on your match.

This Brick Wall tumbled when CB popped up as a high match (107 cM) in 2016. Produced clues toward Unknown Ancestor for my great Grandmother from Stanly Co NC.
HUNEYCUTT BOOK HELPED SORT OUT DNA MATCHES/PLACED QUERY.

FAMILY BOOK OBTAINED SEPT 2016

The Generations of William Riley and Mila Ann Whitley Huneycutt

QUERY IN THE STANLY COUNTY GENEALOGICAL SOCIETY JOURNAL, NOV. 2017

Quires From Current Members:

(To contact an individual, please contact theStanly County Genealogy Society Secretary. Janice Mitchner)

Kenneth H. Thomas, Jr., 619 Pinetree Dr., Decatur, GA 30030 khomjg@aol.com 404-377-4943

(Inquiries addressed to please provide all contact information to be published by Mr. Thomas on September 1, 2017)

“I am a descendant of Redding Almond and Jane Rogers who died in the late 1870’s, in Stanly Co., NC through their daughter Elizabeth J. Sides, who moved to Charlotte, NC and died in 1908. I am working on DNA testing for genealogy purposes, using Ancestry.com DNA and FamilyTree DNA.com, to establish and verify some of my family links to Stanly Co. My DNA matches fairly closely with DNA of descendants of William R. Huneycutt, Sr. (died 1857), thru two of his children: James Alexander Huneycutt and William R. Huneycutt, Jr. I need to contact, or know if anyone had done DNA testing, who is a descendant of either of his two other sons: Daniel Cicero Huneycutt (1849-1898) or Green D. Huneycutt (1852-1924). I have a copy of the book “The Generations of William Riley and Mila Ann Whitley Huneycutt” (1944) by Mrs. Minnie Hathcock Huneycutt (a copy is also at the Stanly County History Center) and have used that to place on the family tree some of my DNA matches. I will be glad to pay for said DNA testing, once I know how someone is descended from either of these two Huneycutt men. I am not interested in any descendants of Daniel Cicero Huneycutt.”

Got no response in six years to this query.
DNA TESTING COMPANIES
where autosomal testing is done-all of them

• ANCESTRY.COM

• FAMILYTREEDNA.COM

• LIVING DNA

• MY HERITAGE

• 23andMe
<table>
<thead>
<tr>
<th>Feature</th>
<th>Ancestry</th>
<th>23andMe</th>
<th>MyHeritage</th>
<th>FTDNA</th>
<th>LivingDNA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Database Size</strong></td>
<td>&lt;15 million</td>
<td>&lt;10 million</td>
<td>&lt;3 million</td>
<td>&lt;1 million (estimated as no data released)</td>
<td>Unknown but substantially smaller than the others</td>
</tr>
<tr>
<td><strong>DNA Collection Method</strong></td>
<td>Saliva Sample</td>
<td>Saliva Sample</td>
<td>Cheek Swab</td>
<td>Cheek Swab</td>
<td>Cheek Swab</td>
</tr>
<tr>
<td><strong>Ethnicity Estimates</strong></td>
<td>Yes – includes Genetic Communities</td>
<td>Yes – includes ancestry composition chromosome painting</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes – includes UK regional breakdown</td>
</tr>
<tr>
<td><strong>Health Insights</strong></td>
<td>New health test announced Oct 2019</td>
<td>Combined health + ancestry test available</td>
<td>Combined health + ancestry test available (new)</td>
<td>No health test currently available</td>
<td>Separate wellbeing test now available (new)</td>
</tr>
<tr>
<td><strong>Shared Matches</strong></td>
<td>Yes – cut off at 20cM and cannot see how shared matches match each other</td>
<td>Yes – can also see how shared matches match each other</td>
<td>Yes – can also see how shared matches match each other</td>
<td>Yes – cannot see how shared matches match each other but also has a not in common with list</td>
<td>Yes – cannot see how shared matches match each other</td>
</tr>
<tr>
<td><strong>Family Trees</strong></td>
<td>Yes – can build trees on-site or upload a gedcom</td>
<td>Yes – new automated trees feature plus can link FamilySearch trees</td>
<td>Yes – can build trees on-site or upload a gedcom</td>
<td>Yes – can build a tree on-site or upload a gedcom</td>
<td>No current facility</td>
</tr>
<tr>
<td><strong>Contacting Matches</strong></td>
<td>Via site’s own messaging system</td>
<td>Via site’s own messaging system</td>
<td>Via site’s own messaging system</td>
<td>Email addresses provided</td>
<td>Via site’s own messaging system</td>
</tr>
<tr>
<td><strong>Chromosome Browser</strong></td>
<td>No – no segment data available</td>
<td>Yes – compare up to 5 matches at a time</td>
<td>Yes – compare up to 7 matches at a time plus triangulated segments</td>
<td>Yes – compare up to 7 matches at a time</td>
<td>Yes – compare up to 7 matches at a time</td>
</tr>
<tr>
<td><strong>Subscription-only Features</strong></td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>Raw Data Transfers</strong></td>
<td>No</td>
<td>No</td>
<td>Yes - £29 fee for additional features or inc with sub</td>
<td>Yes - £19 fee for additional features</td>
<td>Yes - £29 to add regional ethnicity estimate</td>
</tr>
<tr>
<td><strong>Additional DNA Tools</strong></td>
<td>Thrulines Common Ancestor Hints 24 Colour-Coded Groups</td>
<td>Theory of Family Relativity Smart Matches Autoclusters</td>
<td>Maternal/Paternal Buckets Advanced Matches Tool Matrix Tool</td>
<td>Not yet</td>
<td>Not yet</td>
</tr>
</tbody>
</table>

Note
Changes in Red

Family-tree.co.uk

Not easy to contact.

Just added a Chromosome Browser, up to 7 to match.
## DNA Test Comparison Chart

**Website:** [www.whoareyoumadeof.com](http://www.whoareyoumadeof.com)

<table>
<thead>
<tr>
<th>Test Provider</th>
<th>Cost</th>
<th>Find Family Matches</th>
<th>Find Ethnicity for the past 300-500 years</th>
<th>Genetic Communities – including DNA matches who also belong</th>
<th>Learn Health Information</th>
<th>Deep Ancestry (more than 500 years)</th>
<th>y-DNA</th>
<th>mt-DNA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Family Tree DNA</strong></td>
<td>$89</td>
<td>✓</td>
<td>✓</td>
<td>–</td>
<td>–</td>
<td>✓*</td>
<td>✓*</td>
<td>$169</td>
</tr>
<tr>
<td></td>
<td>Family Finder (often goes on sale from $59-69)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Ancestry DNA</strong></td>
<td>$99</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>(often goes on sale to $79)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>My Heritage DNA</strong></td>
<td>$99</td>
<td>✓</td>
<td>✓</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>(sometimes on sale for $69)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>23 and ME</strong></td>
<td>$99</td>
<td>✓</td>
<td>✓</td>
<td>–</td>
<td>✓*</td>
<td>✓*</td>
<td>✓*</td>
<td>$199</td>
</tr>
<tr>
<td></td>
<td>Ancestry Test (Rarely sells for less)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$199</td>
</tr>
</tbody>
</table>

Prices Have Changed. Check Websites.
Ancestry.com DNA

• DNA Story
• DNA Matches
• ThruLines
• Traits
• DNA Surveys: Life Story, Physical Traits, Behavior, Diet and Fitness, Health and Wellness.

**DNA Matches** - in my case they are divided between:
- Maternal 34,143
- Paternal 32,065
- Both sides 142 (Who?)
- Unassigned 3,008
- TOTAL: 69,358 9/28/23

Vs. other sites with a whole lot less matches. Hence need to use this site.

Search by: matches, by ancestors on tree, by birth location.
Sort by: Relationship, or by group.
Take the Fan tree and expand one portion

Fan tree only allows so many generations. I have others not shown.

Helps you see your gaps, and any suggestions. Beware of hints.
Ancestry.com DNA now divides by parent, but only for paying members only.

Mine is clearer due to my having my mother’s DNA.
• Note when they divide matches between Maternal and Paternal, they also have *Unassigned Matches*. You can divide these by hand, by reviewing them. Check this out.

• Use the *Groups feature* in DNA Matches. Total option of 21 groups. I set up 16 groups representing my 16 great-great-grandparental couples. And then added each match into the appropriate groups, some going into several groups. Then when a new match appeared, you had a structure within which to put them, if you chose.

• Family Trees/public are needed for *ThruLines* to link. But consider spelling names slightly different in your tree to force a match with kin who might spell a name slightly different.
Colors in parental divisions relate to Ethnic origins, outlined below:

<table>
<thead>
<tr>
<th>Region</th>
<th>Maternal</th>
<th>Paternal</th>
<th>You</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total (4)</td>
<td>50%</td>
<td>50%</td>
<td>100%</td>
</tr>
<tr>
<td>England &amp; Northwestern Europe</td>
<td>10%</td>
<td>34%</td>
<td>44%</td>
</tr>
<tr>
<td>Scotland</td>
<td>19%</td>
<td>18%</td>
<td>35%</td>
</tr>
<tr>
<td>Wales</td>
<td>18%</td>
<td>0%</td>
<td>16%</td>
</tr>
<tr>
<td>Sweden &amp; Denmark</td>
<td>5%</td>
<td>0%</td>
<td>5%</td>
</tr>
</tbody>
</table>

But how does this square with your research? I have lots of German ancestry on my father’s side, not shown here at all.
Ken’s Ethnicity Updates October 5, 2023

Your DNA looks most like DNA from these 5 world regions:

- England & Northwestern Europe: 40%
- Scotland: 31%
- Wales: 17%
- Sweden & Denmark: 11%
- Basque: 1%
I set up 16 groups representing the 16 great-great grandparent couples. Colors assigned to each group.
Ancestry.com    Tree Viewing Options
Ancestry.com ThruLines suggestion of how to enhance the links:

You may not be seeing suggestions from ThruLines™ because there is not enough information in the linked family tree.

Add as much information as you can to the tree, including real full names, birthdates and birth locations for you, your parents, grandparents and great-grandparents.

After you have added this information to the tree, it will take at least 24 hours for ThruLines to start suggesting common ancestors you might share with your matches.

Note emphasis on enhancing your family tree for better matches.
**ThruLines** are an important measure of matches.

- **ThruLines** are a great feature.
- But if your tree has **bad data**, and their tree has bad data, but you are DNA matches, then bad data is perpetuated.
- Be careful about **hints** of ancestors on your tree or in ThruLines. Don’t add until you have proven on paper. Choose ThruLines view **Ancestors in Your Linked Tree**.
- **Autosomal DNA** is only good back 6 generations. DNA is halved each generation.
- **Dotted lines** mean their descendants match you, but you have not put that relative on your tree. The name is from the match’s tree.
- Can help you determine if you have **identifiable DNA matches** on each of your lines. Where are your gaps? Potential errors?
- You may not have located any matches in real life, but via ThruLines, they have found them for you and you can then communicate with them and hope you can share information.
ThruLines Filters area- to see just what you consider valid on your tree.

This one is best:
Ken, your Ancestry® subscription now includes premium AncestryDNA® features.

Your membership now includes a completely reworked Traits experience, as well as the ability to break down your DNA results by parent in several different ways. Plus, you’ll receive a steady flow of new insights based on your DNA throughout the year.

Learn more

What can you discover with our premium DNA features?

See which parent’s DNA had the strongest influence on each trait with our brand new Traits Inheritance feature.
My Traits- all quite useless in my view, and inaccurate.
FTDNA Reports offered, check out:

- Paternal Ancestry

Reports include:

- Time Tree
- Haplogroup Story
- Country Frequency
- Notable Connections
- Migration Map
- Ancient Connections
- Group Time Tree
- Ancestral Path
- Globtrekker
FTDNA BLOG-TOPICS-A HUGE INVENTORY WELL WORTH CHECKING OUT

- What's in a Name? Six Types of Surnames You Might Find in Your Family Tree
  - WHAT'S IN A NAME? SIX TYPES OF SURNAMES YOU MIGHT FIND IN YOUR FAMILY TREE
  - What do you know about where your surname comes from? Understanding surname origins can help you research the origins of your family line.
  - August 24, 2023

- Discovering Irish Roots
  - DISCOVERING IRISH ROOTS: PAUL'S JOURNEY WITH FAMILYTREEDNA
  - Paul McMahon made a surprising discovery about his father's lineage when he took a Y-37 test. He discovered his Irish roots, connected with Y-DNA matches, and found his place on the Tree of Mankind.
  - August 16, 2023

- Globetrekker Part 2: Advancing the Science of Phylogeography
  - GLOBETREKKER, PART 2: ADVANCING THE SCIENCE OF PHYLOGEOGRAPHY
  - The second part of the Globetrekker series, focuses on how phylogeography was incorporated into the new Discover tool.
  - August 15, 2023

- The Origins of Acadians and a Journey through French History
  - THE ORIGINS OF ACADIANS AND A JOURNEY THROUGH FRENCH HISTORY
  - Roberta Estes provides a historical overview of the birth of France, the French diaspora, and the settlement and exodus of the Acadian population in Eastern Canada.
  - August 13, 2023

- Pioneering Genetic Genealogy in South-Asian Family History
  - PIONEERING GENETIC GENEALOGY IN SOUTH-ASIAN FAMILY HISTORY
  - We take a dive into South-Asian genealogy with Awaish Husain, and how he has used traditional and genetic research methods to connect families and trace roots from the northern Punjab and Jammu-Kashmir region.
  - August 7, 2023

- Introducing Y-DNA Haplogroups for Family Finder Customers
  - INTRODUCING Y-DNA HAPLOGROUPS FOR FAMILY FINDER CUSTOMERS
  - This blog is about a new feature that will be added to Family Finder in the coming weeks. Customers with existing Family Finder results will receive an email notification when the feature is released, as well as an email notification once their haplogroup has been added to their results.
  - July 31, 2023
FTDNA-Chromosome Browser: Hudson links
Selected cousins who match on cM 11

From my Russell-Hudson Kin, the top two matches are only kin via Hudson line.

The two lower matches are Russell-Hudson descendants.

The other Russell-Hudson Test takers- 8 of 10 did not Match at cM 11. Why?
FTNDNA-Family Tree area, link your matches: autosomal, mtDNA, and Y-DNA.

Y-DNA
My Humphries Matches.
When time permits
Could add them to My tree.
FTDNA updates-2023

• *Multi Kit Management Agreements*/Access-fix the account settings if you are managing DNA for someone other than yourself. Very Important. (2023)

• Y-DNA Test area: *Group Time Tree-check* details online. (2023)


• *Chromosome Painter* for ethnicity results. See below.

• *HELP* tab on any of the matches sites is well-worth checking out. Lots of good position statements, essays, on there.
The FTDNATiP™ Report predicts the time to the most recent common ancestor (MRCA) of your Y-STR matches. The original report has been around as long as FamilyTreeDNA and our Y-STR tests. Over the years, we have received feedback that it needed an update. We are excited to present the new FTDNATiP™ Report with updates to our age estimation algorithms!
Ken’s report at Y-111 markers with his closest match. Estimated time of our Common Ancestor. Very accurate as our common ancestor lived 1750s-1825, 8 generations ago.

### FTDNA TIP REPORT

#### Most Recent Common Ancestor Time Predictor based on Y-STR Genetic Distance

<table>
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<tr>
<th>Genetic Distance</th>
<th>Y-12 TMRCA</th>
<th>Y-25 TMRCA</th>
<th>Y-37 TMRCA</th>
<th>Y-67 TMRCA</th>
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</table>

**Genetic Distance of 2 at the Y-111 test level**

Based on a Genetic Distance of 2 at the Y-111 test level, Kenneth Thomas and William E Humphries are estimated to share a common paternal line ancestor who was, with a 95% probability, born between 1650 and 1900 CE. The most likely year is rounded to 1800 CE. This date is an estimate based on genetic information only.
FTDDNA RESULTS KHT

CHROMOSOME PAINTER-FOR ETHNIC ORIGINS

ANCESTRY.COM CHROMOSOME PAINTER
Note: another family just got their results—great uncle 719, nephew, niece 1018, 964, great-nephew 1256 (b.1960s). Clearly no one is having many matches.
LivingDNA-Chromosome Browser by Group.
MyHeritage - basic view for lapsed subscription
MyHeritage under DNA Tools

- **Global DNA Sale**
  - Only $39
  - Order now
  - Sale ends in 2 days

- **Gain health insights**
  - Learn more

- **Overview**
- **Ethnicity Estimate**
- **DNA Matches**
- **DNA Tools**

- **cM Explainer™**
  - A tool for suggesting how you might be related to a DNA Match based on the amount of shared DNA and ages.

- **Chromosome Browser**
  - A tool for viewing shared DNA segments between you and multiple DNA Matches, which can help point to a common ancestor.

- **AutoClusters**
  - An automatic tool that organizes your DNA Matches into clusters that likely descended from common ancestors.
Chromosome Browser, after you hand select the matches to include.

These are all kin on my Russell line And clearly overlap on cM 8.
The Theory of Family Relativity™ helps you make the most of your DNA Matches by incorporating genealogical information from all our collections of nearly 10 billion historical records and family tree profiles, to offer theories on how you and your DNA Matches might be related. If you've taken a MyHeritage DNA test or uploaded your DNA results to MyHeritage, this revolutionary technology may offer astounding new information on your family connections.
**MyHeritage**—select a match and see their suggestions, including *Theory of Relativity*

Match descends from my grandmother’s first cousin-known kin.

Pay extra to see.

Names from the tree, true.
Theory of Family Relativity™

Estimated relationship based on DNA 4th cousins.
MyHeritage found a theory that may explain how Christine Goss is related to you.

Theory: Christine Goss is your 4th cousin on your father's side.

Is this theory correct?
Confirm
Reject

This path is based on 3 MyHeritage tree links, with 90% confidence.

James Frank Upton
You're 3rd great-grandfather
1810 - 1885
Charley Doll
Your 3rd great-grandmother
1813 - 1882

Sgt Robert Lee Upton, Sr.
Your great-great-grandfather
1860 - 1938
Frank "Franklin" Maxwell Upton
Your great-great-grandfather
1893 - 1915

Goble "Tootsie" Upton
Your great-great-grandfather
1894 - 1941
Alpha (Alphonse) Omega Upton
Your great-great-grandmother
1889 - 1950

Margaret Nancy Salmore
Your grandmother
1865 - 1930

Elmer Brandenburg
Your parent

John D. Brandenburg
Your 3rd cousin
1922 - 2011

Ralph McEwen
Your great-grandfather's 2nd cousin once removed
1917 - 1995

Nancy Runoima McEwen
Your great-grandfather's 3rd cousin
1914 - 2001

Ralph McEwen
Your great-grandfather's 2nd cousin once removed
1917 - 1995

Nancy Runoima McEwen
Your great-grandfather's 3rd cousin
1914 - 2001
MyHeritage-AutoClusters—Organizes your matches, but you have to pay extra.

AutoClusters is another visual tool that shows how you and two other matches are related by grouping them into what the computer program thinks are family sets. While there are outliers, where the computer cannot figure out the family group, they are few compared to most of the results.
23andMe DNA matches-top of the list

Limit those you view To 1500 unless you have connected, then you stay connected.

Can expand to 5,000 if you also have health info, for fee.
23andMe-this is their Chromosome Browser, individual take. Then compare with others.

These two men are my 2nd Cousins on Brooks-Snellings line. “Compare Your DNA with Close and Distant Relatives”
Third Party Testing Companies/Analysis

- GEDmatch
- DNAPainter
GEDmatch - always transfer DNA data there.

“QUICKLY Transfer DNA from Other Websites to GEDmatch | Genetic Genealogy”
On You Tube by Family History Fanatics. Talks you thru how to copy data to GEDmatch.
I have since changed to open.
These are my top matches, and the first one I did not recognize, Ms. Lee, 113 cM is close, so then I click on her kit no. and they say who she matches, next, and its people I know from other tests are kin to my father’s maternal grandmother. And she tested on 23andMe, which I rarely check, and of course, she has not been in touch with me.
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**GEDMatch** - Tier 1 - cost is $100 a year.

---

**Upgrade Your Membership**

Join Tier 1 and gain access to more advanced tools to help you go deeper in your genealogical research!

Here are the top tools Tier 1 members find most valuable:

- **Matching Segment Search**: This tool sorts through your 3000 or so closest DNA matches on the site and lines them up in order, based on where they match on each chromosome. You then can visually see which DNA matches you on which chromosomes. Save hours of time over doing this manually!

- **Multiple Kit Analysis**: If you want to easily compare multiple kits you have uploaded or your matches in the One-to-Many tool, then Multiple Kit Analysis is for you! You can select up to 100+ kits for visual comparison using the cross-kit visual analysis tools.

- **Triangulation**: Triangulation compares your top 500 One-to-many matches with each other and generates a report containing details of all those who match you and each other on the same segment. Triangulations are groups of three: you and two others. The graphics display an option, and below the main report is a separate listing of match details by kit number. This report is useful for identifying matches who may descend from the same ancestor.
**GEDmatch** tool-2021 via Tier One.

Relationship Prediction New Tool & the Latest Site Improvements

We are excited to bring this accurate relationship prediction tool developed by Briton Nicholson that will be integrated throughout GEDmatch.

The first step of integration is on the One-to-Many Tier 1 Tool - Full Version. This is now live on app.gedmatch.com. To use the tool, simply click on the Total cM value for any of the kits in the results table, and a window will appear showing the predicted relationships!

Additional integrations are planned for the future, so stay tuned!

[Read about the tool on Brit's site >](#)
Here is a link to a useful YouTube video on using the Tier 1 Clustering tool.
DNA Painter created by Jonny Perl

• Chromosome Map—see example
• What are the Odds (WATO)
• Jonny Perl, the inventor, who manages the website, is always tweaking the site. Always check for new features.
• Good videos on how to use the site at YouTube, GenealogyTV, etc.
DNA from two different wives, should indicate the Harrison DNA Spot.
We can confirm this myth with a **caveat**: Yes, but we can’t quite use it yet. Just a couple of years ago, this myth had a hard no. While you can find DNA on **licked stamps** and **envelopes**, **used razors**, and in the **root of uncut hair**, it can be tricky to extract for genealogical purposes. This category of samples (called “special samples”) defy the process historically used by genetic genealogy companies.

But the science continues to **evolve**, and some services now offer **special sample testing**. While **expensive**, the tests allow for a direct comparison of the DNA from a postage stamp to that of a living person. Test takers can then use this information to determine genetic relationships, such as between parents and their children.

Despite these scientific advancements, the **big genetic genealogy companies don’t currently offer testing** using special samples. Nor do they compare that kind of data with their databases to find genetic matches. However, in one special case, **LivingDNA** used DNA collected from a postage stamp to help a woman found as a baby in a blackberry bush to locate her family. And the company has indicated it’s interested in eventually offering these services. (From *FamilyTreeMagazine* online article by Diahan Southard, DNA expert)
DNA FROM ENVELOPES, HAIR, ETC.

• This type of procedure is being done by some companies.
• Success is not promised.
• Some experts think you should wait a few more years to try it.
• But if you are willing to spend the money, take your changes, and have decent source samples.

• Remember to clarify with the company what form the results will be in.
• What kind of DNA will be extracted? and
• Will it be the type of DNA that you expect?
Example of prices from a company several friends have tried.

If you go to their website above, you can see a list of the things they can test, and the stages they go through.

Again, this is just one company, and a few others are listed in the handout.

*List is not comprehensive.*

Another company that two friends have used is *ToTheLetterDNA.com* out of Australia, but with a local contact.

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### Keepsake DNA Pricing

**Home | Services | About Us | Terms of Service**

Artifact testing is a last resort, a true genealogy “brick wall” smasher. If you can send your relative's saliva in a tube to a company that tests 1,000 samples at a time, try that first. Extracting DNA from artifacts must be done one at a time, and – to get the best results – requires equipment so advanced that most crime labs do not even have it.

As noted elsewhere (Services), there are two general phases of artifact testing. The pricing below is for Phase 1 Quantification, (determining whether there is enough usable DNA to perform) Phase 2 sequencing. (This is sometimes called genotyping, but with the FGx is more correctly referred to as sequencing).

*All pricing in U.S. dollars.*

**PRICING FOR PHASE 1 (DNA Extraction and Quantification)**
- Preliminary DNA Reporting $290
- Bone/Teeth pre-processing $275
- Porous material pre-processing $260

**PRICING FOR PHASE 2 (Sequencing)**
- Whole Genome Sequencing $2295
- Targeted DNA Sequencing $1795
This presentation will be posted on the **Georgia Archives YouTube** channel (free)

- This talk will be on the Ga Archives YouTube Channel within a week.
- At the GA Archives Website, homepage, click the YouTube icon.
- Search for **Archives and Genealogy Day 2023**.
- Or on YouTube itself, which is FREE.
  Search for **my full name** for other talks I have done posted there. And many by others on DNA.