

les2\_w23

Fri Jun 01 16:28:50 2018

1

% this is ../../crops/18r/planning/current\_pedigrees/primary\_dominants/les2\_w23

% generated Friday, June 01, 2018 at 21:28:50 UTC (=1527888530.793656) 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/Les2-

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06R0020:0000000 x 06R0020:0000000
  06R0020:0002006 x 06R0020:0002002
    06N301:W0004505 x 06N1343:0014509
    06N301:W0005704 x 06N1343:0014508
    06N301:W0006904 x 06N1343:0014506
      07R201:S0027608 x 07R2752:0039005
        09R201:S0035402 x 09R1487:0015103
        09R201:S0035403 x 09R1487:0015111
        09R201:S0035416 x 09R1487:0015115
      ]
        09R201:S0041402 x 09R1487:0015111
        09R201:S0041404 x 09R1487:0015115
      ]
        09R201:S0042309 x 09R1487:0015103
        09R201:S0042311 x 09R1487:0015111
          10R205:S0001701 x 10R2209:0017703
          10R205:S0001705 x 10R2209:0017706
            11N205:S0037001 x 11N3407:0008906
              12R205:S0000416 x 12R3570:0020008
                17],12r/bet/6.8-[72],12r/bet/8.8-[130]]
              12R205:S0002203 x 12R3570:0020009
                23,2326],12r/bet/6.8-[73]]
                12N205:S0035803 x 12N3921:0011913
                12N205:S0035806 x 12N3921:0011902
                12N205:S0038508 x 12N3921:0011908
                  13R4080:0005013 x 13R4080:0005014
                    1741],13r/bet/12.7-[1086],13r/bet/16.7-[1197],13r/bet/19.7-[1344],13r/bet/22.7-[1478],13r/bet/27.7-[1628]]
                    13R4080:0005014 x 13R4080:0005014
                      1741],13r/bet/12.7-[1086],13r/bet/16.7-[1197],13r/bet/19.7-[1344],13r/bet/22.7-[1478],13r/bet/27.7-[1628]]
                      : [13r/bet/1.8-[1741],13r/bet/12.7-[1086],13r/bet/16.7-[1197],13r/bet/19.7-[1344],13r/bet/22.7-[1478],13r/bet/27.7-[1628]]
                      13R4080:0005015 x 13R4080:0005014
                        1741],13r/bet/12.7-[1086],13r/bet/16.7-[1197],13r/bet/19.7-[1344],13r/bet/22.7-[1478],13r/bet/27.7-[1628]]
                        14R4080:0008508 x 14R4080:0008505
                          [2162]]
                          14R4080:0008509 x 14R4080:0008505
                            [2162]]
                            14R4080:0008510 x 14R4080:0008505
                              [2162]]
                              14R4080:0008512 x 14R4080:0008505
                                13R4080:0005014: [13r/bet/1.8-[
                                13R4080:0005014: [13r/bet/1.8-[
                                13R4080:0005014: [13r/bet/1.8-[
                                14R4080:0008505: [14r/bet/17.8-
                                14R4080:0008505: [14r/bet/17.8-
                                14R4080:0008505: [14r/bet/17.8-
                                14R4080:0008505: [14r/bet/17.8-
```

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les2-\_w23

Fri Jun 01 16:28:50 2018

2

[2162]]  
14R4080:0008513 x 14R4080:0008505 14R4080:0008505: [14r/bet/17.8-  
[2162]] 14R4080:0008516 x 14R4080:0008505 14R4080:0008505: [14r/bet/17.8-  
[2162]] 14R505:B0002303 x 14R4080:0008505 14R4080:0008505: [14r/bet/17.8-  
[2162]] 14R505:B0002314 x 14R4080:0008505 14R4080:0008505: [14r/bet/17.8-  
[2162]]  
12R205:S0004001 x 12R3570:0020009 12R3570:0020009: [12r/aleph/17.8-[2320,23  
23,2326],12r/bet/6.8-[73]]  
12R3570:0020008 x 12R3570:0020008 12R3570:0020008: [12r/aleph/17.8-[2315,23  
17],12r/bet/6.8-[72],12r/bet/8.8-[130]] 12R3570:0020008: [12r/aleph/17.8-[2315,2317],12r/bet/6.8-[72],12r/bet/8.8-[130]]  
12N3922:0012001 x 12N3922:0012008 12N3922:0012001: [12n/bet/10.1-[648]  
] 12N3922:0012008: [12n/bet/10.1-[651]]  
12R3570:0020009 x 12R3570:0020009 12R3570:0020009: [12r/aleph/17.8-[2320,23  
23,2326],12r/bet/6.8-[73]] 12R3570:0020009: [12r/aleph/17.8-[2320,2323,2326],12r/bet/6.8-[73]]  
12R503:B0012201 x 12R3570:0020009 12R3570:0020009: [12r/aleph/17.8-[2320,23  
23,2326],12r/bet/6.8-[73]]  
12R503:B0012703 x 12R3570:0020008 12R3570:0020008: [12r/aleph/17.8-[2315,23  
17],12r/bet/6.8-[72],12r/bet/8.8-[130]]  
12R503:B0012708 x 12R3570:0020002 12R3570:0020002: [12r/aleph/17.8-[2303,23  
06,2309,2312]]  
11N205:S0039111 x 11N3407:0008908  
11N205:S0039112 x 11N3407:0008910  
09R201:S0042316 x 09R1487:0015115 09R1487:0015115: [09r/bet/1.9-[152],09r/gimmel/25.8-[51]  
]  
07R301:W0029616 x 07R2752:0039005 07R2752:0039005: [07r/gimmel/11.8-[259,260,261]]  
09R301:W0044306 x 09R1787:0015203 09R1787:0015203: [09r/bet/1.9-[165],09r/gimmel/25.8-[58]  
]  
10R305:W0002404 x 10R2229:0017801 10R2229:0017801: [10r/gimmel/9.8-[53]]  
10R305:W0003611 x 10R2229:0017808 10R2229:0017808: [10r/gimmel/9.8-[54]]  
10R305:W0006204 x 10R2229:0017801 10R2229:0017801: [10r/gimmel/9.8-[53]]  
11R305:W0052105 x 11R3249:0054802 11R3249:0054802: [11r/aleph/18.8-[1018]]  
11N305:W0031109 x 11N3408:0009003 ]b  
12N3571:0012501 x 12N3571:0012502 (7)  
13R4109:0011304 x 13R4110:0011603 13R4109:0011304: [13r/bet/6.8-[  
1842,1843]] 13R4110:0011603: [13r/bet/17.7-[1246],13r/bet/22.7-[1518],13r/bet/27.7-[1668]]  
13R4110:0011603 x 13R4109:0011304 13R4110:0011603: [13r/bet/17.7-  
[1246],13r/bet/22.7-[1518],13r/bet/27.7-[1668]] 13R4109:0011304: [13r/bet/6.8-[1842,1843]]  
13R4110:0011606 x 13R4111:0011915 13R4110:0011606: [13r/bet/6.8-[  
1838,1839]]  
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 x 13R4112:0012305 13R4110:0011618: [13r/bet/17.7-  
[1250],13r/bet/22.7-[1522],13r/bet/27.7-[1672]]  
13R4110:0011718 x 13R4111:0012101

les2-\_w23

Fri Jun 01 16:28:50 2018

3

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13R4110:0011810 x 13R4112:0012401 13R4110:0011810: [13r/bet/17.7-
[1256],13r/bet/22.7-[1528],13r/bet/27.7-[1678]]
13R4111:0012006 x 13R4110:0011810 13R4110:0011810: [13r/bet/17.7-
[1256],13r/bet/22.7-[1528],13r/bet/27.7-[1678]]
13R4111:0012101 x 13R4110:0011718
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]]
12N3571:0012506 x 12N3571:0012503
12N3571:0012508 x 12N3571:0012504
12N504:B0039702 x 12N3571:0012504
12N504:B0039804 x 12N3571:0012503
12N504:B0040501 x 12N3571:0012502
12R3571:0020102 x 12R3571:0020102 12R3571:0020102: [12r/bet/6.8-[74],1
2r/bet/8.8-[131]] 12R3571:0020102: [12r/bet/6.8-[74],12r/bet/8.8-[131]]
12N305:W0036206 x 12N3925:0012912
12N305:W0036209 x 12N3925:0012909
12N3925:0012907 x 12N3925:0012902
12R3571:0020104 x 12R3571:0020104 12R3571:0020104: [12r/bet/6.8-[75],1
2r/bet/8.8-[137]] 12R3571:0020104: [12r/bet/6.8-[75],12r/bet/8.8-[137]]
13R3571:0005105 x 13R3571:0005102 13R3571:0005105: [13r/bet/12.7-[1089
],13r/bet/16.7-[1200],13r/bet/19.7-[1355],13r/bet/22.7-[1481],13r/bet/27.7-[1631]] 13R3571:0005102: [13r/bet/12.7-[1088],1
3r/bet/16.7-[1199],13r/bet/19.7-[1354],13r/bet/22.7-[1480],13r/bet/27.7-[1630]]
14R3571:0008601 x 14R3571:0008613 14R3571:0008613: [14r/bet/17.8-[2164
]]
14R3571:0008602 x 14R3571:0008613 14R3571:0008613: [14r/bet/17.8-[2164
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14R3571:0008603 x 14R3571:0008616 14R3571:0008616: [14r/bet/17.8-[2169
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14R3571:0008604 x 14R3571:0008616 14R3571:0008616: [14r/bet/17.8-[2169
]]
14R3571:0008607 x 14R3571:0008616 14R3571:0008616: [14r/bet/17.8-[2169
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14R3571:0008609 x 14R3571:0008616 14R3571:0008616: [14r/bet/17.8-[2169
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14R3571:0008610 x 14R3571:0008616 14R3571:0008616: [14r/bet/17.8-[2169
]]
14R3571:0008612 x 14R3571:0008616 14R3571:0008616: [14r/bet/17.8-[2169
]]
14R3571:0008614 x 14R3571:0008616 14R3571:0008616: [14r/bet/17.8-[2169
]]
14R3571:0008616 x 14R3571:0008616 14R3571:0008616: [14r/bet/17.8-[2169
]] 14R3571:0008616: [14r/bet/17.8-[2169]]
14R3571:0008617 x 14R3571:0008616 14R3571:0008616: [14r/bet/17.8-[2169
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14R3571:0008618 x 14R3571:0008616 14R3571:0008616: [14r/bet/17.8-[2169
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11N305:W0031110 x 11N3408:0009005  
11N305:W0031112 x 11N3408:0009009  
11N3408:0009003 x 11N3408:0009003  
12N305:W0036201 x 12N3572:0012601  
12N305:W0036211 x 12N3572:0012612  
12N305:W0036802 x 12N3572:0012608  
12N3572:0012610 x 12N3572:0012603  
11N3408:0009005 x 11N3408:0009005  
12N305:W0036212 x 12N3573:0012702  
11N3408:0009009 x 11N3408:0009009  
12N305:W0036213 x 12N3574:0012806

07R401:M0025509 x 07R2752:0039005 07R2752:0039005: [07r/gimmel/11.8-[259,260,261]]  
09R401:M0042702 x 09R2022:0015306 09R2022:0015306: [09r/bet/1.9-[192]]  
09R401:M0044103 x 09R2022:0015304 09R2022:0015304: [09r/bet/1.9-[174]]  
09R401:M0044108 x 09R2022:0015305 09R2022:0015305: [09r/bet/1.9-[181]]  
10R405:M0000411 x 10R2230:0017902 10R2230:0017902: [10r/gimmel/9.8-[56]]

11N405:M0031303 x 11N3250:0009103  
11N405:M0031306 x 11N3250:0009103

12R3575:0020504 x 12R3575:0020504

t/8.8-[139]] 12R3575:0020504: [12r/bet/6.8-[76],12r/bet/8.8-[139]]

12R3575:0020505 x 12R3575:0020505

t/8.8-[140]] 12R3575:0020505: [12r/bet/6.8-[77],12r/bet/8.8-[140]]

12R3575:0020507 x 12R3575:0020507

t/8.8-[141]] 12R3575:0020507: [12r/bet/6.8-[78],12r/bet/8.8-[141]]

12R405:M0007001 x 12R3575:0020504

t/8.8-[139]]

12R405:M0007007 x 12R3575:0020507

t/8.8-[141]]

12R405:M0007010 x 12R3575:0020505

t/8.8-[140]]

13R405:M0002602 x 13R4081:0005403 13R4081:0005403: [13r/bet/1.8-[1735]  
,13r/bet/12.7-[1103],13r/bet/16.7-[1213],13r/bet/19.7-[1368],13r/bet/22.7-[1494],13r/bet/27.7-[1644]]

[2168]]

[2168]]

[2168]]

[2168]]

[2168]]

[2168]]

[2168]]

14R4226:0009003 x 14R4226:0009011

14R4226:0009011: [14r/bet/17.8-

14R4226:0009005 x 14R4226:0009011

14R4226:0009011: [14r/bet/17.8-

14R4226:0009006 x 14R4226:0009011

14R4226:0009011: [14r/bet/17.8-

14R4226:0009007 x 14R4226:0009011

14R4226:0009011: [14r/bet/17.8-

14R4226:0009009 x 14R4226:0009011

14R4226:0009011: [14r/bet/17.8-

14R4226:0009012 x 14R4226:0009011

14R4226:0009011: [14r/bet/17.8-

14R4226:0009013 x 14R4226:0009011

14R4226:0009011: [14r/bet/17.8-

14R505:B0002012 x 14R4226:0009011

14R4226:0009011: [14r/bet/17.8-

[2168]]

13R405:M0002603 x 13R4081:0005403

13R4081:0005403: [13r/bet/1.8-[1735]

,13r/bet/12.7-[1103],13r/bet/16.7-[1213],13r/bet/19.7-[1368],13r/bet/22.7-[1494],13r/bet/27.7-[1644]]

13R405:M0002604 x 13R4081:0005403

13R4081:0005403: [13r/bet/1.8-[1735]

,13r/bet/12.7-[1103],13r/bet/16.7-[1213],13r/bet/19.7-[1368],13r/bet/22.7-[1494],13r/bet/27.7-[1644]]

11N405:M0031309 x 11N3250:0009103

11R405:M0051309 x 11R3250:0054904

11R3250:0054904: [11r/aleph/18.8-[1027]]

10R405:M0006907 x 10R2230:0017908

10R2230:0017908: [10r/gimmel/9.8-[57]]

06N301:W0007510 x 06N1343:0014511

07R201:S0025301 x 07R2748:0039402

07R301:W0025110 x 07R2748:0039402

07R301:W0029610 x 07R2748:0039402

07R401:M0029411 x 07R2748:0039404

07R401:M0029412 x 07R2748:0039402

06N301:W0007804 x 06N1343:0014502

07R201:S0028203 x 07R2753:0038902

07R2753:0038902: [07r/gimmel/11.8-[256,257,258]]

07R201:S0034304 x 07R2753:0038902

07R2753:0038902: [07r/gimmel/11.8-[256,257,258]]

07R301:W0028112 x 07R2753:0038902

07R2753:0038902: [07r/gimmel/11.8-[256,257,258]]

07R301:W0034402 x 07R2753:0038902

07R2753:0038902: [07r/gimmel/11.8-[256,257,258]]

07R401:M0029402 x 07R2753:0038904

07R401:M0034503 x 07R2753:0038902

07R2753:0038902: [07r/gimmel/11.8-[256,257,258]]

06N301:W0008403 x 06N1343:0014501

07R301:W0028107 x 07R2754:0038808

07R2754:0038808: [07r/gimmel/11.8-[253,254,255]]

07R401:M0029404 x 07R2754:0038808

07R2754:0038808: [07r/gimmel/11.8-[253,254,255]]

06N301:W0008404 x 06N1343:0014507

06R0020:0002007 x 06R0020:0002003

06N201:S0013704 x 06N1342:0014404

06N301:W0005702 x 06N1342:0014404

07R201:S0029811 x 07R2758:0039501

07R301:W0027809 x 07R2758:0039501

07R301:W0029909 x 07R2758:0039501

06N301:W0005703 x 06N1342:0014410

06N301:W0009903 x 06N1342:0014410

06R0020:0002008 x 06R0020:0002011

06N301:W0008407 x 06N1344:0014604

07R201:S0027006 x 07R2761:0039810

07R301:W0022401 x 07R2761:0039810

07R301:W0034411 x 07R2761:0039810

07R401:M0032501 x 07R2761:0039810

06N301:W0011102 x 06N1344:0014606

06N301:W0011109 x 06N1344:0014612

06R300:W00I7713 x 06R0020:0002009

07R201:S0034615 x 07R1303:0039703

07R301:W0034412 x 07R1303:0039703

07R401:M0032504 x 07R1303:0039703

07R401:M0034505 x 07R1303:0039703

les2-\_w23

Fri Jun 01 16:28:50 2018

6

06R400:M00I7803 x 06R0020:0002003

06R400:M00I7807 x 06R0020:0002009