

les6-\_w23            Fri Jun 01 16:28:50 2018            1

% this is ../../crops/18r/planning/current\_pedigrees/primary\_dominants/les6-\_w23  
% generated Friday, June 01, 2018 at 21:28:50 UTC (=1527888530.819505) 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/Les6-

```
06R0022:0000000 x 06R0022:0000000
  06R0022:0002205 x 06R0022:0002202
    06N301:W0011405 x 06N1347:0014801
    06N301:W0034809 x 06N1347:0014804
      09R201:S0033103 x 09R2775:0018510
      09R201:S0040804 x 09R2775:0018515
        10R205:S0000808 x 10R3006:0021004          10R3006:0021004: [10r/gimmel/9.8-[145]]
        10R205:S0002011 x 10R3006:0021008          10R3006:0021008: [10r/gimmel/9.8-[147]]
          11R205:S0052010 x 11R3309:0018805          11R3309:0018805: [11r/aleph/18.8-[1083]]
          11R205:S0052011 x 11R3309:0018803          11R3309:0018803: [11r/aleph/18.8-[1080]]
          11R205:S0052014 x 11R3309:0018801          11R3309:0018801: [11r/aleph/18.8-[1081]]
            11N205:S0032702 x 11N3435:0013101
              12R205:S0003409 x 12R3601:0025112
                12N205:S0036101 x 12N3965:0020601          12N3965:0020601: [12n/bet/14.1-[899]]
                12N205:S0037003 x 12N3965:0020602          12N3965:0020602: [12n/bet/14.1-[900]]
                12N205:S0037004 x 12N3965:0020603          12N3965:0020603: [12n/bet/14.1-[901]]
                12N205:S0038202 x 12N3965:0020603          12N3965:0020603: [12n/bet/14.1-[901]]
                12N205:S0038208 x 12N3965:0020603          12N3965:0020603: [12n/bet/14.1-[901]]
                13R4088:0007001 x 13R4088:0007005          13R4088:0007005: [13r/bet/1.8-[
1778]]
                13R4088:0007010 x 13R4088:0007005          13R4088:0007005: [13r/bet/1.8-[
1778]]
                13R504:B0003003 x 13R4088:0007005          13R4088:0007005: [13r/bet/1.8-[
1778]]
                14R205:S0000606 x 14R4088:0011401          14R4088:0011401: [14r/bet/20.8-
[2226]]
                14R205:S0000609 x 14R4088:0011401          14R4088:0011401: [14r/bet/20.8-
[2226]]
                14R205:S0000612 x 14R4088:0011401          14R4088:0011401: [14r/bet/20.8-
[2226]]
                14R4088:0011403 x 14R4088:0011401          14R4088:0011401: [14r/bet/20.8-
[2226]]
                14R4088:0011404 x 14R4088:0011401          14R4088:0011401: [14r/bet/20.8-
[2226]]
```

les6-\_w23

Fri Jun 01 16:28:50 2018

2

```
14R4088:0011405 x 14R4088:0011401      14R4088:0011401: [14r/bet/20.8-
[2226]]
14R4088:0011408 x 14R4088:0011401      14R4088:0011401: [14r/bet/20.8-
[2226]]
14R4088:0011409 x 14R4088:0011401      14R4088:0011401: [14r/bet/20.8-
[2226]]
14R4088:0011411 x 14R4088:0011401      14R4088:0011401: [14r/bet/20.8-
[2226]]
14R4088:0011412 x 14R4088:0011401      14R4088:0011401: [14r/bet/20.8-
[2226]]
14R4088:0011413 x 14R4088:0011401      14R4088:0011401: [14r/bet/20.8-
[2226]]
14R4088:0011414 x 14R4088:0011401      14R4088:0011401: [14r/bet/20.8-
[2226]]
14R4088:0011416 x 14R4088:0011401      14R4088:0011401: [14r/bet/20.8-
[2226]]
12R205:S0003411 x 12R3601:0025104      12R3601:0025104: [12r/bet/3.8-[46]]
12R205:S0003704 x 12R3601:0025109      12R3601:0025109: [12r/bet/3.8-[47],12r/be
t/8.8-[169]]
12R3601:0025109 x 12R3601:0025109      12R3601:0025109: [12r/bet/3.8-[47],12r/be
t/8.8-[169]] 12R3601:0025109: [12r/bet/3.8-[47],12r/bet/8.8-[169]]
11N205:S0037907 x 11N3435:0013111
11N205:S0039005 x 11N3435:0013110
10R205:S0007907 x 10R3006:0021001      10R3006:0021001: [10r/gimmel/9.8-[144]]
09R201:S0040808 x 09R2775:0018502
09R301:W0033206 x 09R2775:0018510
10R305:W0001207 x 10R2237:0021106      10R2237:0021106: [10r/gimmel/9.8-[148]]
11R305:W0052109 x 11R3256:0018907      11R3256:0018907: [11r/aleph/18.8-[1082]]
11N305:W0030804 x 11N3436:0013209
12R305:W0000208 x 12R3602:0025213      12R3602:0025213: [12r/bet/3.8-[58],12r/be
t/8.8-[173]]
12N3966:0020701 x 12N3966:0020701      12N3966:0020701: [12n/bet/14.1-[902]]
] 12N3966:0020701: [12n/bet/14.1-[902]]
12N3966:0020703 x 12N3966:0020707      12N3966:0020707: [12n/bet/14.1-[904]]
]
13R4109:0011306 x 13R4111:0011911      13R4111:0011911: [13r/bet/6.8-[
1829,1831]]
13R4110:0011606 x 13R4111:0011915      13R4110:0011606: [13r/bet/6.8-[
1838,1839]]
13R4110:0011718 x 13R4111:0012101
13R4111:0011911 x 13R4109:0011306      13R4111:0011911: [13r/bet/6.8-[
1829,1831]]
13R4111:0011916 x 13R4112:0012309
13R4111:0012006 x 13R4110:0011810      13R4110:0011810: [13r/bet/17.7-
[1256],13r/bet/22.7-[1528],13r/bet/27.7-[1678]]
13R4111:0012009 x 13R4112:0012407
13R4111:0012010 x 13R4112:0012205
```

```
13R4111:0012101 x 13R4110:0011718
13R4111:0012108 x 13R4112:0012217
13R4111:0012111 x 13R4112:0012219
13R4112:0012205 x 13R4111:0012010
13R4112:0012208 x 13R4111:0012006
13R4112:0012217 x 13R4111:0012108
13R4112:0012219 x 13R4111:0012111
13R4112:0012401 x 13R4111:0012112
13R4112:0012404 x 13R4111:0012003
13R4112:0012407 x 13R4111:0012009
12N3966:0020706 x 12N3966:0020701 12N3966:0020701: [12n/bet/14.1-[902]
]
12N3966:0020709 x 12N3966:0020705
12N3966:0020711 x 12N3966:0020705
12N3966:0020712 x 12N3966:0020707 12N3966:0020707: [12n/bet/14.1-[904]
]
12N504:B0040812 x 12N3966:0020707 12N3966:0020707: [12n/bet/14.1-[904]
]
13R3966:0007103 x 13R3966:0007109 13R3966:0007109: [13r/bet/1.8-[1749]
]
13R3966:0007104 x 13R3966:0007109 13R3966:0007109: [13r/bet/1.8-[1749]
]
13R3966:0007106 x 13R3966:0007109 13R3966:0007109: [13r/bet/1.8-[1749]
]
13R3966:0007114 x 13R3966:0007109 13R3966:0007109: [13r/bet/1.8-[1749]
]
13R3966:0007115 x 13R3966:0007109 13R3966:0007109: [13r/bet/1.8-[1749]
]
14R3966:0011502 x 14R3966:0011503 14R3966:0011503: [14r/bet/20.8-[2234
]]
14R3966:0011503 x 14R3966:0011503 14R3966:0011503: [14r/bet/20.8-[2234
]] 14R3966:0011503: [14r/bet/20.8-[2234]]
14R3966:0011504 x 14R3966:0011503 14R3966:0011503: [14r/bet/20.8-[2234
]]
14R3966:0011507 x 14R3966:0011503 14R3966:0011503: [14r/bet/20.8-[2234
]]
14R3966:0011508 x 14R3966:0011503 14R3966:0011503: [14r/bet/20.8-[2234
]]
14R3966:0011510 x 14R3966:0011503 14R3966:0011503: [14r/bet/20.8-[2234
]]
14R3966:0011511 x 14R3966:0011503 14R3966:0011503: [14r/bet/20.8-[2234
]]
14R3966:0011512 x 14R3966:0011503 14R3966:0011503: [14r/bet/20.8-[2234
]]
14R3966:0011514 x 14R3966:0011503 14R3966:0011503: [14r/bet/20.8-[2234
]]
14R3966:0011519 x 14R3966:0011503 14R3966:0011503: [14r/bet/20.8-[2234
]]
```

]]

12R305:W0003808 x 12R3602:0025203

12R305:W0004120 x 12R3602:0025206

12R3602:0025206: [12r/bet/3.8-[57],12r/be

t/8.8-[171]]

12R305:W0011615 x 12R3602:0025202

12R305:W0011617 x 12R3602:0025202

12R3602:0025206 x 12R3602:0025206

12R3602:0025206: [12r/bet/3.8-[57],12r/be

t/8.8-[171]] 12R3602:0025206: [12r/bet/3.8-[57],12r/bet/8.8-[171]]

12N305:W0035911 x 12N3967:0020810

12R3602:0025213 x 12R3602:0025213

12R3602:0025213: [12r/bet/3.8-[58],12r/be

t/8.8-[173]] 12R3602:0025213: [12r/bet/3.8-[58],12r/bet/8.8-[173]]

12R503:B0011910 x 12R3602:0025202

11N305:W0039502 x 11N3436:0013208

10R305:W0003607 x 10R2237:0021113

10R2237:0021113: [10r/gimmel/9.8-[151]]

09R301:W0041009 x 09R2775:0018515

09R301:W0041010 x 09R2775:0018502

09R401:M0033006 x 09R2775:0018510

09R401:M0040506 x 09R2775:0018515

09R401:M0040507 x 09R2775:0018502

10R405:M0000412 x 10R3007:0021212

10R3007:0021212: [10r/gimmel/10.8-[157]]

10R405:M0000706 x 10R3007:0021207

10R3007:0021207: [10r/gimmel/10.8-[155]]

10R405:M0005312 x 10R3007:0021203

10R3007:0021203: [10r/gimmel/10.8-[153]]

11R405:M0051005 x 11R3310:0019006

11R3310:0019006: [11r/aleph/18.8-[1087]]

11N405:M0035705 x 11N3437:0013304

12R405:M0001802 x 12R3603:0025310

12R3603:0025310: [12r/aleph/9.8-[1992]]

12R405:M0008708 x 12R3603:0025312

12R3603:0025312: [12r/aleph/9.8-[1985]]

15R405:M0001104 x 15R4354:0011306

15R4354:0011306: [15r/bet/8.8-[2592]]

]

15R405:M0001302 x 15R4354:0011306

15R4354:0011306: [15r/bet/8.8-[2592]]

]

12R405:M0008709 x 12R3603:0025309

12R3603:0025309: [12r/aleph/9.8-[1996]]

15R405:M0001205 x 15R4355:0011403

15R4355:0011403: [15r/bet/8.8-[2589]]

]

15R405:M0001212 x 15R4355:0011403

15R4355:0011403: [15r/bet/8.8-[2589]]

]

12R405:M0011111 x 12R3603:0025303

15R405:M0001206 x 15R4277:0011512

15R405:M0001215 x 15R4277:0011507

15R4277:0011507: [15r/bet/8.8-[2594]]

]

15R405:M0001313 x 15R4277:0011507

15R4277:0011507: [15r/bet/8.8-[2594]]

]

15R405:M0001406 x 15R4277:0011501

15R405:M0001412 x 15R4277:0011505

11N405:M0035706 x 11N3437:0013304

09R401:M0045411 x 09R2775:0018515

06R0022:0002211 x 06R0022:0002212

06N301:W0006601 x 06N1346:0014711

les6-\_w23

Fri Jun 01 16:28:50 2018

5

06N301:W0008408 x 06N1346:0014703

06N301:W0008409 x 06N1346:0014707

06N301:W0011101 x 06N1346:0014710

09R201:S0033109 x 09R2790:0018908

09R201:S0034811 x 09R2790:0018902

10R205:S0002309 x 10R3008:0021414

10R3008:0021414: [10r/gimmel/10.8-[170]]

11R205:S0051811 x 11R3311:0019405

11R3311:0019405: [11r/aleph/18.8-[1079]]

11N205:S0038707 x 11N3438:0013407

12R205:S0001915 x 12R3604:0025403

12R3604:0025403: [12r/aleph/9.8-[2006]]

12N205:S0036703 x 12N3970:0021101

12N205:S0041601 x 12N3970:0021101

12N205:S0041602 x 12N3970:0021101

13R4089:0007204 x 13R4089:0007201

13R4089:0007201: [13r/bet/1.8-[

1750]]

13R4089:0007206 x 13R4089:0007201

13R4089:0007201: [13r/bet/1.8-[

1750]]

13R4089:0007210 x 13R4089:0007210

13R4089:0007211 x 13R4089:0007201

13R4089:0007201: [13r/bet/1.8-[

1750]]

13R4089:0007212 x 13R4089:0007210

13R4089:0007213 x 13R4089:0007210

13R4089:0007215 x 13R4089:0007210

13R504:B0003205 x 13R4089:0007201

13R4089:0007201: [13r/bet/1.8-[

1750]]

13R504:B0003206 x 13R4089:0007210

13R504:B0003307 x 13R4089:0007201

13R4089:0007201: [13r/bet/1.8-[

1750]]

13R504:B0003310 x 13R4089:0007210

14R4089:0011607 x 14R4089:0011616

14R4089:0011616: [14r/bet/20.8-

[2230]]

14R4089:0011608 x 14R4089:0011616

14R4089:0011616: [14r/bet/20.8-

[2230]]

14R4089:0011609 x 14R4089:0011616

14R4089:0011616: [14r/bet/20.8-

[2230]]

14R4089:0011612 x 14R4089:0011616

14R4089:0011616: [14r/bet/20.8-

[2230]]

12R205:S0001918 x 12R3604:0025401

12R3604:0025401: [12r/aleph/9.8-[2021]]

11N205:S0039010 x 11N3438:0013410

11N205:S0039103 x 11N3438:0013406

10R205:S0002310 x 10R3008:0021409

10R3008:0021409: [10r/gimmel/10.8-[166]]

10R205:S0007908 x 10R3008:0021412

10R3008:0021412: [10r/gimmel/10.8-[167]]

09R301:W0034705 x 09R2790:0018902

09R301:W0035906 x 09R2790:0018908

10R205:S0002305 x 10R2238:0021306

10R2238:0021306: [10r/gimmel/10.8-[165]]

10R305:W0001517 x 10R2238:0021305

10R2238:0021305: [10r/gimmel/10.8-[161]]

11N305:W0037108 x 11N3257:0013507

12R305:W0000511 x 12R3605:0025504

12R3605:0025504: [12r/aleph/9.8-[2023]]

12N305:W0037407 x 12N3971:0021212

14R4090:0011701 x 14R4090:0011711

14R4090:0011711: [14r/bet/20.8-[2237

]]

14R4090:0011702 x 14R4090:0011711

14R4090:0011711: [14r/bet/20.8-[2237

]]

14R4090:0011703 x 14R4090:0011711

14R4090:0011711: [14r/bet/20.8-[2237

]]

14R4090:0011704 x 14R4090:0011711

14R4090:0011711: [14r/bet/20.8-[2237

]]

14R4090:0011709 x 14R4090:0011711

14R4090:0011711: [14r/bet/20.8-[2237

]]

14R4090:0011711 x 14R4090:0011711

14R4090:0011711: [14r/bet/20.8-[2237

]]

14R4090:0011711: [14r/bet/20.8-[2237]]

14R4090:0011712 x 14R4090:0011711

14R4090:0011711: [14r/bet/20.8-[2237

]]

14R4090:0011714 x 14R4090:0011711

14R4090:0011711: [14r/bet/20.8-[2237

]]

14R4090:0011717 x 14R4090:0011711

14R4090:0011711: [14r/bet/20.8-[2237

]]

14R505:B0002104 x 14R4090:0011711

14R4090:0011711: [14r/bet/20.8-[2237

]]

14R505:B0002302 x 14R4090:0011711

14R4090:0011711: [14r/bet/20.8-[2237

]]

12N305:W0037705 x 12N3971:0021205

12R305:W0000513 x 12R3605:0025505

12R3605:0025505: [12r/aleph/9.8-[2022]]

12R305:W0002903 x 12R3605:0025505

12R3605:0025505: [12r/aleph/9.8-[2022]]

12R305:W0002905 x 12R3605:0025504

12R3605:0025504: [12r/aleph/9.8-[2023]]

12R305:W0002906 x 12R3605:0025510

12R3605:0025510: [12r/aleph/9.8-[2015]]

11N305:W0038302 x 11N3257:0013502

11N305:W0040111 x 11N3257:0013503

11R305:W0051511 x 11R3257:0055301

11R3257:0055301: [11r/aleph/18.8-[1022]]

10R305:W0001812 x 10R2238:0021303

10R2238:0021303: [10r/gimmel/10.8-[159]]

09R401:M0033308 x 09R2790:0018908

10R405:M0005308 x 10R3005:0020112

10R3005:0020112: [10r/gimmel/9.8-[120]]

10R405:M0006601 x 10R3005:0020107

10R3005:0020107: [10r/gimmel/9.8-[118]]

11R405:M0051303 x 11R3308:0019603

11R3308:0019603: [11r/aleph/18.8-[1096]]

11R405:M0051306 x 11R3308:0019606

12R405:M0001512 x 12R3439:0025603

12R405:M0003909 x 12R3439:0025603

12R405:M0008706 x 12R3439:0025605

14R405:M0001101 x 14R4278:0020905

16R405:M0001811 x 16R4356:0010005

16R4356:0010005: [16r/gimmel/26.7-[1

34]]

17R4561:0006001 x 17R4561:0006004

17R4561:0006004: [17r/gimmel/1.

8-[291]]

17R4561:0006002 x 17R4561:0006004

17R4561:0006004: [17r/gimmel/1.

8-[291]]

les6-\_w23

Fri Jun 01 16:28:50 2018

7

8-[291]]

17R4561:0006005 x 17R4561:0006004

17R4561:0006004: [17r/gimmel/1.

8-[291]]

17R4561:0006007 x 17R4561:0006004

17R4561:0006004: [17r/gimmel/1.

8-[291]]

17R4561:0006009 x 17R4561:0006004

17R4561:0006004: [17r/gimmel/1.

8-[291]]

17R4561:0006010 x 17R4561:0006004

17R4561:0006004: [17r/gimmel/1.

8-[291]]

17R4561:0006014 x 17R4561:0006004

17R4561:0006004: [17r/gimmel/1.

8-[291]]

17R505:B0002801 x 17R4561:0006004

17R4561:0006004: [17r/gimmel/1.

8-[291]]

17R505:B0002802 x 17R4561:0006004

17R4561:0006004: [17r/gimmel/1.

8-[291]]

17R505:B0002803 x 17R4561:0006004

17R4561:0006004: [17r/gimmel/1.

20,130]]

16R405:M0001812 x 16R4356:0010008

16R4356:0010008: [16r/gimmel/26.7-[1

14R405:M0001113 x 14R4278:0020905

14R405:M0001506 x 14R4278:0020905

12R405:M0009312 x 12R3439:0025606

11R405:M0051307 x 11R3308:0019613

10R405:M0006603 x 10R3005:0020108

10R3005:0020108: [10r/gimmel/9.8-[119]]

09R401:M0034903 x 09R2790:0018902

06R300:W00I8010 x 06R0022:0002210

07R201:S0030711 x 07R1309:0046308

07R1309:0046308: [07r/gimmel/10.8-[253,255,256]]

07R301:W0028408 x 07R1309:0046308

07R1309:0046308: [07r/gimmel/10.8-[253,255,256]]

07R401:M0029709 x 07R1309:0046308

07R1309:0046308: [07r/gimmel/10.8-[253,255,256]]

06R400:M00I8103 x 06R0022:0002207

06R400:M00I8108 x 06R0022:0002210

07G301:W0000802 x 07G1170:0001203

!!!

07G401:M0000607 x 07G1170:0001203