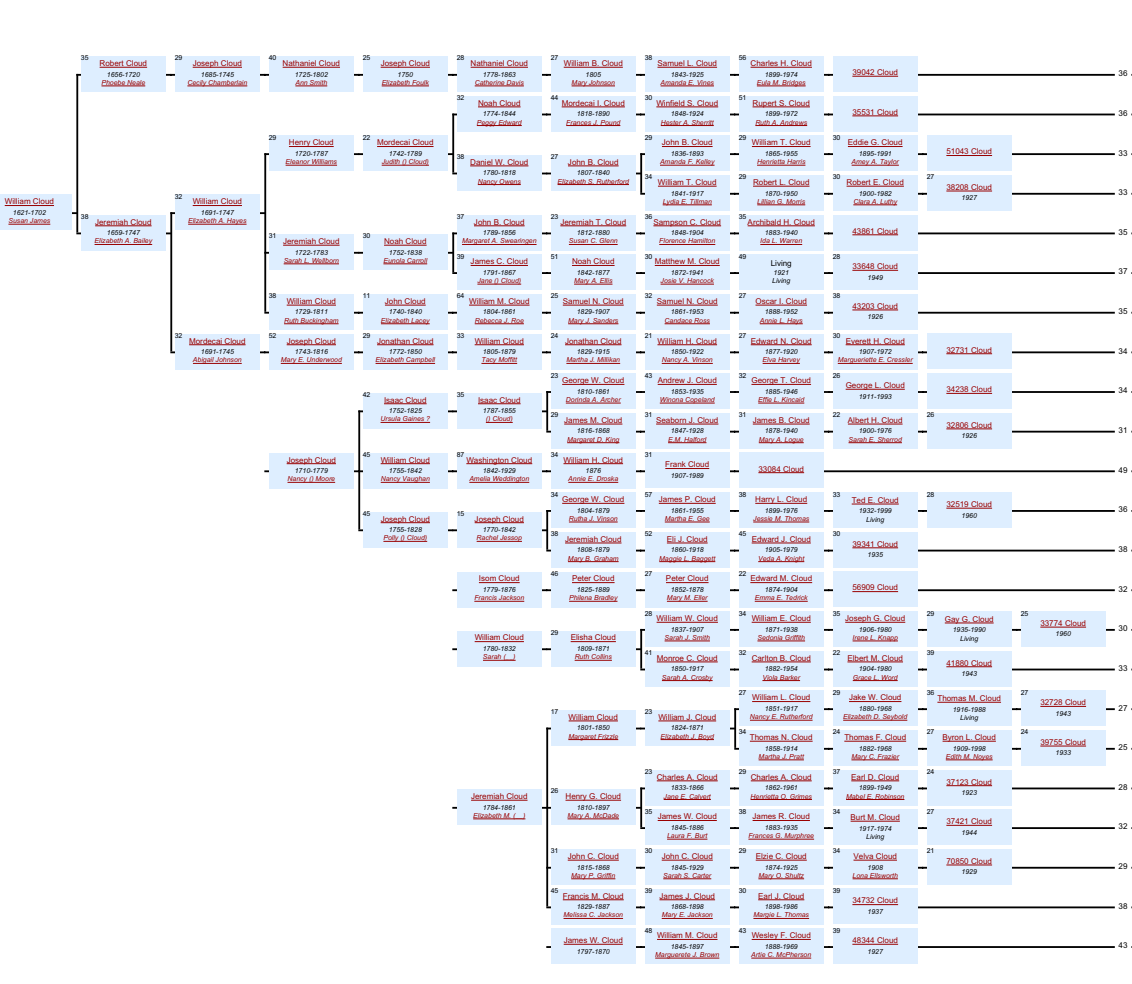

Time to Most Recent Common Ancestor (Generations)

ID	390442	355531	510443	382086	433648	436448	432003	322731	342386	320606	308084	325119	393441	569097	337744	418880	327228	397555	371423	708500	347332	483444
39042	37	37	27	22	45	27	27	22	15	12	12	12	8	119	55	62	22	32	27	27	34	37	24
35531	37	12	15	37	62	15	37	62	37	37	37	37	37	155	89	89	37	37	37	37	37	37	37
51043	27	15	37	17	45	12	17	17	37	17	17	17	22	151	79	89	17	27	12	22	24	22	34
38208	22	37	17	37	45	17	17	22	62	22	22	22	17	151	79	120	12	22	17	17	34	27	45
43861	45	62	45	45	25	34	34	55	89	45	45	45	45	135	79	155	24	24	24	24	24	24	55
33648	27	15	12	17	34	37	22	17	37	17	17	17	22	135	67	89	17	27	12	12	15	22	24
43203	27	37	17	17	34	22	37	27	62	27	27	27	22	169	92	120	8	17	12	12	24	22	55
32731	22	62	17	22	55	17	27	37	37	12	12	12	17	105	55	62	22	32	17	27	34	27	24
34238	15	37	37	62	89	37	62	37	12	15	15	15	15	120	62	62	62	62	62	62	62	62	15
32806	12	37	17	22	45	17	27	12	15	37	3	3	8	119	55	62	22	32	17	27	24	27	15
33084	12	37	17	22	45	17	27	12	15	3	37	3	8	119	55	62	22	32	17	27	24	27	15
32519	12	37	17	22	45	17	27	12	15	3	3	37	8	119	55	62	22	32	17	27	24	27	15
39341	8	37	22	17	45	22	22	17	15	8	8	8	37	119	55	62	17	27	22	22	34	32	24
56909	119	155	151	151	135	135	169	105	120	119	119	119	119	25	105	120	151	151	151	151	151	151	119
33774	55	89	79	79	79	67	92	55	62	55	55	55	55	105	25	15	79	79	79	79	79	79	67
41880	62	89	89	120	155	89	120	62	62	62	62	62	62	120	15	12	120	120	120	120	120	120	62
32728	22	37	17	12	24	17	8	22	62	22	22	22	22	151	79	120	37	12	8	8	15	17	45
39755	32	37	27	22	24	27	17	32	62	32	32	32	27	151	79	120	12	37	17	17	15	27	45
37123	27	37	12	17	24	12	12	17	62	17	17	17	22	151	79	120	8	17	37	12	6	12	34
37421	27	37	22	17	24	12	12	27	62	27	27	27	22	151	79	120	8	17	12	37	15	22	45
70850	34	37	24	34	24	15	24	34	62	24	24	24	34	151	79	120	15	15	6	15	25	6	34
34732	37	37	22	27	24	22	22	27	62	27	27	27	32	151	79	120	17	27	12	22	6	37	34
48344	24	37	34	45	55	24	55	24	15	15	15	15	24	119	67	62	45	45	34	45	34	34	25

0-9 Generations	10-19 Generations	20-29 Generations	30-39 Generations

- Infinite allele mutation model is used
- Average mutation rate varies: 0.0020 to 0.0031
  rates derived by Doug McDonald from the Sorenson database
- Values on the diagonal indicate number of markers tested
- Probability is 50% that the TMRCA is no longer than indicated

Mutations

ID	DYS390	DYS391	DYS385a	DYS385b	DYS389I	DYS389-1	DYS389-2	DYS458	DYS459a	DYS459b	DYS437	DYS449	DYS464c	DYS464d	DYS460	GATAH4	YCAIIb	DYS607	DYS570	DYS19a	DYS19b
39042	23	11	11	12	11	13	28	17	10	26	15	31	15	15	11	11	23	15	18	36	37
35531	23	11	11	12	11	14	29														
51043	23	11	11	12	11	14	29	16	10	26	15	31	15	18	11	11	23	15	19	37	37
38208	23	11	11	13	11	14	29	17	10	26	15	31	15	15	11	11	23	15	19	37	37
43861	23	10	11	12	12	14	29	17	10	26	15	31	15	17							
33648	23	11	11	12	11	14	29	17	10	26	15	31	15	18	11	11	23	15	19	37	38
43203	23	10	11	12	11	14	29	18	10	26	15	31	15	15	11	11	23	15	19	37	37
32731	23	11	11	12	11	13	29	17	10	26	15	31	15	18	11	11	23	15	19	37	37
34238	23	11	11	12	11	13	28														
32806	23	11	11	12	11	13	28	17	10	26	15	31	15	18	11	11	23	15	18	37	37
33084	23	11	11	12	11	13	28	17	10	26	15	31	15	18	11	11	23	15	18	37	37
32519	23	11	11	12	11	13	28	17	10	26	15	31	15	18	11	11	23	15	18	37	37
39341	23	11	11	12	11	13	28	17	10	26	15	31	15	15	11	11	23	15	18	37	37
56909	24	11	12	12	13	13	29	17	9	25	14	29	16	17							
33774	23	11	10	12	11	13	31	17	10	24	15	28	15	17							
41880	23	11	10	12	11	13	31														
32728	23	10	11	12	11	14	29	17	10	26	15	31	15	15	11	11	23	15	19	37	37
39755	23	10	11	12	11	14	29	17	10	26	15	31	15	15	11	10	23	14	19	37	37
37123	23	10	11	12	11	14	29	17	10	26	15	31	15	18	11	11	23	15	19	37	37
37421	23	10	11	12	11	14	29	17	10	26	15	31	15	15	11	11	23	15	19	37	38
70850	23	10	11	12	11	14	29	17	10	26	15	31	15	18							
34732	23	10	11	12	11	14	29	17	10	26	15	31	15	18	10	11	22	15	19	37	37
48344	23	11	11	12	11	13	28	17	10	26	15	31	18	18							

Distance from reference:	Zero	One	Two	Three+