

1

% Horizontal pedigrees, generations at same indentation. S: Mo20W; W: W23; M: M14.
% !!! => cross was not by Toni; references to image locations on right.

```

06R0030:0000000 x 06R0030:0000000
    06R0030:0003003 x 06R0030:0003002
    06R0030:0003008 x 06R0030:0003007
    06R0030:0003009 x 06R0030:0003005
    06R0030:0003011 x 06R0030:0003012
    06R200:S0I10001 x 06R0030:0003007
        09R201:S0043609 x 09R1259:0031902

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10R205:S0003106 x 10R1321:0032509

11R205:S0051615 x 11R3206:0025006

11N205:S0035401 x 11N3459:0018610

12R205:S0003703 x 12R3641:0029901

12N504:B0042803 x 12N4023:0029501

13R4023:0009204 x 13R4023:0009203

13R4023:0009206 x 13R4023:0009203

13R4023:0009208 x 13R4023:0009203

$$14R4023:0014001 \times 14R4023:0014009$$

14R4023:0014003 x 14R4023:0014009

14R4023:0014004 x 14R4023:0014009

14R4023:0014007 x 14R4023:0014009

14R4023:0014010 x 14R4023:0014009

14R4023:0014011 x 14R4023:0014009

14R4023:0014012 x 14R4023:0014009

14R4023:0014014 x 14R4023:0014009

14R4023:0014016 x 14R4023:0014009

14R4023:0014017 x 14R4023:0014009

10R1321:0032504: [10r/gimmel/15.8-[510]]

10R1321:0032509: [10r/gimmel/15.8-[511]]

11R3206:0025006: [11r/aleph/19.8-[1122]]

12R3641:0029901: [12r/bet/8.8-[198]]

13R4023:0009203: [13r/bet/11.7-[969,970,9

13R4023:0009203: [13r/bet/11.7-[969,970,9

13R4023:0009203: [13r/bet/11.7-[969,970,9

14R4023:0014009: [14r/bet/20.8-[2214],14r

14R4023:0014009: [14r/bet/20.8-[2214],14r

14R4023:0014009: [14r/bet/20.8-[2214],14r

14R4023:0014009: [14r/bet/20.8-[2214],14r

14R4023:0014009: [14r/bet/20.8-[2214],14r

14R4023:0014009: [14r/bet/20.8-[2214],14r

14R4023:0014009: [14r/bet/20.8-[2214],14r

14R4023:0014009: [14r/bet/20.8-[2214],14r

14R4023:0014009: [14r/bet/20.8-[2214],14r

14R4023:0014009: [14r/bet/20.8-[2214],14r

les17-_w23

Fri Jun 01 16:28:50 2018

2

12R205:S0003705 x 12R3641:0029904
12R205:S0008516 x 12R3641:0029904
12R205:S0011216 x 12R3641:0029902 12R3641:0029902: [12r/bet/3.8-[48]]
12R3641:0029901 x 12R3641:0029901 12R3641:0029901: [12r/bet/8.8-[198]] 1
2R3641:0029901: [12r/bet/8.8-[198]]
12R503:B0012503 x 12R3641:0029902 12R3641:0029902: [12r/bet/3.8-[48]]
12R503:B0012505 x 12R3641:0029904
12R503:B0012510 x 12R3641:0029901 12R3641:0029901: [12r/bet/8.8-[198]]
11N205:S0035403 x 11N3459:0018608
11N205:S0035411 x 11N3459:0018605
09R201:S0043612 x 09R1259:0031910
09R201:S0043613 x 09R1259:0031903
06R300:W00I6405 x 06R0030:0003007
07R201:S0032701 x 07R1327:0065303 07R1327:0065303: [07r/gimmel/12.8-[364,365]]
07R301:W0032604 x 07R1327:0065303 07R1327:0065303: [07r/gimmel/12.8-[364,365]]
07R401:M0033106 x 07R1327:0065303 07R1327:0065303: [07r/gimmel/12.8-[364,365]]
06R300:W00I8704 x 06R0030:0003007
06N301:W0034407 x 06N1326:0017502
07R301:W0032311 x 07R2889:0064108 07R2889:0064108: [07r/gimmel/12.8-[339,340,341]]
09R301:W0040413 x 09R1818:0026314 09R1818:0026314: [09r/bet/12.9-[438]]
10R305:W0004511 x 10R2257:0032605 10R2257:0032605: [10r/gimmel/15.8-[513]]
11R305:W0051507 x 11R3274:0054304 11R3274:0054304: [11r/aleph/18.8-[1026]]
11R305:W0052104 x 11R3274:0054302 11R3274:0054302: [11r/aleph/18.8-[1023]]
11N305:W0031401 x 11N3460:0018709
11N305:W0031402 x 11N3460:0018706
11N305:W0037102 x 11N3460:0018704
12R305:W0010701 x 12R3642:0030108
12R305:W0010713 x 12R3642:0030110 12R3642:0030110: [12r/aleph/9.8-[212]
4]]
12R305:W0011610 x 12R3642:0030109 12R3642:0030109: [12r/aleph/9.8-[210]
9]]
12N3460:0029708 x 12N3460:0029706
13R4109:0011412 x 13R4112:0012209
13R4109:0011413 x 13R4112:0012213
13R4110:0011608 x 13R4112:0012303 13R4110:0011608: [13r/bet/17.7-[1247]
],13r/bet/22.7-[1519],13r/bet/27.7-[1669]] 13R4112:0012303: [13r/bet/6.8-[1847]] 13R4110:0011618: [13r/bet/17.7-[1250]
],13r/bet/22.7-[1522],13r/bet/27.7-[1672]] 13R4110:0011618 x 13R4112:0012305 13R4110:0011810: [13r/bet/17.7-[1256]
],13r/bet/22.7-[1528],13r/bet/27.7-[1678]] 13R4110:0011810 x 13R4112:0012401
13R4111:0011916 x 13R4112:0012309
13R4111:0012009 x 13R4112:0012407
13R4111:0012010 x 13R4112:0012205
13R4111:0012108 x 13R4112:0012217
13R4111:0012111 x 13R4112:0012219
13R4112:0012205 x 13R4111:0012010
13R4112:0012208 x 13R4111:0012006

13R4112:0012209 x 13R4109:0011412
13R4112:0012213 x 13R4109:0011413
13R4112:0012217 x 13R4111:0012108
13R4112:0012219 x 13R4111:0012111
13R4112:0012303 x 13R4110:0011608 13R4112:0012303: [13r/bet/6.8-[1847]]
] 13R4110:0011608: [13r/bet/17.7-[1247],13r/bet/22.7-[1519],13r/bet/27.7-[1669]]
13R4112:0012305 x 13R4110:0011618 13R4110:0011618: [13r/bet/17.7-[1250
],13r/bet/22.7-[1522],13r/bet/27.7-[1672]]
13R4112:0012401 x 13R4111:0012112
13R4112:0012404 x 13R4111:0012003
13R4112:0012407 x 13R4111:0012009
12N504:B0040105 x 12N3460:0029703
12N504:B0040107 x 12N3460:0029704
12N504:B0040108 x 12N3460:0029706
12R3460:0030008 x 12R3460:0030008 12R3460:0030008: [12r/bet/3.8-[51],12r/be
t/8.8-[199]] 12R3460:0030008: [12r/bet/3.8-[51],12r/bet/8.8-[199]]
12R3460:0030011 x 12R3460:0030011 12R3460:0030011: [12r/bet/3.8-[50],12r/be
t/8.8-[200]] 12R3460:0030011: [12r/bet/3.8-[50],12r/bet/8.8-[200]]
13R3460:0009303 x 13R3460:0009305 13R3460:0009305: [13r/bet/6.8-[1812]]
13R3460:0009307 x 13R3460:0009311
13R3460:0009309 x 13R3460:0009305 13R3460:0009309: [13r/bet/6.8-[1815]]
13R3460:0009305: [13r/bet/6.8-[1812]]
13R3460:0009313 x 13R3460:0009305 13R3460:0009305: [13r/bet/6.8-[1812]]
14R3460:0014110 x 14R3460:0014103 14R3460:0014103: [14r/bet/20.8-[2216],14r
/bet/22.8-[2267]]
14R3460:0014114 x 14R3460:0014103 14R3460:0014103: [14r/bet/20.8-[2216],14r
/bet/22.8-[2267]]
14R3460:0014115 x 14R3460:0014103 14R3460:0014103: [14r/bet/20.8-[2216],14r
/bet/22.8-[2267]]
11R305:W0052108 x 11R3274:0054304 11R3274:0054304: [11r/aleph/18.8-[1026]]
11R3274:0054302 x 11R3274:0054302 11R3274:0054302: [11r/aleph/18.8-[1023]] 1
1R3274:0054302: [11r/aleph/18.8-[1023]]
11R3274:0054303 x 11R3274:0054303
11R3274:0054304 x 11R3274:0054304 11R3274:0054304: [11r/aleph/18.8-[1026]] 1
1R3274:0054304: [11r/aleph/18.8-[1026]]
11R3274:0054305 x 11R3274:0054305
10R305:W0004806 x 10R2257:0032602 10R2257:0032602: [10r/gimmel/15.8-[512]]
10R305:W0004808 x 10R2257:0032606 10R2257:0032606: [10r/gimmel/15.8-[514]]
09R301:W0041902 x 09R1818:0026305 09R1818:0026305: [09r/bet/12.9-[433]]
09R301:W0041905 x 09R1818:0026306
07R301:W0034406 x 07R2889:0064109
06N301:W0034501 x 06N1326:0017503
06N301:W0034505 x 06N1326:0017505
06N301:W0034601 x 06N1326:0017508
07R201:S0034610 x 07R2886:0064401 !!! 07R2886:0064401: [07r/gimmel/12.8-[342,343,344]]
07R301:W0029617 x 07R2886:0064401 !!! 07R2886:0064401: [07r/gimmel/12.8-[342,343,344]]
07R301:W0034409 x 07R2886:0064402 07R2886:0064402: [07r/gimmel/12.8-[346,348,349]]

07R201:S0019302 x 07R1326:0113704
07R201:S0120001 x 07R1326:0113704 !!!
07R301:W0085616 x 07R1326:0113704
06R300:W00I8709 x 06R0030:0003012
06N301:W0007506 x 06N1325:0017401
06N301:W0034406 x 06N1325:0017401
07R201:S0034614 x 07R2890:0065408
07R301:W0034110 x 07R2890:0065409
07R301:W0034713 x 07R2890:0065408
07R401:M0034507 x 07R2890:0065408
06R400:M00I8503 x 06R0030:0003007
06N201:S0009211 x 06N1719:0022302
06N201:S0013903 x 06N1719:0022304
06N301:W0009910 x 06N1719:0022303
07R201:S0034001 x 07R2882:0064711
07R301:W0034101 x 07R2882:0064711
07R401:M0033901 x 07R2882:0064711
06N301:W0011409 x 06N1719:0022304
06N301:W0030801 x 06N1719:0022306
06N301:W0036509 x 06N1719:0022302
06N401:M0009706 x 06N1719:0022304
07R401:M0033402 x 07R2881:0065010
07R401:M0033405 x 07R2881:0065005
06N401:M0011905 x 06N1719:0022302
07R401:M0034207 x 07R2885:0064606 07R2885:0064606: [07r/gimmel/12.8-[356,357,358]]
10R405:M0006312 x 10R2140:0032706 10R2140:0032706: [10r/gimmel/15.8-[515]]
12R405:M0009903 x 12R3242:0030201 12R3242:0030201: [12r/aleph/9.8-[2074]]
12R405:M0009910 x 12R3242:0030202 12R3242:0030202: [12r/aleph/9.8-[2117]]
16R405:M0000812 x 16R4027:0012203 16R4027:0012203: [16r/gimmel/28.7-[204]]
16R405:M0003312 x 16R4027:0012203 16R4027:0012203: [16r/gimmel/28.7-[204]]
17R4555:0009801 x 17R4555:0009801
17R4555:0009808 x 17R4555:0009810
17R4555:0009809 x 17R4555:0009810
17R4555:0009901 x 17R4555:0009801
17R4555:0009902 x 17R4555:0009801
17R4555:0009911 x 17R4555:0009801
17R4555:0009913 x 17R4555:0009801
17R505:B0002916 x 17R4555:0009810
17R505:B0002917 x 17R4555:0009810
17R505:B0003013 x 17R4555:0009810
17R505:B0003014 x 17R4555:0009810
16R405:M0003315 x 16R4027:0012203 16R4027:0012203: [16r/gimmel/28.7-[204]]
12R405:M0010507 x 12R3242:0030201 12R3242:0030201: [12r/aleph/9.8-[2074]]
12R405:M0010517 x 12R3242:0030202 12R3242:0030202: [12r/aleph/9.8-[2117]]
12R405:M0010820 x 12R3242:0030209
16R405:M0000811 x 16R4297:0012305 16R4297:0012305: [16r/gimmel/28.7-[220]]
16R405:M0003309 x 16R4297:0012305 16R4297:0012305: [16r/gimmel/28.7-[220]]

les17-_w23

Fri Jun 01 16:28:50 2018

5

12R405:M0011105 x 12R3242:0030209
15R405:M0001105 x 15R4170:0014305
15R405:M0001311 x 15R4170:0014311
12R405:M0011107 x 12R3242:0030202
12R405:M0011110 x 12R3242:0030203

@, bulk

16R405:M0000808 x 16R4298:0012403]6
17R4554:0010003 x 17R4554:0010009
17R4554:0010004 x 17R4554:0010009
17R4554:0010005 x 17R4554:0010009
17R4554:0010007 x 17R4554:0010009
17R505:B0002913 x 17R4554:0010009
17R505:B0002914 x 17R4554:0010009

16R405:M0003213 x 16R4298:0012406

06N401:M0012002 x 06N1719:0022303

06N401:M0026406 x 06N1719:0022306

07R301:W0033813 x 07R2878:0065211

07R401:M0030307 x 07R2878:0065211

07R401:M0033109 x 07R2878:0065211

06R400:M00I8504 x 06R0030:0003012

15R4170:0014305: [15r/bet/8.8-[2608,2610]]

15R4170:0014311: [15r/bet/8.8-[2609]]

12R3242:0030202: [12r/aleph/9.8-[2117]]

16R4298:0012403: [16r/gimmel/28.7-[203]]

16R4298:0012406: [16r/gimmel/28.7-[236]]