

# How to Create an ADSA (Autosomal DNA Segment Aalyzer) Report from GEDmatch

*Last edited: 21 April 2015*

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## Key Abbreviations and Terms

ADSA	<u>A</u> utosomal <u>D</u> NA <u>S</u> egment <u>A</u> alyzer
DNAGedcom	See <a href="#">Here</a>
FTDNA	Family Tree DNA
GEDmatch	See <a href="#">Here</a>
ICW	In Common With
Tier 1 GEDmatch	See <a href="#">Here</a>
Triangulation	The process of identifying one or more DNA segments that are in common among at least 3 people (not including close relatives such as parents/children and siblings)

**Note:** In the fast-paced world of genetic genealogy, these instructions may change. We strive to keep them current, so if you have any issues or find broken links, please let us know at [support2@dnagedcom.com](mailto:support2@dnagedcom.com).

## Introduction to GEDmatch-ADSA

The Autosomal DNA Segment Aalyzer (ADSA) was originally developed by Don Worth as a way to organize, visualize, work with your match list and chromosome data, and determine which of your matches are also related to each other (that is, ICW = in common with) using information from Family Tree DNA's (FTDNA) Family Finder test. Now it can also be used with GEDmatch.

If you are a Tier 1 member at [GEDmatch](#) (see [Here](#)), the GEDmatch Load Tool on [DNAGedcom](#) (see [Here](#)) will combine the *Matching Segment Search* and *Triangulation* outputs from GEDmatch, so you can run various tools on [DNAGedcom](#), including ADSA.

The step-by-step instructions are very detailed, so you may want to take a quick look at the Quick Guide for Creating a GEDmatch-ADSA Record on the last page before coming back here.

## What are GEDmatch and DNAGedcom?

Not infrequently, people seem to mix these up! *If you are familiar with both of these, you can skip this section.*

- **GEDmatch** (available at [www.gedmatch.com](http://www.gedmatch.com)) is a 3rd party website, which was created by 2 volunteers, and accepts uploads of autosomal DNA (+ X-chromosome DNA) from 23andMe,<sup>1</sup> FTDNA, and AncestryDNA. In addition to being able to make 'One-to-one' comparisons between pairs of individuals, running the 'One-to-many' tool will give you a list of DNA matches, and these will include individuals from all of the "Big 3" DNA testing companies, even if you have been tested at only one company. Kit numbers on GEDmatch start with either an M, F, or A, which indicates the testing company (23andMe, FTDNA, and AncestryDNA, respectively). Because AncestryDNA doesn't provide any matching segment data (they don't provide a chromosome browser or any tools to see how you genetically match someone), GEDmatch is the only way to be able to see the matching segment data between you and others from AncestryDNA (as well as individuals who have tested at 23andMe and FTDNA). GEDmatch has a range of utilities and is a fantastic resource for genetic genealogists. The main part of GEDmatch is totally free (although they accept donations to help with server and other costs). More recently, [Tier 1 GEDmatch](#) was introduced, which requires a minimum donation of \$10 per month (more about that [Here](#)). Tier 1 Membership provides additional tools (usually those that put a greater load on their servers than the free tools do), including *Matching Segment Search* and *Triangulation*, and these two tools are currently required for GEDmatch-ADSA.
- **DNAGedcom** (available at [www.dnagedcom.com](http://www.dnagedcom.com)) is another wonderful 3rd party website for working with your autosomal DNA data, which was the brainchild of Rob Warthen. The tools and documents were originally created for the use of adoptees looking for birth family, but are by no means limited to that purpose. DNAGedcom has a range of data extraction and manipulation tools, including data from 23andMe and FTDNA (and before some of these were available on those websites!) and also from GEDCOMs [a GEDCOM file (.GED) is a universal format for the exchange of family tree data]. The autosomal DNA tools include *ADSA*, *JWorks*, and *KWorks*.

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<sup>1</sup> Unlike transfers of 23andMe data to FTDNA, where only tests based on the Version 3 Illumina DNA Sequencer chip are accepted, GEDmatch also accepts uploads of more recent 23andMe tests that used the Version 4 chip.


In order to create your GEDmatch-ADSA output, you will need to use both [GEDmatch](#) (Tier 1) and [DNAGedcom](#).

## **Tier 1 GEDmatch**

Although most of the GEDmatch tools are free, in October 2014, GEDmatch introduced an enhanced Tier 1 membership, which provides additional, server-intensive tools. If you have donated to GEDmatch in the past, you will have access to the Tier 1 tools for “a period of time equal to 1 month for every \$10 donated.” So basically, Tier 1 GEDmatch membership costs \$120 for a full year. But you can take out membership on a month-by-month basis (without any commitments), so you can try it out for a month and then come back again whenever you donate another \$10.

You can tell whether you are a Tier 1 member from your GEDmatch Home page, which is the main page that opens when you log-in to [www.GEDmatch.com](#). If you are a Tier 1 Member, this will be shown at the top left (red oval) and the Tier 1 Utilities are in the box at the bottom right (Figure 1). If you aren’t a Tier 1 Member, your Home page will instead show you as a Registered User (Figure 2) and the block of Tier 1 Utilities won’t be shown.

**Figure 1: GEDmatch Home Page for Tier 1 Member**



Tools for DNA & Genealogy Research

**Information**

Your Log-In Profile

Sue Griffith

@gmail.com

**Tier 1 Member**

**Learn More**

- GEDmatch Forums
- GEDmatch wiki
- DNA for 'Dummies'
- User Lookup

**Your DNA Resources**

Kit Numbers will be shown here

**File Uploads**

**Autosomal raw DNA**

Note: FTDNA customers must upload both autosomal and X-DNA raw data files before they will be processed.

- FTDNA Family Finder
- FTDNA X-DNA
- 23andMe
- Ancestry.Com

Do NOT unzip raw DNA data files before uploading.

**Genealogy - Family Trees**

- GEDCOM genealogy Upload

**Analyze Your Data**

**DNA raw data**

- 'One-to-many' matches
- 'One-to-one' compare
- X 'One-to-one'
- Admixture (heritage)
- Admixture/Oracle with Population Search
- Phasing
- People who match one or both of 2 kits
- Predict Eye Color
- Are your parents related?
- 3D Chromosome Browser
- Archaic DNA matches
- DNA File Diagnostic Utility

**Genealogy**

- 1 GEDCOM to all
- 2 GEDCOMs
- Search all GEDCOMs
- GEDCOM + DNA matches

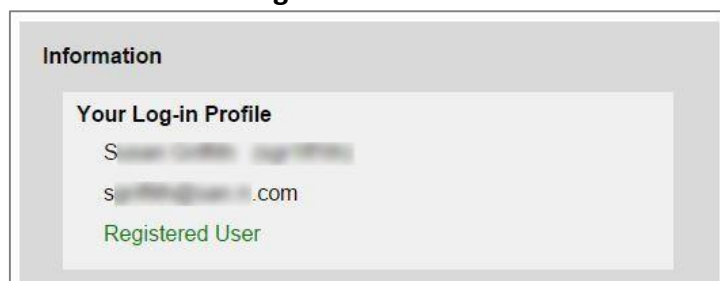
**Tier 1 Utilities**

These additional utilities are available to members of GEDmatch Tier 1.

**DNA Raw Data**

- Matching Segment Search**
- Relationship Tree projection**
- Lazarus**
- Triangulation**

**Figure 2: GEDmatch Home Page if NOT a Tier 1 Member**



## Becoming a Tier 1 GEDmatch Member

*If you already have Tier 1 Utilities at GEDmatch, you can skip this section.*

1. Log-in to [www.GEDmatch.com](http://www.GEDmatch.com) using your email address and password.

If you aren't registered at GEDmatch, use the same website ([www.gedmatch.com](http://www.gedmatch.com)), then left-click HERE at the red arrow in Figure 3 to register. You will need to upload your raw DNA data from either AncestryDNA, 23andMe, or FTDNA.

**Figure 3: GEDmatch Log-in or Registration**

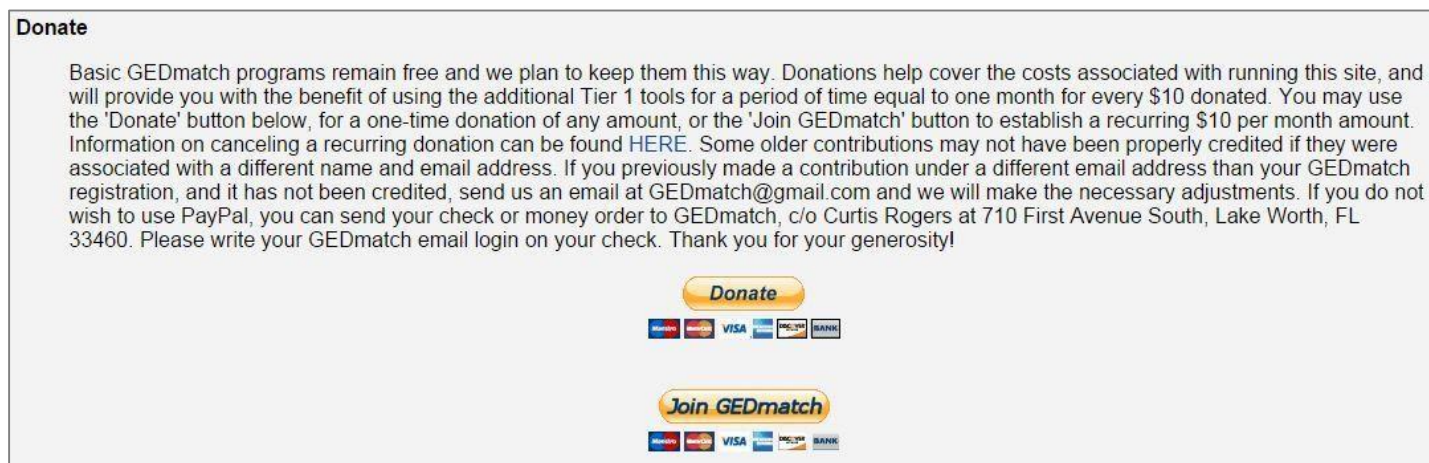


No instructions for uploading your raw DNA data to GEDmatch are provided in this document, but detailed instructions are provided on GEDmatch, although the link for them isn't very obvious. In the Uploads block on the GEDmatch Home page, left-click on the company where you tested, then near the top (in the white area), you will see "Click HERE for detailed upload instructions".

2. Once you have logged in, scroll down to the bottom of the Home page to the Donate section (Figure 4). For a one-off payment, left-click on the "Donate" button, or if you want to set up a regular monthly

donation to ensure you always have Tier 1 membership, left-click on the “Join GEDmatch” button. Payments are made through [Paypal](#) or you can send a check. In order to have access to Tier 1 Utilities, the minimum donation is \$10, which will give you access for a month. After payment through Paypal, you should have access to Tier 1 Utilities within minutes – try reloading the page if you don’t see them using either the “Reload Page” icon in the browser or press F5 (if using Windows) or [Cmd]-5 (Command button plus “5”) if using Mac-OS (Apple). If you have the option of paying via Paypal using the same email address as you use for GEDmatch, use that to minimize the chance that they can't link your Paypal payment to your GEDmatch account.

**Figure 4: Donate to GEDmatch**



- Once you can see the Tier 1 tools on your GEDmatch Home page (Figure 1), you are good to go. If you have made an appropriate donation and Tier 1 doesn’t show up on your GEDmatch Home page within an hour (don’t forget to try reloading the page), send an email to [GEDmatch@gmail.com](mailto:GEDmatch@gmail.com), letting them know your GEDmatch number and email address, as well as the email address used for the Paypal payment, and they will straighten it out. Please remember that GEDmatch (like DNAGedcom) is run by unpaid volunteers who have other commitments.

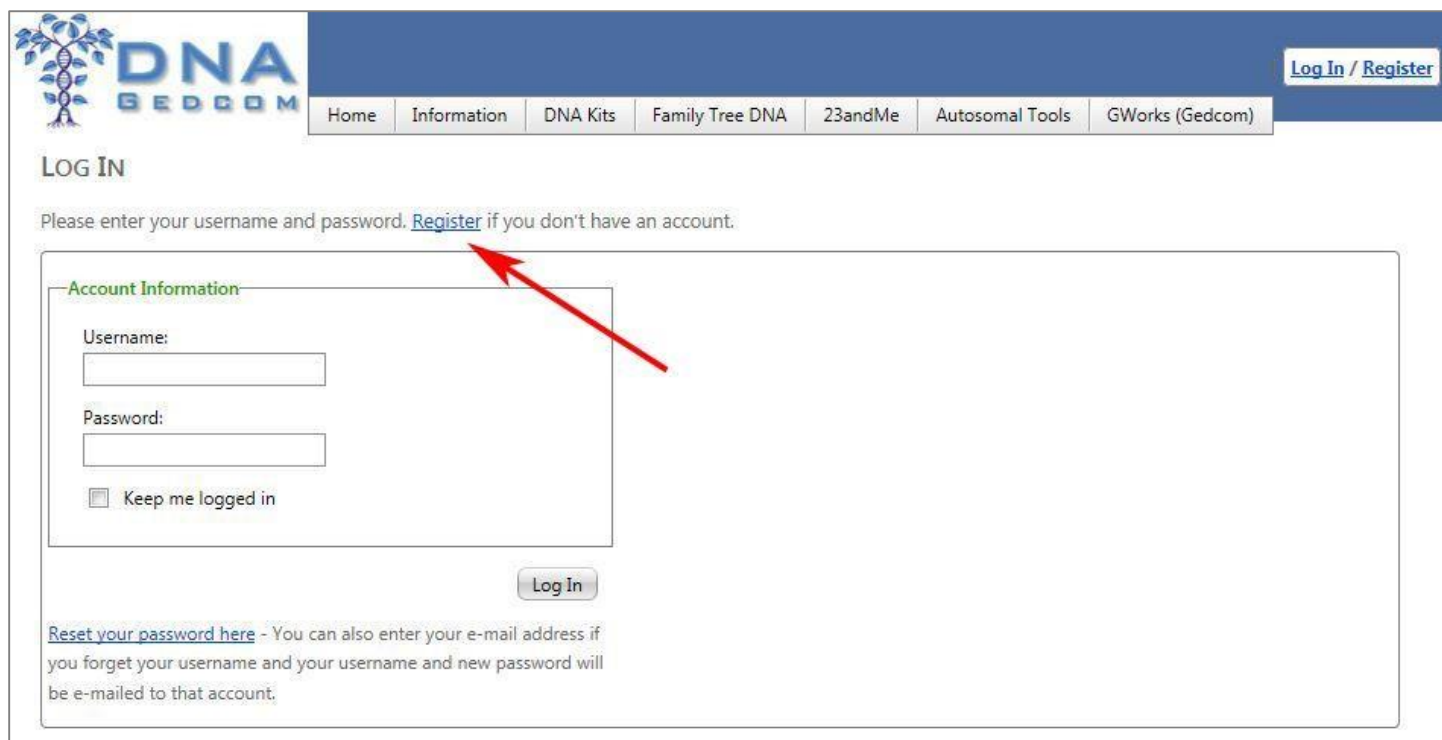
## Step-by-Step Instructions for Creating a GEDmatch-ADSA Output

**Update (14 Apr 2015):** A few people have reported issues when using Firefox as their browser. So if you have any problems when following the instructions precisely, try another browser. Google Chrome and Internet Explorer seem to work fine.

- Log-in to [www.dnagedcom.com](http://www.dnagedcom.com). If you don’t already have a Username, left-click on Register (Figure 5) to create a new account.



**Figure 5: DNAGedcom Log-in Screen**



The screenshot shows the DNAGedcom website's login interface. At the top left is the DNA GEDCOM logo. To its right is a navigation bar with links: Home, Information, DNA Kits, Family Tree DNA, 23andMe, Autosomal Tools, and GWorks (Gedcom). In the top right corner, there is a 'Log In / Register' link. Below the navigation bar, the page is titled 'LOG IN'. A message reads: 'Please enter your username and password. [Register](#) if you don't have an account.' Below this is a form titled 'Account Information' containing fields for 'Username:' and 'Password:', a 'Keep me logged in' checkbox, and a 'Log In' button. A red arrow points from the 'Register' link in the message to the 'Account Information' form. At the bottom of the form, there is a link: 'Reset your password here - You can also enter your e-mail address if you forget your username and your username and new password will be e-mailed to that account.'

2. Hover over the menu for DNA Kits and left-click on "Upload GedMatch DNA Data" (Figure 6), which opens a screen for uploading your GEDmatch data (Figure 7).

**Figure 6: Upload GEDmatch DNA Data Link**



The screenshot shows the DNAGedcom website's 'Tools' page. At the top left is the DNA GEDCOM logo. To its right is a navigation bar with links: Home, Information, DNA Kits, Family Tree DNA, 23andMe, Autosomal Tools, GWorks (Gedcom), and Members. In the top right corner, there is a 'Welcome XXXXXX !' message and a 'Log Out' link. Below the navigation bar, the page is titled 'WELCOME TO THE DNAGEDCOM TOOLS'. A message reads: 'For help with how to download your 23andMe or FTDNA...'. Below this is a link: 'If you are an adoptee looking for help, please visit us at <http://www.DNAAdoption.com>'. Below the link, there is a message: 'To use this site, you must [Register](#). Registering simply gives an ability to associate your information with your login. In the future additional features will be added to this site and this will allow me to quickly make these features and data available to you without additional work.' At the bottom, there is a message: 'If you have any issues, please send an e-mail to [support@dnagedcom.com](mailto:support@dnagedcom.com). Thanks for your support. Please remember we are volunteers.' The 'DNA Kits' menu is open, showing two options: 'Upload Ancestry DNA Data' and 'Upload GedMatch DNA Data (Beta)'. The 'Upload GedMatch DNA Data (Beta)' option is highlighted in green.

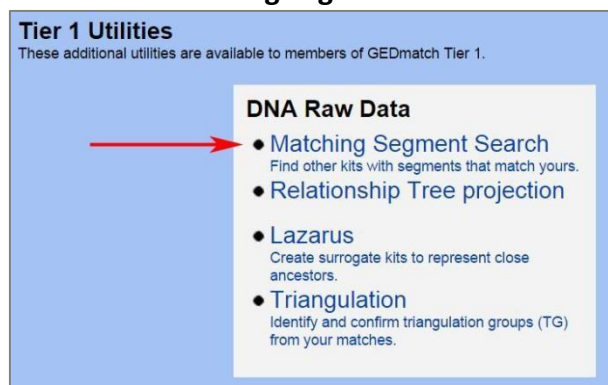
**Figure 7: GEDmatch Upload Screen**



The screenshot shows the GEDmatch Upload Screen. At the top, there is a navigation bar with links: Home, Information, DNA Kits, Family Tree DNA, 23andMe, Autosomal Tools, GWorks (Gedcom), and Members. A welcome message "Welcome XXXXXX" and a "Log Out" button are on the right. Below the navigation bar, the text reads: "WELCOME TO THE TOOLS SECTION FOR GEDMATCH. This tool adds GedMatch data to your system so you can run the tools on the site. It creates FTDNA style extracts, including Match list, Chromosome data and ICW." Two instructions are provided: 1) Run a Tier 1 Matching Segment Search list. Be sure to exclude Graphic. When data is loaded, copy and paste the entire window to the box below and hit Load. 2) Run a Tier 1 Triangulation. Choose Show Results sorted by Kit\_number, chromosome, segment start position. Stay with the default of 3000. When data is loaded, copy and paste the entire window to the box below and hit Load. Below the instructions is a large text area for pasting data, with "Load" and "Clear" buttons at the bottom. At the bottom of the screen is a table with columns: DNAGedcom ID, Name, Date Last Loaded, Date Completed, Download Kit, Clear Kit, Delete Kit, Match Count, Chromo Count, and ICW Count. The table currently shows "No records to display."

3. Leave the DNAGedcom screen open and open a new window or tab in your browser. Log-in to GEDmatch (Figure 3), then go to the Tier 1 Utilities block at the bottom right of the main menu screen. Left-click on Matching Segment Search (Figure 8).

**Figure 8: GEDmatch Matching Segment Search Link**

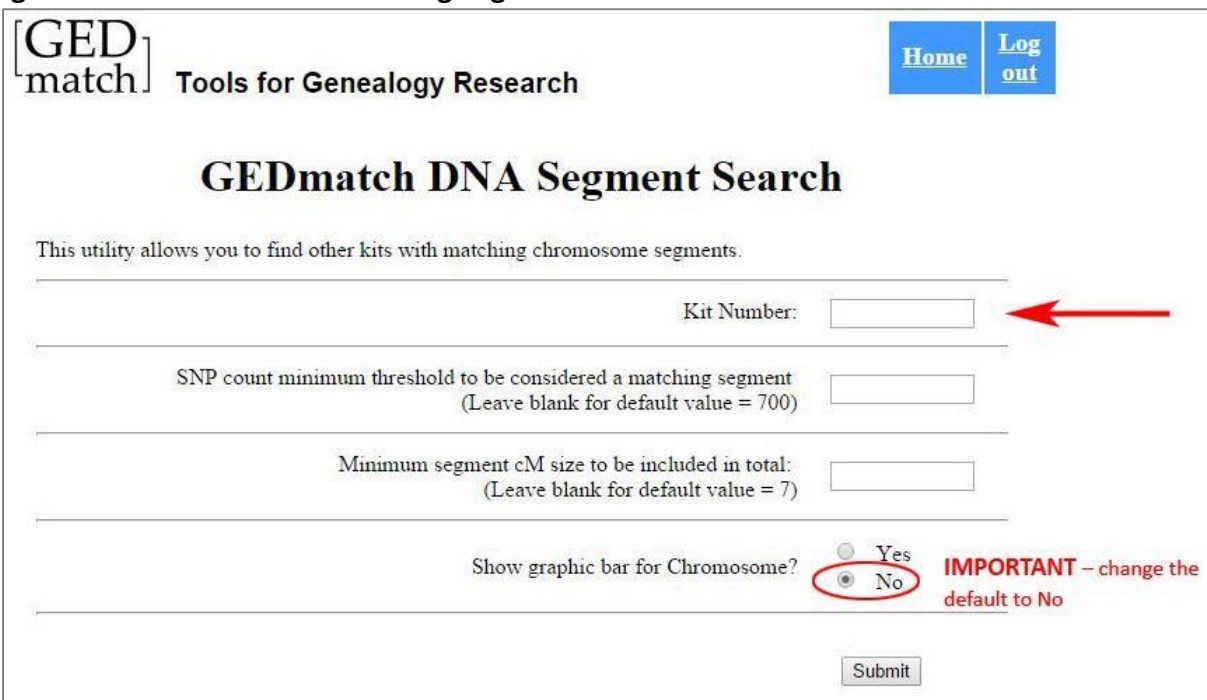


4. On the GEDmatch DNA Segment Search screen, enter your Kit Number in the top box and at the bottom, change the default radio button to No for Show graphic bar for Chromosome (Figure 9). The other boxes can be left blank unless you wish to change the default settings. Left-click on the "Submit" button and then you need a little PATIENCE! It looks as though nothing much is happening, but you may see "Waiting for www4.gedmatch.com" at the bottom left of the browser window, which then disappears; you may see



a series of asterisks showing the progress, but you may not. You should expect to wait at least 10 minutes for the output (and often much longer), depending on how busy the server is. Unless there is a message that server capacity has been exceeded, resist the temptation to either click on the Submit button again or try to run in a different tab – this will slow everything down.

**Figure 9: GEDmatch Matching Segment Search Screen**



5. Figure 10 shows the output once the DNA Segment Search has finished running. This lists your matches ordered by Chromosome and Start Position. [Note: As GEDmatch handles the X-chromosome separately from chromosomes 1-22, this output *excludes* the X-chromosome.] Copy the whole of this page (including everything above the table and everything below the table) as follows. If using Windows, left-click anywhere in the GEDmatch window, then press [Ctrl]+A (Control key plus "A"), which will select All (everything will show as blue), then [Ctrl]+C (Control key plus "C"), which will Copy everything selected. If using Mac-OS (Apple), the equivalent commands are [Cmd]+A (Command key plus "A"), then [Cmd]+C (Command key plus "C"). Each browser also has ways of selecting and copying, which can be used instead.

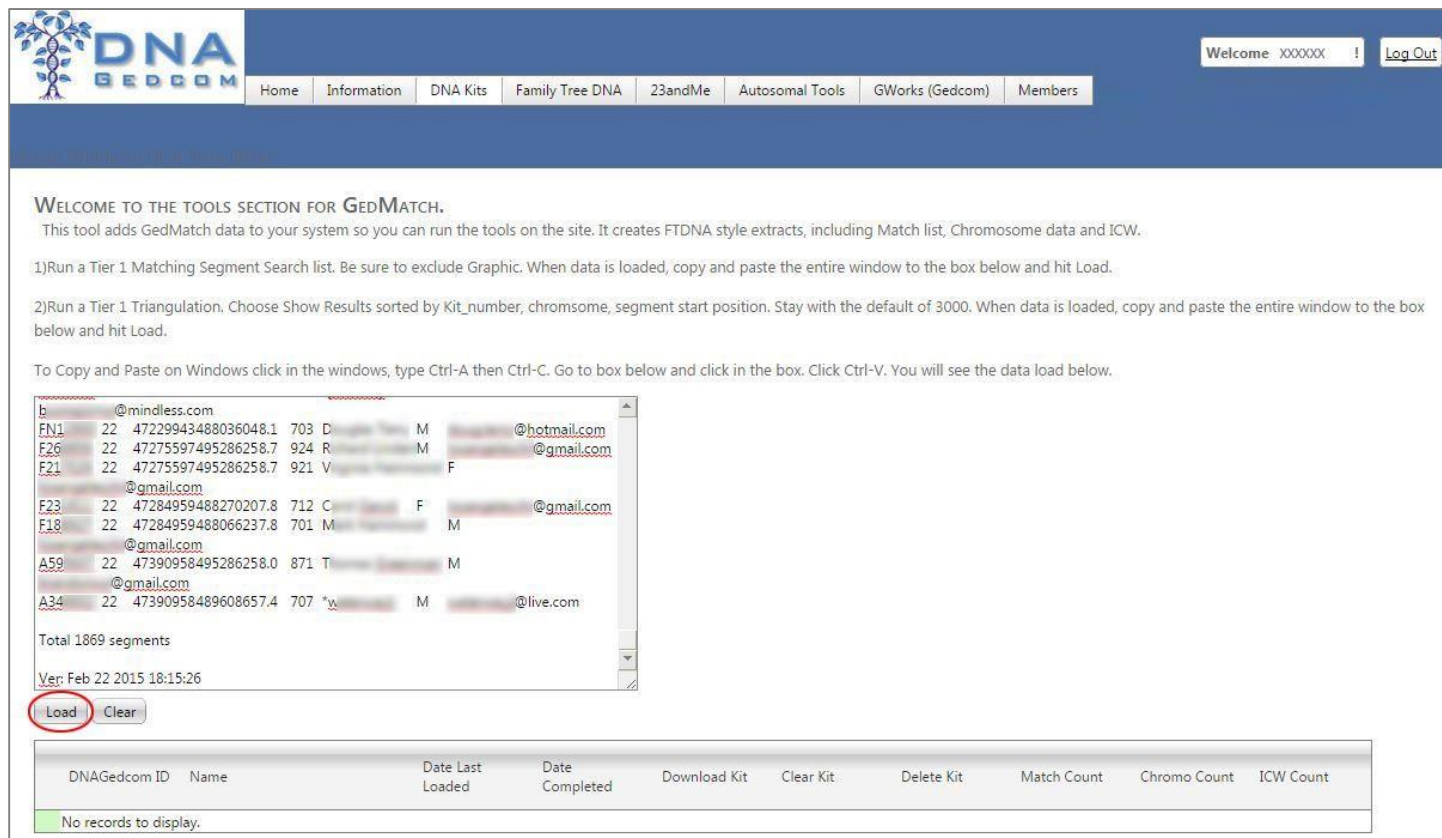
**Figure 10: Matching Segment Search Output**

<b>GEDmatch</b> <b>Matching Segment Search</b>								
Kit: A22981 (F21264-14886)								
Minimum threshold size to be included in total = 700 SNPs								
Minimum segment cM to be included in total = 7.0 cM								
Please wait for DB search. This may take a few minutes...								
Analysis progress is shown by a string of asterisks (*) on the lines below:								
*****								
*****								
*****								
Kit	Chr	Start Position	End Position	cM	SNPs	Name	Sex	Email
F315	1	72017	37672760	66.3	9731	*Sue [REDACTED]	F	[REDACTED]@gmail.com
F308	1	72017	3913951	10.3	732	Robert [REDACTED]	M	[REDACTED]@hotmail.com
F358	1	72017	3912332	10.3	725	*PB [REDACTED]	F	[REDACTED]@gmail.com
F249	1	742584	3912332	10.3	742	G [REDACTED]	F	[REDACTED]@sbcglobal.net
F286	1	4689039	9045144	8.3	1302	Wayne [REDACTED]	M	[REDACTED]@.net
A515	1	9465199	13717352	8.5	889	*P [REDACTED]	M	[REDACTED]@gmail.com
F155	1	9702632	13688708	8.2	839	W [REDACTED]	M	[REDACTED]@.com
F149	1	10158989	13827313	7.9	819	R [REDACTED]	F	[REDACTED]@comcast.net

**Hint:** A common error made in this step is to copy only the data in the table. As indicated above, the **WHOLE PAGE** (including the text above the table and the text below the table) is required. Using the **Select All** command, followed by the **Copy** command (see above for the quick keys) ensures that everything needed is copied.

- After copying the Matching Segment Search output from GEDmatch, go back to the DNAGedcom tab, which should have the GEDmatch Upload Screen open (as shown in Figure 7). Left-click in the blank space in the box, then if using Windows, press [Ctrl]+V (Control key plus "V"), or if using Mac-OS (Apple), press [Cmd]+V (Command key plus "V"). This will paste everything from Step 5 into the box, as shown in Figure 11. Then left-click the "Load" button.

**Figure 11: GEDmatch Upload Screen in DNAGedcom after Pasting Matching Segment Search Output**



**WELCOME TO THE TOOLS SECTION FOR GEDMATCH.**  
This tool adds GedMatch data to your system so you can run the tools on the site. It creates FTDNA style extracts, including Match list, Chromosome data and ICW.

1) Run a Tier 1 Matching Segment Search list. Be sure to exclude Graphic. When data is loaded, copy and paste the entire window to the box below and hit Load.

2) Run a Tier 1 Triangulation. Choose Show Results sorted by Kit\_number, chromosome, segment start position. Stay with the default of 3000. When data is loaded, copy and paste the entire window to the box below and hit Load.

To Copy and Paste on Windows click in the windows, type Ctrl-A then Ctrl-C. Go to box below and click in the box. Click Ctrl-V. You will see the data load below.

b	@mindless.com									
FN1	22	47229943488036048.1	703	D		M		@hotmail.com		
F26	22	47275597495286258.7	924	R		M		@gmail.com		
F21	22	47275597495286258.7	921	V		F				
		@gmail.com								
F23	22	47284959488270207.8	712	C		F		@gmail.com		
F18	22	47284959488066237.8	701	M		M				
		@gmail.com								
A59	22	47390958495286258.0	871	T		M				
		@gmail.com								
A34	22	47390958489608657.4	707	*w		M		@live.com		

Total 1869 segments  
Ver: Feb 22 2015 18:15:26

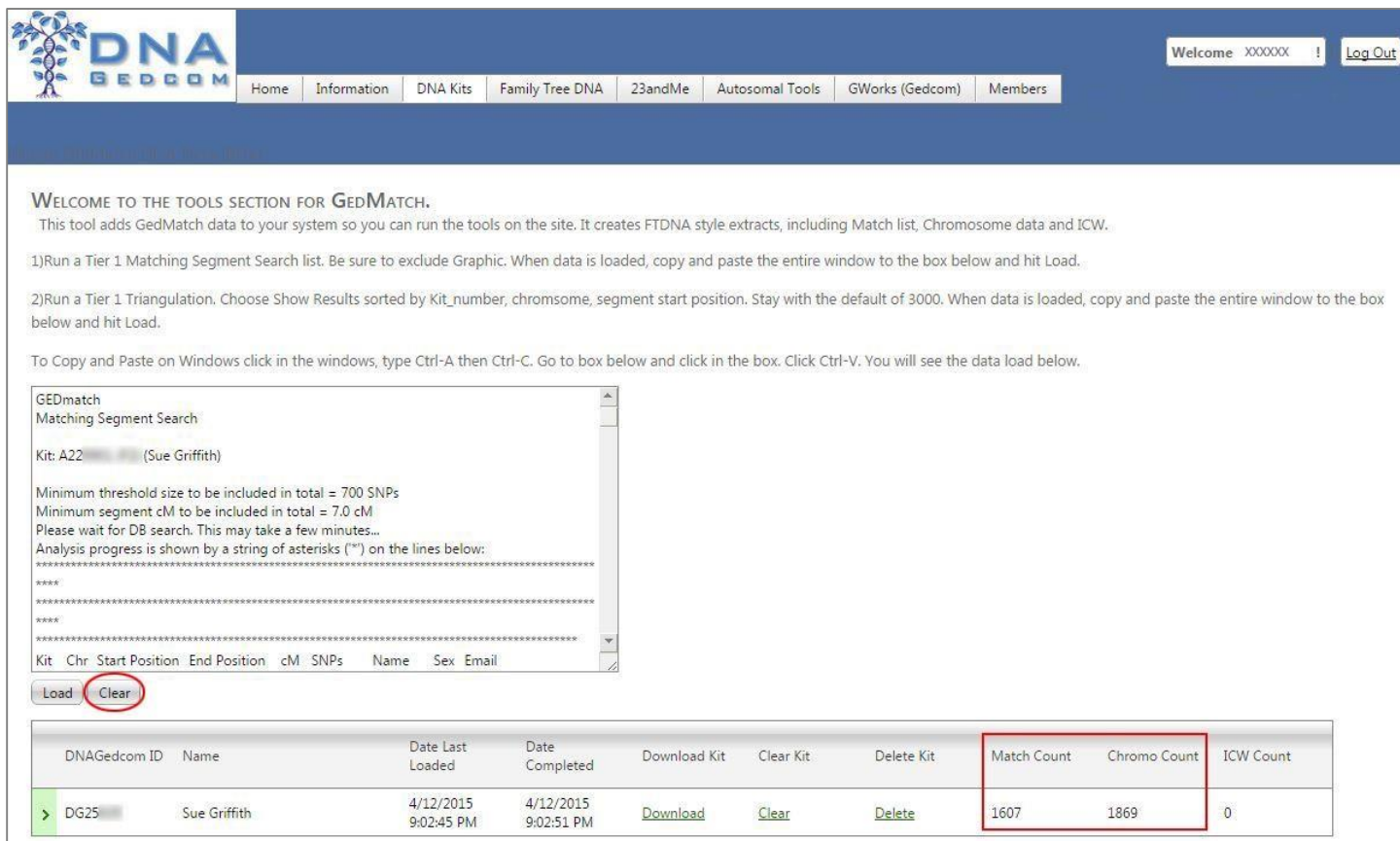
**Load** **Clear**

DNAGedcom ID	Name	Date Last Loaded	Date Completed	Download Kit	Clear Kit	Delete Kit	Match Count	Chromo Count	ICW Count
No records to display.									

7. It takes <1 minute for the data to load to DNAGedcom – you may see “Waiting for response from dnagedcom.com” at the bottom left of the browser window. After the upload is complete, the box will scroll back so that the top of the pasted data is visible and the kit that was loaded will be in the table at the bottom of the screen, with the Match Count (number of matches from GEDmatch) and Chromo Count (number of matching segments) shown (red rectangle) – see Figure 12. At this stage, ICW Count (at the bottom right) shows 0 if this is the first time you have uploaded a particular kit. [Note: If you are uploading a kit that is already in the system (to add new matches), it will overwrite the previous data. You don’t need to delete the old kit.]

After you have verified that the Match Count and Chromo Count are in the system, left-click the “Clear” button (red oval) and the large box will be empty again.

**Figure 12: GEDmatch Upload Screen in DNAGedcom after Upload of Matching Segment Search Output**



**WELCOME TO THE TOOLS SECTION FOR GEDMATCH.**  
 This tool adds GedMatch data to your system so you can run the tools on the site. It creates FTDNA style extracts, including Match list, Chromosome data and ICW.

1) Run a Tier 1 Matching Segment Search list. Be sure to exclude Graphic. When data is loaded, copy and paste the entire window to the box below and hit Load.

2) Run a Tier 1 Triangulation. Choose Show Results sorted by Kit\_number, chromosome, segment start position. Stay with the default of 3000. When data is loaded, copy and paste the entire window to the box below and hit Load.

To Copy and Paste on Windows click in the windows, type Ctrl-A then Ctrl-C. Go to box below and click in the box. Click Ctrl-V. You will see the data load below.

GEDmatch  
 Matching Segment Search

Kit: A22 (Sue Griffith)

Minimum threshold size to be included in total = 700 SNPs  
 Minimum segment cM to be included in total = 7.0 cM  
 Please wait for DB search. This may take a few minutes...  
 Analysis progress is shown by a string of asterisks ("") on the lines below:

\*\*\*\*\*

\*\*\*\*\*

\*\*\*\*\*

Kit	Chr	Start Position	End Position	cM	SNPs	Name	Sex	Email
-----	-----	----------------	--------------	----	------	------	-----	-------

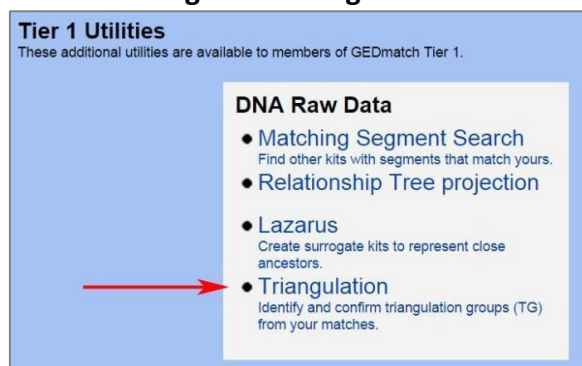
Load **Clear**

DNAgedcom ID	Name	Date Last Loaded	Date Completed	Download Kit	Clear Kit	Delete Kit	Match Count	Chromo Count	ICW Count
> DG25	Sue Griffith	4/12/2015 9:02:45 PM	4/12/2015 9:02:51 PM	<a href="#">Download</a>	<a href="#">Clear</a>	<a href="#">Delete</a>	1607	1869	0

**Hint:** If the Match Count and Chromo Count don't update automatically, reload the page using either the "Reload Page" icon in the browser or press F5 (if using Windows) or [Cmd]-5 (Command button plus "5") if using Mac-OS (Apple).

- Go back to the GEDmatch tab. You may need to log-in again due to a time-out. Return to the Tier 1 Utilities block on the Home page, and this time left-click on Triangulation (Figure 13).

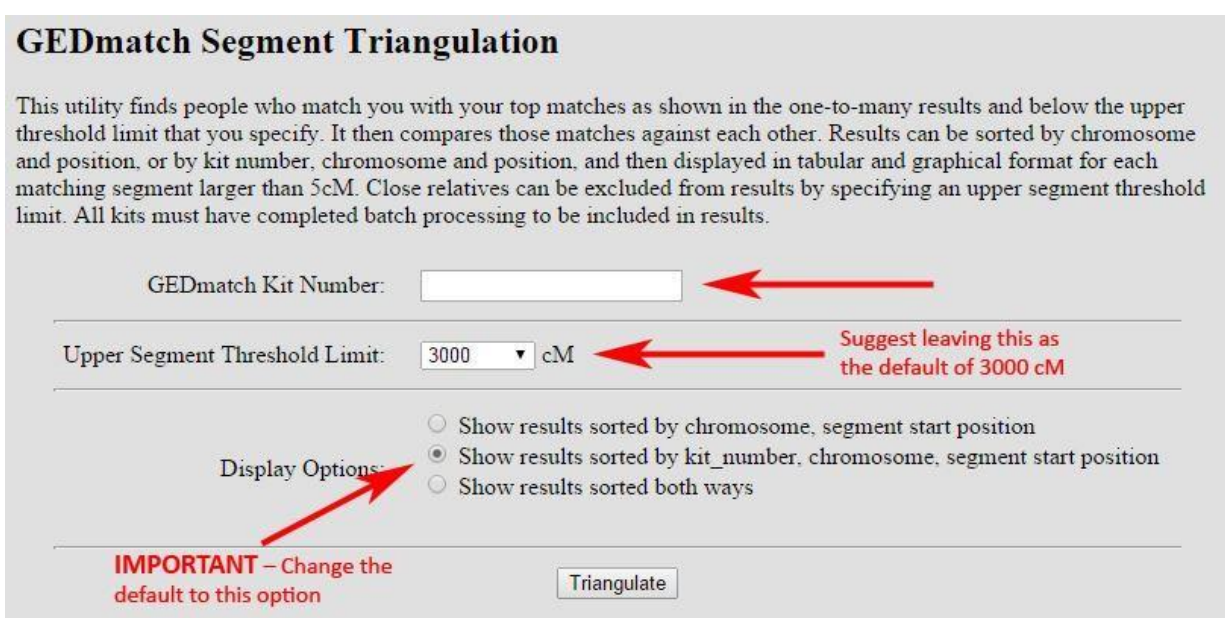
**Figure 13:** GEDmatch Segment Triangulation Link





9. This will take you to the Segment Triangulation screen (Figure 14). Insert your GEDmatch Kit Number in the top box. Change the radio button from the default (bottom option) to the middle option (Show results sorted by “kit\_number, chromosome, segment start position”). Leave the Upper Segment Threshold Limit at the default of 3000 cM. Then left-click on the “Triangulate” button. You need to be REALLY PATIENT with this tool – even more patient than with the Matching Segment Tool! GEDmatch warns that it can take up to 45 minutes. As with the Matching Segment tool, it looks as though nothing much is happening, but you may see “Waiting for www4.gedmatch.com” at the bottom left of the browser window, which then disappears; you may see a series of asterisks showing the progress, but you may not. Don’t click on the Triangulate button again or try to run in a different tab – this will slow everything down.

**Figure 14: GEDmatch Segment Triangulation Screen**



**GEDmatch Segment Triangulation**

This utility finds people who match you with your top matches as shown in the one-to-many results and below the upper threshold limit that you specify. It then compares those matches against each other. Results can be sorted by chromosome and position, or by kit number, chromosome and position, and then displayed in tabular and graphical format for each matching segment larger than 5cM. Close relatives can be excluded from results by specifying an upper segment threshold limit. All kits must have completed batch processing to be included in results.

GEDmatch Kit Number:

Upper Segment Threshold Limit:  cM

Display Options:

- ☐ Show results sorted by chromosome, segment start position
- ☒ Show results sorted by kit\_number, chromosome, segment start position
- ☐ Show results sorted both ways

**IMPORTANT** – Change the default to this option

*Red arrows in the original image point to the Kit Number field, the Threshold Limit field, the middle radio button, and the IMPORTANT note.*

10. Figure 15 shows the output once the Segment Triangulation tool has finished running. Presumably because of the server requirements to run this, it includes only the closest 400 matches. As in Step 5, copy the whole of this page (including everything above the table and everything below the table) as follows. If using Windows, left-click anywhere in the GEDmatch window, then press [Ctrl]+A (Control key plus "A"), which will select All (everything will show as blue), then [Ctrl]+C (Control key plus "C"), which will Copy every selected. If using Mac-OS, left-click anywhere in the GEDmatch window, then press [Cmd]+A (Command key plus "A"), then [Cmd]+C (Command key plus "C"). Each browser also has ways of selecting and copying, which can be used instead.



**Figure 15: Segment Triangulation Output**

### GEDmatch Segment Triangulation

All kits shown in columns Kit1 and Kit2 are taken from the closest 400 matches to A22 [redacted] with a total matching segment count less than 3000 cM.  
Matches above 3000 cM (total) are not shown.  
Segments shown are larger than 7.0 cM and 500 SNPs.  
**Processing may take as much as 45 minutes. DO NOT refresh the screen or leave this page during that time.**  
Progress is shown by a string of 400 asterisks ("\*") on the lines below:  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

To put this into a spreadsheet: Ctrl-A, Right-Click/Copy, In Excel: Right-Click/Paste-Special(HTML)  
Hover over the kit number to see the name and email.  
Hover over the colored segment to see the start and end position of each part.


Triangulated results sorted by Kit Number, Chromosome, Start Position:

Chr	Kit1			Kit2			Start	End	cM
20	A00 [redacted]	Charles [redacted]	charlie@ [redacted].com	A39 [redacted]	B [redacted]	b [redacted]@hotmail.com	398,704	4,023,934	9.5
20	A00 [redacted]	Charles [redacted]	charlie@ [redacted].com	A50 [redacted]	B [redacted]	d [redacted]@q.com	398,704	3,972,512	9.4
20	A00 [redacted]	Charles [redacted]	charlie@ [redacted].com	A54 [redacted]	Matt [redacted]	me@ [redacted].com	337,881	4,173,573	10.2
20	A00 [redacted]	Charles [redacted]	charlie@ [redacted].com	A63 [redacted]	*J [redacted]	linda [redacted]@twc.com	337,881	4,206,071	10.3
20	A00 [redacted]	Charles [redacted]	charlie@ [redacted].com	A76 [redacted]	Patrick [redacted]	patrick [redacted]@hotmail.com	337,881	4,206,071	10.3
20	A00 [redacted]	Charles [redacted]	charlie@ [redacted].com	F29 [redacted]	Barbara [redacted]	barb [redacted]@rogers.com	398,704	4,206,071	10.0
20	A00 [redacted]	Charles [redacted]	charlie@ [redacted].com	F30 [redacted]	David [redacted]	d [redacted]@hotmail.com	337,881	4,233,532	10.4

**Hint:** A common error made in this step is to copy only the data in the table. As indicated above, the **WHOLE PAGE** (including the text above the table and the text below the table) is required. Using the Select All command, followed by the Copy command (see above for the quick keys) ensures that everything needed is copied.

- After copying the Segment Triangulation output from GEDmatch, go back to the DNAGedcom tab, which will have the GEDmatch Upload Screen open. If the large box in the center isn't empty, it means you forgot to left-click the "Clear" button in Step 7, so go ahead and do that now. Left-click in the blank space in the box, then if using Windows, press [Ctrl]+V (Control key plus "V"), or if using Mac-OS, press [Cmd]+V (Command key plus "V"). This will paste everything from Step 10 into the box, as shown in Figure 17. Then left-click the "Load" button.

**Figure 16: GEDmatch Upload Screen in DNAGedcom after Pasting Segment Triangulation Output**



Welcome XXXXXX ! [Log Out](#)

[Home](#) | [Information](#) | [DNA Kits](#) | [Family Tree DNA](#) | [23andMe](#) | [Autosomal Tools](#) | [GWorks \(Gedcom\)](#) | [Members](#)

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**WELCOME TO THE TOOLS SECTION FOR GEDMATCH.**  
This tool adds GedMatch data to your system so you can run the tools on the site. It creates FTDNA style extracts, including Match list, Chromosome data and ICW.

1) Run a Tier 1 Matching Segment Search list. Be sure to exclude Graphic. When data is loaded, copy and paste the entire window to the box below and hit Load.

2) Run a Tier 1 Triangulation. Choose Show Results sorted by Kit\_number, chromosome, segment start position. Stay with the default of 3000. When data is loaded, copy and paste the entire window to the box below and hit Load.

To Copy and Paste on Windows click in the windows, type Ctrl-A then Ctrl-C. Go to box below and click in the box. Click Ctrl-V. You will see the data load below.

```
k @gmail.com 74,802,179 78,519,835 10.6
16 M98 K k @gmail.com A19 *P
p @yahoo.com 74,802,179 78,526,291 10.6
16 M98 Kenneth Day k @gmail.com A32 *m
m @yahoo.com 74,923,332 78,526,291 10.5
16 M98 K k @gmail.com F31 *S
s @gmail.com 74,802,179 78,509,723 10.5
Ver: Mar 20 2015 01:14:05
Elapsed Time: 1166.34 Seconds.
Triangulated Segments Displayed: 1336
```

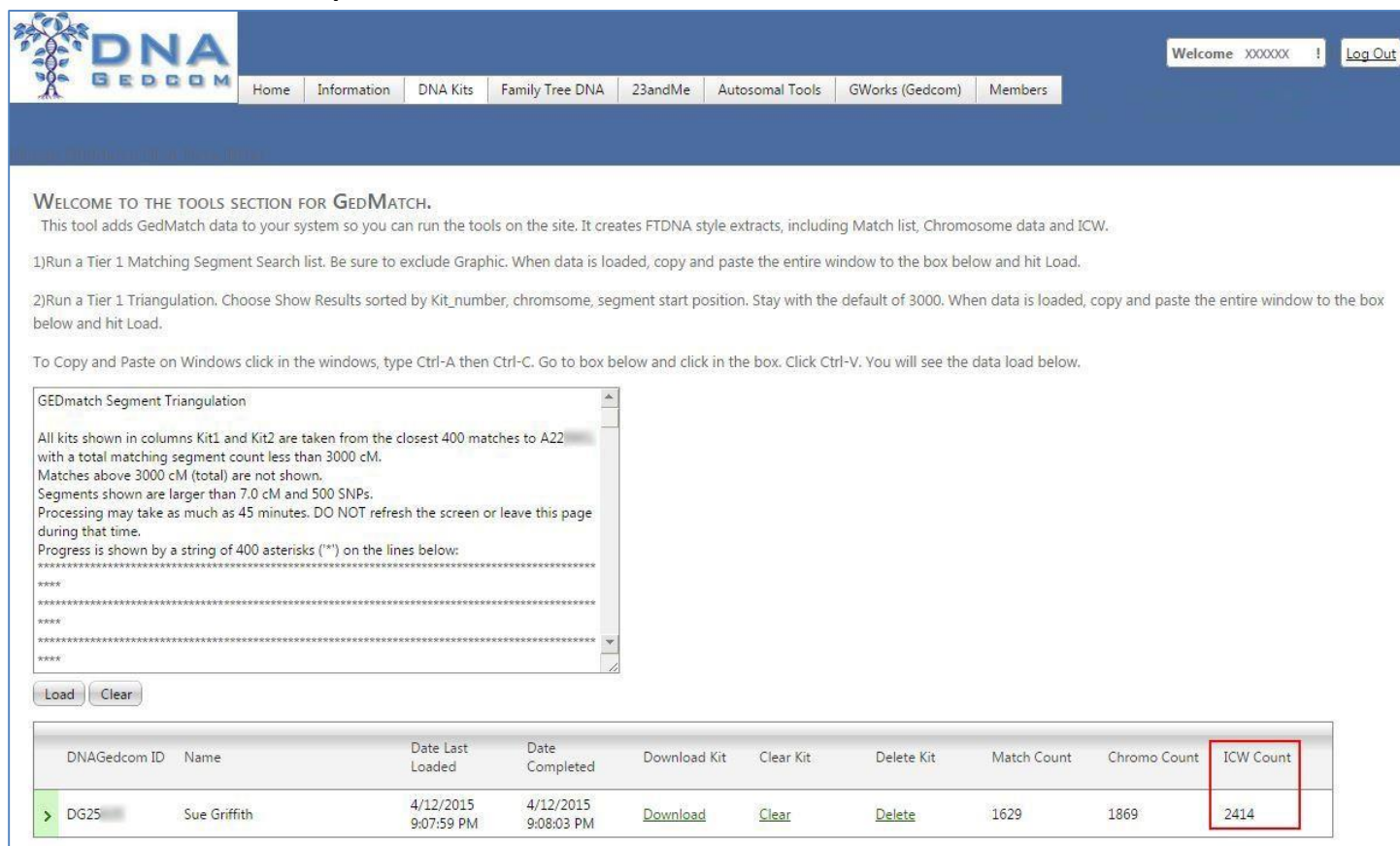
Web site and contents ©Copyright 2011-2015 by GEDmatch, Inc.

Load
Clear

DNAgedcom ID	Name	Date Last Loaded	Date Completed	Download Kit	Clear Kit	Delete Kit	Match Count	Chromo Count	ICW Count
> DG25	Sue Griffith	4/12/2015 9:02:45 PM	4/12/2015 9:02:51 PM	<a href="#">Download</a>	<a href="#">Clear</a>	<a href="#">Delete</a>	1607	1869	0

12. It takes <1 minute for the data to load to DNAGedcom – you may see “Waiting for response from dnagedcom.com” at the bottom left of the browser window while it is running. After the upload is complete, the box will scroll back so the top of the pasted data is visible and the record that was loaded will be in the section at the bottom of the screen, this time with the In Common With (ICW) Count shown (red rectangle) – see Figure 17. [Note: If you are uploading a kit that is already in the system (to add new matches), it will overwrite the previous data. You don’t need to delete the old kit.]

**Figure 17: GEDmatch Upload Screen in DNAGedcom after Upload of Segment Triangulation Output**



**WELCOME TO THE TOOLS SECTION FOR GEDMATCH.**  
This tool adds GedMatch data to your system so you can run the tools on the site. It creates FTDNA style extracts, including Match list, Chromosome data and ICW.

1) Run a Tier 1 Matching Segment Search list. Be sure to exclude Graphic. When data is loaded, copy and paste the entire window to the box below and hit Load.

2) Run a Tier 1 Triangulation. Choose Show Results sorted by Kit\_number, chromosome, segment start position. Stay with the default of 3000. When data is loaded, copy and paste the entire window to the box below and hit Load.

To Copy and Paste on Windows click in the windows, type Ctrl-A then Ctrl-C. Go to box below and click in the box. Click Ctrl-V. You will see the data load below.

GEDmatch Segment Triangulation

All kits shown in columns Kit1 and Kit2 are taken from the closest 400 matches to A22 with a total matching segment count less than 3000 cM. Matches above 3000 cM (total) are not shown. Segments shown are larger than 7.0 cM and 500 SNPs. Processing may take as much as 45 minutes. DO NOT refresh the screen or leave this page during that time. Progress is shown by a string of 400 asterisks ("") on the lines below:

\*\*\*\*\*

\*\*\*\*\*

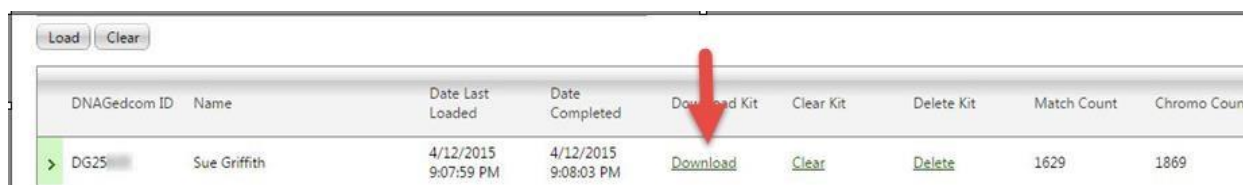
\*\*\*\*\*

\*\*\*\*\*

Load Clear

DNAGedcom ID	Name	Date Last Loaded	Date Completed	Download Kit	Clear Kit	Delete Kit	Match Count	Chromo Count	ICW Count
> DG25	Sue Griffith	4/12/2015 9:07:59 PM	4/12/2015 9:08:03 PM	<a href="#">Download</a>	<a href="#">Clear</a>	<a href="#">Delete</a>	1629	1869	2414

13. In order to use the files generated by the Gedmatch downloader in JWorks or KWorks, download them from the list by clicking on the download link.



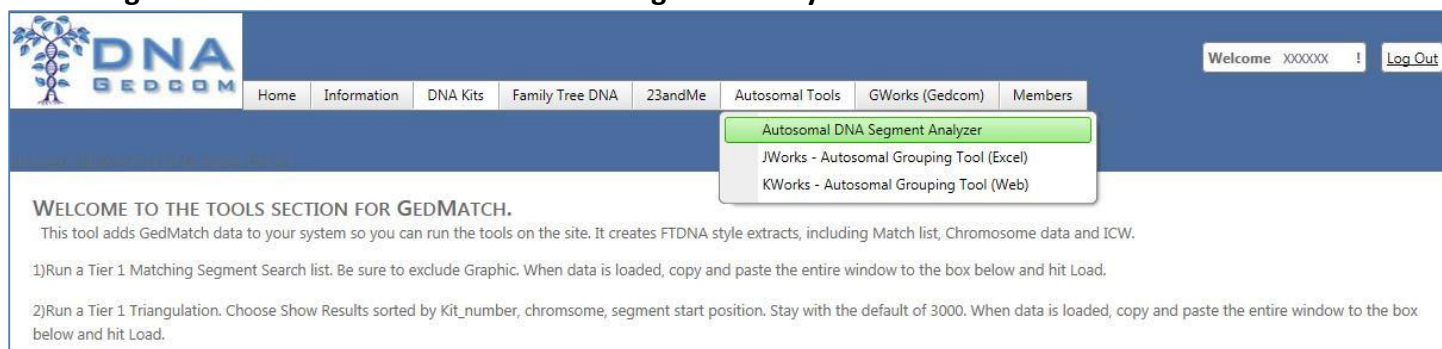
Load Clear

DNAGedcom ID	Name	Date Last Loaded	Date Completed	Download Kit	Clear Kit	Delete Kit	Match Count	Chromo Count
> DG25	Sue Griffith	4/12/2015 9:07:59 PM	4/12/2015 9:08:03 PM	<a href="#">Download</a>	<a href="#">Clear</a>	<a href="#">Delete</a>	1629	1869

14. Now that the Match Count and Chromo Count (from Step 7) and the ICW Count (from Step 0) are in the DNAGedcom system, ADSA can be run – and you can go back to ADSA whenever you like without having to run everything again from GEDmatch. (You will want to repeat the steps above from time to time to pick up new matches that have been added in GEDmatch, however.)

To open the ADSA screen, hover over the menu for Autosomal Tools and left-click on Autosomal DNA Segment Analyzer (Figure 18).

**Figure 18: Link for Autosomal DNA Segment Analyzer on DNAGEDcom**



16. The screen for creating the ADSA report is shown in [Error! Not a valid bookmark self-reference.](#). If you have previously used the ADSA for FTDNA's data, this will be familiar to you, as both FTDNA-ADSA reports and GEDmatch-ADSA reports are created using the same tool. Select the kit number from the box at the bottom of the screen. **IMPORTANT:** If you already have one or more FTDNA kits in the system, you can differentiate the GEDmatch kits from FTDNA kits by the GEDmatch kits starting with an A, F, or M – in contrast, FTDNA kits will either start with a number or a different letter (e.g., B, H).

There are many options for creating an ADSA report, which are covered within the [ADSA Manual](#) (link also available on the ADSA screen at the red rectangle). Note there are special instructions for those with [Ashkenazi ancestry](#) (link also available on the ADSA screen, at the blue rectangle). If you are new to using the ADSA, try just changing the minimum segment length to 10 cM and run using all the defaults (leave all the other boxes blank) – you can try different options when you are more familiar with it. This is one step where you don't need patience, as the ADSA report is created really quickly.



**Figure 19: Screen for Creating ADSA Report**

**AUTOSOMAL DNA SEGMENT ANALYZER (ADSA) - VERSION 2**

**ADSA NOW SUPPORTS GEDMATCH!** You will need to use GEDMATCH to gather the data and then load it into DNAGedcom's database so ADSA can find it there. There is a [GEDMATCH Quick Start Guide](#) available. [Detailed instructions for loading GEDMATCH data](#) are also available.

**ADSA only works with GEDMATCH and the Family Finder test from Family Tree DNA. It does not work with 23andMe or AncestryDNA yet.**

The Autosomal DNA Segment Analyzer constructs tables that include match and segment information as well as a visual graph of overlapping segments, juxtaposed with a customized, color-coded In-Common-With (ICW) matrix that will permit you to triangulate matching segments without having to look in multiple spreadsheets or on different web pages. Additional information, such as ancestral surnames, suggested relationship ranges, and matching segments and ICWs on other chromosomes is provided by hovering over fields on the screen. You may also generate emails to persons you match from the page. The web page produced by this program does not depend on any other files and may be saved as a stand-alone .html or .htm file that will function locally or offline in your browser. You can also email the saved report as an attachment. If you want to quickly see what this does, you can try out a [working sample output](#) for a single chromosome, but the default option is for all chromosomes to be displayed.

**PLEASE READ THE ADSA MANUAL** for step-by-step instructions for using the tool and a section on troubleshooting problems you may encounter. If you just want to get started without a lot of reading, you can follow the steps in the [Family Tree DNA Quick Start Guide](#) or the [GEDMATCH Quick Start Guide](#). There are also special instructions for people with Ashkenazi ancestry. If you wish, you may still run the [older version of ADSA](#) (Version 1) from files. Please direct questions and comments to Don Worth at [worth@ucla.edu](mailto:worth@ucla.edu).

You may select a report type in the drop down menu below which will change the input options.

Classic ADSA ▾

Chromosome to Graph (1-22, X, or blank=all)	Base Pairs: <input style="width: 100px;" type="text"/> to <input style="width: 100px;" type="text"/>
<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;">10</div> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;">500</div> <div style="border: 1px solid black; padding: 2px;">500</div> </div>	Minimum Segment Length in cM (5 or greater STRONGLY recommended)
500	Minimum SNPs in a segment
500	Width of segment graph in pixels

Display raw data in a table so it can be copied to a spreadsheet ☐

(Do not check if you want full formatting)

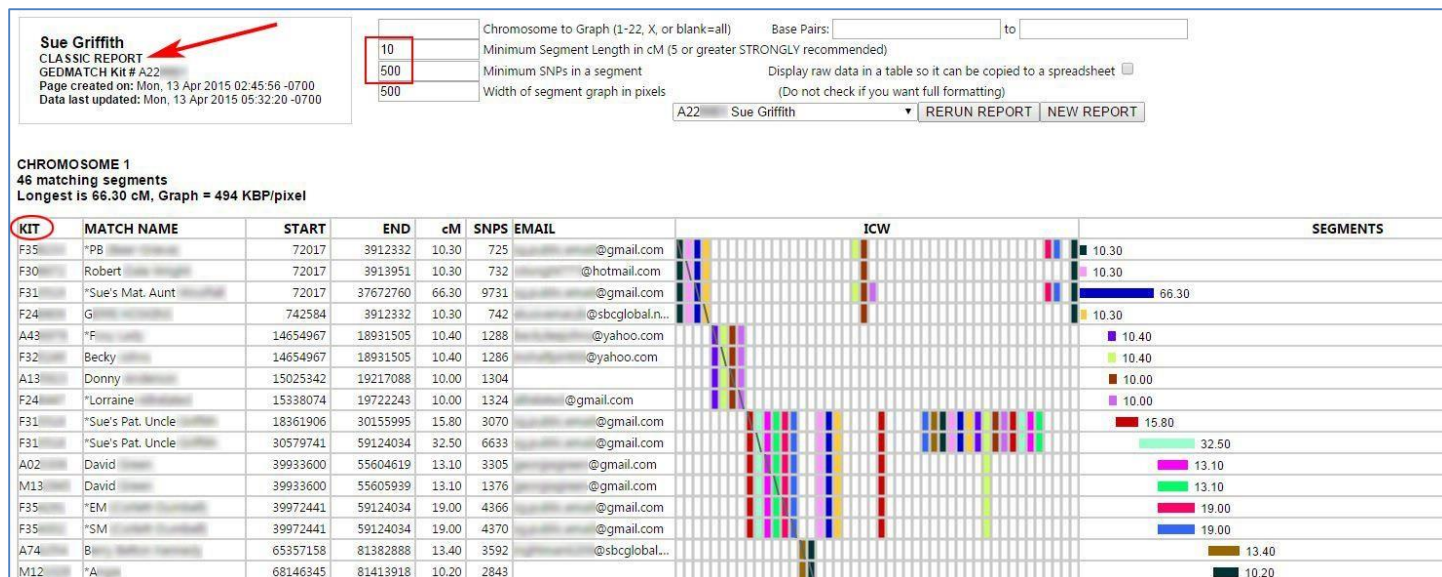
▾ [REQUIRED] Kit number of the data to be used to construct the report.

**Try different segment lengths from the 7 cM default here – 10 cM often seems to work well for GEDmatch-ADSA**

Please be patient after clicking on the GET REPORT button. It can take a minute or more to complete processing. GET REPORT

17. Figure 20 shows the top part of the GEDmatch-ADSA Report, which was run to show all chromosomes. The arrow indicates that this report is from a GEDmatch Kit. The rectangle indicates the minimum segment length (in cM) that was selected in Step 16. GEDmatch kit number is shown in the left-hand column (see oval).

**Figure 20: GEDmatch-ADSA Report**



The GEDmatch-ADSA report is very similar to the FTDNA-ADSA report. For more information about how to use the report, identify triangulated groups, interpret your results, as well as troubleshooting, read the full [ADSA Manual](#).

There are a few differences in the GEDmatch-ADSA report:

- There are a lot more segments, so setting the minimum segment length to 10 cM (as suggested in Step 16) is recommended
- The ICWs are only available for the top 400 matches (which is a limitation of GEDmatch's Triangulation tool)
- Segments from close relatives aren't shown (which is a limitation of GEDmatch's Matching Segment tool)
- The GEDmatch-ADSA doesn't include the X chromosome
- Certain fields in the pop-out windows on the FTDNA-ADSA report (on hovering over the Match Name and Segment blocks) aren't available on the GEDmatch-ADSA report: Match Date (which shows as "12/31/1969" for everyone), Relationship /Relationship Range/Known Relationship, Total Shared and Longest Block (which show up as 0 cM), Notes, and Haplogroups

For those who may wish to use the Gedmatch downloader with JWork/KWorks, please see the documentation here: [https://www.dnagedcom.com/docs/GEDmatch\\_Downloader\\_2015-07.pdf](https://www.dnagedcom.com/docs/GEDmatch_Downloader_2015-07.pdf)



## Quick Guide for Creating a GEDmatch-ADSA Record

