

Closest Relatives in the My Relatives View

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User Needs

A simple way to view the most closely related persons to the user in the tree and understand how they relate to the user and each other
 Something that helps users easily know where to work next and what they can do to be productive

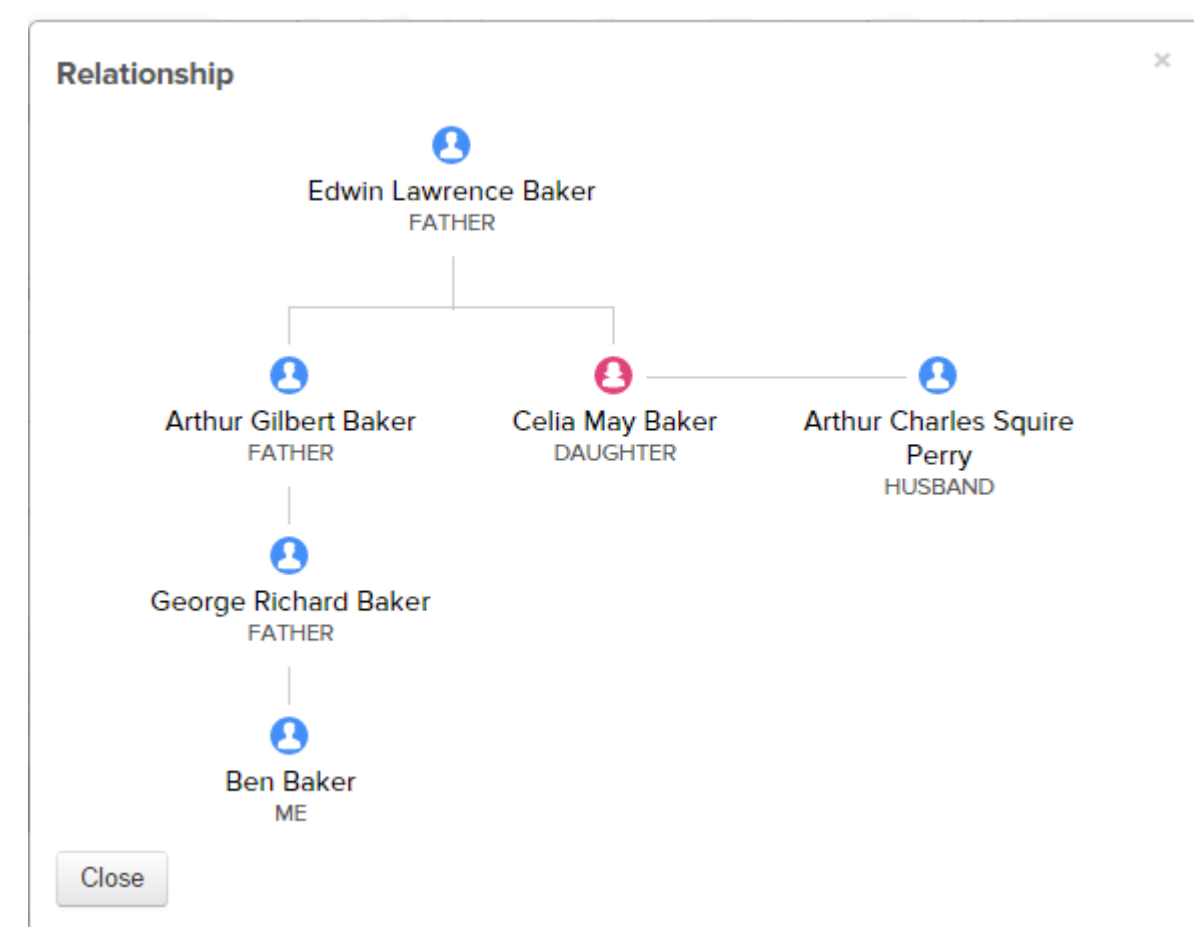
Weighted Relationship Distance

$$WRD(g, c, m) = \alpha(|g| + 1)e^{\beta c} e^{\gamma m} e^{\delta p}$$

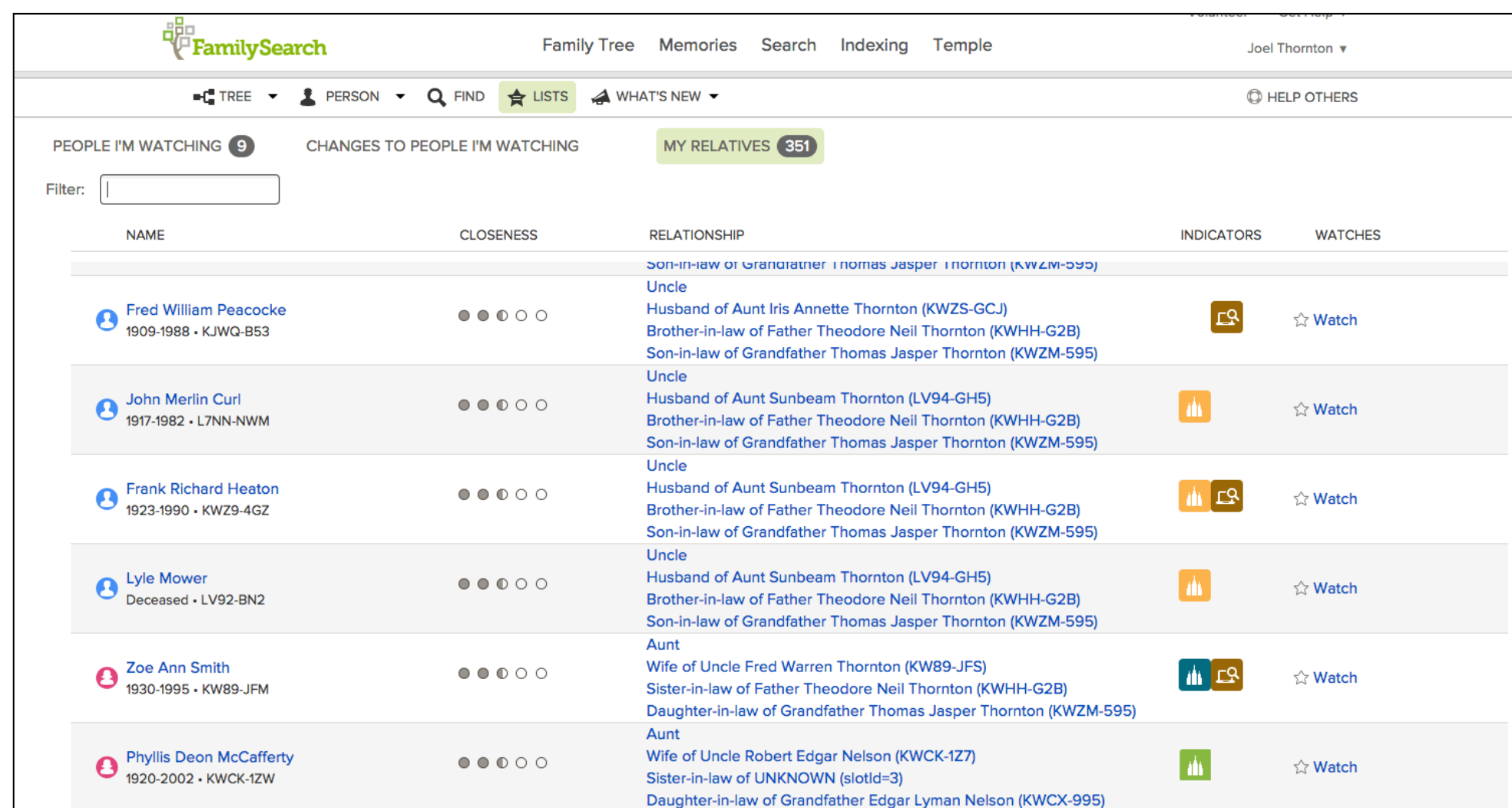
- g – Generational or “vertical” distance
Number of generations from base person
- c – Collateral or “horizontal” distance
Generations to closest common ancestor
- m – Marriage distance
Number of marriages between base person
- p – Positive sign changes for generational distance
Number of sign changes from negative to positive for g
- $\alpha, \beta, \gamma, \delta$ – Weighting factors to control growth rates

Scope of Interest

Displays all of the direct relatives of the user four generations above the user (i.e. 2nd Great Grandparents), all of the spouses and children of these direct ancestors and the spouses of the children of direct ancestors.



My Relatives View

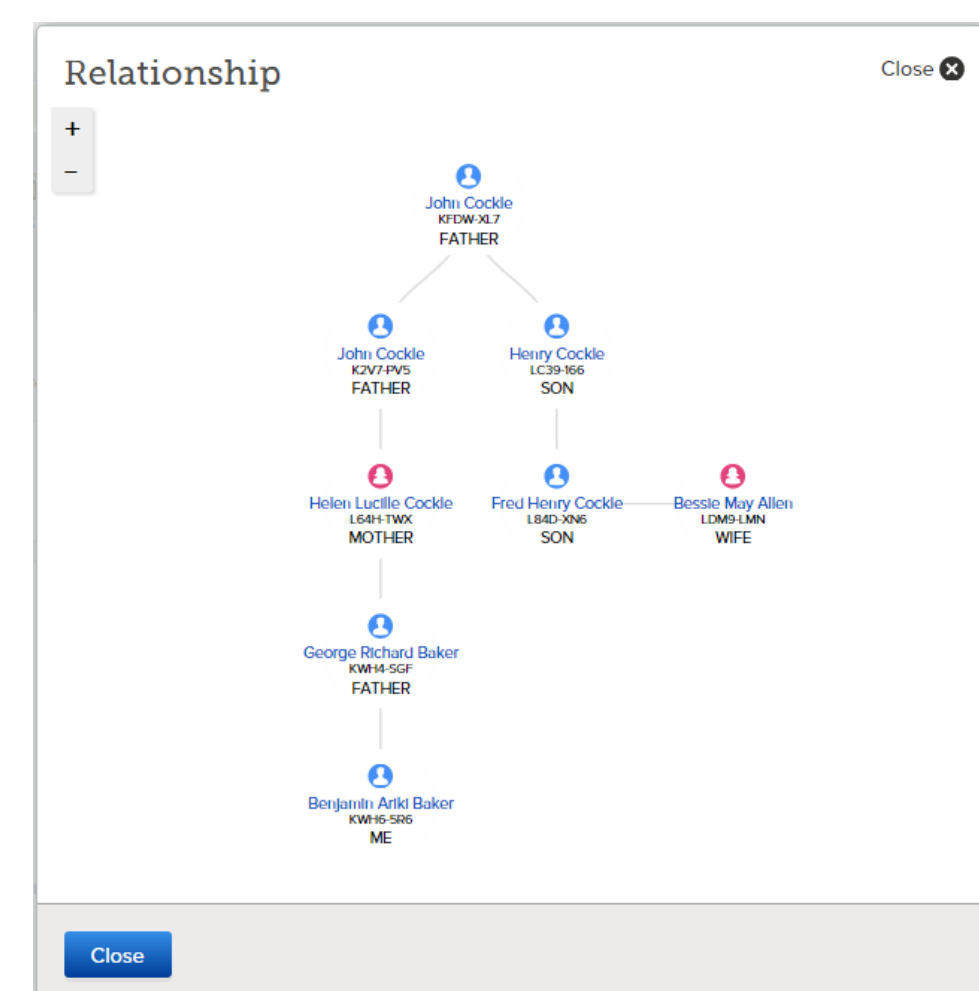


NAME	CLOSENESS	RELATIONSHIP	INDICATORS	WATCHES
Fred William Peacocke 1909-1988 • KJWG-853	● ● ● ● ○	Uncle Husband of Aunt Iris Annette Thornton (KWZS-GC.) Brother-in-law of Father Theodore Neil Thornton (KWHH-G2B) Son-in-law of Grandfather Thomas Jasper Thornton (KWZM-595)	ES	Watch
John Merin Curt 1917-1982 • L7NN-NWM	● ● ● ● ○	Uncle Husband of Aunt Sunbeam Thornton (LV94-GH5) Brother-in-law of Father Theodore Neil Thornton (KWHH-G2B) Son-in-law of Grandfather Thomas Jasper Thornton (KWZM-595)	ES	Watch
Frank Richard Heaton 1923-1990 • KWZ9-4GZ	● ● ● ● ○	Uncle Husband of Aunt Sunbeam Thornton (LV94-GH5) Brother-in-law of Father Theodore Neil Thornton (KWHH-G2B) Son-in-law of Grandfather Thomas Jasper Thornton (KWZM-595)	ES	Watch
Lyle Mower Deceased • LV92-8N2	● ● ● ● ○	Uncle Husband of Aunt Sunbeam Thornton (LV94-GH5) Brother-in-law of Father Theodore Neil Thornton (KWHH-G2B) Son-in-law of Grandfather Thomas Jasper Thornton (KWZM-595)	ES	Watch
Zoe Ann Smith 1930-1995 • KW89-JFM	● ● ● ● ○	Aunt Wife of Uncle Fred Warren Thornton (KW89-JFS) Sister-in-law of Father Theodore Neil Thornton (KWHH-G2B) Daughter-in-law of Grandfather Thomas Jasper Thornton (KWZM-595)	ES	Watch
Phyllis Deon McCafferty 1920-2002 • KWCK-1ZW	● ● ● ● ○	Aunt Wife of Uncle Robert Edgar Nelson (KWCK-1ZT) Sister-in-law of UNKNOWN (slotid-3) Daughter-in-law of Grandfather Edgar Lyman Nelson (KWCK-995)	ES	Watch

- Augments scope of interest with additional data
- Relatives sorted by closeness of relationship using WRD
- Enables working with closest relatives in meaningful ways
- Provides additional relationship descriptions for added context

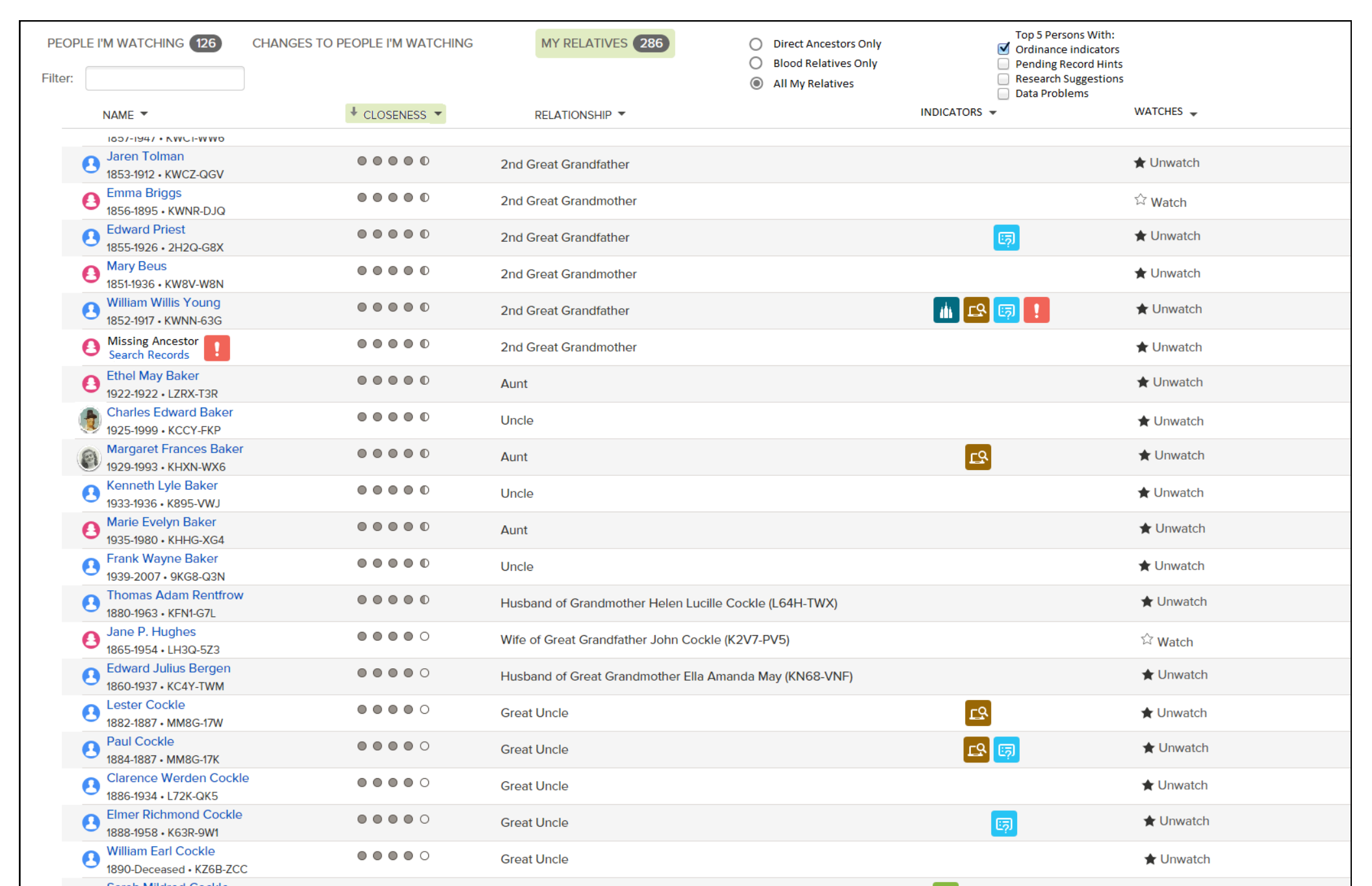
New Relationship Viewer

- Can handle any combination and number of parents, children and spouses
- Supports zooming and dragging of the relationship path
- Uses SVG images for icons and text, allowing crisp presentation at all zoom levels
- Shows person IDs and provides direct links to all persons in the relationship path
- Already used in Family Tree to view relationships to persons within the Scope of Interest



Additional Features Being Pursued

- Add research suggestion and data problem icons
- Support sorting by the columns in the view and secondary sorting with two columns in tandem
- Control display of relatives down to a particular distance so fewer persons are loaded on the first page of relatives
- Highlight new data problem when more than one biological parent occupies the same slot (i.e. two mothers)
- Point out missing end of line direct ancestors and provide a link to help search for records
- Gamify by "unlocking" larger scope when indicator icons are cleaned off (or meet some threshold of cleanliness) to motivate people to clean up data to grow their my relatives list
- Localization of natural text relative descriptions
- Display thumbnail photos of persons if they are available
- Color code relatives in the list according to direct ancestors, blood relatives and relatives through marriage
- Use a drop down from the Find tab similar to the history list to allow searching within My Relatives
- Add a radio button to toggle view of direct ancestors only, all blood relatives and all my relatives
- Provide a way to only view ancestors, descendants and path to me for any given person in the list
- Pointing out relatives who have been identified as prominent or have participated in significant events
- Add "Help" checkboxes to find top 5 people who need ordinances, have pending record hints, have research suggestions, etc.
- Add sorting of persons by closeness and viewing relationships in other views such as memories, watched persons and LDS temple reservation lists



NAME	CLOSENESS	RELATIONSHIP	INDICATORS	WATCHES
Jean Tolman 1853-1912 • KWLC-1999D	● ● ● ● ●	2nd Great Grandfather		Unwatch
Emma Briggs 1856-1895 • KWNR-DJQ	● ● ● ● ●	2nd Great Grandmother		Watch
Edward Priest 1855-1928 • 2H2Q-GBX	● ● ● ● ●	2nd Great Grandfather	ES	Unwatch
Mary Beus 1851-1936 • KW8V-W8N	● ● ● ● ●	2nd Great Grandmother		Unwatch
William Willis Young 1852-1957 • KWNN-635	● ● ● ● ●	2nd Great Grandfather	ES	Unwatch
Missing Ancestor Search Records	● ● ● ● ●	2nd Great Grandmother		Unwatch
Ethel May Baker 1922-1922 • L20K-T38	● ● ● ● ●	Aunt		Unwatch
Charles Edward Baker 1925-1909 • KCCY-FXP	● ● ● ● ●	Uncle		Unwatch
Margaret Frances Baker 1929-1992 • KW2N-WX6	● ● ● ● ●	Aunt	ES	Unwatch
Kenneth Lytle Baker 1933-1936 • KB95-VWJ	● ● ● ● ●	Uncle		Unwatch
Mario Evelyn Baker 1925-1980 • KH9G-X54	● ● ● ● ●	Aunt		Unwatch
Frank Wayne Baker 1929-2007 • 9K68-G2N	● ● ● ● ●	Uncle		Unwatch
Thomas Adam Rentfrow 1880-1963 • KFNI-G7L	● ● ● ● ●	Husband of Grandmother Helen Lucille Cackle (L64H-TWQ)		Unwatch
Jane P. Hughes 1895-1954 • L42Q-S23	● ● ● ● ●	Wife of Great Grandfather John Cackle (K2V7-PV5)		Watch
Edward Julius Bergen 1860-1937 • KCXY-TWM	● ● ● ● ●	Husband of Great Grandmother Ella Amanda May (KN68-VNF)		Unwatch
Lester Cackle 1922-1987 • MM8G-17W	● ● ● ● ●	Great Uncle	ES	Unwatch
Paul Cackle 1884-1887 • MM8G-17K	● ● ● ● ●	Great Uncle	ES	Unwatch
Clarence Worden Cackle 1898-1934 • L2JK-G25	● ● ● ● ●	Great Uncle		Unwatch
Elmer Richmond Cackle 1888-1958 • K638-9W1	● ● ● ● ●	Great Uncle	ES	Unwatch
William Earl Cackle 1890-Deceased • K268-ZCC	● ● ● ● ●	Great Uncle		Unwatch
Sarah Mildred Cackle	● ● ● ● ●	Great Aunt	ES	Unwatch