

Ketterson / Nolan Research Group Collection

This document is part of a collection that serves two purposes. First it is a public archive for data and documents resulting from evolutionary, ecological, and behavioral research conducted by the Ketterson-Nolan research group. The focus of the research is an abundant North American songbird, the dark-eyed junco, *Junco hyemalis*, and the primary sources of support have been the National Science Foundation and Indiana University. The research was conducted in collaboration with numerous colleagues and students, and the objective of this site is to preserve not only the published products of the research, but also to document the organization and people that led to the published findings. Second it is a repository for the works of Val Nolan Jr., who studied songbirds in addition to the junco: in particular the prairie warbler, *Dendroica discolor*. This site was originally compiled and organized by Eric Snajdr, Nicole Gerlach, and Ellen Ketterson.

Context Statement

This document was generated as part of a long-term biological research project on a songbird, the dark-eyed junco, conducted by the Ketterson/Nolan research group at Indiana University. For more information, please see IUScholarWorks (<https://scholarworks.iu.edu/dspace/handle/2022/7911>).

License/Disclaimer Statement

By downloading this document or using any information contained therein, you agree to the license terms outlined at <https://scholarworks.iu.edu/dspace/handle/2022/15260>, which explain terms governing use, creation of derivative research, and requirements for citing the document.

Some uncertainty about 3 paternity of this nest. ♂ did not behave like father. 9/13 mtc

FITNESS CORRELATES SUMMARY SHEET

NEST ID WVS 210 TREATMENT GROUP (I)? but see below DATE FOUND 4/29/92

LOCATION In large tree full 100-150m to upper right of WVS(22) net.

** MALE ID BAND NO. 2000 94010 (See below) COLORS Saltgrn + org @ white @ AGE A, 0

FEMALE ID BAND NO. 2101 06074 COLORS red/blk @ Solar/yel @ lign @ AGE A, Y

DATE OF FIRST EGG est 4/21 or 4/22 back-dated # OF EGGS 4 UNDEVELOPED EGGS? #? 0 (but see below)

HATCHING DATE 5/6/92 # OF HATCHLINGS 3 COWBIRD EGGS? #? 0

MEAN MASS AT HATCHING? 2.70(3) FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST Fledged - reached independence DATE OF FLEDGING 5/19/92 # OF FLEDGINGS 3

AGE OF FLEDGING Day 13 # SURVIVING TO INDEPENDENCE 1 MEAN MASS DAY 3 (N) 4.07(3)

MEAN MASS DAY 6 (N) 7.83(3) MEAN MASS FLEDGING (N) 16.00(3) (Day 13)

INDEPENDENT YOUNG ID NO. 940 93712 940 93711 940 93710

FEMALE MASS AT FLEDGING 19.8 TIME 1315 DATE FEMALE LAST SEEN —

MALE MASS AT FLEDGING — TIME — DATE MALE LAST SEEN —

FEMALE BLED (Y/N); DATE 4/12/92 (#807)

MALE BLED (Y/N); DATE 5/10/92 (#933) IMPLANT DATE 5/3/92 MASS AT IMPLANT —

IMPLANT OK (IN, OUT) ONLY 1 FOUND WHEN CAUGHT FOR 1st TIME to remove implants 7/15 IMPLANT REMOVED (Y/N) DATE 7/15/92

FAT CLASS? Fledging Day: Day 13

Nestling blood sample #s:
943
944
957

COMMENTS:

* 1 egg probably did not hatch because of a crack or puncture - dried up embryo

** ♂ did not behave like father - 2 ♂♂ died in net at WVS(22) on 4/28 2101 06024 and 2101 06010. It is possible (or even probable) that 2000 94010 was a replacement ♂.

* Re: IMPLANT STATUS

If 2000 94010 was the ♂ at 210 all along, she was unimplanted (CC) ~~after~~ the fertile period but before fledging - on 7/15, the 1st time implants were checked after implanting, only 1 implant was present. DNA fingerprinting has shown 2000 94010 was not single 1st brood - 3rd (CC)

Nest found w/ 4 undeveloped eggs. ♀ inc. 3 eggs hatched, 1 developed but did not hatch. 3 fledged, but only 1 known to survive to independence.

JUNCO NEST LOG SHEET

BLED 1992
933

NEST ID WVS210 TREATMENT GROUP (I) 5/10/92

FEMALE: DATE FOUND ~~5/3/92~~ 4/29/92

BAND # 210106674 STATUS WHEN FOUND ♀ INC 4 EGGS, 1 HATCHED

COLORS (RED/BILK)Ⓢ (S-LAN/YEL-ITGEN)Ⓢ (♀ BLED 4/12/92)

MALE: BAND # 200094010 (S-ITGEN-ORANGE) (WHITE)Ⓢ * - ♂ did not behave like father!

COLORS Not seen alive - MW did see in WVS20 nest on 4/29/92

LOCATION: In [unclear] nest later 100-150 yds. MW/92

EGGS LAID 4 # HATCHED, DATE 5/6/92

DATE INCUBATION ONSET ~4/24-25/92 (banded) FLEDGED/FAIL DATE 3, 5/19/92 Recorded on 4/28

MALE BLED (Y/N), DATE 5/10/92 (#933) IMPLANT REMOVED (Y/N), DATE 7/15/92 2111-06824

FEMALE STAYED LEFT 2111-06761 only GI has been bud

| DATE | TIME | STATUS |
|---------|-------|--|
| 4/29/92 | 10:42 | Found by MW, ♀ flushed, no ♂, no sign of nest |
| 4/30/92 | 10:30 | ♀. No ♂, no sign of nest |
| 5/2/92 | 8:17 | + warm eggs, ♀ present, no ♂, visited by MW |
| 5/4/92 | 10:40 | visited by MW, 4 warm eggs, ♀ present, no ♂ |
| 5/5/92 | ~1400 | ♀ on, band seen by EK/MW, no sign of ♂ |
| 5/6/92 | 1846 | Visited by MITC. Female flushed. Soon after, ♂ arrived and started chirping (RED)Ⓢ (S-LAN/YEL-ITGEN)Ⓢ. 1 ft away from ♀. 3 hatched eggs, 1 unhatched. |
| 5/7/92 | 1804 | ♀ flushed, 3 hatched, 1 unhatched. Weighings + pilister. |
| 5/8/92 | 16:39 | 3 chicks, 1 unhatched egg, ♀ present, chirping, not on when I arrived, no ♂ |
| 5/9/92 | 1435 | 3 chicks weighed + measured. 4th egg still unhatched - brought back to LAB to process. No ♀ or ♂ nearby. |
| 5/10/92 | 9:15 | nest with n (MW) ♂ and not found. |
| 5/10/92 | Am | dissected the unhatched egg - an embryo definitely developed to say 1/4 stage - big air space & embryo dived up against shell. but yolk was swirling but embryo intact - preserved it ∴ probably did not hatch because of crack or puncture |
| 5/12/92 | | Yng were day 6 but very small, ♀ feeds - nest has been checked 2x, no ♂ has Ad |
| 5/13/92 | 16:20 | 3 chicks, young smallest weighed, measured & bled, only ♀ seen |
| 5/14/92 | 16:00 | CT ♀ INTRAP W = 19.8 |
| 5/14/92 | 18:00 | SW ♀ INS-TW WITH FEEDING MOUTH - HIGH INTENS ♀ ♂ (2000-94010) FOLLOW 5 MET BACK TO NEST |

JUNCO NESTLOG SHEET. CONT.

| DATE | TIME | STATUS |
|---------|-------------|--|
| 5/14/92 | 0812 | ♂ Always arrives at nest w/ tail streamers. Cooing ♀? Must know that it's not the father of nestlings? |
| 5/18/92 | | 3 young present at 1830, EK/vn sit up nest for fledging in PM but postponed |
| 5/19/92 | | EK/vn fledged at ~1330 - cat on road side ♀, Utignat & Jay - terrible day (mud) & ledge VN, ♀ should alarm, nest empty! |
| 5/20/92 | | |
| 5/21/92 | 1900 | MW no birds seen or heard in area (I was there ~10 min) |
| 5/22/92 | 1700-1750 | looked for signs of birds - from top of barn - saw no sign of ♀ or young that looked all over hillside |
| 5/21/92 | 1030-1115 | looked w/ HP to ground etc nothing. |
| 5/29/92 | 1830 | Saw ♀, ♂ (2000-9400) and one fledging uphill from net as by 22 - 14 green fledging - ♂ fed chick (do not think his father rather his become a feeder.) He sang - fought with neighbor to barn - ♀ chirped - very exciting! |
| 5/31/92 | 1530 | looked for signs of birds - from top of barn - saw no sign of ♀ or young that looked all over hillside |
| 6/5 | 11:20-11:50 | (E census) ♀ in nest - ♂ not seen in fledging seen |
| 6/7 | 1800 | saw ♂ (50lt grn (P) wht (D)) w/ 14 grn (P) ♀ |

13
11/13/92

7/22 M.V.
9/13 mhc

FITNESS CORRELATES SUMMARY SHEET

NEST ID WVS 210 II TREATMENT GROUP (I) T ^{but see below} DATE FOUND 6/5/92

LOCATION In large treefall 100-150m to upper right of WVS (22) not in same treefall as WVS 210

MALE ID BAND NO. 2000 94010 COLORS Soft grn + org (R) white (E) AGE A, C

FEMALE ID BAND NO. 2101 06674 COLORS red/bk (R) S + lav/yel + H grn (L) AGE A, Y

DATE OF FIRST EGG ~ 5/31 - 6/1/92 backdated # OF EGGS 4 HATCHING DATE 6/15/92

OF HATCHLINGS 3 COWBIRD EGGS? #? 0 UNDEVELOPED EGGS? —

MEAN MASS AT HATCHING? 2.33 (3) FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST Fledged - reached independence DATE OF FLEDGING 6/26-27/92 # OF FLEDGINGS 3

SURVIVING TO INDEPENDENCE 3 MEAN MASS DAY 3 (N) 8.53 (3) MEAN MASS DAY 6 (N) 14.33 (3)

MEAN MASS FLEDGING (N) NONE CAUGHT FEMALE MASS AT FLEDGING — TIME —

MALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

DATE MALE LAST SEEN — FEMALE BLED (Y/N): DATE 4/12/92 (#807)

MALE BLED (Y/N): DATE 5/10/92 (#933) IMPLANT DATE 5/10/92 MASS AT IMPLANT —

IMPLANT OK (IN, OUT): ONLY 1 FOUND 7/15! IMPLANT REMOVED (Y/N) DATE 7/15/92

FAT CLASS? —

INDEPENDENT YOUNG ID #'S: 940 93464, 940 93465, 940 93466

Nestling blood sample #'S: 1170, 1171, 1172

COMMENTS:

* on 7/15 only 1 implant was found (+ ~~and~~ the bird was not checked for implant status earlier)

AGE OF FLEDGING?
?

Nest found w/ 4 eggs (~day 2 [?] ~~inc~~). ♀ inc. 1 egg disappeared 6/7 (~day 8 or 9). All 3 remaining hatched. ♂ Arrived at nest w/ food (day 6 nest). Nestlings fledged probably later on day 11 or earlier on day 12. All 3 fledglings survived to independence.

JUNCO NEST LOG SHEET

NEST ID WVS 210 II TREATMENT GROUP I 5/10/92

FEMALE: DATE FOUND 6/5/92

Bled '92 BAND # 2101 06674 STATUS WHEN FOUND 4 eggs inc.

807 COLORS RED/BLK (R) SO LAV/YEL - LTGRN (L)

MALE:

Bled '92 BAND # 2000-94010

933 COLORS SO Lt green O.org - R white - L

LOCATION: To upper right of WVS (22) net ~ 100m in. In same treefall as WVS 210, less than a foot below old nest + slightly to the left.

EGGS LAID # HATCHED, DATE 3, 6/15/92

DATE INCUBATION ONSET ~ 6/3-4/92 *backdated* # FLEDGED/FAIL, DATE 6/26-27/92

MALE BLED (Y/N), DATE 5/10/92 (#933) IMPLANT REMOVED (Y/N), DATE 7/15/92

FEMALE STAYED/LEFT

| DATE | TIME | STATUS |
|------|-------|---|
| 6/5 | 11:20 | ♀ on, bands identified, 4 warm junco eggs (probably a few days old). Not too translucent. MW |
| 6/7 | 12:00 | ♀ on, 3 warm eggs MW |
| 6/8 | 11:45 | ♀ on, 3 warm eggs. MW |
| 6/9 | 14:00 | ♀ on 3 eggs. MW |
| 6/10 | 11:10 | Same. MW. |
| | 17:42 | Pair copulating on horsepasture fence, then flew into trees to N of Hpasture. ♀ solicited copulations. RET ♂ ID'd as above |
| | 19:52 | 3 warmish eggs in nest. RET |
| 6/10 | 17:00 | ♀ on, 3 warm eggs. MW |
| 6/11 | 12:42 | ♀ on 3 warm eggs. MW |
| 6/11 | 1:00 | ♀ on 3 warm eggs. MW |
| 6/15 | 8:45 | ♀ on, 3 hatched, weighed, measured + polished - no ♂ in sight. MW |
| 6/18 | 16:00 | ♀ off but present, ♂ did not come - 3 nestlings weighed, measured + repolished. MW |
| 6/21 | 16:20 | ♀ on, ♂ came w/ food in beak to treefall just as I removed young to band + bleed - colors confirmed - he didn't stay long - 3 nestlings weighed, measured, banded + bled. MW. |
| 6/26 | 14:55 | Set up net for tomorrow's fledging - net is on rocky ground → not very stable. - Saw 2 young in nest (I don't think there is a 3rd in the nest + didn't hear fledgling sounds except from ♂ - colors confirmed he didn't really chip, just made strange high-pitched noises - ♀ chipping. MW. |

JUNCO NESTLOG SHEET. CONT.

| DATE | TIME | STATUS |
|------|-----------|--|
| 6/27 | 845 | Arrived to find that young had already fledged. Did not catch any birds. Saw ♂, ♀, 2 red + 2 HGRN. We also chased a fledgling, trying to catch it, without knowing its colors. Position of fledgling noises + chipping by adults suggests that there may be a third that fledged before the nest was visited on 6/26. MW |
| 6/28 | 1005-1050 | Ⓢ census - saw ♂, ♀ + all 3 fledglings! MW |
| 7/1 | 945-1020 | found near horse barn, ♀, ♂, an unbanded juvenile and 2. LKB/ory seen - from all the fledgling noises I would guess that 2 or 3 are still alive, but they were perched high in the trees + I couldn't find them. MW. |
| | | 7/10/2000, saw 1 HGRN + 1 red + 1 LKB/ory + 1 unbanded juv. MW |
| | | 7/10/2000, saw 1 HGRN + 1 red + 1 LKB/ory + 1 unbanded juv. MW |
| 7/4 | | Saw all 3 RT. |
| 7/5 | 1020-1110 | Ⓢ census (Day 9) 1020 saw juvs, but no one I was looking for - searched thoroughly. MW. |
| 7/10 | 1105-1115 | Ⓢ census saw all 3 Ⓢ's with unbanded juvs ♂ sang, did not see ♀ near horse barn on ST LC |

WITNESS CORRELATES SUMMARY SHEET

9/13 mlc

NEST ID WVS 210 III TREATMENT GROUP (I) T ^{but see below} DATE FOUND 7/11/92

LOCATION In large treefall 100-150m to upper right of WVS (22) nest in same treefall as WVS

MALE ID BAND NO. 2000 94010 COLORS S. lt grn = org (R) white (L) AGE A.0 ^{+ WVS 210 II}

FEMALE ID BAND NO. 2101 06674 COLORS red/blk (R) Solar/yel = lt grn AGE A.Y

DATE OF FIRST EGG ~6/30-7/3/92 backdated # OF EGGS 4 HATCHING DATE ~7/15-17/92
backdated

OF HATCHLINGS 4 COWBIRD EGGS? #? 0

MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST FAILED AS NESTLINGS ^{- probably predation} DATE OF FLEDGING — # OF FLEDGINGS 0

SURVIVING TO INDEPENDENCE 0 MEAN MASS DAY 3 (N) 7.10(4) ^{Estimated} MEAN MASS DAY 6 (N) —

MEAN MASS FLEDGING (N) — FEMALE MASS AT FLEDGING — TIME —

MALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

DATE MALE LAST SEEN — FEMALE BLED (Y/N); DATE 4/12/92 (#807)

MALE BLED (Y/N); DATE 5/10/92 (#933) IMPLANT DATE 5/10/92 MASS AT IMPLANT —

IMPLANT OK (IN. (OUT?)) 7/15 - only 1 implant found - 1st time checked IMPLANT REMOVED (Y/N) DATE 7/15

FAT CLASS? —

INDEP. YOUNG ID # — UNDEVELOPED EGGS 0 AGE OF FLEDGING: —

COMMENTS:

* When implants were checked for the 1st time, only 1 was found (7/15)

Nest found w/ 4 eggs (~ day 8 or 9). All 4 hatched, but nest found empty ~ day 6 nestlings.

JUNCO NEST LOG SHEET

NEST ID WVS 210 III TREATMENT GROUP (I) 5/10/92

FEMALE: DATE FOUND 7/11/92

BAND # 2101 06674 STATUS WHEN FOUND ♀ on 4 eggs

COLORS Red/BK (R) & S o Lav/Yel o Lt grn (L)

MALE:

BAND # 2000 94010 S o Lt grn o org (R) white (L) *a different nest cup.*

COLORS Same ~~nest~~ ^{treefall} as WVS 210 (first) center + up a little in treefall - uphill from tag 22 100m

LOCATION: →

EGGS LAID — # HATCHED, DATE 4, ~7/15-17/92 (backdated)

DATE INCUBATION ONSET ~7/3-6/92 (backdated) # FLEDGED/FAIL, DATE bin 7/19 + 7/21/92

MALE BLED (Y/N), DATE 5/10/92 IMPLANT REMOVED (Y/N), DATE 7/15

FEMALE STAYED/LEFT —

| DATE | TIME | STATUS |
|------|-----------|---|
| 7/11 | 1129 | ♀ flushed off 4 eggs. Same nest as first - above and to left of II. |
| 7/12 | 1415-1615 | ♀ color bands seen; male not here RCT intruder test, ♂ & ♀ came in after 62 min to ♀ lure 40m N of nest. ♂ apparently feeding or following or being followed by fledglings. Heard them together often - saw one, which was unbanded. ~ 1600 ♀ on nest, 4 eggs implant removed removed labeled |
| 7/15 | | |
| 7/17 | | |
| 7/18 | | 1430-1600 watched at intruder test. ^(♂) no response. ♀ on nest 1530 did not flush off. ♂ sang occasionally from S E of nest. In nest - 3 tag 2-3 young RCT (not measured) |
| 7/19 | 1420 | ♀ on, 4 nestlings weighed, measured + polished - ♂ (2000 94010) seen w/ food at nest! nest. Day 3. |
| 7/21 | 1440 | Nest empty. FACENTIS (both ♂ and ♀) was ~15m away towards BARN, but not chirpy. intruded AS ♂ cubensis UNBANDS just away from ♀? |
| 8/6 | 1200 1003 | Returned to territory to determine status of pair - searched between stream, was driveway to house know nest location. saw. No one but juvs |

FITNESS CORRELATES SUMMARY SHEET

11-1-92
9/13 mlc

NEST ID WVS 211 TREATMENT GROUP I DATE FOUND 5/5/92

LOCATION tree fall up from WVS tag 60 below pwr cut - follow gully w/ rhododendrons up from road.

MALE ID BAND NO. 2011 22299 COLORS lt bl / blk o S o blk (R) lt bl / blk (L) AGE A, O

FEMALE ID BAND NO. 2021 09671 COLORS yel / blk (R) Soorg o lt grn AGE A, O

DATE OF FIRST EGG 5/6/92 or 5/7/92 # OF EGGS ? see below UNDEVELOPED EGGS? #?

HATCHING DATE DID NOT HATCH # OF HATCHLINGS - COWBIRD EGGS? #? 2

MEAN MASS AT HATCHING? - FEMALE MASS AT HATCHING? - MALE MASS AT HATCHING -

FATE OF NEST ABANDONED - FAILED (AS EGGS) DATE OF FLEDGING - # OF FLEDGINGS -

AGE OF FLEDGING - # SURVIVING TO INDEPENDENCE - MEAN MASS DAY 3 (N) -

MEAN MASS DAY 6 (N) - MEAN MASS FLEDGING (N) -

INDEPENDENT YOUNG ID NO. -

FEMALE MASS AT FLEDGING - TIME - DATE FEMALE LAST SEEN -

MALE MASS AT FLEDGING - TIME - DATE MALE LAST SEEN -

FEMALE BLED (Y/N); DATE 4/13/92 (#828)

MALE BLED (Y/N); DATE 4/12/92 (#820) IMPLANT DATE 4/12/92 MASS AT IMPLANT 23.0

IMPLANT OK (IN, OUT?) implanted on 4/12 IMPLANT REMOVED (Y/N) DATE not removed
♂ not caught after being implanted on 4/12. unknown status.

FAT CLASS? -

COMMENTS: uncertain of ^{identities of adults associated w/ this nest} ~~parentage~~ - birds not definitely associated w/ nest - possibly 2 ♀♀ laying in same nest cup - see nest log

4/12/92 or - as seems more likely nest, neither chicken belongs to this pair (see WVS 211), and both could have been WVS 232 pair. base for this nest of WVS 232 so close on hillside (~30m).

alternative ~~interp.~~ - near ^{two} ♀♀ - rather just ♀ did not lay in nest after she built, + because of storm and began to lay for first time on 5/14. In that case still likely that he ♀ was the WVS 232 ♀

♂ not caught after being implanted (C) on 4/12.

JUNCO NEST LOG SHEET

Bled 1992
828

Bled 1992
820

NEST ID WVS 211 TREATMENT GROUP I 4/12/92

FEMALE: DATE FOUND 5/5/92

BAND # _____ STATUS WHEN FOUND pre-laying

COLORS _____

MALE: ~~WVS 211~~ 211

BAND # _____

COLORS _____

LOCATION: tree fall up from tag 60, follow gully with rhododendrons, up from road
tree fall is on road side of the power cut. It is in upper right hand side of

EGGS LAID _____ # HATCHED, DATE _____

DATE INCUBATION ONSET _____ # FLEDGED/FAIL, DATE _____

MALE BLED (Y/N), DATE 4/2/92 IMPLANT REMOVED (Y/N), DATE Not removed

FEMALE STAYED/LEFT _____

~~WVS 211~~
~~PRE-LAYING~~
~~PRE-LAYING~~
~~PRE-LAYING~~

| DATE | TIME | STATUS |
|---------|--------|---|
| 5/5/92 | 1600 | fully lined, no egg, probable nest of last years WVS 200 - pair seen together earlier by nest at tag 58, ♂ slightly puffed |
| 5/7/92 | 17:47 | 1 cold egg, no birds seen |
| 5/8/92 | 16:15 | 1 cold egg, 1 bird chipping at a distance too far to identify |
| 5/9/92 | 1459 | 2 cold eggs, no birds nearby. |
| 5/10/92 | 15:50 | " " some chipping nearby but not as I was seen - eggs 2 eggs differ in shape & shade 1 longer, pointed, background color darker 1 more oval rounded, pale in not back ground |
| 5/11/92 | 8:00 | same, both eggs taken - both eggs used covered egg - EK |
| 5/14/92 | AM | 215 reports 2 eggs in the nest !!! - remarkable |
| 5/15/92 | 820 AM | STILL 2 COLD EGGS SAW BOTH ADULTS (NOT TOGETHER) AT TAG 61 ♂ & 58 ♀. FORAGING |
| 5/16/92 | 815 | STILL 2 COLD EGGS |
| 5/20 | 16:48 | same |
| 5/21 | 1720 | REMOVED EGGS. UNDEVELOPED |

Bled 1992
820

Bled 1992
820

This makes no sense - ~~at~~ 2021-09671 laid the first 2 eggs - well
 new found. IA extremely unlikely that she laid the second 2 because
 she was building WVS 218 on 5/4. Don't believe visible ~~to the~~
 my here

this was a pretty much

FITNESS CORRELATES SUMMARY SHEET

9/13 mtk

NEST ID WNS 212 TREATMENT GROUP I^T 7/12/92 DATE FOUND 5/5/92
 LOCATION ~ 100 m ARJIE PINE CUT to W13 AT WNS 61. (NEAR FACILITY)
 MALE ID BAND NO. 2101 ~~2144~~ 06149 COLORS (S-yellow-dkbl) (dkbl/red) AGE A, Y
 FEMALE ID BAND NO. 2101 06339 COLORS (2 egg's) (S-2dkblues) AGE A, Y
 DATE OF FIRST EGG — # OF EGGS 3 UNDEVELOPED EGGS? #? 0
 HATCHING DATE — # OF HATCHLINGS — COWBIRD EGGS? #? 0
 MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —
 FATE OF NEST Failed / deserted as eggs DATE OF FLEDGING — # OF FLEDGINGS —
 AGE OF FLEDGING — # SURVIVING TO INDEPENDENCE — MEAN MASS DAY 3 (N) —
 MEAN MASS DAY 6 (N) — MEAN MASS FLEDGING (N) —
 INDEPENDENT YOUNG ID NO. —
 FEMALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —
 MALE MASS AT FLEDGING — TIME — DATE MALE LAST SEEN —
 FEMALE BLED (Y/N); DATE 6/24/92 (#1195, 1305)
 MALE BLED (Y/N); DATE 4/12/92 (#806, 922, 1304) IMPLANT DATE 4/12/92 MASS AT IMPLANT 21.5
 IMPLANT OK (IN, OUT?) 6/24, 7/17 (Both implants removed 7/17) IMPLANT REMOVED (Y/N) DATE 7/17/92
 FAT CLASS? —

COMMENTS: All 3 eggs were brought back to process on 5/8/92. All 3 eggs had developed.

basis for parentage —

partially developed egg, pair caught together + seen together the ID of ♂ not perfect — also nested together on subsequent NYS

Nest found w/ 3 warm eggs. ♀ inc. Eggs cold/no birds present for 3 days. All eggs collected and all 3 had developed.

UNCO NEST LOG SHEET

NEST ID WVS 212 TREATMENT GROUP (I) 4/12/92
 FEMALE: DATE FOUND 5/5/92
 BAND # 2101 06339 STATUS WHEN FOUND 3 eggs, 1 inc.
 COLORS 2 orgs - R 50 2 dk blues - L
 MALE:
 BAND # _____
 922 COLORS _____
 LOCATION: ~100m above the power lines // to 613 at WVS 61 in large tree full
 # EGGS LAID — # HATCHED, DATE did not hatch
 DATE INCUBATION ONSET UNKNOWN # FLEDGED/FAIL DATE ABANDONED bin 5/5 + 5/7
 MALE BLED (Y/N), DATE 4/12/92 IMPLANT REMOVED (Y/N), DATE 7/17
 FEMALE STAYED/LEFT _____

| DATE | TIME | STATUS |
|---------|-------|--|
| 5/5/92 | 15:37 | found by MW, ♀ flushed off nest, 3 warm eggs, ♀ identified with certainty, ♂ came shortly after ♀ started chipping, ♂ @ almost certain, @ not seen, bands assigned for the ♂ tentatively because the pair was caught together the same morning at WVS 613. |
| 5/7/92 | 17:52 | 3 cold eggs, no birds present. |
| 5/8/92 | 16:20 | 3 cold eggs, no birds present, eggs collected. (all had developed) |
| 5/24/92 | 10:00 | ♂ singing, ♀ "courting" seen seen, removed old nest bc |

FITNESS CORRELATES SUMMARY SHEET

9/13 nitz

NEST ID WVS 212 R TREATMENT GROUP (I) T⁴ 4/12/92 DATE FOUND 5/26/92

LOCATION on deer trail thru pwr cut 6 phone poles S of GDR ~ tag 60, .5m S of pole, on left under-gro. clamp

MALE ID BAND NO. 2101 06149 COLORS So yel ock bl (R) dk bl/red (L) AGE A, Y

FEMALE ID BAND NO. 2101 06339 COLORS 2.org (R) So 2 dk bl (L) AGE A, Y

DATE OF FIRST EGG UNKNOWN # OF EGGS 4 UNDEVELOPED EGGS? #? -

HATCHING DATE DID NOT HATCH # OF HATCHLINGS - COWBIRD EGGS? #? NONE

MEAN MASS AT HATCHING? - FEMALE MASS AT HATCHING? - MALE MASS AT HATCHING -

FATE OF NEST FAILED - PREDATION (AS EGGS) DATE OF FLEDGING - # OF FLEDGINGS -

AGE OF FLEDGING - # SURVIVING TO INDEPENDENCE - MEAN MASS DAY 3 (N) -

MEAN MASS DAY 6 (N) - MEAN MASS FLEDGING (N) -

INDEPENDENT YOUNG ID NO. -

FEMALE MASS AT FLEDGING - TIME - DATE FEMALE LAST SEEN -

MALE MASS AT FLEDGING - TIME - DATE MALE LAST SEEN -

FEMALE BLED (Y/N); DATE 6/24/92 (#1195, 1305)

MALE BLED (Y/N); DATE 4/12/92 (#806, 922, 1304) IMPLANT DATE 4/12/92 MASS AT IMPLANT 21.5

IMPLANT OK (IN) OUT? 6/24, 7/17 (Both implants removed 7/17) IMPLANT REMOVED (Y/N) DATE 7/17/92

FAT CLASS? -

COMMENTS:

Nest found w/ 4 eggs. ♀ initially not on, but later flew off nest. (5/26)
All eggs missing and nest pulled out of cavity. (5/31)

X

1/25 11
9/13 mtk

FITNESS CORRELATES SUMMARY SHEET

NEST ID 111111 TREATMENT GROUP IT DATE FOUND 5/25/92

LOCATION 111111

MALE ID BAND NO. 111111 COLORS 111111 AGE AY

FEMALE ID BAND NO. 111111 COLORS 111111 AGE AY

DATE OF FIRST EGG - # OF EGGS 4 UNDEVELOPED EGGS? #? -

HATCHING DATE - # OF HATCHLINGS 0 COWBIRD EGGS? #? 0

MEAN MASS AT HATCHING? - FEMALE MASS AT HATCHING? - MALE MASS AT HATCHING -

FATE OF NEST not found during inc DATE OF FLEDGING - # OF FLEDGINGS 0

AGE OF FLEDGING - # SURVIVING TO INDEPENDENCE 0 MEAN MASS DAY 3 (N) -

MEAN MASS DAY 6 (N) - MEAN MASS FLEDGING (N) -

INDEPENDENT YOUNG ID NO. -

FEMALE MASS AT FLEDGING - TIME - DATE FEMALE LAST SEEN 5/29/92

MALE MASS AT FLEDGING - TIME - DATE MALE LAST SEEN 5/29/92

FEMALE BLED (Y/N); DATE 4/1/92 (#808)

MALE BLED (Y/N); DATE 4/12/92 (#810, 1331) IMPLANT DATE 4/1/92 MASS AT IMPLANT 1.15

IMPLANT OK (IN) OUT? 5/10 OK, 7/20 OK IMPLANT REMOVED (Y/N) DATE not removed

FAT CLASS? - ♂ implants never removed

COMMENTS:

111111

Nest found w/ 4 eggs. ♀ inc. ♂ clipped (5/25). Nest found empty on 5/30.
∴ failed during incubation.

JUNCO NEST LOG SHEET

NEST ID WVS 213 R TREATMENT GROUP I 4/12/92

FEMALE: DATE FOUND 5/23/92

BAND # 2101 06690 STATUS WHEN FOUND 4 eggs

COLORS EK 0.50 P. Orange 0.50

MALE:

BAND # 2101 06690

COLORS 50 Orgo DKBI - (R) DKgrn (L)

LOCATION: 50 m in woods stream

EGGS LAID — # HATCHED, DATE NONE

DATE INCUBATION ONSET UNKNOWN # FLEDGED/FAIL, DATE —

MALE BLED (Y/N), DATE 4/12/92 IMPLANT REMOVED (Y/N) DATE Not removed

FEMALE STAYED/LEFT —

BLED 15/92 8/92

| DATE | TIME | STATUS |
|------|-------|--|
| 5/23 | 10:00 | found 4 eggs, male at nest |
| 5/24 | 9:00 | ♀ sitting → not seen LC |
| 5/25 | 15:30 | ♂ chipping, identified, 5m from nest while ♀ on. She fledged off 4 eggs RT |
| 5/26 | 18:00 | found 4 eggs |
| 5/27 | 10:00 | ♀ on, ♂ (50 orgo) inspected at nest |
| 5/30 | 12:00 | nest empty, no birds in sight |

1125
9/13 mtc

NEST ID WV3 213-R2 TREATMENT GROUP (I) T DATE FOUND 6/8/92

LOCATION ~20m N of net N of SW fork, 15m W (toward pool) under smallish rock on bank

MALE ID BAND NO. 2101-06690 COLORS S^oorg^odk^o (R) dk grn (L) AGE A, Y

FEMALE ID BAND NO. 2101-06730 COLORS blk^oyel^o (R) org^oS^oorg^o (L) AGE A, Y

DATE OF FIRST EGG — # OF EGGS 5 UNDEVELOPED EGGS? #? —

HATCHING DATE — # OF HATCHLINGS 0 COWBIRD EGGS? #? 0

MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST FAILED - PREDATED (AS EGGS) 6/11 DATE OF FLEDGING — # OF FLEDGINGS 0

AGE OF FLEDGING — # SURVIVING TO INDEPENDENCE 0 MEAN MASS DAY 3 (N) —

MEAN MASS DAY 6 (N) — MEAN MASS FLEDGING (N) —

INDEPENDENT YOUNG ID NO. —

FEMALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

MALE MASS AT FLEDGING — TIME — DATE MALE LAST SEEN —

FEMALE BLED (Y/N); DATE 4/12/92 (#803)

MALE BLED (Y/N); DATE 4/12/92 (#810, 1331) IMPLANT DATE 4/12/92 MASS AT IMPLANT 21.3

IMPLANT OK (IN, OUT?) 5/10 O.K., 7/20^{ck} IMPLANT REMOVED (Y/N) DATE not removed

FAT CLASS? —

COMMENTS: FAILED ON 6/11/92

Nest found w/ 5 eggs. ♀ inc. ♂ "territorial" during intruder test.
2 Eggs missing 6/11 at 1320 AND 1 cracked egg brought in to lab.
(Development had occurred). At 1745, remaining 2 eggs gone.

JUNCO NEST LOG SHEET

NEST ID WVS 213-R2 TREATMENT GROUP I 4/12/92

FEMALE: DATE FOUND 8 June 1992

BAND # 2101 06730 STATUS WHEN FOUND 5 eggs

COLORS Blk o yel (R) Org o S o Org (L)

MALE:

BAND # 2101-06690

COLORS S o Org o DKBl (R) DKgrn (L)

LOCATION: ~20 m N of net N of STN fork, 15 m W (forward ^{old} swimming pool) under smallish rock on bank

EGGS LAID — # HATCHED, DATE NONE

DATE INCUBATION ONSET — # FLEDGED/FAIL, DATE 6/11/92

MALE BLED (Y/N), DATE 4/12/92 IMPLANT REMOVED (Y/N) DATE not removed.

FEMALE STAYED/LEFT —

| DATE | TIME | STATUS |
|--------|-----------|--|
| 6/6/92 | 1630 | ♀, ♂ were foraging close together in canopy to E. Flew down to nest area, where ♀ began to chip. ♂ watched but did not chip. 5 eggs (all junco) in nest. RCT |
| 6/9/92 | 1106 | ♀ on nest did not flush |
| | 1645-1830 | intruder test (♀). no reaction by pair to intruder placed 40m NE of nest, until I grabbed her to put in bucket, at which time she chipped and resident ♂ came there within 15 seconds, court song. ♀ apparently remained on nest, as she came on ~2 min later when I checked for hatching. 5 eggs still. RCT |
| 6/10 | 1151 | ♀ on nest. |
| | 1426 | ♀ flushed off 5 eggs. RCT |
| 6/11 | 1320 | ♀ off so checked, 2 eggs gone, 1 cracked (brought in), 2 intact. no junco heard RCT. |
| | 1745 | Remaining 2 eggs gone. RCT |

- Failed -

6/16 Pm what was possibly this ♂ heard singing by STN fork in response(?) to WVN 106 ♂ song RCT

bled 4/12/92 808

bled 4/12/92 810

see back

8/13/92
9/13 ntk

X

~~CONFIDENTIAL - FIELD USE ONLY~~

NEST ID WVS 213-R3 TREATMENT GROUP (I) T * DATE FOUND 6/21/92

LOCATION in hemlock 10m tall ~100m E of WVS Tag 1. 1.7m up on W side

* MALE ID BAND NO. ? 2101-06690 COLORS ? Soorg - dk bl @ dk grn (L) AGE ? A, Y

FEMALE ID BAND NO. 2101-06730 COLORS blk/yel (R) orgo Soorg (L) AGE A, Y

DATE OF FIRST EGG — # OF EGGS 5 UNDEVELOPED EGGS? ?? 1?

HATCHING DATE — # OF HATCHLINGS — COWBIRD EGGS? 0

MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST FAILED - PREDATED (AS EGGS) 6/25 DATE OF FLEDGING — # OF FLEDGLINGS —

AGE OF FLEDGING — # SURVIVING TO INDEPENDENCE — MEAN MASS DAY 3 (N) —

MEAN MASS DAY 6 (N) — MEAN MASS FLEDGING (N) —

INDEPENDENT YOUNG ID NO. —

FEMALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

MALE MASS AT FLEDGING — TIME — DATE MALE LAST SEEN —

FEMALE BLED (Y/N); DATE 4/12/92 (#808)

MALE BLED (Y/N); DATE 4/12/92 (#810, 1331) IMPLANT DATE 4/12/92 MASS AT IMPLANT 21.3

IMPLANT OK (IN, OUT?) 5/10 ok, 7/20 ok IMPLANT REMOVED (Y/N) DATE Not removed

FAT CLASS? —

COMMENTS: FAILED Soorgo (blk) ♂ was seen chasing intruders or copulating (see Nest Log 6/21) but could not be positively associated with the nest.

* Identity of ♂ is uncertain - see above comment - the ♂ that had been here previously was Soorgo - dk bl @ and it is probable that this was the ♂. Since PT thinks that since ♀ re-nested so quickly, he is probably still her mate (i.e. she didn't change mates) even though he couldn't be positively associated w/ nest.

Nest found w/ 5 Eggs. ♀ inc. 6/25 Nest found w/ 1 intact egg and shells. No sign of development. EK thinks may be unfertilized.

FITNESS CORRELATES SUMMARY SHEET

8/2 MW
9/13 nte

NEST ID WVS 213-R4 TREATMENT GROUP UNKNOWN DATE FOUND 7/8/92

LOCATION ~ 30m downhill from stop sign

MALE ID BAND NO. UNKNOWN COLORS --- AGE ---

FEMALE ID BAND NO. UNKNOWN COLORS --- AGE ---

DATE OF FIRST EGG --- # OF EGGS --- HATCHING DATE ---

OF HATCHLINGS 0 COWBIRD EGGS? #? --- UNDEVELOPED EGGS? ---

MEAN MASS AT HATCHING? --- FEMALE MASS AT HATCHING? --- MALE MASS AT HATCHING ---

FATE OF NEST FAILED - Abandoned as nest start. DATE OF FLEDGING --- # OF FLEDGINGS 0

SURVIVING TO INDEPENDENCE 0 MEAN MASS DAY 3 (N) --- MEAN MASS DAY 6 (N) ---

MEAN MASS FLEDGING (N) --- FEMALE MASS AT FLEDGING --- TIME ---

MALE MASS AT FLEDGING --- TIME --- DATE FEMALE LAST SEEN ---

DATE MALE LAST SEEN --- FEMALE BLED (Y/N); DATE ---

MALE BLED (Y/N); DATE --- IMPLANT DATE --- MASS AT IMPLANT ---

IMPLANT OK (IN, OUT?) --- IMPLANT REMOVED (Y/N) DATE ---

FAT CLASS? ---

INDEPENDENT YG ID #: ---

AGE OF FLEDGING: ---

COMMENTS:

possible start only.

Nest found as start. Neither adult identified. Nest abandoned on 7/18.

JUNCO NEST LOG SHEET

NEST ID WVS 213-R4 TREATMENT GROUP _____

FEMALE: DATE FOUND _____

BAND # _____ STATUS WHEN FOUND _____

COLORS _____

MALE:

BAND # _____

COLORS _____

LOCATION: _____

EGGS LAID _____ # HATCHED, DATE _____

DATE INCUBATION ONSET _____ # FLEDGED/FAIL DATE _____

MALE BLED (Y/N), DATE _____ IMPLANT REMOVED (Y/N), DATE _____

FEMALE STAYED/LEFT _____

| DATE | TIME | STATUS |
|--------|----------------------------|--|
| 7/7/92 | pm | JAR saw ♀ w/ nesting material by stop sign. ♂ singing. RCT for SAR possible start downhill from large log ~30m from stop sign. Check later RCT ♂ singing to E, not very close. |
| 7/8/92 | 0900 | |
| 7/18 | ^{written} 7/20 | definitely abandoned. |

band colors
not seen

FITNESS CORRELATES SUMMARY SHEET

9/13 mhc

NEST ID WVS 214 TREATMENT GROUP I → C DATE FOUND 5/10/92

LOCATION in lrg traffic above parking lot by Garbage Dump Road + WPK parking lot ~100m from G-DIS

MALE ID BAND NO. 2101 06411 COLORS red-S (R) DR bl (L) AGE A, Y

FEMALE ID BAND NO. 2101 06204 COLORS So Hbl/org (R) org (L) AGE A, Y

DATE OF FIRST EGG ~4/25-26/92 # OF EGGS — HATCHING DATE ~5/10/92

OF HATCHLINGS — COWBIRD EGGS? #? 0 UNDEVELOPED EGGS 0*

MEAN MASS AT HATCHING? 2.23⁽³⁾ FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST Fledged DATE OF FLEDGING 5/21-22 # OF FLEDGINGS —

SURVIVING TO INDEPENDENCE 0 MEAN MASS DAY 3 (N) 7.13(3) MEAN MASS DAY 6 (N) 14.50(2)

MEAN MASS FLEDGING (N) 18.1(1) FEMALE MASS AT FLEDGING — TIME —

MALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

DATE MALE LAST SEEN — FEMALE BLED (Y/N): DATE 4/12/92 (#813, 1004)

MALE BLED (Y/N): DATE 4/13/92 (#833) IMPLANT DATE 4/13/92 MASS AT IMPLANT 20.9

IMPLANT OK (IN/OUT?) lost by 7/15 IMPLANT REMOVED (Y/N) DATE lost by 7/15

FAT CLASS? —

INCLP YG ID # 940 93514, 940 93515

AGE OF FLEDGING Day 11 or 12 (early)

COMMENTS: Nestling blood sample #s: 981, 982

Had lost implants by 7/15/92 but treat as control - implanted b/c ♂ went through implanting process.

* one embryo had developed to ~ 15mm when it stopped b/c it probably was poked to the rim + got cold

Nest found w/ 2 nestlings (~day 0) AND 1 egg on nest "rim". Egg was found to HAVE DEVELOPED (SEE ABOVE). Both nestlings banded + bled (5/16), but fledged EARLY (day 11 or early day 12). According to F-CENSUS, ♂ fled day 3 fledglings, but no fledglings seen after day 9.

Zig: 7 nestlings + 1 egg on rim

JUNCO NEST LOG SHEET

NEST ID WVS 214 TREATMENT GROUP (I) C 4/13/92

FEMALE: DATE FOUND 5/3/92

BAND # 2101 06204 STATUS WHEN FOUND 2 chicks, 1 male, 1 female, 1 egg

COLORS Solt bl/org (R) org (L) (♀ BLED 4/12/92)

MALE: BAND # 2102 06205

COLORS (almost certain)

LOCATION: WPR, 200m from ground, heavy cover
in big treefall on upper side of power cut between old and new group forest

EGGS LAID — # HATCHED, DATE — est. 5/10/92

DATE INCUBATION ONSET 4/22-29/92 (backdated) # FLEDGED/FAIL, DATE 5/21-28/92

MALE BLED (Y/N), DATE 4/13/92 IMPLANT REMOVED (Y/N), DATE lost by 7/15

FEMALE STAYED/LEFT —

BLED 1992 813
BLED 1992 833

| DATE | TIME | STATUS |
|---------|----------------|---|
| 5/3/92 | 16:45 | 2 chicks - day 0? or day 1, 1 egg, 1 old egg on nest rim, ♀ present when I was very close then started with 2-3m of nest, ♂ present, 2 weighed, measured + painted ♂, 10 ♂ seen |
| 5/11/92 | 15:25 | 3 chicks now, 1 old egg still on rim, weighed, measured + painted 3rd chick, ♀ bands confirmed - not on when I arrived, ♂ colours read, both stayed nearby as I processed chick. |
| 5/12/92 | 7:15 | 2 chicks, 1 egg, 1 old egg on nest rim, ♂ present, 1 chick developed + 1 chick hatched - 1 egg + 1 chick to the nest + got cold ♂ chipped close by, nest watch done 8:10-9:10 by MW |
| 5/13/92 | 18:25 | all 3 chicks weighed + measured, no parents in sight |
| 5/14/92 | 16:30 | banded + bled 2 chicks ex-vit, one was red-L, one had no nail, polish |
| 5/17/92 | 17:30 | 2 chicks, both fine - saw bands on male (saw he 2 dk blms on his left) |
| 5/21/92 | 16:26 | ♂ present when I arrived, ♀ not seen but was very loud - came to within ~30cm of me, chipping, at least 1 nestling |
| 5/21/92 | 10:30 17:10 | ♀ CHIPS ALot. BOTH ADULTS IN MESH AS NET WAS SET FOR FLEDGLINGS. |
| 5/22/92 | * | Zig Lori got to nest. find young gone - ♀ seen - (RKL/R20) observed ♂ present in nest. CT ♀ BLED ♀ (L20) |
| 5/24 | 1148-1220 | FOUND ONE FLEDGE DARK/RED. BOTH ADULTS CHIPPING 214 twice ♂ Fed (mike later saw Zig notes from) |
| 5/30 | 10:00-10:25 | Both adults + at least 1 fledgling seen bin power cut + WVS (I think there were 2 young, but I'm not sure) MW |
| 6/8 | 1900 | saw a banded fledgling + adult fly over GDR could not ID but I think it is 214. Saw a ♂ with 2 dk bl (L) on GDR near fork (see WVS 236) |

FITNESS CORRELATES SUMMARY SHEET

9/13 mhc

NEST ID WVS 214 II TREATMENT GROUP I → C DATE FOUND 6/30/92

LOCATION 17 big pines downhill from pine cut and blind road ~ 4' up in nestlock

MALE ID BAND NO. 2101 06411 COLORS red: 5R 2 bk bl (L) AGE A, Y

FEMALE ID BAND NO. 2101 06204 COLORS S+H bl/org (R) org (L) AGE A, Y

DATE OF FIRST EGG 6/17 OR 6/18/92 back-dated # OF EGGS 4 HATCHING DATE 7/2/92

OF HATCHLINGS 4 COWBIRD EGGS? #? 0 UNDEVELOPED EGGS? 0

MEAN MASS AT HATCHING? 2.95(4) FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST FAILED - predated as nestlings DATE OF FLEDGING — # OF FLEDGLINGS 0

SURVIVING TO INDEPENDENCE 0 MEAN MASS DAY 3 (N) 8.40(3) MEAN MASS DAY 5 (N) 12.1(2)

MEAN MASS FLEDGING (N) — FEMALE MASS AT FLEDGING — TIME —

MALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

DATE MALE LAST SEEN — FEMALE BLED (Y/N); DATE 4/12/92 (#813, 1004)

MALE BLED (Y/N); DATE 4/13/92 (#833) IMPLANT DATE 4/13/92 MASS AT IMPLANT 20.9

IMPLANT OK (IN, OUT?) lost by 7/15 IMPLANT REMOVED (Y/N) DATE lost by 7/15

FAT CLASS? —

INDEP. YG ID #'s: 940 93931, 940 93930

AGE OF FLEDGING: —

COMMENTS: Nestling blood sample #'s: 1280, 1279

Had lost implants by 7/15, but treat as control implanted b/c ♂ went through implanting process

Nest found as start (messy dense hair). 4 eggs laid. ♂ clipped after ♀ flushed. All 4 hatched, but on day 3 1 had disappeared and 1 of 3 remaining had a laceration on back of head. On day 6, another had disappeared, but injured nestling still alive on day 5 as well as another. On 7/11 (day 10), nest cup torn out, nest empty.

JUNCO NEST LOG SHEET

bled 1992
8/13

NEST ID WVS 214 II TREATMENT GROUP _____

FEMALE: DATE FOUND 13 June / 6/20 92

BAND # 2101-06204 STATUS WHEN FOUND lined w/ deer hair but messy

COLORS So H61/org (R) Org (L)

MALE:
BAND # 2101-56411

COLORS red (R) 2 d (L)

LOCATION: downhill from power cut + blind road - 170 yds up downhill from blind road - uphill from top of steep path up bank, about 1/2 way up bank. must step up to look in.

EGGS LAID 4 # HATCHED, DATE 4

DATE INCUBATION ONSET 6/21 # FLEDGED/FAIL DATE 7/11

MALE BLED (Y/N), DATE 4/13/92 (#833) IMPLANT REMOVED (Y/N), DATE lost by 7/15

FEMALE STAYED/LEFT _____

| DATE | TIME | STATUS |
|---------|-----------|---|
| 6/13/92 | 0941 | ♀ above nest chipping. Had seen a junco fly off bank RT |
| 6/14/92 | 1146 | messy lining, no sign of any adults LC |
| 6/15/92 | 1149 | lining nest and cup shaped. RT |
| 6/16/92 | 1700 | no change; cent. peck in nest LC |
| 6/19/92 | 1801 | " not active. RT |
| 6/20/92 | 1900 | ♀ chipped, bands I D'd, nest in Hemlock, 4' off ground 3 eggs look very fresh (and very big!), near to chick w/c, for 4th egg |
| 6/22/92 | 1700 | ♀ on 4 eggs (!): have good interval because egg 1 must have been laid on 6/18/92 - yg fledged early 5/22 or late 5/21 - if 5/22 ten interval = 26 days (hmm, seems long). <small>see 6/13</small> |
| 6/22/92 | 1340 | ♀ on 4 eggs; ♂ (red 5 (R) 2 dk be (L)) came when ♀ chipped after being flushed off a flock of 4-5 juveniles also appeared all unbanded; LC (♂ chipped too, assume it is male) |
| 6/25/92 | 1100 | 4 warm eggs, both adults chipped LC |
| 6/26/92 | 1520 | ♀ on, flushed - 4 eggs LC |
| 7/2/92 | 1800 | 3 hatched - 1 egg weighed & polished LC & RT |
| 7/3/92 | 1610 | 4th hatched - weighed & polished LC |
| 7/5/92 | 1615 | weighed & polished 3 young, 1 had a laceration on back of head, 1 disappeared LC |
| 7/7/92 | 1645-1713 | banded & bled 2 3 young, 3rd one disappeared LC nest |

FITNESS CORRELATES SUMMARY SHEET

9/13/92

NEST ID WVS 215 TREATMENT GROUP I → T DATE FOUND 5/12/92

LOCATION in pwr cut up from WVS tag 47 - 10 ft past 3rd telephone pole up from a parking lot

MALE ID BAND NO. 2101 06439 COLORS Orange (R) S: red/white (L) AGE A, Y

FEMALE ID BAND NO. 2101 06410 COLORS white (H) (R) red (S) (L) AGE A, 0

DATE OF FIRST EGG 5/17/92 # OF EGGS — HATCHING DATE 6/1/92

OF HATCHLINGS 4 COWBIRD EGGS? 0 UNDEVELOPED EGGS? 0

MEAN MASS AT HATCHING? 3.16 (Day 0-1) FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST Fledged - reached independence DATE OF FLEDGING 6/13/92 # OF FLEDGLINGS 3

SURVIVING TO INDEPENDENCE 2 MEAN MASS DAY 3 (N) 5.68 (3) MEAN MASS DAY 6 (N) 11.53 (3)

MEAN MASS FLEDGING (N) 17.63 (3) FEMALE MASS AT FLEDGING 20.1 TIME 9:15

MALE MASS AT FLEDGING 20.1 TIME 9:10 DATE FEMALE LAST SEEN —

DATE MALE LAST SEEN — FEMALE BLED (Y/N); DATE 4/12/92 (#814)

MALE BLED (Y/N); DATE 4/12/92 (#817) IMPLANT DATE 4/12/92 MASS AT IMPLANT —

IMPLANT OK (Y/N) OUT? 7/15 ok IMPLANT REMOVED (Y/N) DATE 7/15/92

FAT CLASS? —

INDEPENDENT YG ID #'S 940 93441, 940 93442, 940 93443

AGE OF FLEDGING Day 12 (or 13)

COMMENTS: Nestling blood sample #'s: 1096, 1097, 1098

Note - on 5/29 ♂ of WP 189 died at fledging. on 5/30 ♂ 2101-06439 (WVS 215) this ♂ was subsequently associated with nest and subsequently called WP 189 II ♂. Note that WP 189 II nor 189 IIR had young that were bled but WP 189 II had young surviving till day 3.

This must be considered for analysis of fledgling weights and survival and paternity.

Samra 9/5/92

FOUND AS NEST START. 4 eggs laid. All 4 hatched 6/1. 1 nestling missing on day 2 (6/3). Remaining 3 banded + bled (6/6) and caught at fledging (6/13). ♂ fled as nestlings and fledglings. According to f-census, 2 fledglings survived to ind.

JUNCO NEST LOG SHEET

NEST ID WVS 215 TREATMENT GROUP ① 4/12/92 T

FEMALE: DATE FOUND 5/12/92

BAND # 2101-06410 STATUS WHEN FOUND nest building

COLORS WHITE/LT GRN ③ RED ④ S ④ (♀ BLED 4/12/92)

MALE: BAND # 2101-06439

COLORS 2 ORG ② SO WHITE/RED ④

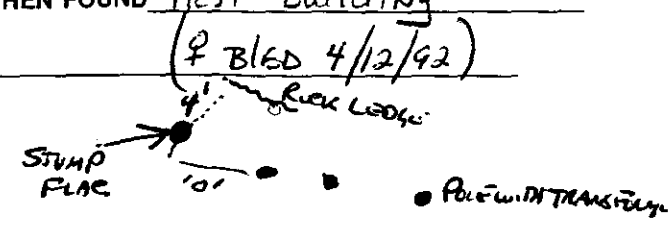
LOCATION: IN POWER CUT (UP FROM WVS TAG 47) SEE ABOVE

EGGS LAID — # HATCHED, DATE 4, 5/31/92

DATE INCUBATION ONSET 5/19/92 # FLEDGED/FAIL, DATE 3, 6/13/92

MALE BLED (Y/N), DATE 4/12/92 IMPLANT REMOVED (Y/N), DATE 7/15/92

FEMALE STAYED/LEFT



DATE TIME STATUS

- 5/12/92 1030 Followed ♀ for 1/2 hour earlier. Picked up in woods by road & then both flew to power cut. ♀ went in & out of cavity 3 times. ♂ also did same. Later ♀ took a little mess to cavity.
- 5/14/92 7m EK saw both birds - male male in cavity, ~~seen~~ saw ♀ put some mess in cavity. ca 1800 no building between 1000 and 1030 egg (1), I marked EK, no birds around
- 5/17/92 1730
- 5/20/92 16:22 ♀ on, 4 fresh-looking eggs, no ♂ seen
- 5/21/92 16:25 ♀ on, didn't look like ♀
- 5/24/92 11:15 ♀ off, 4 warm eggs.
- 5/30 9:58 ♀ off but came to chipped as I checked eggs - 4 warm, chalky eggs
- 5/31 10:30 ♀ there chipping, 2 eggs hatching 2 out (one of these is cracked on side) MW
- 6/1 18:12 ♀ off, but there + chipping, all 4 hatched. MW
- 6/3 14:15 ♀ on. WET 9:00, MESSING. Young, one gone. 3 left. ♀
- 6/6 15:20 banded + bled (Day 6) the 3 remaining young, ♀ on, both parents chipping MW
- 6/10 10:00 SET NOT IN RAIN. BOTH ADULTS PRESENT, FEEDING. Casually seen
- 6/12 1630 AT LEAST ONE YOUNG STILL IN NEST. ♀ PRESENT. TOMORROW PLEASE DAY!
- 6/13 900-930 FLEDGED NOT CT EVERYONE. SAC, 24, LL. BLOOD ANALIS. (day 12)
- 6/14 1600 Walked up + down pt 6 ch. & could not find family!! SARE
- 6/15 16:35-17:30 ① census ♂ singing near old nest site - did not see ♀ or fledglings but I was chipped at mildly and briefly and thought that I heard fledgling screams.

BLED 4/12/92 B14 B17

JUNCO NESTLOG SHEET, CONT.

| DATE | TIME | STATUS |
|------|-----------|--|
| 6/16 | 1100-1130 | saw 2 yel/dk bl ♂ & one other on old GO west of nest ♂ sang |
| 6/19 | 1550 | CT ♂ ABOVE WPTAG 2 WITH NET, LARG. ^{TAP} IMPACTS OK. 3 |
| 6/20 | 1415 | saw ♂ 2 yel/dk bl & 2 org/lt bl ♀ had nesting material. an unbanded ♂ intruded on territory & resident chased intruder & sang ♂ also fed ♂ |
| 6/23 | 11-1145 | SET NET TO CATCH UB ♂ INTRUDER. CT ♂ INSIDE. SAW 2 FLOCKS - MYS 3-2 |
| 6/25 | 1115 | saw 2 yel/dk bl & one other in hemlocks north of nest, a ♂ sang nearby, ♀ fed but ♂ also foraged LC |
| 6/26 | 1430-1500 | saw 2 org/lt bl & 2 yel/dk bl 95% that there are only 2 ♂ ♂ fed 2 yel/dk bl LC |
| 7/16 | 1600 | saw + in tree treefall branches near old nest searched for nest but could not find LC |

FITNESS CORRELATES SUMMARY SHEET

9/13 mhc

NEST ID WVS 216 TREATMENT GROUP (I) 4/12/92 C DATE FOUND 5/12/92
 LOCATION in grass opposite huge treefall just above pwr cut + just above GDR.
 MALE ID BAND NO. 2101 06962 COLORS lt bl o S o yel (R) lt bl / blk (L) AGE A, Y
 FEMALE ID BAND NO. 2101 06691 COLORS lt bl (R) S o org o dk bl (L) AGE A, Y
 DATE OF FIRST EGG 5/17/92 # OF EGGS 4 UNDEVELOPED EGGS? #? 0 *
 HATCHING DATE 6/2/92 # OF HATCHLINGS 2 COWBIRD EGGS? #? NONE
 MEAN MASS AT HATCHING? 2.9 (N=2) FEMALE MASS AT HATCHING? - MALE MASS AT HATCHING -
 FATE OF NEST failed 6/4 or 6/5 as nestling s DATE OF FLEDGING ^{DID NOT} FLEDGE # OF FLEDGINGS 0
 AGE OF FLEDGING - # SURVIVING TO INDEPENDENCE 0 MEAN MASS DAY 3 (N) -
 MEAN MASS DAY 6 (N) - MEAN MASS FLEDGING (N) -
 INDEPENDENT YOUNG ID NO. -
 FEMALE MASS AT FLEDGING - TIME - DATE FEMALE LAST SEEN -
 MALE MASS AT FLEDGING - TIME - DATE MALE LAST SEEN -
 FEMALE BLED (Y/N); DATE 4/12/92 (#805)
 MALE BLED (Y/N); DATE 4/12/92 (#801, 1327) IMPLANT DATE 4/12/92 MASS AT IMPLANT 21.0
 IMPLANT OK (IN, OUT?) ^{IN 5/5} OUT/LOST 7/15 IMPLANT REMOVED (Y/N) DATE Lost b/n 5/5 + 7/15
 FAT CLASS? -

COMMENTS: *2 partially developed eggs
 ♂ did not have (C) implants in water caught 7/15.

Found as nest start 5/12. 4 eggs laid. 2 hatched (6/2). 2 unhatched were partially developed. Nest found empty 6/5 (day 3).

BUNCO NEST LOG SHEET

WVS 216

NEST ID W GDR TREATMENT GROUP (I) 4/12/92 C

FEMALE: DATE FOUND 5/12/92

BAND # 2101 - 06691 STATUS WHEN FOUND FINE GORSET

COLORS LTBL @ SCORGOORAL (♀ BLED 4/12/92)

MALE: ~~_____~~

BAND # ? 2101 - 06962

COLORS LTBL @ S O YEL LTBL / BLK

LOCATION: IN GRASS OPPOSITE HUGE TREE FALL (NEAR BASE OF PIT) FLAG IN GENERAL AREA ^{just above} ~~cut~~ ^{just} ~~above~~ GDR

EGGS LAID 4 # HATCHED, DATE 2, 6/2/92

DATE INCUBATION ONSET 5/20/92 # FLEDGED (FAIL), DATE ~~between~~ between 6/3 AND 6/5

MALE BLED (Y/N), DATE 4/12/92 IMPLANT REMOVED (Y/N), DATE GONE/LOST by 7/15

FEMALE STAYED/LEFT _____

| DATE | TIME | STATUS |
|---------|-----------|---|
| 5/12/92 | 1115 | SAW PAIR (COULD NOT ID ♂) IN AREA OF TREE FALL - SEARCHED (NITELY TO GET THEM) & FOUND AT BASE OF PIT. |
| 5/14/92 | 1500 | SAW LTBL SCORAL @ LTBL/BLK. ♂ IN POWER CUT. NO ♀. ^{hour} SOME DEER IN. NO OFF. Egg |
| 5/15/92 | 830 | LINED WITH ANDER HAIR Egg |
| 5/16/92 | 820 | Nothing - PERHAPS THIS HAS BEEN ABANDONED? |
| 5/17/92 | 1715 | egg 1 (!) ♀ was around but I did not see her bands, ♂ with bands like those seen intruding and another pair close to WVS on 5/16/92 |
| 5/20/92 | 16:38 | ♀ niton, no parents seen, 4 fresh-looking, peachish eggs |
| 5/21/92 | 1045 | ♀ on Egg |
| 5/21/92 | 1530 | ♀ on Egg |
| 5/23/92 | 1130 | ♀ on Egg |
| 5/24/92 | 1130 | ♂ recoded down powercut. He had a close encounter w/a SS Hawk RT |
| 5/25/92 | 1900 | ♀ not on, 4 warm eggs MW |
| 5/31 | 16:35 | ♀ off 4 warm eggs mopping MW |
| 6/1 | 18:07 | ♀ on: 2 chalky eggs (one sipping), 2 translucent. 1 MW |
| 6/3 | 1430-1530 | CHICKEN ♂ ID. WHEN I WENT TO NESS ♀ FLEW HOOD & ATOL @ S O YEL LTBL/BLK WAS RIGHT THERE CRIPPING GRASS |

2441022
505
2661023
801

| DATE | TIME | STATUS |
|------|-----------|--|
| 6/3 | 1430-1530 | REMOVED 2 EGGS. THEY WERE PARTIALLY DEVELOPED. 2g. |
| 6/5 | 17:06 | NEST EMPTY - NO SIGN OF ADULTS OR YOUNG. |
| 6/10 | PM | MARKED FOR 1/2 HR. SAW NONE. |

WITNESS CORRELATES SUMMARY SHEET

9/3 n

NEST ID WVS 217 TREATMENT GROUP CC DATE FOUND 5/14/92LOCATION 1.5 mile down 700' high on East bankMALE ID BAND NO. 2101 226531 COLORS S. dk grn / org / blk / pink AGE A, YFEMALE ID BAND NO. 2011 22657 COLORS S. dk blk / yel / blk / grn / blk / grn AGE A, DDATE OF FIRST EGG ~ 4/20 - 23/92 # OF EGGS — HATCHING DATE ~ 5/5-7/92# OF HATCHLINGS — COWBIRD EGGS? #? — UNDEVELOPED EGGS? 0MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —FATE OF NEST Fledged - reached independence DATE OF FLEDGING 5/16/92 # OF FLEDGINGS 4# SURVIVING TO INDEPENDENCE 1 MEAN MASS DAY 3 (N) — MEAN MASS DAY 6 (N) —Estimated (n Day 10)
MEAN MASS FLEDGING (N) 15.25 (4) FEMALE MASS AT FLEDGING 20.3 TIME 1045MALE MASS AT FLEDGING 19.1 TIME 1000 DATE FEMALE LAST SEEN —DATE MALE LAST SEEN — FEMALE BLED (Y/N); DATE 5/16/92 (#964)MALE BLED (Y/N); DATE 5/16/92 (#965) IMPLANT DATE — MASS AT IMPLANT —IMPLANT OK (IN, OUT?) — IMPLANT REMOVED (Y/N) DATE —FAT CLASS? —INDEP Y6 ID #'s 940 93507, 940 93508, 940 93509, 940 93510AGE OF FLEDGING est Day 10 - fledged by usCOMMENTS: Nestling blood samples #s: 974, 975, 976, 977

Nest found w/ 4 nestlings ~ day 8. Banded and bled ~ day 10 (5/16) and fledged on same day. 0 fledged fledglings. According to f-census, only 1 survived to ind.

JUNCO NEST LOG SHEET

(CC)

NEST ID WVS 217 TREATMENT GROUP _____

FEMALE: DATE FOUND 5/14/92

BAND # 2011 22657 STATUS WHEN FOUND 4 YOUNG, DAY

COLORS SOOKBL/YEL (R) DKGRN/LTGRN (L)

MALE:

BAND # 2101 06531

COLORS SLTGRN/DKGRN (R) BLK/PINK (L)

LOCATION: ~ 15 MILES DOWN ON 700 HIGH ON EAST BANK, FLAG!

EGGS LAID _____ # HATCHED, DATE ~ 5/5-7/92

DATE INCUBATION ONSET ~ 4/23-26/92 # FLEDGED/FAIL, DATE 4, 5/16/92

MALE BLED (Y/N), DATE 5/16/92 IMPLANT REMOVED (Y/N), DATE _____ NA.

FEMALE STAYED/LEFT _____

Bled 1992 9/65

| DATE | TIME | STATUS |
|---------|-----------|--|
| 5/14/92 | 1130 | 4 Young DAY _____ . LOOK MUCH TOO OLD TO BAND. BOTH ADULTS FEEDING. |
| 5/15/92 | 810 | SAW BOTH ADULTS IN AREA. COULD SEE YOUNG (?#) IN NEST FROM CALN ROAD. Zj |
| 5/16/92 | 1000-1100 | CF both adults + bled, banded + bled 4 young probably were day 10 - they emerged between 15 and 16 of ERVN, at least 2 young still alive, both parents seem to act as if she has minor injury to wing or foot (perched low) she started to fly |
| 5/17/92 | 1630 | ERVN, at least 2 young still alive, both parents seem to act as if she has minor injury to wing or foot (perched low) she started to fly |
| 5/20/92 | 930-1030 | LOOK FOR FLEDGERS. FOUND 3. SLTGRN/WHITE (L) DKGRN, YEL, RED/LTGRN. PARENTS FEED APTEN. GOOD PARENT TO WATCH. ACT Fussy AT ALL. Zj |
| 5/24 | 930-1000 | FOUND SAME 3 UP HILL FROM NEST (IN WOODS 10-30 YARDS) DOWN ABOUT 65 STEPS. BOTH ADULTS FEED YOUNG B3 & CHASE ADULTS. R/LTGRN. PARENTS FEED THEMSELVES |
| 5/30 | | |
| 5/31 | 1700 | saw adults & one fledge (red/ltgrn) on west side of WVS down hill LC |
| 6/1 | 1600 | saw ♀ and red/ltgrn foraging near parent on west side of WVS LC |
| 6/09 | 1030-1100 | FOUND ... OF GEO ... |

FITNESS CORRELATES SUMMARY SHEET

5/13
9/13 mtc

1/x

NEST ID WVS 217II TREATMENT GROUP (CC) DATE FOUND 5/14/92

LOCATION 700 .13m (1st pair cut) East side, up ~ 3 ft

MALE ID BAND NO. 2101 01531 COLORS Soft green / egg @ bill / pink @ AGE A.Y

FEMALE ID BAND NO. 2011 22657 COLORS So dk bl / yel @ dk green / lt green @ AGE A.O

DATE OF FIRST EGG 6/10/92 # OF EGGS 4 HATCHING DATE —

OF HATCHLINGS 0 COWBIRD EGGS? #? 0 UNDEVELOPED EGGS? —

MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST failed - during incubation DATE OF FLEDGING — # OF FLEDGINGS 0

SURVIVING TO INDEPENDENCE 0 MEAN MASS DAY 3 (N) — MEAN MASS DAY 6 (N) —

MEAN MASS FLEDGING (N) — FEMALE MASS AT FLEDGING — TIME —

MALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

DATE MALE LAST SEEN — FEMALE BLED (Y/N); DATE 5/16/92 (#964)

MALE BLED (Y/N); DATE 5/16/92 (#965) IMPLANT DATE — MASS AT IMPLANT —

IMPLANT OK (IN, OUT?) — IMPLANT REMOVED (Y/N) DATE —

FAT CLASS? —

INDEP. YG ID #s: —

AGE OF FLEDGING: —

COMMENTS: —

Found as nest start. 4 eggs laid. Nest found empty on 5th day of inc.

JUNCO NEST LOG SHEET

NEST ID WVS 217 II

TREATMENT GROUP (C)

DATE FOUND 06/09/92

964

FEMALE:

BAND # 2011 22657

STATUS WHEN FOUND GLASSLINED

COLORS SCORBL/YEL DK GRN/LT GRN

MALE:

965

BAND # 2101 06531

COLORS SO LT GRN O DKG BLK PINK

LOCATION: 700 .13 M (1ST POU ON CUR) EXISTING UP ABOUT 3'.

EGGS LAID 4 # HATCHED, DATE —

DATE INCUBATION ONSET 6/13/92 # FLEDGED/FAIL, DATE —

MALE BLED (Y/N), DATE 5/16/92 IMPLANT REMOVED (Y/N), DATE —

FEMALE STAYED/LEFT —

| DATE | TIME | STATUS |
|---------|-----------|--|
| 6/09/92 | 1030-1130 | WATCH DARK OFF SON FOR HOUR. GOT A GLIMMER OF ABILITY OFF BANK. FOUND A GOOD NEST START. <i>Zy</i> |
| 6/10/92 | 910 | LINED \$ 1 EGG. <i>Zy</i> |
| 6/11/92 | AM | 2 EGGS. |
| 6/12/92 | 1045 | 3 EGGS. |
| 6/13/92 | 1405 | F ON PROBABLY LAID EGG #4 TODAY <i>Zy</i> |
| 6/14/92 | 1527 | 4 warm eggs <i>LL</i> |
| 6/16/92 | 1630 | F on <i>LL</i> |
| 6/17/92 | 0700 | F off 100% massive pigment <i>Zy</i> 4 eggs with |
| 6/19/92 | 1300 | F ON TIGHT. <i>Zy</i> |
| 6/24/92 | 1300 | CONTENTS EMPTY - NEST FAILED! <i>Zy</i> |

FITNESS CORRELATES SUMMARY SHEET

2/1 MW
9/13 mhc

NEST ID WVS 218 TREATMENT GROUP I → C DATE FOUND 5/14/92

LOCATION 30 steps before WVS tag 51 IN bank

* MALE ID BAND NO. 2011 22299 COLORS 11bl/bk + S. bk (R) 11bl/bk (L) AGE A 0
FEMALE ID BAND NO. 2021 09671 COLORS 11bl/bk (R) S. orange Hg (L) AGE A 0

DATE OF FIRST EGG 5/17-18/92 ^{back} ~~dated~~ # OF EGGS 3; JUNCO, 1 CB HATCHING DATE 6/1/92

OF HATCHLINGS 2 COWBIRD EGGS? #? YES 1 UNDEVELOPED EGGS: 0

MEAN MASS AT HATCHING? 2.75(2) FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST Fledged (Naturally) DATE OF FLEDGING 6/12/92 # OF FLEDGINGS 2

SURVIVING TO INDEPENDENCE 0 MEAN MASS DAY 3 (N) 7.15(2) MEAN MASS DAY 6 (N) 14.0(2)

MEAN MASS FLEDGING (N) — FEMALE MASS AT FLEDGING — TIME —

MALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

DATE MALE LAST SEEN — FEMALE BLED (Y/N): DATE 6/12/92 (#828, 1134)

MALE BLED (Y/N): DATE 4/12/92 (#820) IMPLANT DATE 4/12/92 MASS AT IMPLANT 23.0

IMPLANT OK (IN. OUT?) ♂ not caught after being implanted on 4/12. IMPLANT REMOVED (Y/N) DATE NOT REMOVED.

FAT CLASS? —

INDEP YG ID #s 940 93444, 940 93445

AGE OF FLEDGING: Day 11

COMMENTS: Nestling blood sample #s: 1115 + 1303 (both for 940 93444), 1116 (for 940 93445)

All three junco egg were probably fertile. MW most likely was the one to crack the egg that didn't ~~hatch~~ hatch, so it dried up.

(* These adults are the SAME as adults associated with WVS 211 nest. ∴ could be parent for WVS 211.

♂ not caught after being implanted on 4/12.

Found as nest start. 1 CB egg found 1* (5/22), then 3 JUNCOS laid. 1 egg cracked (possibly by MW?). 2 eggs hatched 6/1. (Cracked egg did not).
♂ fed nestlings and fledglings.

2
+ mass of
found in nest
start of nestling

JUNCO NEST LOG SHEET

820 Weed, WVS 211 828

NEST ID WVS 218 TREATMENT GROUP (I) 4/12/92
 FEMALE: DATE FOUND 5/14/92
 BAND # 2021-09671 STATUS WHEN FOUND LINED WITH DOOR HAIR.
 COLORS YEL/BLK (B) SO ORG OR GRN (L)
 MALE:
 BAND # 2011-22299
 COLORS LT BL/BLK + SO BLK (R) LT BL/BLK (L)
 LOCATION: 33 STEPS BEFORE WVS TAG 59
 # EGGS LAID — # HATCHED, DATE 2, 6/1/92
 DATE INCUBATION ONSET 5/20/92 # FLEDGED/FAIL, DATE 6/12/92
 MALE BLED (Y/N), DATE 4/12/92 IMPLANT REMOVED (Y/N) DATE not recorded.
 FEMALE STAYED/LEFT

| DATE | TIME | STATUS |
|-----------------|-----------------|---|
| 5/14 | 1030 | PARTLY LINED WITH DOOR HAIR ^{Zf} |
| 5/15 | 810 | ONE CB EGG ^{Zf} |
| 5/16 | 805 | STILL ONE CB EGG |
| 5/18 | 1700 | ONE CB egg RT |
| 5/20 | 0750 | 3 JUNCO / 1 CB EGG ^{Zf} |
| | 1130 | SAW ♀; GOT COCKS ^{Zf} |
| 5/21 | 1030 + 1655 | ♀ ON TIGHT. ^{Zf} |
| 5/22 | 1820 | ♀ OFF REMOVED CO EGG |
| 5/23 | 1100 | ♀ ON ^{Zf} |
| 5/24 | 900 | ♀ OFF |
| | 1220 | ♀ ON ^{Zf} |
| 5/25 | 1100 | ♀ ON ^{Zf} |
| 5/27 | 1155 | ♀ ON ^{Zf} |
| 5/30 | 1815 | ♀ ON 3 eggs, one cracked (by me, I think), no ♂ seen. MW |
| 5/31 | 1120 | ♀ ON (♀ birds confirmed). 3 warm eggs. no ♂ seen. MW |
| 6/1 | 1745 | ♀ ON - 2 hatched (the unhatched egg is the cracked one) |
| 6/2 | 1602 | ♀ ON - 2 hatched (the unhatched egg is the cracked one) |
| 6/04 | 1500 | ♀ ON - WEIGHT MEAS. ON 2 NESTLINGS. ^{Zf} |
| 6/05 | 915 | ♀ ON. ^{Zf} |
| 6/7 | 1809 | ♀ off, banded, weighed & measured 2 nestlings - active bird (first one) and couldn't get <u>with</u> brood & it was pouring rain so I left the bird on with her siblings. ^{Zf} |

JUNCO NESTLOG SHEET, CONT.

| DATE | TIME | STATUS |
|------|--------------|--|
| 6/8 | 10:20 | ♀ on, both parents there, bleed both nestling but couldn't even get 1 tube from either - try bleeding again at fledging. MW |
| 6/9 | 13:35 | active MW |
| 6/10 | 11-1130 | WATCHED BOTH ADULTS FEED (16 TIMES). |
| 6/11 | PM | SET NET ABOVE NEST (COULD ONLY SEE ONE NESTLING) |
| 6/12 | 1130 1430 | CHECKED BOTH ADULTS PRESENT. ONLY ONE NESTLING IN. (THOUGH ADULT FEEDING THEM) LAME BACK TO FLEDGE ALL GONE. OPENED NET & PLAYED FLEDGE TAPE. BOTH EXCITED AT. ♀ & BLEED HER. ♂ WOULD NOT GET IN POSITION TO BE FORCED INTO NET. COULD HEAR AT LEAST ONE FLEDGE UP HILL. TOOK NET DOWN 1830-75 |
| 6/14 | 1215 | saw org/lt bl, maybe heard another; just south of nest uphill almost to power cut LC |
| 6/15 | 10:45-1135 | ♀ chipped at me below road near nest - saw no young + no MW. |
| 6/16 | 1703 | saw org/lt bl in hemlock below WVS near nest no other ♂ seen or heard, ♂ feed LC |
| 6/18 | 1700 | SAW ♂ FEED W/ WIGAN & HEALD MOTHER. NO ♀ Z.G. |
| 6/21 | 1600 | saw ♂ feed org/lt bl & heard the other down hill across from nest LC |
| 6/25 | 1130 | thought I heard a ♂ on west side of WVS near nest; could not find LC |
| 6/26 | 1600-1700 | couldn't find anybody LC |
| 6/29 | 1800-1830 | looked for family along road and on Indian Trail - no song, no sighting; next to look about road of |

fledging of
out
day !!

FITNESS CORRELATES SUMMARY

NEST ID WVS 218 II TREATMENT GROUP I → C DATE FOUND 7/11/12

LOCATION downhill

MALE ID BAND NO. 2011 22219 COLORS 14bl/bk 0S 0bk 0#bl/bk AGE 1

FEMALE ID BAND NO. 2021 09671 COLORS y/bk 0 Saorg 0 Agn 0 AGE 1

DATE OF FIRST EGG 7/11/12 # OF EGGS 4 UNDEVELOPED EGGS? 0

HATCHING DATE 7/14/12 # OF HATCHLINGS 4 COWBIRD EGGS? 0

MEAN MASS AT HATCHING? 2.5 (3) FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST predated DATE OF FLEDGING — # OF FLEDGLINGS 0

AGE OF FLEDGING — # SURVIVING TO INDEPENDENCE 0 MEAN MASS DAY 3 (N) 11.2 (5)

MEAN MASS DAY ⁵ (N) 11.9 (1) MEAN MASS FLEDGING (N) —

INDEPENDENT YOUNG ID NO. 940 93495

FEMALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

MALE MASS AT FLEDGING — TIME — DATE MALE LAST SEEN —

FEMALE BLED (Y/N); DATE 11/1/12 (#828, 1134)

MALE BLED (Y/N); DATE 4/12/12 (#820) IMPLANT DATE 4/12/12 MASS AT IMPLANT —

IMPLANT OK (IN, OUT?) not caught after being implanted on 4/12. IMPLANT REMOVED (Y/N) DATE —

FAT CLASS? —

Nestling blood sample #5: 1326

COMMENTS:

♂ not caught after being implanted on 4/12.

* These adults ARE also adults associated w/ WVS 211 nest. ∴ "WVS 218 II" could also be "WVS 211 R2".

found w/ 4 eggs. ♀ inc. All 4 hatched 7/14. All 4 survived to day 3, but 1 missing on day 6. (Remaining nestling had boldly lined). At 10, still 1 nestling, but nest found empty day 11. Messy nest cup. Assumed predated.

JUNCO NEST LOG SHEET

NEST ID WV5218 II TREATMENT GROUP I 4/12/92

FEMALE: DATE FOUND 7/7/92

BAND # 2021-09671 STATUS WHEN FOUND 4 eggs, ♀ incub.

COLORS Yel/BK (R) So Org o Ltgrn (L)

MALE:

BAND # 2011 - 22299

COLORS Lt Bl/BK o S o BK (R) Lt Bl/BK (L)

LOCATION: 25 paces before net at tag 59 then 40 paces downhill (flipped) 2m up in witch head

EGGS LAID — # HATCHED, DATE —

DATE INCUBATION ONSET — # FLEDGED/FAIL, DATE —

MALE BLED (Y/N), DATE — IMPLANT REMOVED (Y/N) DATE Not removed.

FEMALE STAYED/LEFT —

| DATE | TIME | STATUS |
|--------|-----------|--|
| 7/7/92 | 0943 | ♀ flushed off nest, ran along ground. 4 eggs. ♂ came in quickly - had been singing to S. RCT |
| | 1638. #25 | Intruder test - no reaction though fledglings (unseen) were close to cage. ♀ on nest at end of period. ♂ sang to S and SW. Many songs from other ♂ to W, S, RCT |
| 7/10 | 1928? | ♀ flushed off 4 eggs RCT |
| 7/14 | 1600 | Day 0! 3 hatched, one didn't LC |
| 7/17 | 1525 | Day 3: 4 young weighed & polished LC |
| 7/19 | 1630 | Day 5 - only red @ left in nest - weighed, measured + banded but couldn't get even 1 tube of blood. MW. (2 adults chipping but colors not read) |
| 7/20 | 1430 | day 6 - EK had the remaining nesting, both adults started alarm (sawbark on ♀), young had both larvae - one in right wing, one in foot, I removed - but removal was clean, only one was puffy. |
| 7/24 | 1700 | set up nest - 1 fledgling on nest, ♂ ♀ ♀ feeding |
| 7/25 | — | Fledging Day - saw ♂ ♀ ♀ found nest empty, lots of feathers around nest cup, no signs of adults. assumed nest was poached LC |

Wed 1992 820

JUNCO NEST LOG SHEET

NEST ID WUS 219 TREATMENT GROUP UNKNOWN

FEMALE: DATE FOUND 5/14/92

BAND # UNKNOWN STATUS WHEN FOUND 1 cowbird egg

COLORS -

MALE:

BAND # UNKNOWN

COLORS -

LOCATION: WUS TAG 65 UP ON BANK

EGGS LAID ? #HATCHED, DATE NONE

DATE INCUBATION ONSET - #FLEDGED/FAIL, DATE -

MALE BLED (Y/N), DATE - IMPLANT REMOVED (Y/N), DATE -

FEMALE STAYED/LEFT -

| DATE | TIME | STATUS |
|---------|------|---------------------|
| 5/14/92 | AM | 1 CB egg |
| 5/15/92 | 805 | still 1 CB egg |
| 5/16/92 | 810 | still 1 CB egg |
| 5/18/92 | 1640 | no eggs RT |
| 5/20/92 | 900 | 1 CB egg |
| 5/21/92 | 1650 | removed CB egg - 2j |

NEST PROBABLY NEVER USED.

FITNESS CORRELATES SUMMARY SHEET

MW 8/23

9/14 note

NEST ID TREATMENT GROUP I → T DATE FOUND

LOCATION

MALE ID BAND NO. COLORS AGE A, Y

FEMALE ID BAND NO. COLORS AGE A, Y

DATE OF FIRST EGG ~4/28 - 5/2/92 # OF EGGS UNDEVELOPED EGGS? #? 0

HATCHING DATE ~5/13-15/92 # OF HATCHLINGS COWBIRD EGGS? #? 0

MEAN MASS AT HATCHING? FEMALE MASS AT HATCHING? MALE MASS AT HATCHING

FATE OF NEST DATE OF FLEDGING 5/10/92 # OF FLEDGINGS 2

AGE OF FLEDGING ~10 days # SURVIVING TO INDEPENDENCE 2 MEAN MASS DAY 3 (N)

MEAN MASS DAY 6 (N) MEAN MASS FLEDGING (N) 17.81

INDEPENDENT YOUNG ID NO. 940 93120

FEMALE MASS AT FLEDGING TIME DATE FEMALE LAST SEEN

MALE MASS AT FLEDGING 19.4 TIME 1200 DATE MALE LAST SEEN

FEMALE BLED (Y/N); DATE 5/21/92 (#989)

MALE BED (Y/N); DATE 5/22 (#877,991) IMPLANT DATE 4/10/92 MASS AT IMPLANT NOT WEIGHED

IMPLANT OK (IN) OUT? 5/11, 5/22 ok IMPLANT REMOVED (Y/N) DATE

FAT CLASS?

NESTLING blood sample #s: 992, 993, 994

COMMENTS: re paternity - cd ♂ at fledging

Was implants removed? Status OK?
 NO EVIDENCE IN IMPLANT
 THIS HAD BEEN
 REMOVED.

Zig or Lori?
♀ mass at fledging?

Nest found w/ 3 nestlings ~ day 8. Banded and bled and fledged ~ day 10. ♂ chippy + singing. According to F-CENSUS, 2 survived to ind.

JUNCO NEST LOG SHEET

NEST ID WVS 220 TREATMENT GROUP I^{-T} 4/16/92

FEMALE: DATE FOUND 20 May 1992

BAND # 940-93117 STATUS WHEN FOUND 3 ~10 day old nestlings

COLORS YELC OK BLO YOL 06905

MALE:

BAND # 2101 06077

COLORS So Ro Y (R) LAV to (L) M FROM WVS TAG 2 (NEAR GATE) AS YOU GO YOU PASS 2 LARGE TREE FALLS.

LOCATION: ~200m SE of WVS - enter 20m S of WVS/WVN fork follow in tree fall - look from side to find

EGGS LAID at least 3 # HATCHED, DATE -, ~ 5/13 15/92

DATE INCUBATION ONSET ~ 5/1-4/92 # FLEDGED/FAIL, DATE 3, 5/22/92 (est Day 10)

MALE BLED (Y/N), DATE 4/16/92 IMPLANT REMOVED (Y/N), DATE _____

FEMALE STAYED/LEFT _____

| DATE | TIME | STATUS |
|---------|-----------|--|
| 5/20/92 | 1240 | 3 yg in nest, both parents chipping in trees. RT |
| 5/21/92 | 0800 | SET NET, CT ♀. RUSS BLED & ZIG BANNED & TOOK WAM. 3 YOUNG STILL IN NEST DAY? CERTAINLY CLOSE TO FLEDGING |
| 5/22/92 | 0810-840 | TOOK 3 YOUNG, CT ADULTS IN NET. (LOOK DAY 10) BLED ♂ ZIG, LIRI. |
| 5/23/92 | 900-1025 | BOTH ADULTS & 2 YOUNG (YEL & ONE OR MORE) BETWEEN TAG 4 & 5 IN WOODS 75 YDS |
| 5/25/92 | 1700-1800 | Both adults & 2 young found near Tag 2 |
| 5/27 | 0930-1030 | Both adults & young found near Tag 2. One young to right of stream |
| 6/1 | 1500 | Both adults & yel & red found near flagged treefall at head of stream - Tag 5 |
| 6/5 | 1100 | NO sign of fledglings → singing at head of stream |
| 6/6 | 1000 | ♀ & ♂, red and yel seen near new nest |

2101 1992 #989
 2101 1992 #877

FITNESS CORRELATES SUMMARY SHEET

8/25 AM
9/4 mb

NEST ID WVS 2202 TREATMENT GROUP (I) → T DATE FOUND 5/12/92
 LOCATION Tag 2 follow stream ~200m in large tree fall
 MALE ID BAND NO. 2101 06077 COLORS Sored eyes (B) low (D) AGE A, Y
 FEMALE ID BAND NO. 940 93117 COLORS yel o d k bl o yel (B) Orgo S (D) AGE A, Y
 DATE OF FIRST EGG ~ 6/3/92 # OF EGGS 4 UNDEVELOPED EGGS? #? —
 HATCHING DATE — # OF HATCHLINGS — COWBIRD EGGS? #? 0
 MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —
 FATE OF NEST FAILED ^(as eggs) - PREDATED DATE OF FLEDGING — # OF FLEDGINGS 0
 AGE OF FLEDGING — # SURVIVING TO INDEPENDENCE 0 MEAN MASS DAY 3 (N) —
 MEAN MASS DAY 6 (N) — MEAN MASS FLEDGING (N) —
 INDEPENDENT YOUNG ID NO. —
 FEMALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —
 MALE MASS AT FLEDGING — TIME — DATE MALE LAST SEEN —
 FEMALE BLED (Y/N); DATE 5/21/92 (#989)
 MALE BLED (Y/N); DATE 4/16; 5/22/92 IMPLANT DATE 4/16/92 MASS AT IMPLANT not weighed
 IMPLANT OK (IN) OUT? 5/11, 5/22 ok IMPLANT REMOVED (Y/N) DATE —
 FAT CLASS? —

COMMENTS:

6/13 nest was pulled out, eggs gone, no sign of adults

Found w/ 3 eggs. 1 more laid (6/6). All eggs gone ~ day 7 of inc.
Nest cup pulled out.

Implants removed?

JUNCO NEST LOG SHEET

NEST ID WVS 220^{II}R TREATMENT GROUP I → T

FEMALE: DATE FOUND _____

⁹³⁶ BAND # _____ STATUS WHEN FOUND _____

COLORS _____

MALE:

BAND # _____

⁸⁷⁷ COLORS _____

LOCATION: _____

EGGS LAID _____ #HATCHED, DATE DID NOT HATCH

DATE INCUBATION ONSET ~6/6/92 #FLEDGED (FAIL) DATE 6/11-13/92

MALE BLED (Y/N), DATE 4/16/92 IMPLANT REMOVED (Y/N), DATE _____

FEMALE (STAYED/LEFT) _____

| DATE | TIME | STATUS |
|------|------|--|
| 6/6 | 1000 | 4 eggs, ♀ & ♂ chippy, ⊕ in vicinity LC |
| 6/11 | 1030 | ♀ m, did not flush LC |
| 6/13 | 1800 | nest pulled out, eggs gone - no sign of any young FAILED LC |

FITNESS CORRELATES SUMMARY SHEET

NEST ID WVS 220 IR TREATMENT GROUP I T DATE FOUND _____
 LOCATION ~300m east of WVS Tag 2, follows flight WVS 220
 MALE ID BAND NO. 2101 06077 COLORS Sored on [] [] AGE _____
 FEMALE ID BAND NO. 940 93117 COLORS yellow [] [] AGE _____
 DATE OF FIRST EGG ~6/16-17/92 # OF EGGS _____ UNDEVELOPED EGGS? 1
 HATCHING DATE ~7/2/92 # OF HATCHLINGS 4 COMBIRD EGGS? 1
 MEAN MASS AT HATCHING? ~ Day 1 3.90 (4) FEMALE MASS AT HATCHING? _____ MALE MASS AT HATCHING _____
 FATE OF NEST FAILED? * as nestlings DATE OF FLEDGING _____ # OF FLEDGINGS _____
 AGE OF FLEDGING _____ # SURVIVING TO INDEPENDENCE _____ MEAN MASS DAY 3 (N) 8.28 (4)
 MEAN MASS DAY 6 (N) 10.42 (4) MEAN MASS FLEDGING (N) _____
 INDEPENDENT YOUNG ID NO. 940 93927, 940 93928, 940 93926, 940 93929
 FEMALE MASS AT FLEDGING _____ TIME _____ DATE FEMALE LAST SEEN _____
 MALE MASS AT FLEDGING _____ TIME _____ DATE MALE LAST SEEN _____
 FEMALE BLED (Y/N); DATE 5/21/92 (#989)
 MALE BLED (Y/N); DATE 4/16, 5/22/92 IMPLANT DATE 4/16/92 MASS AT IMPLANT _____
 IMPLANT OK (IN/OUT?) implants O.K. 5/11 IMPLANT REMOVED (Y/N) DATE _____

FAT CLASS? _____
Nestling blood sample #s: 1276, 1277, 1275, 1278

implants removed?

COMMENTS:
 * 7/11 (est. Day 9) net lanes were made & nest checked still in nest
 7/12 (est. Day 10) nest empty young could have fledged early (predator?) but were not seen or heard

Found w/ 5 eggs. 4 hatched ~ 7/2. (Unhatched egg undeveloped.) All nestlings banded and bled days 5 (7/7). ~ Day 9, young in nest. ~ Day 10, nest empty. Predated or fledged? you be the judge.

JUNCO NEST LOG SHEET

NEST ID WVS 237 ^{see WVS 220 II R} TREATMENT GROUP Ⓡ T

FEMALE: DATE FOUND 6/28/92

BAND # 002 93117 STATUS WHEN FOUND 5 eggs

COLORS orange yellow

MALE: BAND # 2101-06090

COLORS orange yellow - lavender

LOCATION: follow flags to WVS 220 II, inclining to the north (see RT or LC) in tree fall

EGGS LAID — # HATCHED, DATE 4, ~ 7/2/92

DATE INCUBATION ONSET ~ 6/20-21/92 # FLEDGED/FAIL, DATE 7/12/92

MALE BLED (Y/N), DATE 4/16/92 IMPLANT REMOVED (Y/N), DATE —

FEMALE STAYED/LEFT —

| DATE | TIME | STATUS |
|------|-----------|--|
| 6/28 | 1000 | found ♀ with 5 very fresh eggs, above <u>(sore data open Ⓡ) chipped</u> (see WVS 220 II R) |
| 7/3 | 1412 | have already hatched! 4 hatched estimated to be Day 1. watched for a while → did not feed but nestlings still young also 1 egg |
| 7/5 | 1815 | weighed & renewed solish of 4 young, all O.K. LC |
| 7/7 | 1540-1620 | Day 5 - banded & bled 4 young all young have sores on body where feathers come in - lots of flies flies in area LC |
| 7/11 | 1500 | made net lanes - at least 3 young LC |
| 7/12 | 1940-1950 | nest empty. not torn up. no adults nearby chipping RCT |
| 7/19 | | OK EXAMINED unincubated egg - not developed. ← |

8/23 MW.

— failed —

OK. later
7/30/92 - WVS 220
no conclusion from
nest failed?

JUNCO NEST LOG SHEET

NEST ID _____ TREATMENT GROUP _____

FEMALE: DATE FOUND 21 June 1992

BAND # _____ STATUS WHEN FOUND grass

COLORS _____

MALE:

BAND # 940-9317

COLORS Yel, Dk Yel, Yel, Orange Ask Lorr C. or RT - for in.

LOCATION: ~350 m E of road (~WVS tag 1); Will ^{flag} mark on next visit. In grass by fallen shagbark hickory.

EGGS LAID _____ #HATCHED, DATE _____

DATE INCUBATION ONSET _____ #FLEDGED/FAIL, DATE _____

MALE BLED (Y/N), DATE _____ IMPLANT REMOVED (Y/N), DATE _____

FEMALE STAYED/LEFT _____

| DATE | TIME | STATUS |
|---------|------|---|
| 6/21/92 | 1048 | something over Y-(R) ♂ singing 15 m from nest. no ♀ seen, may be gathering material. ♂ dipped lightly. Nest is neat grass cup difficult to relocate. RT |
| 6/22/92 | 1410 | deer hair in nest, still not finished though - a bit messy. RT, LC |
| 6/25/92 | 1000 | nest looks finished, deer hair - no eggs LC |
| 6/26/92 | 1000 | no change - see WVS 237 LC |

Y6 Sired BEFORE ♂ IMPLANTED :: CL → paternity. 2/1-
T → ⊕ survival. 9/4 mhc

FITNESS CORRELATES SUMMARY SHEET

NEST ID WVS 221 TREATMENT GROUP (I) T DATE FOUND 5/21/92

LOCATION WVS Tag 12 west downstream ~200 m in lrg tree fall

MALE ID BAND NO. 2101-06530 COLORS Salt green (R) H gen/white (L) AGE AY

FEMALE ID BAND NO. 2101-06734 COLORS Orange (R) Red eye (L) H gen (L) AGE AY

DATE OF FIRST EGG ~ 4/28-5/1/92 # OF EGGS — HATCHING DATE ~ 5/13-15/92

OF HATCHLINGS 4 COWBIRD EGGS? #? 0 UNDEVELOPED EGGS? —

MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING? —

FATE OF NEST Fledged - reached independence DATE OF FLEDGING 5/23/92 # OF FLEDGINGS 4

SURVIVING TO INDEPENDENCE 3 MEAN MASS DAY 3 (N) — MEAN MASS DAY 6 (N) —

estimated est Day 10 or 11
MEAN MASS FLEDGING (N) 15.35 (4) FEMALE MASS AT FLEDGING 18.8 TIME 8:38

MALE MASS AT FLEDGING 19.6 TIME 8:38 DATE FEMALE LAST SEEN —

DATE MALE LAST SEEN — FEMALE BLED (Y/N); DATE 5/23/92 (#999)

MALE BLED (Y/N); DATE 5/08/92 (#928) IMPLANT DATE 5/08/92 MASS AT IMPLANT 22.2

IMPLANT OK (Y/N, OUT?) implants (5/23) IMPLANT REMOVED (Y/N) DATE 7/26/92

FAT CLASS? —

INDEX Y6 ID #'s 940 93122, 940 93123, 940 93124, 940 93125

AGE OF FLEDGING Day 10 or 11 (fledged by us) BLOOD SAMPLE #'S: 995, 996, 997, 998

COMMENTS:
found when nestlings were Day 8 or 9
young held overnight after fledging to observe behavior

found w/ 4 nestlings ~ day 8 or 9. Nestlings banded, bled, fledged ~ day 10.
♂ very chippy. According to F-CENSUS, 3 survived to ind.

JUNCO NEST LOG SHEET

NEST ID WVS 221 TREATMENT GROUP 5/8/92 (1)

FEMALE: DATE FOUND 5/21/92

BAND # 2101-06734 STATUS WHEN FOUND 4 near fledgling

COLORS org 50 org 10 red 0 yel 0 blk - L

MALE:

BAND # 2101-06530

COLORS 80 Horn 0 Org 1 Horn/white - L

LOCATION: WVS N12 down stream first road across bridge 1st in lg tractor field
stream - turn left when all trees are bare

EGGS LAID — # HATCHED, DATE —, ~ 5/13-15/92

DATE INCUBATION ONSET ~ 5/1-4/92 # FLEDGED/FAIL, DATE 4, 5/23/92

MALE BLED (Y/N), DATE 5/8/92 IMPLANT REMOVED (Y/N), DATE 7/26/92

FEMALE (STAYED)/LEFT —

| DATE | TIME | STATUS |
|------|-----------|---|
| 5/21 | 18:30 | 4 nestlings, near fledging, both parents present MW |
| 5/22 | 1745 | 4 nestlings, tail look full size - hope they will stay in until AM - both parents seem to carry food both identifications within territory - val set nest even for fledging tomorrow note implant check - <u>young survived before & implanted.</u> |
| 5/23 | 0800-0700 | ad. male ♀ for DNA, ♂ for hormone, implant check OK, banded ♀ band 4 day 10:11 12 day young - max 1.1g ♀ ♀ band taken full length 12/15, did larvae on 1600-1300 at least 2 had released young as fledging but went back and caught 2 or eventually 3 & put in box to observe behavior - 2 stayed in box over night and released mid of the next 5/24 - by parent had ♀ + ♀ fed, ♀ fed more |
| 5/25 | 1600 | 2 ad. + 3 fledges (could be another), <u>all birds seen</u> <u>all fledges definitely seen</u> ad. very annoyed. RT |
| 5/26 | | 2 ad. + 3 fledges (could be another), <u>all birds seen</u> <u>all fledges definitely seen</u> |
| 5/27 | 005 | ♂ ♀ ♀ white & orange (?) seen. (could be another, s) ad. dge to ... - L |
| 5/31 | 1400 | saw ♂ ♀, wht, orange & blk (!) on east side of WVS Tag 16, ♂ sang when intruder (♂ from WVS 225) showed up L |

bleed 1992
 929
 1992
 929

JUNCO NESTLOG SHEET. CONT.

| DATE | TIME | STATUS |
|------|------|--|
| 6/8 | 1030 | saw org & blk ♂ with parents Tag 17 on east side of WVS |
| 6/10 | 1100 | saw one female on WVS nesting pair to east of WVS saw one male on WVS saw one female on WVS did not see any young on WVS |
| 6/13 | 1430 | saw nest of egg Tag 13 W |
| 6/14 | 1100 | saw nest of 3 on the west side of WVS Tag 14 east of WVS ~ 200' |

FITNESS CORRELATES SUMMARY SHEET

8/23 mtc
9/14 mtc

NEST ID WVS 221 II TREATMENT GROUP (I) T DATE FOUND 6/14/92

LOCATION WVS Tag 8 west of parent ~100m in lg treefall

MALE ID BAND NO. 2101-06530 COLORS Saltgrn.org (R) Lt gra/white AGE AY

FEMALE ID BAND NO. 2101-06734 COLORS org 5.org (R) red. yd. / HBL (L) AGE AY

DATE OF FIRST EGG ~6/8-9/92 # OF EGGS 4 HATCHING DATE 6/23/92

OF HATCHLINGS 4 COWBIRD EGGS? #? 0 UNDEVELOPED EGGS? 0

MEAN MASS AT HATCHING? 2.22(4) FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST fledged - reached independence DATE OF FLEDGING 7/4/92 # OF FLEDGINGS 4

SURVIVING TO INDEPENDENCE 3 MEAN MASS DAY 3 (N) 7.82(4) MEAN MASS DAY 6 (N) 14.45(4)

MEAN MASS FLEDGING (N) 16.40(4) FEMALE MASS AT FLEDGING 18.6 TIME 1030

MALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

DATE MALE LAST SEEN — FEMALE BLED (Y/N); DATE 5/23/92 (#999)

MALE BLED (Y/N); DATE 5/08/92 (#928) IMPLANT DATE 5/08/92 MASS AT IMPLANT 22.2

IMPLANT OK (IN/OUT?) implants O.K. ^(5/23) _(7/24) _(7/26) IMPLANT REMOVED (Y/N) DATE 7/26/92

FAT CLASS? —

INDEPENDENT YG ID #'s: 940 93475, 940 93476, 940 93477, 940 93478

AGE OF FLEDGING Day 11

COMMENTS: Nestling blood sample #'s: 1219, 1220, 1221, 1222

Found w/ 4 eggs. ♀ inc. All 4 hatched. All 4 fledged. ♂ fed fledglings.
3 survived to ind. (F-CBNEWS).

JUNCO NEST LOG SHEET

NEST ID WVS 221TT TREATMENT GROUP I 5/5 92

FEMALE: DATE FOUND 6/12/92

BAND # 2101-06734 STATUS WHEN FOUND 4 eggs

COLORS orange song @ red eye - 1st @

MALE:

BAND # 2101-06530

COLORS 5. It appearing - 1st @

LOCATION: Tag 8 west across road to 100m - 1st @

EGGS LAID 4 # HATCHED, DATE 4, 6/23/92

DATE INCUBATION ONSET 6/12-13/92 # FLEDGED/FAIL, DATE 4, 7/4/92

MALE BLED (Y/N), DATE 5/5/92 IMPLANT REMOVED (Y/N), DATE 7/26

FEMALE STAYED/LEFT

BLED 1992 928

| DATE | TIME | STATUS |
|------|-----------|---|
| 6/11 | 1000 | 4 eggs ♀ on nest → sang softly near by LC |
| 6/16 | 1625-1755 | ♀ on, ♂ + ♀ responded to lure (intruder test) and ♂ fought w/ unbanded ♂ to NE AT |
| 6/19 | 1135 | ♀ on flushed off 4 eggs RCT |
| 6/20 | 1015 | ♀ on flushed off 4 eggs LC |
| 6/21 | 1100 | 4 warm eggs, ♀ & ♂ → chirpy LC |
| 6/22 | 0950 | 4 warm eggs, ♀ on LC |
| 6/23 | 1400 | Day 0, 4 hatched 1 LC |
| 6/26 | 1715 | Day 3, weighed & polished LC |
| 6/29 | 1750 | Pair 2 adults chirping, colors not seen, 4 nestlings hatched, 1st, 2nd, 3rd, 4th measured |
| 7/4 | 925 | Fledging Day opened nest then moved back & they stopped chirping - watched nest from a distance but didn't see ♀ fly in until we checked the nest 20-30min later - ♂ not caught - ♀ bled for CBP (4 tubes) + processed, ♀ fledglings weighed + measured m.w |
| 7/5 | 1745 | saw ♀, heard at least 1 fledgling LC |
| 7/6 | 1900-1940 | saw dk grn and one other, ♂'s very quiet, ♀ chirpy ♂ → sang LC |
| 7/7 | 920-1020 | saw 2 + blk/blk + one other ♂ → sang & fed |
| 7/10 | 0905-1005 | saw wht/lt grn, blk/lt bl with ♀ & ♂, ♂ → sang LC |
| 7/13 | 1115-1200 | no sign! LC |
| 7/16 | 0945-1025 | blk/lt bl, wht/lt grn & dk grn ♂ → did not sing near percent LC |
| 7/18 | 1600-1700 | found no one! LC |
| 7/19 | 1715-1750 | saw white/lt grn, blk/lt bl ♀ + ♂ but I think there were more. |

JUNCO NEST LOG SHEET (CON'T)

| DATE | STATUS |
|------|--|
| 7/20 | Found 2 birds 20 & white 14 gon with parent near fruit dish. Found new nest w/ 2 eggs |
| 7/21 | Found 2 birds gon & white 14 gon across WVS (east side) singing high in trees, song near nest |
| 7/24 | of 2 nest ^{frag!} empty , birds, tagged, etc |

FITNESS CORRELATES SUMMARY SHEET

NEST ID WUS 221 III TREATMENT GROUP (I) T DATE FOUND 7/30/92

LOCATION Tag 10 WUS west road, follows stream in small tree

*MALE ID BAND NO. 2101-06530 COLORS Soft green w/rg @ Hgn/white AGE A Y

FEMALE ID BAND NO. 2101-06734 COLORS orange. So orange @ red w/ gelolt blk AGE A Y

DATE OF FIRST EGG ~ 7/15-16/92 # OF EGGS 4 UNDEVELOPED EGGS? 1

HATCHING DATE 7/30/92 # OF HATCHLINGS 3 COWBIRD EGGS? 1

MEAN MASS AT HATCHING? 2.47(3) FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

*FATE OF NEST FAILED 8/4 ^{as nestlings} DATE OF FLEDGING — # OF FLEDGINGS 0

AGE OF FLEDGING — # SURVIVING TO INDEPENDENCE 0 MEAN MASS DAY 3 (N) —

MEAN MASS DAY 6 (N) — MEAN MASS FLEDGING (N) —

INDEPENDENT YOUNG ID NO. —

FEMALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

MALE MASS AT FLEDGING — TIME — DATE MALE LAST SEEN —

FEMALE BLED (Y/N); DATE 5/23/92 (#999)

MALE BLED (Y/N); DATE 5/08/92 (#928) IMPLANT DATE 5/08/92 MASS AT IMPLANT 2.2

IMPLANT OK (IN) OUT? implant = 0.1k ^(5/23) _(7/24) IMPLANT REMOVED (Y/N) DATE 7/26/92

FAT CLASS? —

COMMENTS:

*Nest failed 8/4, predated - 1 nestling found dead on ground below nest, had brain case broken open

Nest found w/ 4 eggs. 3 hatched, 1 egg undeveloped (parent being parent!). Nest found empty 8/4 (day 4 nestling). Nestling on ground brought back to lab.

JUNCO NEST LOG SHEET

NEST ID WUS 22111 TREATMENT GROUP I 5/8/92

FEMALE: DATE FOUND 7/20

BAND # 2101-06934 STATUS WHEN FOUND 4 eggs

999 COLORS orange 3 orange (R) red orange 1 black (L)

MALE: BAND # 2101-06530

28 COLORS 3 lt green orange (R) 1 lt green/white (L)

90 LOCATION: Tag 10 for 2005 stream that drains from percent in the fall →

EGGS LAID — # HATCHED, DATE 3, 7/30/92

DATE INCUBATION ONSET ~ 7/18-19/92 # FLEDGED (FAIL) DATE b/N 7/31 + 8/4

MALE BLED (Y/N), DATE 5/2/92 IMPLANT REMOVED (Y/N), DATE 7/26/92

FEMALE STAYED/LEFT —

| DATE | TIME | STATUS |
|------|------|---|
| 7/20 | 1700 | found nest with 4 eggs LL |
| 7/21 | 1000 | ♀ on 4 eggs LL |
| 7/27 | 1345 | ♀ on 4 eggs LL |
| 7/28 | 1610 | ♀ on 4 eggs LL |
| 7/29 | 1030 | ♀ on 4 eggs LL |
| 7/30 | 1715 | Day 0! 3 eggs hatched, one did not LL |
| 7/31 | 1420 | 4th egg did not hatch, ♀ on LL translucent, infertile |
| 8/4 | 1400 | FAILED - nest empty, one heard nestling on ground brought back to hole nestling very thin, case known, open |

7/30
LC

FITNESS CORRELATES SUMMARY SHEET

NEST ID WVS 222 TREATMENT GROUP (I) C DATE FOUND 5/23

LOCATION 5 curve - follow stream ~100m to 1st lg tree

MALE ID BAND NO. 2101-06041 COLORS yellow (R) red yellow (O) AGE A, O

FEMALE ID BAND NO. 940 93113 COLORS yellow (R) red yellow (O) AGE A, Y

DATE OF FIRST EGG — # OF EGGS — UNDEVELOPED EGGS? #? —

HATCHING DATE — # OF HATCHLINGS — COWBIRD EGGS? #? —

MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST ABANDONED NEST DATE OF FLEDGING — # OF FLEDGINGS —

AGE OF FLEDGING — # SURVIVING TO INDEPENDENCE — MEAN MASS DAY 3 (N) —

MEAN MASS DAY 6 (N) — MEAN MASS FLEDGING (N) —

INDEPENDENT YOUNG ID NO. —

FEMALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

MALE MASS AT FLEDGING — TIME — DATE MALE LAST SEEN —

FEMALE BLED (Y/N); DATE 5/10/92 # 932

MALE BLED (Y/N); DATE 4/24/92 # 909 IMPLANT DATE 4/24/92 MASS AT IMPLANT 20.7

IMPLANT OK (IN) OUT? implants OK 6/10 IMPLANT REMOVED (Y/N) DATE not removed

FAT CLASS? —

COMMENTS:

Lined nest never used by pair

JUNCO NEST LOG SHEET

ID WVS 222

TREATMENT GROUP I 4/24/92

932

FEMALE:

DATE FOUND 5/23/92

BAND # 940-2313

STATUS WHEN FOUND lined empty new

COLORS LEB, R, W, B Orgos

909

MALE:

BAND # 210106041

COLORS LEB, R, W, B Orgos (R-YR? + y2)

LOCATION: S curve - follow stream ~100m to 1st lg treefall go uphill (S) to med fall in bank

EGGS LAID 1

HATCHED, DATE -

DATE INCUBATION ONSET -

FLEDGED/FAIL, DATE -

MALE BLED (Y/N), DATE 4/24/92

IMPLANT REMOVED (Y/N), DATE -

FEMALE STAYED/LEFT -

| DATE | TIME | STATUS |
|---------|-----------|---|
| 5/23/92 | 1400 | ♀ Chipping closely |
| 5/25/92 | 1130 | 10 eggs in nest - 1st egg |
| 5/28/92 | 1200 | Zig saw these 2 b's curve - chippy. Moved down bank (93113; 06041) |
| 6/02/92 | 1615-1720 | Followed A B on in gully and on bank. HE WAS WITH ♀ DK B L O R O O ORGOS. THE FLOW DOWN STREAM AFTER WALK BY. |

PAVE ON BANK BY S-TURN CHIPPY. MOVED DOWN DRAIN.

LEB R O L B R O ORGOS A, Y F
 940 93113

Y O R O S
 210106041

~~Y O R O S~~ A, Y M
 R O Y O R

MAY BE THIS IS THE PAVE !!
 DON MORN 5/18

FITNESS CORRELATES SUMMARY

NEST ID WVS 222R TREATMENT GROUP (I) C DATE FOUND 5/15/92

LOCATION ~160 steps on MST; north in lg. tree fall by stream, up to

MALE ID BAND NO. 2101-06041 COLORS yellow (R) red-yellow (D) AGE 1 (D)

FEMALE ID BAND NO. 940-93113 COLORS lt bl/red/lt bl (R) orange (D) AGE 1 (Y)

DATE OF FIRST EGG ~6/1-2/92 # OF EGGS 4 UNDEVELOPED EGGS? # 0

HATCHING DATE 6/16/92 # OF HATCHLINGS 4 COWBIRD EGGS? # 0

MEAN MASS AT HATCHING? 290(4) FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST FAILED - ^(as nestlings) predated? DATE OF FLEDGING — # OF FLEDGINGS 0

AGE OF FLEDGING — # SURVIVING TO INDEPENDENCE 0 MEAN MASS DAY 3 (N) 1070

MEAN MASS DAY 6 (N) 14.83(3) MEAN MASS FLEDGING (N) —

INDEPENDENT YOUNG ID NO. 940 93913, 940 93914, 940 93915

FEMALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

MALE MASS AT FLEDGING — TIME — DATE MALE LAST SEEN —

FEMALE BLED (Y/N); DATE 5/10/92 (#932)

MALE BLED (Y/N); DATE 4/24/92 (#909) IMPLANT DATE 7/27/92 MASS AT IMPLANT —

IMPLANT OK (IN) OUT? implants o.k 6/10 IMPLANT REMOVED (Y/N) DATE —

FAT CLASS? —

Nestling blood sample #s: 1177, 1176, 1175

COMMENTS:

WVS 222 Nest log attached, nest abandoned before laying probably at same time that this nest was being bled.

★ ♂ probably polygynous - ~~also~~ feeding nestlings at WVS 222

Nest found w/ 4 eggs. All 4 hatched 6/16. ♂ fed nestlings. Bled day 6 (6/22). Nest empty day 8 (6/24).

JUNCO NEST LOG SHEET

EST ID 222R
WVS 236

TREATMENT GROUP I 4/24/92

FEMALE:

DATE FOUND 6/15/92

BAND # 940-93113

STATUS WHEN FOUND 4 eggs

COLORS lt bl + red + bl (B) org (S) (C)

MALE:

BAND # 2101 06041

COLORS YEL (S) ROY (R)

LOCATION: ~160 steps on MST, north in lg treefall by stream up 16 1/2 feet

EGGS LAID — # HATCHED, DATE 4, 6/16/92

DATE INCUBATION ONSET ~6/4-5/92 # FLEDGED (FAIL), DATE 6/22-24/92

MALE BLED (Y/N), DATE 4/24/92 IMPLANT REMOVED (Y/N), DATE Not removed.

FEMALE STAYED/LEFT —

909

| DATE | TIME | STATUS |
|------|------|--|
| 6/15 | 1000 | found nest but couldn't ID adult was lt ignored (B) org (C) (I think) LC |
| 6/16 | 1500 | Day 0 - 3 hatched today - 1 egg left ♀ chippy, but no sign of ♂ |
| 6/17 | 1410 | weighed 4th nestling. ♀ chippy, a ♂ appeared with food, could be YEL (S) (R) red + yellowed? |
| 6/19 | AM | SAW ♂ WITH FOOD IN MOUTH CAME TO NEST (COULDN'T SEE IF HE ACTUALLY FED (YEL (S) ROY (R))! |
| | PM | WEIGHED DAY 3. ALL OK BOTH ADULTS PRESENT! B7 |
| 6/22 | 1620 | banded & bled 3 nestlings (one disappeared) 2 nestlings had no polish in only ♀ present LC |
| 6/24 | 1115 | Day 6 NEST FAILED CONTENTS EMPTY NO SIGN OF ANYONE B7 |

FITNESS CORRELATES SUMMARY SHEET

NEST ID WVS 222R2 TREATMENT GROUP (I) DATE FOUND 7/23/92

LOCATION ~160 steps on MST, north in treeline

MALE ID BAND NO. 2101-D6041 COLORS yellow/5(B) red/orange/red AGE 10

FEMALE ID BAND NO. 940-93113 COLORS 16/16/16/16/16/16/16/16/16/16 AGE 10

DATE OF FIRST EGG 7/8 or 7/9 (backdated) # OF EGGS 3 UNDEVELOPED EGGS? 0

HATCHING DATE 7/23/92 # OF HATCHLINGS 3 COWBIRD EGGS? 0

MEAN MASS AT HATCHING? 2.05(3) FEMALE MASS AT HATCHING? --- MALE MASS AT HATCHING? ---

FATE OF NEST fledged - reached independence DATE OF FLEDGING 8/2/92 # OF FLEDGLINGS 3

AGE OF FLEDGING Day 11 # SURVIVING TO INDEPENDENCE 3 MEAN MASS DAY 3 (N) 2.05(3)

MEAN MASS DAY 5 (N) 11.43(3) MEAN MASS FLEDGING (N) 17.27(3)

INDEPENDENT YOUNG ID NO. 940 93972, 940 93973, 940 93974

FEMALE MASS AT FLEDGING 20.5 TIME 1000 DATE FEMALE LAST SEEN ---

MALE MASS AT FLEDGING 20.5 TIME 1000 DATE MALE LAST SEEN ---

FEMALE BLED (N); DATE 5/10/92 (#932)

MALE BLED (N); DATE 4/24/92 (#909) IMPLANT DATE 4/24/92 MASS AT IMPLANT 10.7

IMPLANT OK (N) OUT? implants O.K. IMPLANT REMOVED (N) DATE not recorded

FAT CLASS? ---

Nestling blood sample #s: 1356, 1357, 1358

Fledged: Day 11

COMMENTS:

Nest found w/ 1 egg. 2 more eggs laid. All 3 hatched 7/23. All 3 fledged day 11. ♂ fed nestlings and fledglings. All 3 survived to ind.

JUNCO NEST LOG SHEET

NEST ID WVS 222 B2 TREATMENT GROUP (I) C

FEMALE: DATE FOUND 7/10

932

BAND # 940-93113 STATUS WHEN FOUND 1 egg

COLORS lt blue/red + lt (B) orange (A)

MALE:

BAND # 2101 21041

COLORS yellow red/orange (A)

LOCATION: ~160 steps on WEST, north in tree (B)

EGGS LAID - # HATCHED, DATE 3, 7/23/92

DATE INCUBATION ONSET ~7/11-12/92- FLEDGED/FAIL. DATE 3, 8/3/92

MALE BLED (Y/N), DATE 4/24/92 IMPLANT REMOVED (Y/N), DATE Not removed.

FEMALE STAYED/LEFT _____

| DATE | TIME | STATUS |
|------|-----------|---|
| 7/10 | 1045 | 1 egg, could not ID ♀ LC |
| 7/21 | 1130 | ♀ on, 3 eggs LC |
| 7/23 | 1915 | Day 0! 2 hatched, 1 didn't LC |
| 7/24 | 1700 | 3 rd egg hatched, weighed & polished LC |
| 7/28 | 1625 | day 5 weighed, bled & banded no sign of ♂ LC |
| 7/29 | 1035-1055 | saw ♂ feed nestlings LC |
| 8/3 | 1000 | Fledging day - caught ♂, ♀ + processed 3 yg - both adults bled MLC |
| 8/5 | 2000-2030 | ⊕ census - found no one. MW |
| 8/6 | 1005 1100 | ⊕ census - saw ♂, ♀ + another adult (who was also clipped) for the decoration - dk bl + Sored ⊕ almost certain red? or orange? ⊕ uncertain (band # not found) - with at least 2 fledglings - one was wh/blk, the other colors not seen - 1th/blk wasn't flying very well yet - adult seemed more than ~1ft off the ground - found across stream at bottom of S. woods |
| 8/7 | 1430-1510 | ⊕ census org & lt gr n seen across stream LC |
| 8/11 | 1040-1105 | ⊕ census saw all three + ♂ & ♀ downhill from nest → led LC |

FITNESS CORRELATES SUMMARY SHEET

E/25 WWS
9/14 mhz

NEST ID WWS 222 A TREATMENT GROUP (I) C ~~***~~ treatment (♂) uncertain DATE FOUND 6/10/92

LOCATION in about 15 steps from WWS Tag 24, elevated up 12' in Striped maple

MALE ID BAND NO. 2101-06041 COLORS yel 5 (R) red 2 yel 0 red 0 AGE A, 0

FEMALE ID BAND NO. 940-93106 COLORS dk b pored (R) orgo 5 (C) AGE A, Y

DATE OF FIRST EGG ~6/4-5/92 # OF EGGS 3 HATCHING DATE 6/19/92

OF HATCHLINGS 2 COWBIRD EGGS? #? 0 UNDEVELOPED EGGS? 0

MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST * FAILED ^{by 6/29} ^{as nestlings} DATE OF FLEDGING — # OF FLEDGINGS 0

SURVIVING TO INDEPENDENCE 0 MEAN MASS DAY 3 (N) — MEAN MASS DAY 6 (N) 15.35 (2)

MEAN MASS FLEDGING (N) — FEMALE MASS AT FLEDGING — TIME —

MALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

DATE MALE LAST SEEN — FEMALE BLED (Y/N): DATE 4/12/92 (#803)

MALE BLED (Y/N): DATE 4/24/92 (#909) IMPLANT DATE 4/24/92 MASS AT IMPLANT 20.7

IMPLANT OK (Y/N) OUT? implants O.K 6/10 IMPLANT REMOVED (Y/N) DATE not removed

FAT CLASS? —

INDEP YE ID #'s 940 93916, 940 93917

AGE OF FLEDGING —

COMMENTS: Nestling blood sample #s: 1197, 1198

~~***~~ 2101-06041 fed nestlings but 2101-06539 (WWS 226 ♂) ^(T-implanted) was also associated with nest → treatment uncertain for paternity

* young banded & bled 6/25 (Day 6), nest checked on 6/29 (Day 10) - nest found on ground; nest either fledged or failed very early

* ♂ polygynous - also attending WWS 222K simultaneously.

Nest found w/ 3 eggs. 1 egg missing 6/17. Remaining 2 eggs hatched ~6/19. ♂ fed nestlings and ate fecal sac 6/23. Nest probably predated before day 10 nestlings.

JUNCO NEST LOG SHEET

NEST ID WVS 222 A TREATMENT GROUP 2101 06539 → T
2101 06041 → C

FEMALE: DATE FOUND 6/10/92

BAND # 940 - 93106 STATUS WHEN FOUND 3E99S

COLORS DK BLD RED ORGOS

MALE:

BAND # 2101 06071

COLORS YEL OS RYOR

LOCATION: IN ABOUT 15 STEPS FROM WVS 225 BY PLANT. ELEVATED (UP 12' IN STUMP MAPLE)

EGGS LAID — # HATCHED, DATE 2, 6/19/92

DATE INCUBATION ONSET ~ 6/7-8/92 # FLEDGED/FAIL, DATE 6/29/92

MALE BLED (Y/N), DATE 4/24/92 IMPLANT REMOVED (Y/N), DATE Not removed.

FEMALE STAYED/LEFT —

| DATE | TIME | STATUS |
|---------|-----------|--|
| 6/10/92 | 1500 | FLUSHED ♀ FROM NEST AS A DARK GRAY TO BUSH BANKS NEST ELEVATED, ♀ CHIPS ACCT. LOOKED AT NEST WITH MIRROR. 3 JUNCO EGGS. Z14 |
| 6/11/92 | PM | ♀ ON WHEN I WORKED. Z14 |
| 6/12/92 | 1530 | FLUSHED ♀ & LOOKED WITH MIRROR. STILL 3 EGGS. |
| 6/14/92 | 1123 | ♀ ON L |
| 6/17/92 | 910 | ♀ FLUSHED ONLY 2 EGGS. Z14 |
| 6/18/92 | 900 | STILL 2 EGGS. Z14 |
| 6/19/92 | AM | ♀ ON Z14 |
| 6/20/92 | 1140 | 2 YOUNG LOOK DAY 1. ♀ CHIPS ACCT !! |
| 6/21/92 | 1125 | ♀ on, a ♂ was singing near nest |
| 6/22/92 | 1420-1555 | WENT TO TRY ♂ 100. DID WHAT AMOUNTS TO 95 MINUTE NEST WATCH. ♀ JUST STARTED TO BLEED. STAYED IN 70 MINUTES. FED FIVE TIMES (1535-1555) ♂ APPEARS AS SON AS SHE RETURNS. FINALLY ID GOTTEN. IT IS WVS 226 II ♂ SOLTGRAN ORIO YEL (210106539) NEVER SAW FEED IN MOUTH BUT LAST TIME ♂ LEFT NEST. A LOT OF FLEAVES IN THE WAY. Z14. |

JUNCO NESTLOG SHEET. CONT.

| DATE | TIME | STATUS |
|---------|-----------|---|
| 6/23/92 | 1830-1915 | WATCHED NEST (LAKWOOD AT 1315, 2 YOUNG) ♀ @ ROYCE FEED TWICE WHILE ♀ FEED 9 TIMES SAW ♂ EAT FETAL SAC. |
| 6/24/92 | 1125-1205 | WATCHED NEST. (2101-06539) ♂ APPEARS. ALL INDICATIONS SUPPORT A REPLACEMENT MALE. (ROYCE NEVER SEEN BUT 222R FAILED YESTERDAY CLEARLY TODAY!!) |
| | 1740-1800 | SAME ♂ STILL AROUND ♂ |
| 6/25/92 | 1320-1335 | BAND ♂ BLED (2 DAY 6 NESTINGS) ♀ ATTACKS US. LC, 219. |
| 6/29/92 | 1500 | nest had failed, both materials loose in tree, nest found on ground upside down and empty no shells, feathers, etc. predator = ? etc |

FITNESS CORRELATES SUMMARY SHEET

NEST ID WVS 223 family TREATMENT GROUP — UNKNOWN DATE FOUND 2/25/72

LOCATION 300 m downstream from "S" curve on WVS

MALE ID BAND NO. — ? COLORS — AGE —

FEMALE ID BAND NO. 2101-06463 COLORS Lanowhite @ 50% B/BK @ AGE —

DATE OF FIRST EGG — # OF EGGS — UNDEVELOPED EGGS? #? —

HATCHING DATE — # OF HATCHLINGS — COWBIRD EGGS? #? —

MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST Fledged - ^{not followed} naturally DATE OF FLEDGING ~5/21 # OF FLEDGINGS 2

AGE OF FLEDGING — # SURVIVING TO INDEPENDENCE — MEAN MASS DAY 3 (N) —

MEAN MASS DAY 6 (N) — MEAN MASS FLEDGING (N) —

INDEPENDENT YOUNG ID NO. —

FEMALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

MALE MASS AT FLEDGING — TIME — DATE MALE LAST SEEN —

FEMALE BLED (Y/N); DATE —

MALE BLED (Y/N); DATE — IMPLANT DATE — MASS AT IMPLANT —

IMPLANT OK (IN, OUT?) — IMPLANT REMOVED (Y/N) DATE —

FAT CLASS? —

COMMENTS:
 Family found - fledglings approx. Day 2 (aged by RT)
 ♂ not ID'ed

FOUND AS FAMILY. 2+ fledges. ♂ UNIDENTIFIED.

JUNCO NEST LOG SHEET

ST ID WUS 223 TREATMENT GROUP UNKNOWN

MALE: DATE FOUND (5/23/92)

BAND # ? STATUS WHEN FOUND pledged, one egg left

COLORS _____

MALE:

BAND # 2101-06463

This is ♀ (with arrow pointing to the male's band)

COLORS Lau o wh (R) S. #LTbl / BIK (L)

return nestlings

LOCATION: 300m downstream from S curve - or reached from JT

EGGS LAID — ? # HATCHED, DATE _____

DATE INCUBATION ONSET — ? # FLEDGED/FAIL, DATE c. 5/21

MALE BLED (Y/N), DATE _____ IMPLANT REMOVED (Y/N), DATE _____

FEMALE STAYED LEFT _____

| DATE | TIME | STATUS |
|---------|------|---|
| S/23/92 | 1530 | 2+ fledges - <u>might be from this nest, in trees by stream</u> <i>identified</i> ♂ <u>♀</u> <i>Look - recently fledged</i> |

9/14 mke 8/23 MW

FITNESS CORRELATES SUMMARY SHEET

NEST ID WVS 223 II Family TREATMENT GROUP — UNKNOWN DATE FOUND 7/05/92

LOCATION -300 m downstream from "s" curve on WVS

MALE ID BAND NO. * COLORS see below AGE —

FEMALE ID BAND NO. 2101-06463 COLORS Low white (R) 50 HBP/61K (L) AGE AY

DATE OF FIRST EGG — # OF EGGS — UNDEVELOPED EGGS? #? —

HATCHING DATE — # OF HATCHLINGS — COWBIRD EGGS? #? —

MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST ^{not followed} Fledged naturally DATE OF FLEDGING — # OF FLEDGINGS at least 3

AGE OF FLEDGING — # SURVIVING TO INDEPENDENCE — MEAN MASS DAY 3 (N) —

MEAN MASS DAY 6 (N) — MEAN MASS FLEDGING (N) —

INDEPENDENT YOUNG ID NO. —

FEMALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

MALE MASS AT FLEDGING — TIME — DATE MALE LAST SEEN —

FEMALE BLED (Y/N); DATE — (♀ not bled)

MALE BLED (Y/N); DATE — IMPLANT DATE — MASS AT IMPLANT —

IMPLANT OK (IN, OUT?) — IMPLANT REMOVED (Y/N) DATE —

FAT CLASS? —

COMMENTS:

* ♂ not well-identified It grn/white or It grn 5 (R) pink 5 white ^{yet?}

Found as family. ♂ fed, but not I.D.'d.

JUNCO NEST LOG SHEET

NEST ID WVS 223II TREATMENT GROUP UNKNOWN

FEMALE: DATE FOUND 5 July 1992

BAND # 2101-06463 STATUS WHEN FOUND 3 fledglings ~ day 9

COLORS Lav o Wh (R) S o LtBl/Bk (L)

MALE: BAND # ??

COLORS Ltgrn W or Ltgrn o S (R) Pink o S o Wh

LOCATION: 300 m downstream from S curve - or JT to area of many treefalls.

EGGS LAID ? #HATCHED, DATE —

DATE INCUBATION ONSET — #FLEDGED/FAIL, DATE ~ 6/28/92

MALE BLED (Y/N), DATE — IMPLANT REMOVED (Y/N), DATE —

FEMALE STAYED/LEFT —

DATE 7/5/92 TIME 1405

STATUS

*♀ very chippy, ♂ watching (but did feed) 3 fledglings. ♂ not well-identified
 What looks like the nest in treefall torn out of treefall - may have been
 fledged by predator? RT, + company*

X

WITNESS CORRELATES SUMMARY SHEET

NEST ID WVS 224 TREATMENT GROUP UNKNOWN DATE FOUND 5/25/92

LOCATION WVS Tagli vicinity - east side

MALE ID BAND NO. ? COLORS — AGE —

FEMALE ID BAND NO. ? COLORS — AGE —

DATE OF FIRST EGG — # OF EGGS — UNDEVELOPED EGGS? #? —

HATCHING DATE — # OF HATCHLINGS — COWBIRD EGGS? #? —

MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST ABANDONED - or possibly old nest cup DATE OF FLEDGING — # OF FLEDGINGS —

AGE OF FLEDGING — # SURVIVING TO INDEPENDENCE — MEAN MASS DAY 3 (N) —

MEAN MASS DAY 6 (N) — MEAN MASS FLEDGING (N) —

INDEPENDENT YOUNG ID NO. —

FEMALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

MALE MASS AT FLEDGING — TIME — DATE MALE LAST SEEN —

FEMALE BLED (Y/N); DATE —

MALE BLED (Y/N); DATE — IMPLANT DATE — MASS AT IMPLANT —

IMPLANT OK (IN, OUT?) — IMPLANT REMOVED (Y/N) DATE —

FAT CLASS? —

COMMENTS:
 nest starts - never any ^{on 6} & sighted

found as nest start. Probably inactive when found. Neither adult identified.

JUNCO NEST LOG SHEET

NEST ID WVS 204 TREATMENT GROUP _____

FEMALE: DATE FOUND 5-25

BAND # _____ STATUS WHEN FOUND Start(s)

COLORS _____

MALE:

BAND # _____

COLORS _____

LOCATION: WVS tag 19 vicinity, E side see below

EGGS LAID — #HATCHED, DATE —

DATE INCUBATION ONSET — #FLEDGED/FAIL, DATE —

MALE BLED (Y/N), DATE — IMPLANT REMOVED (Y/N), DATE —

FEMALE STAYED/LEFT _____

| DATE | TIME | STATUS |
|------|------|--|
| 5/25 | 1805 | One nest start under rock, ^{another} in bank; both could be new. also one torn out nest - grass in ditch looks fairly fresh also. will check soon RCT |

| | | |
|------|------|--|
| 6/02 | 2000 | NEST START UNDER ROCK STILL PRESENT? ^{by} MONEY ♂ SINGS IN MORN |
| 6/17 | 1108 | nest start in grass of powercut. Will check tomorrow. Fledged. RCT |
| 6/19 | 1620 | same as yesterday - prob inactive. Placed leaf piece in. |

5-25; pm
torn out nest
13 paces prot
WVS tag 19 on E side
Also 2 starts w/in 60'
- one under med. size rock
- one in bank both on E side
RCT

FITNESS CORRELATES SUMMARY SHEET

NEST ID WVS 225 TREATMENT GROUP (I) C DATE FOUND 5/28/92
 LOCATION outside of WVS Tag 15 ~ 50m in small tree fall
 MALE ID BAND NO. 2101-06724 COLORS Orgo So org (R) Orgo H (L) (D) AGE 1
 FEMALE ID BAND NO. 2101-06806 COLORS Hgrn (R) So H (L) Org (D) AGE 1
 DATE OF FIRST EGG 5/28/92 # OF EGGS 4* UNDEVELOPED EGGS? # 1
 HATCHING DATE 6/12/92 # OF HATCHLINGS 2 COWBIRD EGGS? # 1
 MEAN MASS AT HATCHING? 260(2) FEMALE MASS AT HATCHING? - MALE MASS AT HATCHING -
 FATE OF NEST fledged - reached independence DATE OF FLEDGING 6/23/92 # OF FLEDGINGS 2
 AGE OF FLEDGING Day 11 # SURVIVING TO INDEPENDENCE 1 MEAN MASS DAY 3 (N) 220(2)
 MEAN MASS DAY 6 (N) 15.70(2) MEAN MASS FLEDGING (N) 19.30(2)
 INDEPENDENT YOUNG ID NO. 94093907, 94093906
 FEMALE MASS AT FLEDGING 307 TIME 900 DATE FEMALE LAST SEEN -
 MALE MASS AT FLEDGING 237 TIME 900 DATE MALE LAST SEEN -
 FEMALE BLED (Y/N); DATE 4/12, 6/23/92 (#811, 1187)
 MALE BLED (Y/N); DATE 5/10, 6/23/92 (#931, 1186) IMPLANT DATE 5/10/92 MASS AT IMPLANT 2.8
 IMPLANT OK (IN, OUT?) implant not checked at fledging (∴ unknown) IMPLANT REMOVED (Y/N) DATE not removed

FAT CLASS? -
 Nestling blood sample #s: 1148, 1147

Fledging: Day 11
 COMMENTS:

* 4 eggs in nest - 2 are definitely juveno, 1 is a towhee egg (which did not hatch) was large 24 mm, and a Towhee egg - purplish splashed
 ♂ implants not checked after 5/10. (C)

Found as nest start. 4 eggs then laid, 2 juveno, 1 egg, and 1 egg. Eggs hatched (6/12). Both nestlings fledged. ♂ fled fledged. According to F-CENSUS, 1 survived to ind.

JUNCO NEST LOG SHEET

NEST ID W 15 2572 TREATMENT GROUP ① 5/10/92

FEMALE: DATE FOUND 5/26/92

BAND # 2101-0151 STATUS WHEN FOUND no nest 21 1/2" long

COLORS 4 tan, 2 white, 2 long ①

MALE:

BAND # 2101-0151

COLORS 2 tan, 2 long (P) org, 4 bl ①

LOCATION: between Tag 15 4* (SGG below)! 150m in woods (Almond tree, S. 1)

EGGS LAID 4 # HATCHED, DATE 2

DATE INCUBATION ONSET 5/10, 6/23 # FLEDGED/FAIL, DATE 2

MALE BLED (Y/N), DATE 5/10, 6/23 IMPLANT REMOVED (Y/N) DATE Not removed.

FEMALE STAYED/LEFT

Bled 1992
8/11
9/31

| DATE | TIME | STATUS |
|---------|----------|--|
| 5/26/92 | 1500 | received 2 eggs, 1 egg not chipped |
| 5/27/92 | | 2 more eggs, 1 not chipped |
| 5/31/92 | 1500 | ♀ sitting on 4 eggs |
| 6/5/92 | 1355 | Intense ext. (♂) sings from high in trees a lot, ♀ seemed to be incubating (not in sight) from 1220-1320, then chips/wh notes at lure, ♂ courted lure in nests, looks like 3 junco and one cowbird egg RET |
| 6/11/92 | 1100 | ♀ on 4 eggs, one probably is a CB egg LL |
| | 1330 | ♀ on, did not flush |
| 6/12/92 | 1430 | 2 hatched Day 0, 1 egg remains CB nestling removed |
| | | ♀ not very chippy; no signs of ♂ LL |
| 6/13/92 | 1400 | ♀ on, 3rd egg at which not water - small depression in the egg |
| 6/14/92 | 1355 | # 3rd egg was probably not junco - huge (howler maybe?) walked by inadvertently, ♀ was on nest RET LL |
| 6/15/92 | 1314 | weighed (D3) R-L nestling's left foot was sore looking did not repolish R-L ♂ ♀ chippy org ① from WVS 221 begged from ♂ but was chased off ♀ then ♂ sang LL |
| 6/18/92 | 1430 | BAND ♀ BLED 2 NESTINGS, DAY 6. THEY WERE PUTE HEAVY, BOTH FOWLS CHIPPED ENTIRE TIME. SHOULD FLEDGE DAY ONLY (6/23) 214 ♀ LL |
| 6/28 | 1500-155 | 3rd night w/ parents down hill from nest ♂ sang other ♀ LL |
| 7/3 | 1500-155 | no sign of any birds LL |

1050 saw ♂ fall, saw ♀ carry

JUNCO NESTLOG SHEET. CONT.

| DATE | TIME | STATUS |
|------|-----------|--|
| 7/4 | 1100-1130 | found parents & one fledgling east on blue blaze trail east of WS, east of nest |
| 7/6 | 1715-1740 | saw wht (F) in hollow below nest with parents CC |
| 7/7 | 0930-1005 | saw wht (E) and and parent ♀ fed unbanded chick & chased (F) CC |
| 7/10 | 1010-1030 | saw wht with ♂ and at least 3 juvs (F) wht (F)'s right foot was infected CC |

9/14 mte 8/25 MW

FITNESS CORRELATES SUMMARY SHEET

NEST ID WVS 226 TREATMENT GROUP (I) T DATE FOUND 6/10/92

LOCATION WVS/MST in 75 steps

MALE ID BAND NO. 101-06239 COLORS Soltgrn red (B) yel (C) AGE A, Y

FEMALE ID BAND NO. 101-06225 * COLORS Soltgrn ovg (B) dk grn (C) AGE A, Y

DATE OF FIRST EGG? _____ # OF EGGS — UNDEVELOPED EGGS? #? —

HATCHING DATE? _____ # OF HATCHLINGS — COWBIRD EGGS? #? —

MEAN MASS AT HATCHING? _____ FEMALE MASS AT HATCHING? _____ MALE MASS AT HATCHING _____

FATE OF NEST as fledged naturally ^{NOT FOLLOWED} DATE OF FLEDGING — # OF FLEDGLINGS at least 2

AGE OF FLEDGING? _____ # SURVIVING TO INDEPENDENCE — MEAN MASS DAY 3 (N) —

MEAN MASS DAY 8 (N) _____ MEAN MASS FLEDGING (N) _____

INDEPENDENT YOUNG ID NO. _____

FEMALE MASS AT FLEDGING _____ TIME _____ DATE FEMALE LAST SEEN _____

MALE MASS AT FLEDGING _____ TIME _____ DATE MALE LAST SEEN _____

FEMALE BLED (Y/N); DATE 4/16/92 (#876)

MALE BLED (Y/N); DATE 4/12/92 (#832) IMPLANT DATE 4/13/92 MASS AT IMPLANT 21.6

IMPLANT OK (IN) OUT? implants 0.8^{5/8}_{6/10} IMPLANT REMOVED (Y/N) DATE 7/15/92

FAT CLASS? _____

COMMENTS: Family + fledglings, ♀ not positively ID'D

Found as family. ♀ not pos ID.

JUNCO NEST LOG SHEET

ID WVS 226 TREATMENT GROUP _____

FEMALE: DATE FOUND 6/10/92

BAND # 2101 06525 ? STATUS WHEN FOUND FLEDGES DAY 10-12?

COLORS SO LT GRN ORG DK GRN

MALE:

BAND # 2101 06539

COLORS SO LT GRN ORG YEL

LOCATION: WVS / MJT IN 75 STEPS

EGGS LAID _____ # HATCHED, DATE _____

DATE INCUBATION ONSET _____ # FLEDGED/FAIL, DATE _____

MALE BLED (Y/N), DATE _____ IMPLANT REMOVED (Y/N), DATE 7/15

FEMALE STAYED/LEFT _____

| DATE | TIME | STATUS |
|---------|------|--|
| 6/10/92 | 1615 | WALKING ON JT, CAME UP IN FAMILY OF FLEDGES, 1D MALE (AT LEAST 2, PERHAPS 3). DECIDED TO SET NET, PERHAPS CATCH A FLEDGE. SET NET & STARTED TAP. EVENTUALLY I GOT <u>FOUR (4)!!</u> IMPLANTED ♂ IN THIS NET !! Z |

FITNESS CORRELATES SUMMARY SHEET

9/14 mte 1/95
ML

NEST ID WVS 226 II TREATMENT GROUP (I) T DATE FOUND 6/10/92
 LOCATION WVS/MST in 80 steps, south in treefall
 MALE ID BAND NO. 2101-06539 COLORS Soft green (R) yel (L) AGE A, Y
 FEMALE ID BAND NO. 2101-06525 COLORS Soft green (R) dk green (L) AGE A, Y
 DATE OF FIRST EGG 6/13/92 # OF EGGS 4 HATCHING DATE —
 # OF HATCHLINGS 0 COWBIRD EGGS? #? 0 UNDEV. EGGS? —
 MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —
 FATE OF NEST FAILED ^{as eggs} 6/28 predated? DATE OF FLEDGING — # OF FLEDGINGS 0
 # SURVIVING TO INDEPENDENCE 0 MEAN MASS DAY 3 (N) — MEAN MASS DAY 6 (N) —
 MEAN MASS FLEDGING (N) — FEMALE MASS AT FLEDGING — TIME —
 MALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —
 DATE MALE LAST SEEN — FEMALE BLED (Y/N): DATE 4/16/92 (#876)
 MALE BLED (Y/N): DATE 4/12/92 (#832) IMPLANT DATE 4/13/92 MASS AT IMPLANT 21.6
 IMPLANT OK (IN, OUT?) implants 0.13 ^(5/8) _(7/15) IMPLANT REMOVED (Y/N) DATE 7/15/92
 FAT CLASS? —
 INDEP YG ID #s —
 AGE OF FLEDGING —
 COMMENTS.

FAILED 6/28 all eggs gone, no sign of adults

found as nest sheet. 4 eggs laid. All eggs gone on 12th day of incubation (6/28).

JUNCO NEST LOG SHEET

NEST ID WVS 276 II TREATMENT GROUP T

FEMALE: DATE FOUND 6/10/92

BAND # 210106525 STATUS WHEN FOUND NEEDS DEER HAIR

COLORS SO LT GRN O ORG ORGN

MALE:

BAND # 210106539

COLORS SO LT GRN O ORG YEL

LOCATION: WVS/JT IN 80 STEPS FLAG (LOOK SW) AND THEN FLAG IN TREE FALL (LOOK IN TREE FALL)

EGGS LAID 4 # HATCHED, DATE -

DATE INCUBATION ONSET 6/16/92 # FLEDGED/FAIL, DATE 6/28/92

MALE BLED (Y/N), DATE 4/12/92 IMPLANT REMOVED (Y/N), DATE 7/15/92

FEMALE STAYED/LEFT -

| DATE | TIME | STATUS |
|---------|------|--|
| 6/10/92 | 1640 | FLUSHED ♀ FROM BASE OF TREE FALL. NEEDS DEER HAIR. WILL CHECK 6/11 ♂ |
| 6/11/92 | AM | MORE DEER HAIR. ♂ |
| 6/12/92 | PM | NEARLY LINED. SHOULD HAVE ♂ TOMORROW (HOPE!). ♂ |
| 6/13/92 | 1400 | ONE JUNCO ♂ TODAY. ♂. ALSO SAW 2 FLEDGES |
| 6/14/92 | 1128 | ♀ BITE ADULTS AROUND TREE FALL IN AM. ♂ |
| 6/15/92 | 0902 | 2 eggs, adults not around CC |
| 6/16/92 | 1015 | ♀ on; flushed accidentally - 3 eggs CC |
| | | ♀ on; " " - 4 eggs CC |
| 6/19/92 | PM | ♀ ON VERY TIGHT, LOOKED IN, SHE TWITTERED DID NOT FLUSH. ♂ |
| 6/24/92 | 1110 | ♀ ON. ♂ |
| 6/27/92 | 1110 | 4 warm eggs CC |
| 6/28/92 | 1130 | no eggs, no adults FAILED CC |
| 7/10 | 1545 | Saw ♂ & ♀ near old nest, not chipper CC |

876

832

X

9/14 mtc 11.5 W

FITNESS CORRELATES SUMMARY SHEET

NEST ID WVS 227 TREATMENT GROUP I C* DATE FOUND 5/27/92

LOCATION about WVS Tag 50 up from ditch 6'

MALE ID BAND NO. 2101-06962 COLORS 1+bl/Sage (R) 1+bl/blk (C) AGE A, Y

FEMALE ID BAND NO. 2081-77121 COLORS red (R) Sonodoltgrn (C) AGE A, O

DATE OF FIRST EGG 5/30/92 # OF EGGS 4 HATCHING DATE 6/14/92

OF HATCHLINGS 4 COWBIRD EGGS? #? 0 # of undeveloped eggs 0

MEAN MASS AT HATCHING? 2.38 (4) FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST FAILED 6/23 ^{res} nestlings DATE OF FLEDGING — # OF FLEDGINGS 0

SURVIVING TO INDEPENDENCE 0 MEAN MASS DAY 3 (N) 1.42 (4) MEAN MASS DAY 6 (N) 12.40 (4)

MEAN MASS FLEDGING (N) — FEMALE MASS AT FLEDGING — TIME —

MALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

DATE MALE LAST SEEN — FEMALE BLED (Y/N); DATE 6/05, 6/15/92 (#1094, 1139)

MALE BLED (Y/N); DATE 4/12, 7/20/92 (#801, 1327) IMPLANT DATE 4/12/92 MASS AT IMPLANT 0.0

IMPLANT OK (IN. OUT?) not checked ^{implants gone 7/15 since 5/5/92} IMPLANT REMOVED (Y/N) DATE gone on 7/15

FAT CLASS? —
Ind. Young I.D. #s: 940 93911, 940 93912, 940 93910, 940 93909

Nesting blood SAMPLE #s: 1163, 1164, 1165, 1166

COMMENTS:

- ♂ might be polygynous with WVS 216 ♀
- * ♂ implants (C) missing on 5/5.

Found as nest start. 4 eggs laid. All 4 hatched 6/14 + 6/15. Banded + bled day 6 (6/20). On day 9 (6/23), nest found empty.

JUNCO NEST LOG SHEET

1094/1992
1139 ABCD
801
BLEED 1992

NEST ID WVS 227 TREATMENT GROUP I - 1/2/92

FEMALE: DATE FOUND 5/27

BAND # 2081-7711 77121 STATUS WHEN FOUND GRASSY CUP FORMED

COLORS RED (R) SO RED O LT GRN (L)

MALE: BAND # 2-00462

COLORS LT BL O S O YEL (R) LT BL / BK (L) ✓ (YES THIS IS FERRIS) 23

LOCATION: ABOUT WVS 10950 (FLUSHED) UP FROM DIRT 6'

EGGS LAID 4 # HATCHED, DATE 4, 6/14/92

DATE INCUBATION ONSET 6/2/92 # FLEDGED (FAIL) DATE 6/30-23/92

MALE BLED (Y/N), DATE 4/12/92 IMPLANT REMOVED (Y/N), DATE gone out 7/15

FEMALE (STAYED) LEFT _____

| DATE | TIME | STATUS |
|---------|---------------------------|---|
| 5/27/92 | 0810 | ♀ SINGING MARSHAL TUNESTRAEA 23 |
| 5/28/92 | 0830 | Fully lined with OVEN MARK 23 |
| 5/30/92 | 10:28 | 1 cold egg (junco?) no birds in sight MW. |
| 5/31 | 11:30 11:25 | ♀ then chirping 2 cold eggs, no adults seen MW. |
| 6/1 | 17:56 | 3 cold eggs, no adults seen MW |
| 6/2 | 0830 | 4 WARM JUNCO EGGS, 23 |
| 6/4 | 1130 | ♀ OFF 4 EGGS 23 |
| 6/5 | 910 | ♀ OFF, 4 WARM EGGS 214. |
| 6/5 | 1230 | SET TRAP WITH LURE TO IO FOR CATCH MALE. CT. ♀, 6 BLOOD HER. |
| 6/3 | 1030 | 2101 06962 and ♀ (7711) arrive at intruder (lure) cage placed 30m from nest on (grass) (split and S). ♂ sang and remained near lure for 54 min. ♀ not as interested, but when she reappeared at 11:35, 06962 landed on lure cage and acted more "aggressive". ♂ and ♀ acted like a pair but ♂ less following of ♀ than on other intruder tests. RCT |
| 6/6 | 16:20 | ♀ off, 4 warm eggs, no adults around. MW. |
| 6/8 | 0925 | ♀ flushed off 51 m from nest. no ♂ |
| 6/9 | 1000 | ♀ on. Did not flush RCT. no ♂ |
| | 930 | ♀ OFF 4 WARM EGGS 23 |
| 6/10 | 1210, 1400 | ♀ on. Intruder test w/ ♀ intruder LTBL O S O YEL ♂ security song to lure; 7711 ♀ very aggressive toward intruder. LTBL O S O YEL chased her away from lure a few times and they interacted like a pair, ♂ LTBL O S O YEL allowed 7711 to area of nest. Also once foraged in trees with her. RCT |
| | 1035 | 4 Pairs ♀ out on RCT |

1992

JUNCO NEST LOG SHEET (CON'T)

| DATE | STATUS |
|------|---|
| 6/11 | 1315 ♀ on did not flush. no ♂ here. RCT |
| 6/12 | 1030 ♀ OFF 4 WARM EGGS. |
| 6/14 | 1515 Day 0 - 3 eggs banded 1 ♀ on LC 1 egg banded |
| 6/15 | ~1100 VN at and SAR bled ♀ for DNA. 1740 ♀ was off so I looked in. 3 young. ♀ then chipped above RCT. 1351 4th hat check today, weighed ♀ was on LC |
| 6/16 | 1100 ♂ on. 3+ ♀ on. |
| 6/17 | 0705 ♀ on 0910 SAW ♂ FEEDING TWICE |
| 6/17 | 1530 weighed nestlings D3 LC |
| 6/19 | 950 COULD SEE YOUNG IN NEST. ♂ |
| 6/20 | 1650-1750 banded & bled all 4 nestlings, ♀ & ♂ chippy LC |
| 6/23 | 1300-1310 HOBNO ♀ CHIPPING FROM ROAD. NEST EMPTY. NO YOUNG INSIGHT ♂ SINGING ABOVE. <u>NEST FAILED</u> |

If 06962 is this
mate at this
nest then he is
Polygamous!

X

9/14 mile 0/20 4/11

FITNESS CORRELATES SUMMARY SHEET

NEST ID WVS 227R TREATMENT GROUP UNKNOWN DATE FOUND 7/2/92

LOCATION half way between GDR gate & percent in bank

MALE ID BAND NO. — COLORS — AGE —

FEMALE ID BAND NO. 2081-77121 COLORS Red (R) Sored o/4 grn (D) AGE A, 0

DATE OF FIRST EGG — # OF EGGS 4 HATCHING DATE —

OF HATCHLINGS 0 COWBIRD EGGS? #? 0 UNDEVELOPED EGGS? —

MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST FAILED 0 7/5 as eggs DATE OF FLEDGING — # OF FLEDGINGS 0

SURVIVING TO INDEPENDENCE 0 MEAN MASS DAY 3 (N) — MEAN MASS DAY 6 (N) —

MEAN MASS FLEDGING (N) — FEMALE MASS AT FLEDGING — TIME —

MALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

DATE MALE LAST SEEN — FEMALE BLED (Y/N): DATE 6/05, 6/15/92 (#1094, 1139)

MALE BLED (Y/N); DATE — IMPLANT DATE — MASS AT IMPLANT —

IMPLANT OK (IN, OUT?) — IMPLANT REMOVED (Y/N) DATE —

FAT CLASS? —

INDEP YG ID #'S: —

AGE OF FLEDGING: —

COMMENTS:

Nest empty 7/5. FAILED BEFORE ♂ COULD BE IDENTIFIED

Found w/ 4 eggs. ♂ not pos. ID'd. Nest empty before hatch? (7/5)

JUNCO NEST LOG SHEET

NEST ID WVS 227R TREATMENT GROUP (I) 4/12/92

FEMALE: DATE FOUND 7/2/92

BAND # 2081 - 77121 STATUS WHEN FOUND f on 4 eggs

COLORS Red (R) 5 o Red o Ltgrn (L)

MALE: BAND # ?

COLORS ?

LOCATION: ~ Half way between GDR gate and powercut on ^(left) upper bank below grass clump and sticks

EGGS LAID — # HATCHED, DATE —

DATE INCUBATION ONSET — # FLEDGED/FAIL DATE 7/2-5/92

MALE BLED (Y/N), DATE — IMPLANT REMOVED (Y/N), DATE —

FEMALE STAYED/LEFT —

| DATE | TIME | STATUS |
|------|------|--|
| 7/2 | 1748 | f on 4 eggs. Flushed off uphill and ^{was} very chippy. no ♂ here. RCT |
| 7/5 | 1140 | nest empty. Lining intact. No adults nearby RCT |

— Failed —

7/7 1530 - 2 juncos at base of GD road may have been this pair. Chipped briefly RCT
 - prob 231 (7/10)

WITNESS CORRELATES SUMMARY SHEET

9/14 male 2/23
4W

NEST ID WVS 227 R2 TREATMENT GROUP UNKNOWN DATE FOUND 7/9

LOCATION 30 paces N of BOR gate WVS Tag 52

MALE ID BAND NO. — COLORS — AGE —

FEMALE ID BAND NO. 2081-77121 COLORS Red (B) 50 red + 1 grn (L) AGE A, U

DATE OF FIRST EGG — # OF EGGS 0 HATCHING DATE —

OF HATCHLINGS 0 COWBIRD EGGS? #? 0 UNDEVELOPED EGGS? —

MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST ABANDONED ^{as nest} start DATE OF FLEDGING — # OF FLEDGINGS 0

SURVIVING TO INDEPENDENCE 0 MEAN MASS DAY 3 (N) — MEAN MASS DAY 6 (N) —

MEAN MASS FLEDGING (N) — FEMALE MASS AT FLEDGING — TIME —

MALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

DATE MALE LAST SEEN — FEMALE BLED (Y/N): DATE 6/05, 6/15/92 (#1094, 1139)

MALE BLED (Y/N); DATE — IMPLANT DATE — MASS AT IMPLANT —

IMPLANT OK (IN, OUT?) — IMPLANT REMOVED (Y/N) DATE —

FAT CLASS? —

INDEP. YG. ID #'s: —

AGE OF FLEDGING: —

COMMENTS:
Nest start, never used. ♂ not identified

JUNCO NEST LOG SHEET

NEST ID WVS 227 R2 TREATMENT GROUP ?

FEMALE: DATE FOUND 9 July 1992

BAND # 2081 77121 STATUS WHEN FOUND grass, ♀ building

COLORS Red (R) So Red oltrn (L)

MALE:

BAND # _____

COLORS _____

LOCATION: 30 paces N of GDR entrance on WVS (tag). W bank

EGGS LAID 0 # HATCHED, DATE _____

DATE INCUBATION ONSET _____ # FLEDGED (FAIL), DATE Abandoned nest start

MALE BLED (Y/N), DATE _____ IMPLANT REMOVED (Y/N), DATE _____

FEMALE STAYED/LEFT _____

| DATE | TIME | STATUS |
|------------------|------|--|
| 7/9 | 1535 | ♀ flushed, then chipped from nest. lining not yet neat. (30 min later found WVS 216 ♂ (06162) was far away singing - I don't think he will be the ♂ at this nest) RCT |
| 7/10 | 1850 | Nest neatly-lined. ♀ not here RCT |
| 7/11 | 1034 | Nest looks same no juncos. RCT |
| <u>Abandoned</u> | | |
| 7/14 | 1915 | possible start com up ^{old} GDRoad under sedge - ? RCT |

9/14 mlc 8/23 MW

FITNESS CORRELATES SUMMARY SHEET

NEST ID WJ03 229 TREATMENT GROUP 02 DATE FOUND 5-5-92

LOCATION Forest on hillside

MALE ID BAND NO. 501-0141 COLORS 5/12/92 1H 0 AGE A, Y

FEMALE ID BAND NO. 501-0141 COLORS 5/12/92 1H 0 AGE A, Y

DATE OF FIRST EGG 5/11-16/92 # OF EGGS — UNDEVELOPED EGGS? ?? —

HATCHING DATE 5/26-28 # OF HATCHLINGS 1 COWBIRD EGGS? ?? 1

MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST Failed ~ 6/5/92 ^{with} nestling DATE OF FLEDGING — # OF FLEDGINGS 0

AGE OF FLEDGING — # SURVIVING TO INDEPENDENCE 0 MEAN MASS DAY 3 (N) —

Estimated ~ Day 5
MEAN MASS DAY 0 (N) 13.6(1) MEAN MASS FLEDGING (N) —

INDEPENDENT YOUNG ID NO. 940 93617

FEMALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

MALE MASS AT FLEDGING — TIME — DATE MALE LAST SEEN —

FEMALE BLED (Y/N); DATE 5/10/92 (#936)

MALE BLED (Y/N); DATE 6/24/92 (#194) IMPLANT DATE — MASS AT IMPLANT —

IMPLANT OK (IN, OUT?) — IMPLANT REMOVED (Y/N) DATE —

FAT CLASS? —
Nestling blood sample #: 1074

COMMENTS:
Nest found with 1 nestling ~ day 5 and 1 large cowbird nestling
Cowbird nestling removed
Nest failed 6/5/92

JUNCO NEST LOG SHEET

BLED 1992
936

NEST ID 105 TREATMENT GROUP CC

FEMALE: DATE FOUND 5/26

BAND # _____ STATUS WHEN FOUND 1 egg

COLORS drk

MALE:

BAND # 2101-0643

COLORS drk / org

LOCATION: 15

EGGS LAID 1 # HATCHED, DATE 5/26-28/92 (backdated)

DATE INCUBATION ONSET 5/14-17/92 (backdated) # FLEDGED/FAIL, DATE by 6/5/92

MALE BLED (Y/N), DATE 6/24/92 IMPLANT REMOVED (Y/N), DATE —

FEMALE STAYED LEFT

| DATE | TIME | STATUS |
|------|-----------|--|
| | 1730 | |
| 5/31 | 1100 | bled one nestling (SAR estimates day 5 or 6) removed CB nestling LC |
| 6/6 | 1800-1940 | USED LURE TO TRAP ♂. NO LUCK. COULD NOT SEE NEST. ♂ |



9/14 mtc 8/23 MW

FITNESS CORRELATES SUMMARY SHEET

NEST ID WVS 228R TREATMENT GROUP (CC) DATE FOUND 6/5/92

LOCATION WVS Tag 16 in treefall near parent

MALE ID BAND NO. 2101-06443 COLORS Sobk/ovg (B) H bl (D) AGE A, Y

FEMALE ID BAND NO. 2101-06161 COLORS Soyelodk (B) Hgrn/red (R) AGE A, Y

DATE OF FIRST EGG 6/8/92 # OF EGGS 4 HATCHING DATE 6/22/92

OF HATCHLINGS 4 COWBIRD EGGS? #? 0 UNDEVELOPED EGGS? 0

MEAN MASS AT HATCHING? 2.38 (4) FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST fledged by us ^{-not well followed} DATE OF FLEDGING 7/3/92 # OF FLEDGINGS 4

SURVIVING TO INDEPENDENCE — MEAN MASS DAY 3 (N) 1.12 (4) MEAN MASS DAY 6 (N) 1.70 (4)

MEAN MASS FLEDGING (N) 15.90 (4) FEMALE MASS AT FLEDGING 20.0 TIME 1030

MALE MASS AT FLEDGING 19.2 TIME 1030 DATE FEMALE LAST SEEN —

DATE MALE LAST SEEN — FEMALE BLED (Y/N): DATE 5/10/92 (#936)

MALE BLED (Y/N): DATE 6/24/92 (#1194) IMPLANT DATE — MASS AT IMPLANT —

IMPLANT OK (IN, OUT?) — IMPLANT REMOVED (Y/N) DATE —

FAT CLASS? —

INDEP. YG. ID #'S: 94093918, 94093919, 94093920, 94093921

AGE OF FLEDGING: Day 11 Nestling blood sample #'s: 1210, 1211, 1212, 1213

COMMENTS:
not seen feeding young fledglings not censused. do not know fate after fledging.

Found as nest sheet. 4 eggs laid. All 4 hatched. All 4 fledged.

JUNCO NEST LOG SHEET

NEST ID WV 338 R TREATMENT GROUP CC

FEMALE: _____ DATE FOUND _____

BAND # _____ STATUS WHEN FOUND _____

COLORS _____

MALE:

BAND # _____

COLORS _____

LOCATION: _____

EGGS LAID 4 # HATCHED, DATE 4, 6/22/92

DATE INCUBATION ONSET 6/11/92 # FLEDGED/FAIL, DATE 4, 7/3/92

MALE BLED (Y/N), DATE 6/24/92 IMPLANT REMOVED (Y/N), DATE _____

FEMALE STAYED/LEFT _____

| DATE | TIME | STATUS |
|------|-----------|--|
| 6/6 | 1200 | ♂ chippy did not check for eggs LC |
| 6/7 | 1500 | deer hair lining LC |
| 6/8 | 1000 | 1 egg, ♂ ♀ chippy LC |
| 6/11 | 1130 | 4 eggs, no sign of adults LC |
| 6/12 | 1000 | 4 eggs, ♀ on LC |
| 6/13 | 1440 | ♀ on LC |
| 6/14 | 1600+ | ♀ on. Neither very responsive to ♂ "intruder" (in cage) even though ♂ sang close to area of nest. RT |
| 6/15 | 0852 | ♀ on LC |
| 6/16 | 1000 | ♀ on LC |
| 6/19 | AM & PM | ♀ on. TRIED WITH TAPE, LURE, TAPE ETC. NO SIGN OF ♂. |
| 6/22 | 1550 | DO: 3 hatched, 1 to go, weighed & polished |
| 6/23 | 1450 | weighed 4th nestling LC |
| 6/24 | 1810 | CT ♂ ♀ BLED FOR DNA. Bz |
| 6/25 | 1430 | MEASURED, WEIGHED, & REPOLISHED 4 DAY 3 young. ZIC & LC. |
| 6/28 | 1650 | banded & bled 4 day 6 young LC |
| 7/3 | 1000 | Fledging day - measured + weighed all 4 young, caught ♀ + ♂ (bled for CBP & lavaged) |
| 7/9 | 1045-1120 | saw dk grn/red + one other, maybe a third? 20' + south of nest LC |
| 7/13 | 1200-1220 | saw no one LC |

936
1194

~~X~~
Same as
previous family?

9/14 mtc 8/23 MW

FITNESS CORRELATES SUMMARY SHEET

NEST ID WVS 230R TREATMENT GROUP (I) T DATE FOUND 5/31/92

LOCATION WVS tag 28 by HB gate

MALE ID BAND NO. 2101 06651 COLORS S=lav/yel o lt grn (R) red (L) AGE A, Y

FEMALE ID BAND NO. 2101 06727 COLORS 2 Red (R) org o S o org (L) AGE A, Y

DATE OF FIRST EGG ~ 6/2/92 # OF EGGS — UNDEVELOPED EGGS? #? —

HATCHING DATE DID NOT HATCH # OF HATCHLINGS 0 COWBIRD EGGS? #? 0

MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST FAILED - (during laying) predated as eggs DATE OF FLEDGING — # OF FLEDGINGS 0

AGE OF FLEDGING — # SURVIVING TO INDEPENDENCE 0 MEAN MASS DAY 3 (N) —

MEAN MASS DAY 6 (N) — MEAN MASS FLEDGING (N) —

INDEPENDENT YOUNG ID NO. —

FEMALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

MALE MASS AT FLEDGING — TIME — DATE MALE LAST SEEN —

FEMALE BLED (Y/N); DATE 4/16/92 (#874)

MALE BLED (Y/N); DATE 4/28/92 (#912) IMPLANT DATE 4/28/92 MASS AT IMPLANT 21.7

IMPLANT OK (IN) OUT? implants O.K. {5/8 7/16} IMPLANT REMOVED (Y/N) DATE 7/16/92

FAT CLASS? —

COMMENTS: failed by 6/4/92 - predated

found AS NEST START. 2 eggs laid. 6/4 found NEST pulled out.
proof of parentage? ID?

JUNCO NEST LOG SHEET

NEST ID WVS 2305 TREATMENT GROUP (I) T 4/28/92

FEMALE: DATE FOUND _____

BAND # 2101 06727 STATUS WHEN FOUND Nest start

COLORS Red = Red (R) Or = S = Org (L)

MALE:

BAND # 2101 06651

COLORS S = Lav/Yel, Lt grn (R) Red (L)

LOCATION: WVS 28 by #3 gate

EGGS LAID _____ # HATCHED, DATE _____

DATE INCUBATION ONSET _____ # FLEDGED (FAIL) DATE 6/4/92

MALE BLED (Y/N), DATE 4/28/92 IMPLANT REMOVED (Y/N), DATE 7/16/92

FEMALE (STAYED) LEFT _____

| DATE | TIME | STATUS |
|---------|------|--|
| 5/31/92 | 1610 | nest form out recently about 75 m S of Horsebarn parking space by gate off WVS, along E band. Also 2 nest starts to check later - one 100 post pack lot, by lg rock w/W spot (on opp side) RCT |

6/2 1 egg in nest - 2's

6/3 2 eggs - RCT no ♀ around.

6/4 FAILED - nest - no ♀ seen - 1 egg - 2's

6/21 - where is WVS 2305? nest log?
 - not found
 We skipped b/c we knew they had an egg in nest - nest probably hatched late May

THERE IS ONE EGG IN NEST OPPOSITE MARKER AT WVS 2305
 WITH NOTE 5/31

eg

9/14 mtc 8/23 MW

FITNESS CORRELATES SUMMARY SHEET

NEST ID WNS 230R2 TREATMENT GROUP * (I) T DATE FOUND 6/5/92

LOCATION OF NEST near horse pasture, west 20 m in tree fall

MALE ID BAND NO. 2101-06651 COLORS 50lav/60ltgrn (B) red (D) AGE A,Y

FEMALE ID BAND NO. 2101-06727 COLORS 2 Red (B) orgo 50 orgo (D) AGE A,Y

DATE OF FIRST EGG — # OF EGGS 0 UNDEVELOPED EGGS? #? —

HATCHING DATE — # OF HATCHLINGS 0 COWBIRD EGGS? #? 0

MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

DATE OF NEST ABANDONED ^{as nest} start DATE OF FLEDGING — # OF FLEDGINGS 0

AGE OF FLEDGING — # SURVIVING TO INDEPENDENCE 0 MEAN MASS DAY 3 (N) —

MEAN MASS DAY 8 (N) — MEAN MASS FLEDGING (N) —

INDEPENDENT YOUNG ID NO. —

FEMALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

MALE MASS AT FLEDGING — TIME — DATE MALE LAST SEEN —

FEMALE BLED (Y/N) DATE 4/16/92 (#874)

MALE BLED (Y/N) DATE 4/28/92 (#912) IMPLANT DATE 4/28/92 MASS AT IMPLANT 21.7

IMPLANT OK (IN) OUT? implants OK ^{5/8} IMPLANT REMOVED (Y/N) DATE 7/16/92

FAT CLASS? —

COMMENTS:

nest never used
* ♂ never positively associated w/ nest start but appeared to be paired w/ this ♀ both before + after

JUNCO NEST LOG SHEET

ST ID WVS 230-R2 TREATMENT GROUP (I) → T

FEMALE: DATE FOUND 6/5/92

BAND # _____ STATUS WHEN FOUND 1 red

COLORS Red o Red (R) Org o So Org (L)

MALE:

BAND # 2101 06651

COLORS So Lav/Yel o Ltgrn (R) Red (L)

LOCATION: take JT to S just before Horsepasture about 40 m along trail then W 20 m in trees fall

EGGS LAID 0 #HATCHED, DATE —

DATE INCUBATION ONSET — #FLEDGED/FAIL, DATE abandoned nest start

MALE BLED (Y/N), DATE 4/28/92 IMPLANT REMOVED (Y/N), DATE 7/16/92

FEMALE STAYED LEFT _____

| DATE | TIME | STATUS |
|---------|------|---|
| 6/5/92 | | ♀ along path, wiping bill. ♂ singing from driveway to HB and far S along JT. Nest is dry and very white (1st row) and new looking LC, RCT |
| 6/6/92 | 1200 | ♂ singing along JT, no eggs in nest LC |
| 6/17/92 | 1400 | No change in nest LC |

9/14 MHC 8/23 MW

FITNESS CORRELATES SUMMARY SHEET

NEST ID WUS 230R3 TREATMENT GROUP (I) T DATE FOUND 6/11/92

LOCATION WUS Tag 31-37

MALE ID BAND NO. 2101-06651 COLORS Solar/yeloltgen (R) red (L) AGE A, Y

FEMALE ID BAND NO. 2101-06727 COLORS 2 red (R) orange (L) AGE A, Y

DATE OF FIRST EGG — # OF EGGS 0 UNDEVELOPED EGGS? #? —

HATCHING DATE — # OF HATCHLINGS 0 COWBIRD EGGS? #? —

MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST Nest starts never used DATE OF FLEDGING — # OF FLEDGINGS 0

AGE OF FLEDGING — # SURVIVING TO INDEPENDENCE 0 MEAN MASS DAY 3 (N) —

MEAN MASS DAY 6 (N) — MEAN MASS FLEDGING (N) —

INDEPENDENT YOUNG ID NO. —

FEMALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

MALE MASS AT FLEDGING — TIME — DATE MALE LAST SEEN —

FEMALE BLED (Y/N); DATE 4/16/92 (#874)

MALE BLED (Y/N); DATE 4/28/92 (#912) IMPLANT DATE 4/28 MASS AT IMPLANT 21.7

IMPLANT OK (N) OUT? implants O.K. (5/8) 7/16 IMPLANT REMOVED (Y/N) DATE 7/16/92

FAT CLASS? —

COMMENTS:

pair had several nest starts on WUS Tag 31-37 none of them were used

JUNCO NEST LOG SHEET

EST ID WVS 230R3 TREATMENT GROUP _____

FEMALE: _____ DATE FOUND _____

BAND # 2111 STATUS WHEN FOUND _____ moss / egg

COLORS _____

MALE: _____

BAND # _____

COLORS _____ Tag 37 on east side near ditch

LOCATION: _____ tag 37 8 paces on E side in bank between clump of grass

EGGS LAID _____ # HATCHED, DATE _____

DATE INCUBATION ONSET _____ # FLEDGED/FAIL, DATE series of abandoned nest starts

MALE BLED (Y/N), DATE 4/28/92 IMPLANT REMOVED (Y/N), DATE 7/16/92

FEMALE STAYED/LEFT _____

| DATE | TIME | STATUS |
|------|-----------|--|
| 6/1 | 10:5 | Established up from 2nd nest - start in 1st nest CC |
| 6/13 | 1700 | no change CC |
| 6/14 | 1130 | no change, the top of 1st CC |
| 6/15 | 1000 | probably not finished yet |
| 6/17 | 1130 | looks very unfinished, probably abandoned CC |
| 6/22 | 1930 | ♂ singing on phone line; some soft songs. ♀ above ground, chirped when I approached. Moss start - lots of moss in no definite shape RCT. |
| 6/23 | 1515 | definite shape to moss, no adults seen CC |
| 6/24 | | looks like grass now |
| 6/25 | PM | looks like another start about steps towards here. P |
| 6/26 | | no change in any activities CC |
| 6/27 | | no change CC |
| 6/28 | 1135 | no change CC |
| 7/2 | 1425 | found 1 egg in an earlier nest start nest looks sloppy, no sign of adults ♀ ID'd as WP 195R ♀ |
| 7/14 | 1948-2000 | ♀ foraging by net above S-curve, flew into lg hemlock behind net. ♂ singing in circle centered N of net. RCT |

NEST ID WVS 231 TREATMENT GROUP (I) 4/12/92? C DATE FOUND 6/2/92

LOCATION 34 steps past WVS tag (56), downhill 100-150 steps, flagged all the way low in cavity

MALE ID BAND NO. 210106479 COLORS lt bl (L) S o dk bl /yel (L) AGE A, Y

FEMALE ID BAND NO. 210106580 COLORS dk bl/org (R) S o lt grn o white (L) AGE A, Y

DATE OF FIRST EGG 4/12/92 # OF EGGS 4 UNDEVELOPED EGGS? #? -

HATCHING DATE DID NOT HATCH # OF HATCHLINGS 0 COWBIRD EGGS? #? 0

MEAN MASS AT HATCHING? - FEMALE MASS AT HATCHING? - MALE MASS AT HATCHING -

FATE OF NEST FAILED (eggs gone) DATE OF FLEDGING - # OF FLEDGINGS 0

AGE OF FLEDGING - # SURVIVING TO INDEPENDENCE 0 MEAN MASS DAY 3 (N) -

MEAN MASS DAY 6 (N) - MEAN MASS FLEDGING (N) -

INDEPENDENT YOUNG ID NO. -

FEMALE MASS AT FLEDGING - TIME - DATE FEMALE LAST SEEN -

MALE MASS AT FLEDGING - TIME - DATE MALE LAST SEEN -

FEMALE BLED (Y/N); DATE 4/14/92 (#842)

MALE BLED (Y/N); DATE 4/12/92 (#800) IMPLANT DATE 4/12/92 MASS AT IMPLANT 20.6

IMPLANT OK (IN) OUT? implants 0.15 (4/25) 8/7 IMPLANT REMOVED (Y/N) DATE 8/07/92

FAT CLASS? -

COMMENTS: failed by 6/3/92.

found w/ 4 eggs. ♂ not pos. associated w/ nest. All 4 eggs missing 6/3.

JUNCO NEST LOG SHEET

(I)

NEST ID WVS 231 TREATMENT GROUP C

FEMALE: DATE FOUND 6/02/92

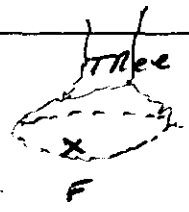
BAND # 210106580 STATUS WHEN FOUND 4 EGGS

COLORS DK BL/0R29 SC LT GLN/WHITB

MALE:

BAND # 210106479

COLORS LT BL SO GR BL/YEL



LOCATION: 34 STEPS PAST WVS TAG 56, DOWNHILL 100-150 STEPS, FLAGGED ALL THE WAY. LOW IN CAVITY

EGGS LAID 4 # HATCHED, DATE —

DATE INCUBATION ONSET — # FLEDGED/FAIL DATE 6/03/92

MALE BLED (Y/N), DATE 4/12/92 IMPLANT REMOVED (Y/N), DATE 8/7/92

FEMALE STAYED LEFT —

DATE TIME STATUS

6/02/92 830 FROSHED ♀. SHE CHIPPED A LITTLE. NO ♂ SOON.

6/03/92 1320 ALL 4 EGGS GONE. NO SIGN OF PAIR. CUP NOT DISTURBED

NEST FAILED

THESE NEST LOGS SUGGEST THAT THIS PAIR NEVER HAD A SUCCESSFUL NEST BY 8/07/92

31001992
842
2101992
800

9/14 mlk

FITNESS CORRELATES SUMMARY SHEET

NEST ID WVS 231 R TREATMENT GROUP (I) C DATE FOUND 6/19/92

LOCATION WVS Tag 56 in ditch on west side of road

MALE ID BAND NO. 2101-06479 COLORS lt bl (R) SdK bl / yel (D) AGE A, Y

FEMALE ID BAND NO. 2101-06580 COLORS dk bl / org (R) S. / tgrn² white (D) AGE A, Y

DATE OF FIRST EGG 6/22/92 # OF EGGS 1 HATCHING DATE DID NOT HATCH

OF HATCHLINGS — COWBIRD EGGS? #? — UNDEVELOPED EGGS? —

MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST FAILED (eggs gone) 6/23 DATE OF FLEDGING — # OF FLEDGINGS —

SURVIVING TO INDEPENDENCE — MEAN MASS DAY 3 (N) — MEAN MASS DAY 6 (N) —

MEAN MASS FLEDGING (N) — FEMALE MASS AT FLEDGING — TIME —

MALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

DATE MALE LAST SEEN 8/07/92 FEMALE BLED (Y/N); DATE 4/14/92 (#842)

MALE BLED (Y/N); DATE 4/12/92 (#800) IMPLANT DATE 4/12/92 MASS AT IMPLANT 20.6

IMPLANT OK (IN) OUT? implants 0.1K {4/25 8/7} IMPLANT REMOVED (Y/N) DATE 8/07/92

FAT CLASS? —

INDEPENDENT YG ID #s. —

AGE OF FLEDGING: —

COMMENTS:

Nest failed by 6/23/92

Found as nest start. 1 egg laid. Egg missing 6/23. ♂ NEVER POS ID'd w/ this nest.

JUNCO NEST LOG SHEET

NEST ID WVS 231R TREATMENT GROUP (I) → C

FEMALE: DATE FOUND 6/19/92

BAND # 2101 06580 STATUS WHEN FOUND JUST A CAVITY

COLORS DK BL / ORG SOFT GRN O WHITE

MALE:

BAND # 2101 06580

COLORS 1 + BL (R) SOFT GRN BL / YEL (L)

LOCATION: JUST BEFORE NET AT WVS TAG 56. VERY LOW (ALMOST IN DITCH).

EGGS LAID — # HATCHED, DATE —

DATE INCUBATION ONSET — # FLEDGED (FAIL) DATE 6/23/92

MALE BLED (Y/N), DATE 4/12/92 IMPLANT REMOVED (Y/N), DATE 8/7/92

FEMALE STAYED/LEFT —

| DATE | TIME | STATUS |
|---------|----------------|---|
| 6/19/92 | 835 840-930 | AS I DROVE PAST ♀ FLEW OUT OFFELNS. RETURNED SHORTLY TO FIND FRESH CAVITY. REPOSITIONED CAR; WATCHED HER BRING MATERIAL WITHOUT INTERRUPTION FOR ALMOST 45 MINUTES. |
| | AM & PM | WATCHED HER BRING MATERIAL OFF FOR ALL DAY LONG. FINALLY STOPPED AT 1600. NEST CUP & BASE COMPLETE. NEEDS MORE GRASS & DEER HAIR. |
| 6/20/92 | AM | GRASS LINED WITH SOME DEER HAIR. |
| 6/21/92 | 1545 | SOME DEER HAIR LC |
| 6/22/92 | 1300 1330 | ONE JUNCO ♂. ♀ SAW (1 BL (R) SOFT GRN BL / YEL) SINGING OVER WVS SOUTH OF REST, NEAR FAILED NEST LC |
| 6/23/92 | 1610 | FAILED, no eggs, some grass torn out LC |

need to
ID

9/14 mlc

FITNESS CORRELATES SUMMARY SHEET

NEST ID WVS 231-R2 TREATMENT GROUP (I) C DATE FOUND 7/10/92
 LOCATION WVS Tag 52 10 steps N of GDR, down slope in tree
 MALE ID BAND NO. 2101-06479 COLORS lt bl (B) so dk bl / yel (L) AGE A, Y
 FEMALE ID BAND NO. 2101-06580 COLORS dk bl / org (B) Solt genow white AGE A, Y
 DATE OF FIRST EGG — # OF EGGS 5 UNDEVELOPED EGGS? #? ?
 HATCHING DATE — # OF HATCHLINGS — COWBIRD EGGS? #? 0?
 MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —
 FATE OF NEST FAILED (eggs gone) 7/13 DATE OF FLEDGING — # OF FLEDGINGS —
 AGE OF FLEDGING — # SURVIVING TO INDEPENDENCE — MEAN MASS DAY 3 (N) —
 MEAN MASS DAY 6 (N) — MEAN MASS FLEDGING (N) —
 INDEPENDENT YOUNG ID NO. —
 FEMALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN 8/07/92
 MALE MASS AT FLEDGING — TIME — DATE MALE LAST SEEN 8/07/92
 FEMALE BLED (Y/N); DATE 4/14/92 (#842)
 MALE BLED (Y/N); DATE 4/12/92 (#800) IMPLANT DATE 4/12/92 MASS AT IMPLANT 20.6
 IMPLANT OK (IN/OUT?) implants O.K. ^{4/25} 8/7 IMPLANT REMOVED (Y/N) DATE 8/07/92
 FAT CLASS? —

COMMENTS: failed by 7/13/92

8/07/92 ♀ + ♂ CT F30 WVS/GOR. Bird in MOLT STAGE.
BROWN LAVA GON, 43000 ♂

Nest found w/ 5 eggs. ♀ inc. All eggs gone 7/13.

JUNCO NEST LOG SHEET

NEST ID WVS 231 R2 TREATMENT GROUP _____

FEMALE: DATE FOUND 7/10/92

BAND # 2101-06580 STATUS WHEN FOUND ♀ incub. 5 eggs

COLORS S o Ltgrn o Wh (R) DKBl/orgr (L)

MALE:

BAND # 2101-06479

COLORS L+Bl (R) S o DKBl/Yel (L)

LOCATION: Go down slope (L to rd) ~10 steps N of GD road (tag) 2/3 down follow flags in mod. tree fall obvious

EGGS LAID _____ #HATCHED, DATE _____

DATE INCUBATION ONSET _____ #FLEDGED FAIL, DATE _____

MALE BLED (Y/N), DATE _____ IMPLANT REMOVED (Y), DATE 8/7/92

FEMALE STAYED/LEFT _____

| DATE | TIME | STATUS |
|--------|------|--|
| 7/10 | 1700 | ♂♀ responded to tape at GD entrance, came from downhill. ♂ stayed >15 min, ♀ left after making chips, musical (courtship type) notes. Found nest downhill, ♀ flushed off 5 eggs. RCT |
| 7/13 | 1940 | nest empty. Broken, very slightly moist eggshell in nest in small pieces. No birds here. RCT |
| failed | | |
| 7/19 | 1630 | ♂ singing downhill and across (E of) GDR on WVS ♀ (not identified) downhill to E trilling when I played tape RCT |

9/14 mile 7:22 AM

FITNESS CORRELATES SUMMARY SHEET

NEST ID WVS 232 TREATMENT GROUP (I) C DATE FOUND 6/2/92

LOCATION Uphill 20+ steps, 28 steps past WVS tag (60), in ground near treefall

MALE ID BAND NO. 2101 06948 COLORS Sered + lt green (C) blk/ltlav (C) AGE A, Y

FEMALE ID BAND NO. 2101 06633 COLORS red/white (C) Solar/yak/blk (C) AGE A, Y

DATE OF FIRST EGG ~5/23-24/92 ^{back-dated} # OF EGGS 4 UNDEVELOPED EGGS? #? -

HATCHING DATE 6/7/92 # OF HATCHLINGS 4 COWBIRD EGGS? #? C

MEAN MASS AT HATCHING? 2.13(4) FEMALE MASS AT HATCHING? - MALE MASS AT HATCHING -

FATE OF NEST Fledged ^{None thought to have reached independence} DATE OF FLEDGING 6/19/92 # OF FLEDGINGS 4

AGE OF FLEDGING Day 12 # SURVIVING TO INDEPENDENCE 0 MEAN MASS DAY 3 (N) 7.03(4)

MEAN MASS DAY 6 (N) 13.65(4) MEAN MASS FLEDGING (N) 16.98(4)

INDEPENDENT YOUNG ID NO. 940 93901, 940 93902, 940 93903, 940 93904

FEMALE MASS AT FLEDGING 18.7 TIME 0900 DATE FEMALE LAST SEEN DIED 6/19/92

MALE MASS AT FLEDGING 20.2 TIME 0900 DATE MALE LAST SEEN -

FEMALE BLED (Y/N); DATE 4/22/92 (#907)

MALE BLED (Y/N); DATE 4/22/92 (#904) IMPLANT DATE 4/22/92 MASS AT IMPLANT 22.4

IMPLANT OK (IN) OUT? implants O.K. 6/19 IMPLANT REMOVED (Y/N) DATE 7/15/92

FAT CLASS? -

Nestling blood sample #s: 1133, 1135, 1136, 1137

Fledging Day: Day 12

COMMENTS: It seems likely that this is their 2nd nest (at least) and that this pair was associated with WVS 211 - see 211 nest log.
F died at fledging after being bled - she was very light - M appeared to have cared for the fledglings for ~ 1 day but no young were seen after fledging day.

Nest found w/ 4 eggs. All 4 hatched. All 4 fledged. (ASG&Abaks)

JUNCO NEST LOG SHEET

(I)

F. d. d.

NEST ID WVS 232 TREATMENT GROUP _____

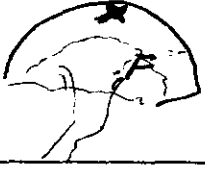
FEMALE: DATE FOUND 6/02/92

BAND # Red STATUS WHEN FOUND 4 EGGS

COLORS RED/WHITE ~~SO LAY/BLK ?~~ SO LAY/BLK ?

MALE: BAND # 210106948 A,Y 210106633 A,Y

COLORS SO RED OLT GRN BLK/LAY



LOCATION: UPHILL 80+ STEPS (28 STEPS FIRST WVS 174 60) IN GRASS WITH TREE FALL.

EGGS LAID _____ # HATCHED, DATE 4, 6/7/92

DATE INCUBATION ONSET ~ 5/26-27/92 ^{backdated} # FLEDGED/FAIL. DATE 6/19/92

MALE BLED (Y/N), DATE 4/22/92 IMPLANT REMOVED (Y/N), DATE 7/15/92

FEMALE STAYED/LEFT ♀ DIED AFTER BEING BLED AT FLEDGING

| DATE | TIME | STATUS |
|---------|-------------|---|
| 6/02/92 | 9:35 | FLUSHED ♀ COULD ONLY EVAL GET GOOD LOOK AT RIGHT LEG. ♂ CAME IN SNUBBY WAS CHIPPY. |
| 6/03/92 | 13:10 | BOTH IN MOUTH, CHIPPY. STILL 4 EGGS. GOT ALMOST POSITIVE LOOK AT ♀. NO MATCH!! |
| 6/05/92 | 09:15 | ♀ FLUSHED 4 EGGS, ♂ CHIPPING NEARBY. ALMOST 100% ID. (LAY/BLK LOOKS VERY FADED). |
| 6/06/92 | 13:00 | ♀ finished 4 eggs, didn't - IUC = 4. |
| 6/07/92 | 17:30 | Day 0 - Hatched - 3 Hatched, one didn't LC |
| 6/08/92 | 14:00 | weighed 4th nestling & renewed polish |
| 6/09/92 | 13:26 | active - 2 adults present, chipping. MW. |
| 6/10/92 | 16:00-17:00 | band banded & bled all 4, adults chippy LC |
| 6/11/92 | | Zig + Lori set up nest, at least 2 young still in nest |
| 6/12/92 | | Fledged nest, ♀ died ^{after} being bled, she weighed only 18.2g (see Lori notes). returned ♂ - 4 fledglings to nest site. EX returned to territory at 19:15 - noted following (1) ♂ chirped defensively, (2) saw one young which flew strongly from ground to a tall hemlock, (3) did not hear begging <u>suggesting you were satisfied</u> (4) ♂ did not sing. Collectively facts suggest ♂ is caring for his brood and not advertising for new mate. EX. |
| 6/20/92 | 13:00 | ♂ seen south of nest; very chippy but he was seen same territory territory |

904
904
904

9/14 mdc

FITNESS CORRELATES SUMMARY SHEET

NEST ID WVS 233 TREATMENT GROUP UNKNOWN DATE FOUND 6/02/92

LOCATION WVS Tag 63 ++ 16 steps before white fence downhill

MALE ID BAND NO. UNKNOWN COLORS — AGE —

FEMALE ID BAND NO. 2101-06715 COLORS Sored/dk bl o/av @ low/bk @ AGE A, Y

DATE OF FIRST EGG 6/05/92 # OF EGGS 3 UNDEVELOPED EGGS? #? — 8?

HATCHING DATE — # OF HATCHLINGS — COWBIRD EGGS? #? —

MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST FAILED (AD EGGS) ♀ died 6/11 DATE OF FLEDGING — # OF FLEDGINGS —

AGE OF FLEDGING — # SURVIVING TO INDEPENDENCE — MEAN MASS DAY 3 (N) —

MEAN MASS DAY 6 (N) — MEAN MASS FLEDGING (N) —

INDEPENDENT YOUNG ID NO. —

FEMALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN DIED 6/11/92

MALE MASS AT FLEDGING — TIME — DATE MALE LAST SEEN —

FEMALE BLED (Y/N); DATE 4/12/92 (#816)

MALE BLED (Y/N); DATE — IMPLANT DATE — MASS AT IMPLANT —

IMPLANT OK (IN, OUT?) — IMPLANT REMOVED (Y/N) DATE —

FAT CLASS? —

COMMENTS:

♀ died in bucket after being caught in a trap
3 eggs put into incubator

♂ singing in area earlier was 940 93116

Found AS nest street. 3 eggs laid. ♀ died on 6/11. Eggs incubated.

JUNCO NEST LOG SHEET

NEST ID WVS 233 TREATMENT GROUP _____

FEMALE: DATE FOUND 6/02/92

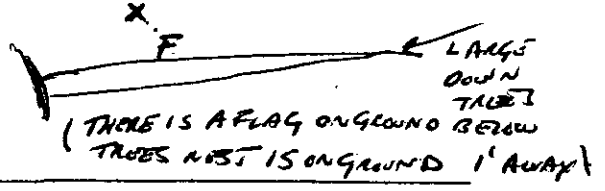
BAND # 210106715 STATUS WHEN FOUND READY FOR DEER HAIR?

COLORS SOEFD/OKBL/LAV ~~BLK~~ LAV/BLK

MALE:

BAND # _____

COLORS _____



LOCATION: WELL PAST MUSTAG 63 (16 STEPS BEFORE WHITE FENCE, DOWNHILL)

EGGS LAID AT LEAST 3 # HATCHED, DATE 6/18?

DATE INCUBATION ONSET _____ # FLEDGED (FAIL) DATE 6/11

MALE BLED (Y/N), DATE _____ IMPLANT REMOVED (Y/N), DATE _____

FEMALE STAYED/LEFT _____

| DATE | TIME | STATUS |
|---------|------|--|
| 6/02/92 | 1115 | SPOTED ♀ AS I CAME UP FROM COYOTES. SAT AWHILE & GOT GENERAL IDEA. SHE IS FAIRLY CHIPPY. NO ♂ AROUND. READY FOR DEER HAIR. |
| 6/03/92 | 1300 | DID NOT CHECK. AS I WAS GOING TO BANK. ♀ FLEW UP FROM NEST AREA. CHECK TOM. MOR. ♂. DEER HAIR IN NEST. ♂. |
| 6/04/92 | 1120 | ONE JUNCO EGG. ♂. |
| 6/05/92 | 0935 | FLUSHED ♀. SITTING ON 3 JUNCO EGGS. |
| 6/09/92 | 1020 | CT ♀ IN TRAP. WEIGHED HER. AIR IN BUCKET & CHECKED NEST. |
| 6/11/92 | 1245 | ♀ DETAO WHEN I WALKED BACK. TOOK 3 EGGS & PUT IN INCUBATOR. ♂. |

♂ SINGING IN AREA ESTATION WAS 940 93116

Egg development?

Bled 1492 8/16

9/14 mlc

FITNESS CORRELATES SUMMARY SHEET

NEST ID WVS 234 TREATMENT GROUP UNKNOWN DATE FOUND 6/3/92
 LOCATION in 2nd treefall by flag on left of trail marked w/ blue squares, accessed to the left side of driveway to horse barn - close to barn end of path

MALE ID BAND NO. UNKNOWN COLORS - AGE -
 FEMALE ID BAND NO. UNKNOWN COLORS - AGE -
 DATE OF FIRST EGG UNKNOWN # OF EGGS 4 UNDEVELOPED EGGS? #? 4
 HATCHING DATE - # OF HATCHLINGS - COWBIRD EGGS? #? 1
 MEAN MASS AT HATCHING? - FEMALE MASS AT HATCHING? - MALE MASS AT HATCHING -
 FATE OF NEST Abandoned (as eggs) DATE OF FLEDGING - # OF FLEDGINGS -
 AGE OF FLEDGING - # SURVIVING TO INDEPENDENCE - MEAN MASS DAY 3 (N) -
 MEAN MASS DAY 6 (N) - MEAN MASS FLEDGING (N) -
 INDEPENDENT YOUNG ID NO. -
 FEMALE MASS AT FLEDGING - TIME - DATE FEMALE LAST SEEN -
 MALE MASS AT FLEDGING - TIME - DATE MALE LAST SEEN -
 FEMALE BLED (Y/N); DATE ?
 MALE BLED (Y/N); DATE ? IMPLANT DATE ? MASS AT IMPLANT ?
 IMPLANT OK (IN, OUT?) - IMPLANT REMOVED (Y/N) DATE -
 FAT CLASS? -

COMMENTS:

found w/ 4 junco + 1 cb egg (cold). No development had taken place in any of the eggs.

JUNCO NEST LOG SHEET

NEST ID WVS 234 TREATMENT GROUP UNKNOWN

FEMALE: DATE FOUND 6/3/92
 BAND # _____ STATUS WHEN FOUND 4 cold, fresh-looking J eggs + 1 CB egg

COLORS -

MALE: BAND # _____

COLORS - (Jungle Trail)

LOCATION: in 2nd treefall by flag on left of trail marked with blue squares, accessed to the left side of driveway to horse barn - close to barn end of path.

EGGS LAID 4 # HATCHED, DATE -

DATE INCUBATION ONSET _____ # FLEDGED/FAIL DATE - ABANDONED - DON'T KNOW WHEN

MALE BLED (Y/N), DATE ? IMPLANT REMOVED (Y/N), DATE -

FEMALE STAYED/LEFT ?

| DATE | TIME | STATUS |
|--------|-------|---|
| 6/3/92 | 17:30 | nest found in treefall - no birds in sight; 4 cold, fresh-looking junco eggs and 1 CB egg. MW |
| 6/5/92 | 11:00 | Same, waited ~15min - saw no parents → abandoned? MW |
| 6/7 | 12:05 | Same MW |
| 6/8 | 11:38 | Same MW. |
| 6/9 | 13:55 | Same. All 5 eggs taken. MW. |

- All 4 junco eggs showed no sign of development (no redness, circulation or embryos apparent) - suggests that eggs were abandoned before the onset of incubation. MW

FITNESS CORRELATES SUMMARY SHEET

NEST ID WVS 235 TREATMENT GROUP (I) C DATE FOUND _____

LOCATION WVS Tag 48 at sharp curve before 6:30 1/2 up

MALE ID BAND NO. 2101-06429 COLORS Sored/white (R) Horned AGE 1

FEMALE ID BAND NO. 940-93108 COLORS dk. red to dk. br (R) orange AGE 1

DATE OF FIRST EGG 6/15/92 # OF EGGS 4 UNDEVELOPED EGGS? 1

HATCHING DATE 6/30? # OF HATCHLINGS 4 COWBIRD EGGS? 1

MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST Fledged by us DATE OF FLEDGING 7/10 # OF FLEDGINGS 4

AGE OF FLEDGING Day 11 # SURVIVING TO INDEPENDENCE 4 MEAN MASS DAY 3 (N) 12.00

MEAN MASS (5) DAY 5 (N) 12.00 (4) MEAN MASS FLEDGING (N) 16.40

INDEPENDENT YOUNG ID NO. 940 93925, 940 93922

FEMALE MASS AT FLEDGING 19.6 TIME 0820 DATE FEMALE LAST SEEN _____

MALE MASS AT FLEDGING 19.6 TIME 0820 DATE MALE LAST SEEN _____

FEMALE BLED (Y/N); DATE 4/22/92 (#908)

MALE BLED (Y/N); DATE 4/22, 7/16/92 (#905, 1297) IMPLANT DATE _____ MASS AT IMPLANT _____

IMPLANT OK (IN/OUT?) implants O.K. (5/5) IMPLANT REMOVED (Y/N) DATE 7/10

FAT CLASS? —

Nestling blood sample #s: 1241, 1240, 1242, 1243

Fledging Day: Day 11

COMMENTS: ♂ never seen feeding young

Found as nest sheet. 4 eggs laid. 4 hatched. 4 fledged. 4 young. All 4 survived to independence.

JUNCO NEST LOG SHEET

NEST ID WVS 235 TREATMENT GROUP I 4/22

FEMALE: DATE FOUND 6/8/92

BAND # 940-93108 STATUS WHEN FOUND Start moss

COLORS Dk Bl + Red + R (R) Dk + S (L)

MALE:

BAND # 2101 - 06429

COLORS S o Red/Wh (R) Lt grn o Dk grn (L)

LOCATION: Tag 48 WVS just before rock face at sharp curve before GD Road 1/2 way up ^{under} rock

EGGS LAID _____ # HATCHED, DATE _____

DATE INCUBATION ONSET _____ # FLEDGED/FAIL, DATE _____

MALE BLED (Y/N), DATE _____ IMPLANT REMOVED (Y/N), DATE 7/15/92

FEMALE STAYED/LEFT _____

| DATE | TIME | STATUS |
|---------|------|--|
| 6/8/92 | 1106 | Watched pair for previous 80 min at intruder foot (inadvertently placed in their territory). ♀ very interested in staying close to intruder (who was a ♀) ♂ courting intruder (as usual), but not intensely. After min ♀ shook tail horizontally, then (after min) she solicited copulations (but ♂ not seen + did not approach) at 1106 ♀ flew to top of small bush + ♂ followed, then followed by male presenting briefly from away, repeated (♀ in wing cover cop) two more times. When I walked to 1st after they remained foraging) I was stopped at a some potential nest site. Since then found down across rd (L) RT |
| 6/9/92 | 1300 | Nest looks slightly more like a nest, but would not be too sure it was set. <u>except</u> that I saw pair talking (♂?), fly to above start, ♂ flew into nest - I did not see if he was carrying any material. Flew out of nest + into tree. It's It's still active RT |
| 6/10/92 | 1140 | nest "bowl of moss" Later (1415+) heard ♂ singing in area, and 3 times heard courtly song from this area (must have been relatively loud for courtly song). Many aggressive trills, prob. between these pair and Lt61030 Yc1R Lt61061 ♂ ♀77111 (was 227), and possibly involving others RT |
| 6/11/92 | 1200 | ♀ came off of beam K, chippy LC |
| | 1330 | nest now a cup of moss with one stem of grass interwoven. RT. |
| 6/12 | - | lined w/ grass |
| 6/13 | - | lined w/ deer hair, and ♀ chick. w/ gathering deer hair above nest on old rd. ♂ singing, and staying w/ ♀ RT |
| 6/14 | 1150 | lined w/ deer hair; no sign of any adults LC |
| 6/15 | 1140 | one egg! RT |
| 6/16 | 1710 | 2 eggs! LC |
| 6/17 | 1551 | 3 eggs! ♀ on LC |
| 6/22 | 1350 | 4 warm eggs LC |
| 6/25 | AM | ♀ on LC |

JUNCO NESTLOG SHEET. CONT.

| DATE | TIME | STATUS |
|------|-------------------------|---|
| 7/2 | 1440 | weighed & polished 4 young - probably hatched on 6/29 LC |
| | 1700 | ♀ on 4 young. RT |
| 7/4 | 1541 | weighed & banded 4 young Day 5 LC |
| 7/10 | 0800 | Flashing Day → ♀ + ♂ at ♀ bleed for CBP 4 young caught & measured LC & 2ig |
| 7/13 | 1735-1755 | Saw red/lt grn & white with parents uphill along old GDR LC |
| 7/16 | 1540-1635 | ⊕ census Day 6 - saw ♂, ♀, red/lt grn + dk grn + heard at least one more - found below WVS + above Indian Trail. MW. |
| 7/19 | 1445-1500, 1515-1540 | ⊕ census (Day 9) saw red/lt grn, org/lt bl + ♀ for sure - other 2 I think were there as well but I didn't see colors in good light. → 210106962 ♂ seen (didn't chip) but ♂ at nest not seen. MW |
| 7/24 | 1030-1100 | ⊕ census saw red/lt grn, org/lt bl & white → ♀ ♀ near GDR LC |

9/14 mlc

FITNESS CORRELATES SUMMARY SHEET

NEST ID WVS 236 TREATMENT GROUP (I) C DATE FOUND 6/20

LOCATION WVS Tag 14 in east bank

MALE ID BAND NO. 940-93105 COLORS orgo SB red o blk red (L) AGE A, Y

FEMALE ID BAND NO. 2101-06072 COLORS dk blk (R) Sore do yel (L) AGE A, Y

DATE OF FIRST EGG 6/20 # OF EGGS 2 * UNDEVELOPED EGGS? #? 0

HATCHING DATE Did not hatch # OF HATCHLINGS — COWBIRD EGGS? #? 1

MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST FAILED (eggs gone) 7/3 DATE OF FLEDGING — # OF FLEDGINGS —

AGE OF FLEDGING — # SURVIVING TO INDEPENDENCE — MEAN MASS DAY 3 (N) —

MEAN MASS DAY 6 (N) — MEAN MASS FLEDGING (N) —

INDEPENDENT YOUNG ID NO. —

FEMALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

MALE MASS AT FLEDGING — TIME — DATE MALE LAST SEEN —

FEMALE BLED (Y/N); DATE 5/10 (#930)

MALE BLED (Y/N); DATE 7/16 (#812) IMPLANT DATE 4/11 MASS AT IMPLANT 20.6

IMPLANT OK (IN) (OUT)? implants O.K. ^{6/16} _{7/16} IMPLANT REMOVED (Y/N) DATE 7/16/92

FAT CLASS? —

COMMENTS:

* 6/22 at 1005 nest had 2 junco eggs + 1 CB egg
at 1425 nest had only 1 junco egg + 1 CB egg

6/23 nest had 2 junco eggs + 1 CB egg

FAILED by 7/3

Nest found w/ 1 egg. 2 junco + 1 CB egg laid. Eggs gone 7/3.

JUNCO NEST LOG SHEET

NEST ID WVS 236

TREATMENT GROUP (I) 4/11/92

FEMALE:

DATE FOUND 6/20/92

BAND # 2101 06072

STATUS WHEN FOUND 1 egg

COLORS dk bl (R) so red o yel (L)

MALE:

BAND # 945 - 11103

COLORS orgo (S) red ob (K) red (L)

LOCATION: WVS Tag 14 in east bank

EGGS LAID _____

HATCHED, DATE _____

DATE INCUBATION ONSET _____

FLEDGED (FAIL) DATE _____

MALE BLED (Y/N), DATE _____

IMPLANT REMOVED (Y/N), DATE 7/16/92

FEMALE STAYED/LEFT _____

BLED 1/92 8/2
9/30

| DATE | TIME | STATUS |
|--------|------|--|
| 6/20 | 1500 | found nest in bank w/ 1 egg, no adults in sight (L) |
| 6/21 | 1115 | 2 eggs, no adults (L) |
| 6/22 | 1005 | 2 junco eggs, 1 CB egg, no adults (L) |
| | 1425 | 1 junco egg, 1 CB egg in (L) |
| | 1710 | same as 1425 RCT. no adults. |
| 6/23 | 1440 | ID'ed ♀, 2 junco eggs, 1 CB ♀ on (L) |
| 6/25 | 1025 | 3 warm eggs (1cb, 2junco) - no adults (L) |
| 6/26 | 1705 | orgo (S) (L) red ob (K) red (L) chipped when flushed off of 3 egg (1CB) (L) ♀ on (L) |
| 6/27 | 1120 | ♀ on, flushed, 2 + 1CB (L) |
| 6/28 | 1120 | ♀ flushed off 2 + 1CB (L, RT) |
| 7/1/92 | 1001 | ♀. FF 2 + 1CB; waited 10 min. ♂ + ♀ came in ♀ = DKBL (R), So yel o red? (L) ♂ = Orgo So? (R) "Red o yel?" "Red o DKBL o Red (L)" ♀ has injured (L) leg or foot - trouble perching. RT |
| 7/2/92 | 1410 | ♀ on (L) |
| 7/3/92 | 1315 | nest empty, lining intact, no adults here RCT |

- f. m. led

9/14 mlc

FITNESS CORRELATES SUMMARY SHEET

NEST ID WVS 238 TREATMENT GROUP unknown.* DATE FOUND 7/5/92

LOCATION ~ 400 m W on ST from WVS

MALE ID BAND NO. * COLORS Sol-grn/yel @ dk grn @ AGE

FEMALE ID BAND NO. 2101-06678 COLORS dk bl @ Sol-lav/yel @ dk bl @ AGE

DATE OF FIRST EGG — # OF EGGS — UNDEVELOPED EGGS? #? ?

HATCHING DATE 6/22?? # OF HATCHLINGS — COWBIRD EGGS? #? —

MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST fledged naturally DATE OF FLEDGING — # OF FLEDGINGS at least 1

AGE OF FLEDGING — # SURVIVING TO INDEPENDENCE — MEAN MASS DAY 3 (N) —

MEAN MASS DAY 6 (N) — MEAN MASS FLEDGING (N) —

INDEPENDENT YOUNG ID NO. —

FEMALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

MALE MASS AT FLEDGING — TIME — DATE MALE LAST SEEN —

FEMALE BLED (Y/N); DATE — (♀ not bled)

MALE BLED (Y/N); DATE — IMPLANT DATE — MASS AT IMPLANT —

IMPLANT OK (IN, OUT?) — IMPLANT REMOVED (Y/N) DATE —

FAT CLASS? —

COMMENTS:

Found as a family, at least 1 Day 2 fledglings

* ♂ ID unknown.

JUNCO NEST LOG SHEET

NEST ID WV5238 TREATMENT GROUP _____

FEMALE: DATE FOUND 5 July 1992

BAND # 2101 06678 STATUS WHEN FOUND 1st day 2nd fledges (approx.)

COLORS DKBI (R) SoLgn/Yel o LtBI (L)

MALE: BAND # _____

COLORS So Ltgrn/Wn o Yel (R) Kgrn (L)

LOCATION: ~400 m W on JT from WUS (above S curve), just off trail to right

EGGS LAID _____ # HATCHED, DATE _____

DATE INCUBATION ONSET _____ # FLEDGED/FAIL, DATE _____

MALE BLED (Y/N), DATE _____ IMPLANT REMOVED (Y/N), DATE _____

FEMALE STAYED/LEFT _____

| DATE | TIME | STATUS |
|--------|------|---|
| 7/5/92 | 1444 | ♂, ♀ very chippy. fledg. on ground. Fledges from last year? by nest in short tree fall. Not sure if this was where these fledged from. ♂ well seen but cannot be found in banding sheets RT |

9/14 mtc

FITNESS CORRELATES SUMMARY SHEET

NEST ID GD 25 TREATMENT GROUP CC DATE FOUND 6/03/92

LOCATION Garbage Dump Road

MALE ID BAND NO. 2101-06170 COLORS Sage/ored @ red/lt grn AGE A, Y

FEMALE ID BAND NO. 2101-06210 COLORS red/white @ org. Sored AGE A, Y

DATE OF FIRST EGG — # OF EGGS — UNDEVELOPED EGGS? #? —

HATCHING DATE 5/25 ?? # OF HATCHLINGS — COWBIRD EGGS? #? —

MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST fledged naturally DATE OF FLEDGING — # OF FLEDGINGS at least 3

AGE OF FLEDGING — # SURVIVING TO INDEPENDENCE — MEAN MASS DAY 3 (N) —

MEAN MASS DAY 6 (N) — MEAN MASS FLEDGING (N) —

INDEPENDENT YOUNG ID NO. —

FEMALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

MALE MASS AT FLEDGING — TIME — DATE MALE LAST SEEN —

FEMALE BLED (Y/N); DATE 7/03/92 (#1231)

MALE BLED (Y/N); DATE (♂ not bled) IMPLANT DATE — MASS AT IMPLANT —

IMPLANT OK (IN, OUT?) — IMPLANT REMOVED (Y/N) DATE —

FAT CLASS? —

COMMENTS:

found as a family, at least 3 fledglings Day 10-12

FITNESS CORRELATES SUMMARY SHEET

NEST ID GD 25 II TREATMENT GROUP (C) DATE FOUND 7/2

LOCATION ~100 m west of where JT crosses Garbage Dump Rd.

MALE ID BAND NO. 2101-06170 COLORS Soye/ored (R) red/lt grn (L) AGE A, Y

FEMALE ID BAND NO. 2101-06210 COLORS red/white (R) orgo/ored (L) AGE A, Y

DATE OF FIRST EGG 6/11 ?? # OF EGGS - UNDEVELOPED EGGS? #? -

HATCHING DATE 6/27 ?? # OF HATCHLINGS --- COWBIRD EGGS? #? -

MEAN MASS AT HATCHING? --- FEMALE MASS AT HATCHING? --- MALE MASS AT HATCHING ---

FATE OF NEST fledged? DATE OF FLEDGING 7/6-7/7 # OF FLEDGINGS 1

AGE OF FLEDGING --- # SURVIVING TO INDEPENDENCE UNKNOWN MEAN MASS DAY 3 (N) ---

MEAN MASS DAY 6 (N) 10.55 (2) MEAN MASS FLEDGING (N) ---

INDEPENDENT YOUNG ID NO. 940 93135, (UNBANDIED NESTLING WAS BLEED, BUT DIED AFTERWARDS)

FEMALE MASS AT FLEDGING --- TIME --- DATE FEMALE LAST SEEN ---

MALE MASS AT FLEDGING --- TIME --- DATE MALE LAST SEEN ---

FEMALE BLED (Y/N); DATE 7/03/92 (#1231)

MALE BLED (Y/N); DATE (♂ not bled) IMPLANT DATE --- MASS AT IMPLANT ---

IMPLANT OK (IN, OUT?) --- IMPLANT REMOVED (Y/N) DATE ---

FAT CLASS? ---

Nestling blood sample #s: 1232, 1233

COMMENTS:

- 7/03 one nestling killed accidentally during bleeding
- 7/7 nest empty but believed to have fledged
fledging was not seen
- 7/7 RCT notes "Both adults ABOVE nest chipping." Droppings indicate fledging occurred.

JUNCO NEST LOG SHEET

NEST ID GD 25 II TREATMENT GROUP —

FEMALE:

DATE FOUND 2 July 1992

BAND # 2101 06210 STATUS WHEN FOUND 2 nestlings Day 5

COLORS Red/Wh (R) Orng. So Red (L)

MALE:

BAND # 2101 06170

COLORS S o Yel o Red (R) Red/Ltgrn (L)

LOCATION: S branch GDR ~ 100 m W of where JT crosses In grass 2 1/2' from road,
on left (S)

EGGS LAID ? # HATCHED, DATE ? ;

DATE INCUBATION ONSET _____ # FLEDGED/FAIL, DATE _____

MALE BLED (Y/N), DATE _____ IMPLANT REMOVED (Y/N), DATE —

FEMALE STAYED/LEFT _____

| DATE | TIME | STATUS |
|---------|-----------|--|
| 7/2/92 | 0925 | Both parents flew up from nest area, chipping (<u>♂ chips more excitedly</u>). 2-3 yg in nest - should have looked closer |
| | 1 | Weighed + measured 2 yg, both had blood on wings (wounds) ♂ nearby, ♀ flushed off/from area. Great difference in size of yg. |
| 7/03/92 | | RT ♀ AFTER FEEDING. BLEED HERE FOR DNA. BANDS & BLEED B.I.H. METERS: REMOVED ONE. LARGE MOVIP. <u>By</u> |
| 7/5/92 | 1130 | 1 yg. in nest. 1-2 parents chipping. RT, LC |
| 7/7/92 | 1945 | both adults (9 bands seen) chipping above nest, which was empty but I believe fledged - droppings immediately by nest and in sort of a "path" down the gully. - will check tomorrow (which will be day 0) RT |
| 7/12/92 | 1325-1350 | (F) census - brief + mild chipping at one across road from nest marker. saw 1 adult (no colors) from a distance but no young seen. MW. |
| 7/13 | 1710-1730 | (F) census (Day 5) nothing. MW. |

FITNESS CORRELATES SUMMARY SHEET

NEST ID GD 26 TREATMENT GROUP (C) DATE FOUND 6/8/92

LOCATION before fork on Garbage Dump Road

MALE ID BAND NO. 2101-06493 COLORS Solt grn/white (R) lt bl (L) AGE A,Y

FEMALE ID BAND NO. 2101-06718 COLORS lt bl (R) Sored/dk bl/lt bl (L) AGE A,Y

DATE OF FIRST EGG 5/11 ?? # OF EGGS at least 4 UNDEVELOPED EGGS? #? —

HATCHING DATE 5/27 ?? # OF HATCHLINGS at least 4 COWBIRD EGGS? #? —

MEAN MASS AT HATCHING? — FEMALE MASS AT HATCHING? — MALE MASS AT HATCHING —

FATE OF NEST fledged naturally DATE OF FLEDGING 6/6-6/7 # OF FLEDGLINGS 4

AGE OF FLEDGING — # SURVIVING TO INDEPENDENCE — MEAN MASS DAY 3 (N) —

MEAN MASS DAY 6 (N) — MEAN MASS FLEDGING (N) 17.15(2) caught after fledging (est Day 1 or 2)

INDEPENDENT YOUNG ID NO. 940 93499, 940 93500

FEMALE MASS AT FLEDGING — TIME — DATE FEMALE LAST SEEN —

MALE MASS AT FLEDGING — TIME — DATE MALE LAST SEEN 7/03

FEMALE BLED (Y/N); DATE 7/18/92 (#1314)

MALE BLED (Y/N); DATE 7/03/92 (#1223) IMPLANT DATE — MASS AT IMPLANT —

IMPLANT OK (IN, OUT?) — IMPLANT REMOVED (Y/N) DATE —

FAT CLASS? —

Nestling blood sample #s: 1125, 1126

COMMENTS:
found as a family - 4 fledglings
2 fledglings caught & banded & bled

JUNCO NEST LOG SHEET

NEST ID GC 30 TREATMENT GROUP CC
 FEMALE: DATE FOUND 7/29/92
 BAND # UNBANDCD STATUS WHEN FOUND 4 nestlings, estimated Day 11 or 12
 COLORS -
 MALE:
 BAND # 2101 C6168
 COLORS S. eye + red (R) 1t bl (L)
 LOCATION: GCR tag 21-22 in left bank going towards GC.
 # EGGS LAID - #HATCHED, DATE _____
 DATE INCUBATION ONSET _____ #FLEDGED/FAIL, DATE 4, 7/29/92
 MALE BLED (Y/N), DATE - IMPLANT REMOVED (Y/N), DATE N/A
 FEMALE STAYED/LEFT -

| DATE | TIME | STATUS |
|------|------|--|
| 7/29 | 1045 | 4 nestlings grabbed - banded + processed - ♀ UB + ♂ colors ID'd w/ certainty - released yg ~ 1130. MW. Nestlings <u>not bled</u> (mhc later) |

FITNESS CORRELATES SUMMARY SHEET

NEST ID GC 30 TREATMENT GROUP (C) DATE FOUND _____

LOCATION Golf Course Road Tag 21-22 in east

MALE ID BAND NO. 2101-06168 COLORS Soye

FEMALE ID BAND NO. UNBANDDED COLORS _____

DATE OF FIRST EGG 7/1 ?? # OF EGGS _____ (UNDEVELOPED EGGS) _____

HATCHING DATE 7/17 ?? # OF HATCHLINGS _____ COMBIRD EGGS? #? _____

MEAN MASS AT HATCHING? _____ FEMALE MASS AT HATCHING? _____ MALE MASS AT HATCHING? _____

FATE OF NEST Fledged by us DATE OF FLEDGING _____ # OF FLEDGLINGS _____

AGE OF FLEDGING Day 11 or 12 # SURVIVING TO INDEPENDENCE _____ MEAN MASS DAY 3 (N) _____

MEAN MASS DAY 6 (N) _____ MEAN MASS FLEDGING (N) 18.17 (4)

INDEPENDENT YOUNG ID NO. 940 93874, 940 93875, 940 93876, 940 93877

FEMALE MASS AT FLEDGING _____ TIME _____ DATE FEMALE LAST SEEN _____

MALE MASS AT FLEDGING _____ TIME _____ DATE MALE LAST SEEN _____

FEMALE BLED (Y/N) DATE (♀ not bled)

MALE BLED (Y/N) DATE (♂ not bled) IMPLANT DATE _____ MASS AT IMPLANT _____

IMPLANT OK (IN, OUT?) _____ IMPLANT REMOVED (Y/N) DATE _____

FAT CLASS? _____

COMMENTS:

nest found 4 nestlings Day 11 or 12 banded ~~4/12~~ & then released. No one bled.