% this is ../../crops/18r/planning/current_pedigrees/primary_recessives/les3-gj-k11900_+
% generated Friday, June 01, 2018 at 21:28:51 UTC (=1527888531.019318) 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

% +/Les3-GJ-K11900

```
 07R0119:0000000 x 07R0119:0000000
       07G0119:0001402 x 07G0119:0001402     !!!
       07G0119:0001403 x 07G0119:0001403
             09R201:S0040801 x 09R2213:0015603
             09R201:S0042302 x 09R2213:0015602
             09R201:S0042308 x 09R2213:0015606
             09R301:W0041613 x 09R2213:0015603
             09R301:W0042207 x 09R2213:0015606
             09R401:M0040504 x 09R2213:0015603
             09R401:M0042410 x 09R2213:0015602
             09R401:M0044101 x 09R2213:0015606
             12N405:M0039009 x 12N2213:0014803
       07G0119:0001404 x 07G0119:0001404
       07G0119:0001405 x 07G0119:0001405
       07G0119:0001406 x 07G0119:0001406
             12N205:S0037312 x 12N2216:0014913
                 13R4128:0016101 x 13R4128:0016101
                 13R4128:0016106 x 13R4128:0016106
                     14R205:S0000302 x 14R4253:0019009        14R4253:0019009: [14r/bet/22.8-[2294]]
                         15R4374:0007503 x 15R4374:0007503
                             16R205:S0001112 x 16R4478:0005404        16R4478:0005404: [16r/gimmel/30.7-[269]]
                                 17R4627:0013801 x 17R4627:0013801
                                 17R4627:0013802 x 17R4627:0013802
                                 17R4627:0013805 x 17R4627:0013805
                                 17R4627:0013809 x 17R4627:0013809
                             16R205:S0001115 x 16R4478:0005404        16R4478:0005404: [16r/gimmel/30.7-[269]]
                             16R205:S0001312 x 16R4478:0005401        16R4478:0005401: [16r/gimmel/26.7-[91]]
                             16R205:S0001314 x 16R4478:0005401        16R4478:0005401: [16r/gimmel/26.7-[91]]
                         15R4374:0007507 x 15R4374:0007507
                         15R4374:0007509 x 15R4374:0007509
                     14R205:S0000314 x 14R4253:0019009        14R4253:0019009: [14r/bet/22.8-[2294]]
                     14R205:S0000411 x 14R4253:0019006        14R4253:0019006: [14r/bet/22.8-[2273]]
                         15R4345:0007602 x 15R4345:0007602
                             16R205:S0001107 x 16R4479:0005506        16R4479:0005506: [16r/gimmel/26.7-[116]]
                             16R205:S0001212 x 16R4479:0005503        16R4479:0005503: [16r/gimmel/26.7-[115]]
                         15R4345:0007605 x 15R4345:0007605
                         15R4345:0007609 x 15R4345:0007609
                     14R205:S0000414 x 14R4253:0019006        14R4253:0019006: [14r/bet/22.8-[2273]]
                 13R4128:0016107 x 13R4128:0016107
```

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                13R4128:0016109 x 13R4128:0016109
                13R4128:0016114 x 13R4128:0016114
         12N305:W0043205 x 12N2216:0014913
                13R4129:0016205 x 13R4129:0016205
                   14R305:W0000911 x 14R4254:0019102          14R4254:0019102: [14r/bet/24.8-[2435]]
                      15R4375:0007701 x 15R4375:0007701
                      15R4375:0007703 x 15R4375:0007703
                      15R4375:0007704 x 15R4375:0007704
                      15R4375:0007706 x 15R4375:0007706
                   14R305:W0000915 x 14R4254:0019106          14R4254:0019106: [14r/bet/24.8-[2436]]
                   14R305:W0000917 x 14R4254:0019108          14R4254:0019108: [14r/bet/23.8-[2308]]
                      15R4346:0007801 x 15R4346:0007801
                         16R305:W0000702 x 16R4481:0005706
                            17R4572:0013901 x 17R4572:0013901
                            17R4572:0013904 x 17R4572:0013904
                            17R4572:0013906 x 17R4572:0013906
                         16R305:W0000710 x 16R4481:0005706
                         16R305:W0002910 x 16R4481:0005709          16R4481:0005709: [16r/gimmel/26.7-[105]]
                         16R305:W0002916 x 16R4481:0005709          16R4481:0005709: [16r/gimmel/26.7-[105]]
                      15R4346:0007804 x 15R4346:0007804
                      15R4346:0007808 x 15R4346:0007808
                13R4129:0016206 x 13R4129:0016206
                13R4129:0016207 x 13R4129:0016207
                13R4129:0016211 x 13R4129:0016211
                13R4129:0016213 x 13R4129:0016213
         12N405:M0037801 x 12N2216:0014913
                13R4130:0016302 x 13R4130:0016302
                13R4130:0016303 x 13R4130:0016303
                   14R405:M0001111 x 14R4256:0019402          14R4256:0019402: [14r/bet/23.8-[2335]]
                      15R4376:0007903 x 15R4376:0007903
                         16R405:M0001808 x 16R4482:0005803
                         16R405:M0001809 x 16R4482:0005803
                         16R405:M0002211 x 16R4482:0005809
                            17R4628:0014002 x 17R4628:0014002
                            17R4628:0014004 x 17R4628:0014004
                            17R4628:0014005 x 17R4628:0014005
                         16R405:M0003302 x 16R4482:0005809
                      15R4376:0007905 x 15R4376:0007905
                      15R4376:0007907 x 15R4376:0007907
                      15R4376:0007908 x 15R4376:0007908
                   14R405:M0001205 x 14R4256:0019413          14R4256:0019413: [14r/bet/24.8-[2421]]
                      15R4377:0008003 x 15R4377:0008003
                      15R4377:0008008 x 15R4377:0008008
                      15R4377:0008011 x 15R4377:0008011
                   14R405:M0001207 x 14R4256:0019413          14R4256:0019413: [14r/bet/24.8-[2421]]
                13R4130:0016304 x 13R4130:0016304
                13R4130:0016308 x 13R4130:0016308
```

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        12N405:M0039001 x 12N2216:0014903
    07G0119:0001407 x 07G0119:0001407
    07G0119:0001408 x 07G0119:0001408
        12N305:W0043207 x 12N2218:0015001
        12N405:M0037804 x 12N2218:0015001
    07G0119:0001409 x 07G0119:0001409
    07G0119:0001410 x 07G0119:0001410
    09R201:S0033104 x 09R0119:0015410
    09R201:S0040210 x 09R0119:0015403
    09R201:S0041701 x 09R0119:0015401          09R0119:0015401: [09r/bet/1.9-[201]]
    09R301:W0032913 x 09R0119:0015410
    09R301:W0035005 x 09R0119:0015403
    09R301:W0035903 x 09R0119:0015403
    09R301:W0041605 x 09R0119:0015401          09R0119:0015401: [09r/bet/1.9-[201]]
    09R301:W0042209 x 09R0119:0015414          09R0119:0015414: [09r/bet/1.9-[211]]
    09R401:M0033007 x 09R0119:0015410
    09R401:M0036006 x 09R0119:0015403
    09R401:M0040604 x 09R0119:0015414          09R0119:0015414: [09r/bet/1.9-[211]]
    09R401:M0041801 x 09R0119:0015401          09R0119:0015401: [09r/bet/1.9-[201]]
```