```
% this is ../../crops/18r/planning/current pedigrees/primary dominants/les10- w23
% generated Friday, June 01, 2018 at 21:28:50 UTC (=1527888530.866771) by compute_pedigrees/1.
% Horizontal pedigrees, generations at same indentation. S: Mo20W; W: W23; M: M14.
% !!! => cross was not by Toni; references to image locations on right.
% W23/Les10-
 06R0026:0000000 x 06R0026:0000000
      06R0026:0002604 x 06R0026:0002606
           06N301:W0032901 x 06N1354:0015504
           06N301:W0034803 x 06N1354:0015508
                07R301:W0029003 x 07R2823:0056401
                07R301:W0029006 x 07R2823:0056406
                     09R301:W0043406 x 09R1774:0022802
                                                                   09R1774:0022802: [09r/bet/12.9-[423]]
                     09R301:W0043407 x 09R1774:0022804
                                                                   09R1774:0022804: [09r/bet/12.9-[415]]
                          10R305:W0003902 x 10R2249:0029503
                                                                        10R2249:0029503: [10r/gimmel/12.8-[263]]
                               11N305:W0035904 x 11N3268:0016308
                               11N305:W0036206 x 11N3268:0016306
                                    12R305:W0002604 x 12R3625:0027910
                                                                                  12R3625:0027910: [12r/aleph/9.8-[2048]]
                                    12R305:W0002607 x 12R3625:0027909
                                                                                  12R3625:0027909: [12r/aleph/9.8-[2057]]
                                    12R305:W0002609 x 12R3625:0027904
                                                                                  12R3625:0027904: [12r/aleph/9.8-[2063]]
                                         13R4000:0008308 x 13R4000:0008309
                                         14R4000:0012901 x 14R4000:0012902
                                                                                       14R4000:0012902: [14r/bet/20.8-[2222
11
                                         14R4000:0012904 x 14R4000:0012902
                                                                                       14R4000:0012902: [14r/bet/20.8-[2222
]]
                                         14R4000:0012905 x 14R4000:0012902
                                                                                       14R4000:0012902: [14r/bet/20.8-[2222]
]]
                                         14R4000:0012906 x 14R4000:0012902
                                                                                       14R4000:0012902: [14r/bet/20.8-[2222
]]
                                         14R4000:0012907 x 14R4000:0012902
                                                                                       14R4000:0012902: [14r/bet/20.8-[2222
]]
                                         14R4000:0012910 x 14R4000:0012902
                                                                                       14R4000:0012902: [14r/bet/20.8-[2222
]]
                                         14R4000:0012914 x 14R4000:0012902
                                                                                       14R4000:0012902: [14r/bet/20.8-[2222
11
                                         14R505:B0002508 x 14R4000:0012902
                                                                                       14R4000:0012902: [14r/bet/20.8-[2222
]]
                                         14R505:B0002511 x 14R4000:0012902
                                                                                       14R4000:0012902: [14r/bet/20.8-[2222
]]
                                         14R505:B0002514 x 14R4000:0012902
                                                                                       14R4000:0012902: [14r/bet/20.8-[2222
]]
                               11N305:W0037103 x 11N3268:0016305
```

10R2249:0029507: [10r/gimmel/12.8-[264]]

09R1774:0022811: [09r/bet/12.9-[413]]

11N305:W0037103 x 11N3268:0016305 10R305:W0005106 x 10R2249:0029507

09R301:W0043409 x 09R1774:0022811

06N301:W0034805 x 06N1354:0015501

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2
les10- w23
                 Fri Jun 01 16:28:50 2018
           11N305:W0033502 x 11N1354:0016204
           11R305:W0047918 x 11R1354:0022210
                                                        11R1354:0022210: [11r/aleph/19.8-[1136]]
           11R305:W0048217 x 11R1354:0022213
                                                        11R1354:0022213: [11r/aleph/19.8-[1139]]
           11R305:W0048218 x 11R1354:0022212
                                                        11R1354:0022212: [11r/aleph/19.8-[1138]]
           11R405:M0044201 x 11R1354:0022212
                                                        11R1354:0022212: [11r/aleph/19.8-[1138]]
           11R405:M0044210 x 11R1354:0022213
                                                        11R1354:0022213: [11r/aleph/19.8-[1139]]
           11R405:M0044503 x 11R1354:0022210
                                                        11R1354:0022210: [11r/aleph/19.8-[1136]]
                12R405:M0001501 x 12R3451:0028009
                     16R405:M0000802 x 16R4508:0011011
                                                                  16R4508:0011011: [16r/gimmel/27.7-[150]]
                     16R405:M0003314 x 16R4508:0011011
                                                                  16R4508:0011011: [16r/gimmel/27.7-[150]]
                          17R405:M0002203 x 17R4540:0017604
                                                                        17R4540:0017604: [17r/bet/2.8-[399]]
                          17R405:M0004215 x 17R4540:0017604
                                                                       17R4540:0017604: [17r/bet/2.8-[399]]
                          17R405:M0004312 x 17R4540:0017604
                                                                       17R4540:0017604: [17r/bet/2.8-[399]]
                12R405:M0001502 x 12R3451:0028012
                                                             12R3451:0028012: [12r/aleph/9.8-[2061]]
                     15R405:M0003909 x 15R4398:0013904
                                                                  15R4398:0013904: [15r/bet/11.8-[2639]]
                          16R405:M0000801 x 16R4509:0011103
                                                                        16R4509:0011103: [16r/gimmel/27.7-[152]]
                          16R405:M0003212 x 16R4509:0011103
                                                                       16R4509:0011103: [16r/gimmel/27.7-[152]]
                          17R405:M0002111 x 17R4509:0017712
                                                                       17R4509:0017712: [17r/gimmel/2.8-[398]]
                          17R405:M0002408 x 17R4509:0017712
                                                                       17R4509:0017712: [17r/gimmel/2.8-[398]]
                          17R405:M0004201 x 17R4509:0017712
                                                                       17R4509:0017712: [17r/gimmel/2.8-[398]]
                          17R405:M0004202 x 17R4509:0017712
                                                                       17R4509:0017712: [17r/gimmel/2.8-[398]]
                          17R405:M0004701 x 17R4509:0017701
                                                                       17R4509:0017701: [17r/gimmel/2.8-[392]]
                         17R405:M0004703 x 17R4509:0017701
                                                                       17R4509:0017701: [17r/gimmel/2.8-[392]]
                     15R405:M0003910 x 15R4398:0013904
                                                                  15R4398:0013904: [15r/bet/11.8-[2639]]
                     15R405:M0003913 x 15R4398:0013904
                                                                  15R4398:0013904: [15r/bet/11.8-[2639]]
                12R405:M0001507 x 12R3451:0028014
                     13R405:M0001302 x 13R4001:0025201
           12R205:S0002801 x 12R1354:0027813
                                                        12R1354:0027813: [12r/aleph/9.8-[2032]]
                13R205:S0000409 x 13R3999:0025106
                     14R205:S0000310 x 14R4289:0022506
                                                                  14R4289:0022506: [14r/bet/23.8-[2373]]
                     14R205:S0000316 x 14R4289:0022506
                                                                  14R4289:0022506: [14r/bet/23.8-[2373]]
                          15R205:S0002501 x 15R4395:0013304
                                                                        15R4395:0013304: [15r/bet/11.8-[2652]]
                               16R205:S0000607 x 16R4507:0010908
                                                                             16R4507:0010908: [16r/gimmel/27.7-[147]]
                               16R205:S0001102 x 16R4507:0010903
                                                                            16R4507:0010905: [16r/gimmel/27.7-[146]]
                               16R205:S0001105 x 16R4507:0010905
                               16R205:S0001211 x 16R4507:0010901
                                                                            16R4507:0010901: [16r/gimmel/27.7-[156]]
                               16R205:S0002615 x 16R4507:0010908
                                                                            16R4507:0010908: [16r/gimmel/27.7-[147]]
                               16R205:S0002618 x 16R4507:0010905
                                                                            16R4507:0010905: [16r/gimmel/27.7-[146]]
                               16R205:S0002619 x 16R4507:0010908
                                                                            16R4507:0010908: [16r/gimmel/27.7-[147]]
                                                                            16R4507:0010905: [16r/gimmel/27.7-[146]]
                               16R205:S0002710 x 16R4507:0010905
                               16R205:S0002711 x 16R4507:0010903
                                    •17R205:S0001101 x 17R4539:0017501
                                                                                 17R4539:0017501: [17r/bet/2.8-[400]]
B,B, bulk
                                    17R205:S0001110 x 17R4539:0017501
                                                                                 17R4539:0017501: [17r/bet/2.8-[400]]
                                    17R205:S0001111 x 17R4539:0017501
                                                                                 17R4539:0017501: [17r/bet/2.8-[400]]
                                    17R205:S0001307 x 17R4539:0017501
                                                                                 17R4539:0017501: [17r/bet/2.8-[400]]
                                    17R205:S0003501 x 17R4539:0017508
                                    17R205:S0003603 x 17R4539:0017508
```

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17R205:S0003604 x 17R4539:0017508
                    15R205:S0002502 x 15R4395:0013304
                                                                 15R4395:0013304: [15r/bet/11.8-[2652]]
                    15R205:S0002508 x 15R4395:0013301
                                                                 15R4395:0013301: [15r/bet/11.8-[2629]]
                    15R205:S0002606 x 15R4395:0013301
                                                                 15R4395:0013301: [15r/bet/11.8-[2629]]
                    15R205:S0002607 x 15R4395:0013301
                                                                 15R4395:0013301: [15r/bet/11.8-[2629]]
               14R205:S0000514 x 14R4289:0022506
                                                            14R4289:0022506: [14r/bet/23.8-[2373]]
               15R205:S0002111 x 15R4289:0013207
                                                            15R4289:0013207: [15r/bet/8.8-[2623]]
               15R205:S0002307 x 15R4289:0013205
                                                            15R4289:0013205: [15r/bet/8.8-[2626,2627]]
               15R205:S0002308 x 15R4289:0013205
                                                            15R4289:0013205: [15r/bet/8.8-[2626,2627]]
               15R205:S0002603 x 15R4289:0013207
                                                            15R4289:0013207: [15r/bet/8.8-[2623]]
               15R205:S0002604 x 15R4289:0013205
                                                            15R4289:0013205: [15r/bet/8.8-[2626,2627]]
     12R205:S0002802 x 12R1354:0027802
                                                  12R1354:0027802: [12r/aleph/9.8-[2029]]
06R0026:0002609 x 06R0026:0002615
     06N301:W0006905 x 06N1353:0015402
     06N301:W0006909 x 06N1353:0015410
     06N301:W0008103 x 06N1353:0015412
     06N301:W0009605 x 06N1353:0015401
     06N301:W0009606 x 06N1353:0015403
06R400:M00I8404 x 06R0026:0002610
06R400:M00I8405 x 06R0026:0002613
     06N401:M0024002 x 06N1712:0021801
```