

19 March 0515; breakfast; woke Dan Foley, + we left house for office to copy data sheets for first attempt to set up 6 arrays at the Forest Lake Division of Tempe-Inland Forest Products Co.'s project 8030-1. Awoke from College Station by 0630; gassed in Huntsville; bought groceries (42.00) in Livingston; and arrived Forest Lakes 1000 hrs. Unloaded groceries and drove 1.6 mi S of bunkhouse (as far as we could go) and then walked road to first Plot (Control) where we walked back + forth and finally placed a marker for our 1,000 sq. meter plot. We walked back + forth to truck (1 mi Roundtrip) + brought in gear. Stopped at 1330 hrs, + drove back to Bunkhouse for lunch, left 1430 hrs to site, but got stuck in bad hole. 1515 hrs, got out + gave truck hell for getting stuck. We continued moving gear from truck to site until 1700 hrs. Made run thru mud hole + made it out to Lake bridge, where Dan + I set 6 turtle traps. Back at B-house by 1800, set two traps below B-house, fixed Stroganoff/Nemb. helper supper w/ cream corn. Ate at 1830 hrs; + now really tired - we walked 17 km (10.3 mi) today.!! Also moved some 400 lbs of gear to Plot A, by foot + back.!! Found 1 Tyrannomys scripta shell at jct. of road + Plot A. We set 6 $\frac{1}{4}$ " wire funnel traps in swamp near Plot A. As darkness approaches, we have heard Rana clamitans calling. \pm 1845 hrs. It is 1940 by 2000 hrs; woke up at 2230 hrs with bad headache; took aspirin + a long walk to check turtle traps; + back by 2330 hrs; Tried to sleep again!

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Temple-Inland project

20 March 0630; up & fixed breakfast of Cereal; woke Dan about 0715; at corner of plot by 0800; carried remainder of plastic buckets, funnel traps, stakes, lids, and nails to Plot A. Took 3 trips to finish it all; began working on arrays by 0900; had two in by 1130; ate lunch, and back on arrays by 1230; & finished 5 by 1645 hrs. We had to cut roots with shovel (no axe) & did our trench with shovels; bucket pits with shovel and posthole digger, used about 7-8 stakes per fence; nailed fence to wooden stakes, filled trench following alignment of fence; arranged bucket lids; & propped with sticks where necessary. Floor tile lids do not work well. I believe we should switch to galvanized Valley 12"x12" lids for the buckets. While doing the 3rd array, a yg copperhead hit the fence & was crawling along it when I found it. We marked it #1; ♀ SVL 259mm; tail 41; wt. 10.3gm; also found Bufo velatus ♂ at array #5; marked him #1; SVL 50mm; wt. 10.3gm also. Found a small Hyla versicolor at fence on Array #4, but released it without marks. Checked aquatic funnel traps on way out; Dan had tadpoles, & one Ambystoma sp. larva; I had juv. Rana clamitans, tadpoles, & crayfish. Turtle traps (8) in lake yielded one bass. Supper by 0830 hrs; hamburger helper & corn; I showered & drove to Spurger to call Mary. Dan tried for Chris, but she wasn't home. Marked above found copperhead at bunkhouse, & will return tomorrow to site. We should finish our last (#6) array in the morning & return to College Station in pm.

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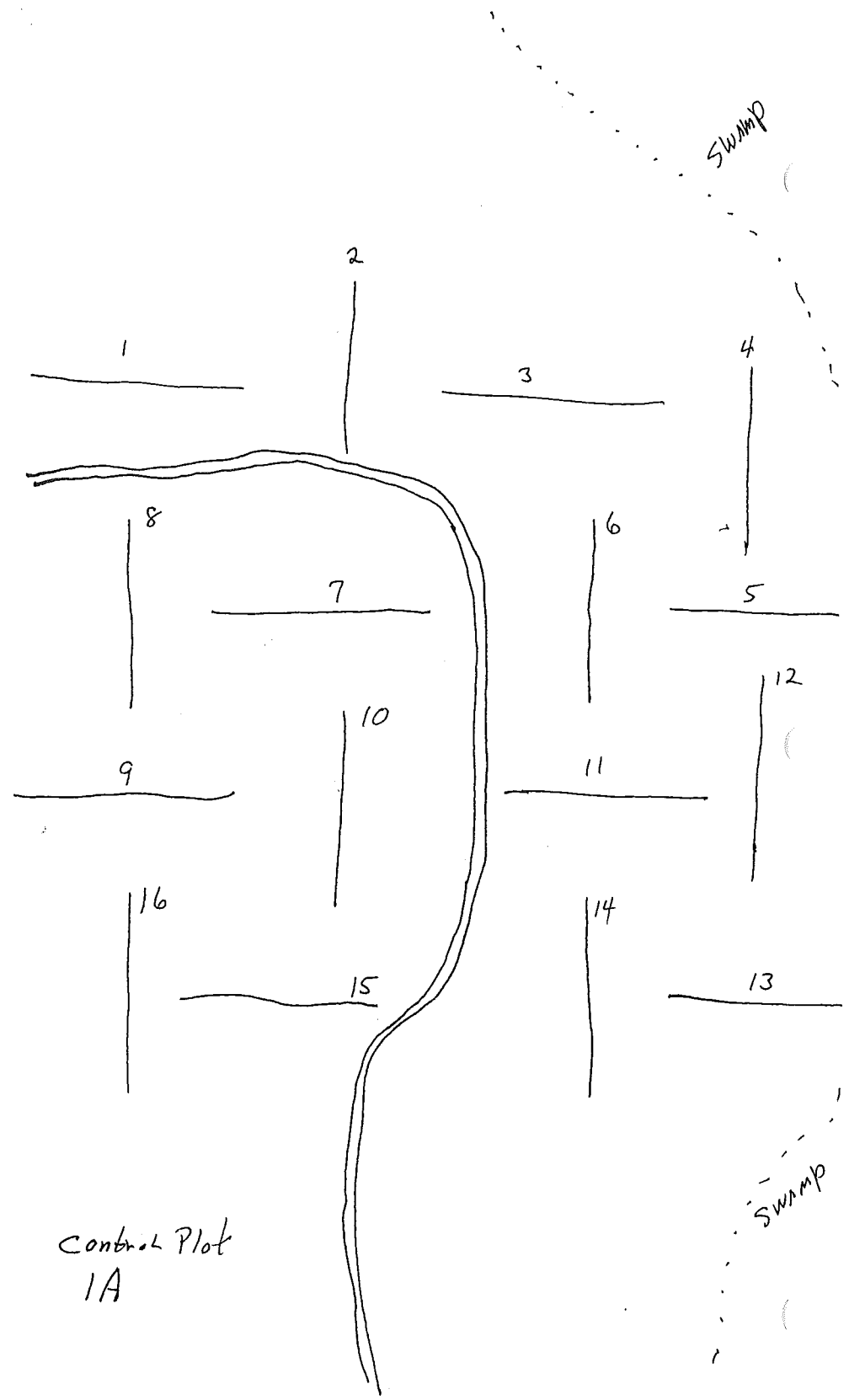
Temple-Inland project

23 April Bryan to Temple Inland site

Leave 1400 hrs, people (2) installing windows in our house. Had to leave Mary in charge. Met Dan in Livingston Appletree for groc.; I had stopped by Mom's house & met renters & promised them a new refrigerator. Arrived site 1720 hrs. Dan 10min behind (lost again)! We tried to drive to Plot 1, Dan got stuck & we had to use winch to pull us out. Turned around and drove close to plot 3. Walked into woods to find plot & found new-born fawn at edge of forest. Found many hatching toads & frogs in drying up pools of water. Found plot A of 3, & used "farm cart" twice - three times to haul in 29 rolls of steel fencing. Moved it all in, in about 30 min. Drove back to Bunk house, set out 4 turtle traps with sardine bait, & Dan & I measured two T.p.'s caught earlier at site 3. An adult ♀ with 15 embryos, and a juv. ♀ with 3 Rana sphenoccephala froglets in stomach. We must install at least 7 fences tomorrow to finish up plot A of plot 1. I fixed supper & we walked to bridge to call gators. None appeared. I had shower at 9:30pm - wow, did it feel good! Very humid; 95°H, & 75°F.

24 April Temple-Inland site

Up 6:30, cereal breakfast, away by 0745; Dan tried to drive to site 1A, & got stuck again. I took farm cart & walked gear to site while he & Mark Brogley got unstuck. I had made lunch, & I carried it also. I found plot 1A, & waited for Dan, Mark & Truck. Made it in, in 15 min. We started placing in #2; then 11, 6, 3, 12, 5, 4 and finished by 1600 hrs, with a brief stop for



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Temple-Inland project

24 Apr. (cont.) Temple-Inland site:

Lunch. We found a Lampropeltis triangulum amaura between trap fence 11+12. juv. ♂, wt. 28.2 gm, SVL 484 mm 74 tail. Also a Pseudacris triseriata along fence 10, wt. 2 gm, SVL 27 mm, ♀. Found 3 rotten opossums in bucket at end of fence 13. & a dead marked B. velatus #1, at fence # 7, in funnel trap. We had a constant air temperature of 79°F, & humidity of 95° all day. We all were very wet, dehydrated, & tired by the time we finished. We turned loose the T. proximus from yesterday & saw Matt's vehicle near site 3. Later he showed up at Bunkhouse, but did not stay; he was heading to the Forester's cabin off FM 1013. We will probably see him in morning, we are out of stakes! We cannot put more fencing in until we have stakes. We will likely leave by noon tomorrow! The T. proximus from yesterday measured #1 = SVL 331, Tail 132, wt. 11.25g, F, #2 = 585 2♂+ , 65.5g; F, 15 embryos. We ran our 4 turtle traps in Joas Lake, & caught 1♂ + 1♀ Sternotherus carinatus. It is now 2100 hrs, & I am very tired!

1 MAY College Station - Ivie Reservoir

Left house at 1215; route this time included GAUSE, Cameron, Belton, Killeen, Lampasas, Brady. Found an ADR Trachemys scripta ♀ between GAUSE + Hwy 77, ^{Milam Co.} on FM 2095. On PM 1121, ± 0.4 mi E. its jct with Hwy 283; a "still-moving" but DOR ♂ Masticophis flagellum (McCulloch Co). Arrived ranch 1715 hrs. I failed to bring my keys, so we walked in from gate; got extra set of keys, + walked back to let ourselves in. Brian showed up at 1830 hrs. We cooked Mary's special King Ranch Chicken. Talked a while, + then to bed about 2300 hrs.

2 MAY Ranch to Paint Rock - Blairs - Bellinger - Ranch - Freeze Dam - Ranch.

Up at 0700; to Paint Rock to release snakes by 1000; many fishermen (Sat.)! Drove to Blairs, where we worked B-0 by rock turning + bank cruising. Found a total of 6 Nh 2's, + 2 adults; all recaps except 1. Drove to B-2; where Mary turned rocks + Brian + I checked 50 Traps; 17 above Falls, 33 below. We found a total of 8 snakes; 5 Nh, 1 Ne, + 2 Nrs, all recaps; checked two ad Nh ♀ for sperm, but found none. Drove to Bellinger to get food; then to Ranch; returning at 1600 hrs. Fixed mirror on truck; made "Concho stew" for supper. In meantime, 1700 hrs, we drove to Freeze Dam + checked 16 traps there. I had set 7 yesterday, + my seven caught 3 Nh, including a * 504 sul ♀ whose cloacal slide indicated she had just bred!! - many sperm on slide! Checked Brian's traps + he had 1 Ne + 1 Nh. We set 7 more traps above bridge in fast flowing area. Water very cold; 15°C; while river above dam is 26°C. After supper made plans for remainder of May activities. In sack by 2200 hrs.

5/1/92

- Trachemys scripta ♀; AOR 5.4 mi WNW jct Hwy 190 + FM 2095, on FM 2095 5/1/92 Milam Co.
- Masticophis flagellum ♂, DOR; 0.7 mi E jct. Hwy 283 + FM 1121; on FM 1121, McCulloch Co; 5/1/92

5/2/92

- Pseudacris clarki 6.0 mi SE Ballinger; Runnels Co.

5/2/92

- I. ornata AOR Hwy 83, 1.9 mi S. jct 1929 + Hwy 83, on Hwy 83; Concho Co. (Alive.)

5/3/92

- DOR: R. lecontei ♂ = 1.7 mi E. Concho, on FM 1929
SVL 680mm, tail 108mm
- DOR: P. melanoleucus ♂ = 2.0 mi E Concho, on FM 1929
SVL 700mm, tail 97mm
- DOR: P. ciris ♂ 0.3 mi W. jct Co. Rd 115, 117, on 115

5/2/92

Graptemys versa ♂ below Freese Dam (Alive)

Given to Jimmy Johnson, Vet., TAMU

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3 May Ranch to Blairs - Ranch - Freese - Ranch

Remained at Ranch until 1100 hrs, cool morning, no sunshine; worked on data. Arrived Blairs at 1158 hrs, + ate lunch. We found two fresh DOR snakes along way on 1929. A Rhinocelium lecontei ♂, 1.7 mi E. of Concho, and a Pituophis melanoleucus ♂, 2.0 mi E. of Concho, on FM 1929. I found a Pseudacris clarkei under stone at B-0 yesterday, + preserved it today. We drove directly to B-2, + saw Jerry Blair along way, he gave us permission to insert look in separate link of chain. We searched rocks on way to stake 0, + found two Nh '2's + 1 Tp near stake 3. Ran traps from top to bottom, + found the Nr ♂ we released yesterday at stake 8, now at stake 30 below Falls. This one we re-marked # 251. We found a total of 15 snakes, 11 in traps (50); 10 Nh, 3 Ne, 1 Nr, 1 Tp, 13 were RC. Finished about 1515, + drove back to ranch. Found DOR painted Bunting ♂ (Passerina ciris) 0.3 mi W. of Co. Rd 115 + 117; (12 mi Bridge); on 115. Worked around Ranch on data + preserving DOR's. At 1700 hrs checked 26 traps below Freese Dam; 6 snakes; 4 Nh; 1 Ne + 1 Nr. 3 Rc., 1 Female Nh Pit D225506 was gravid with very small embryos ± 7; + still contained a few cloacal sperm; she was 526 SVL - 162 tail, + 99.5g., one Ne ♀ from Blairs SVL of 805; Pit #335, also contained many cloacal sperm. Brian preserved the snakes he had found earlier - M. flagellum + E. obsoleta. I woke up at 1240am; with headache; now 0130 hrs; + notes completed. I hope the good lord will help me get some rest.!! Caught mice ♂ Cryptomys verra at Freese Dam.

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4 May: Ranch-Blairs-BALLINGER-OFFICE-DAM-RANCH-DAM-RANCH
Up most of night with headache, [13040-0440] made
breakfast; computer; Left at 1045 for Blairs, arrived
1130, ran traps (50); only two snakes, caught one by
hand (Ne) at Falls. To town from Blairs, bought groceries,
drove directly to office, met Okla. He had asked Ivie
for water from top - They decided to cut flow from 350
to 40 cfs, & then cranked 20 from top & 20 from
bottom for 40 cfs. They did this while we were
at Blairs & our traps (26) were all high & dry; the
water level dropped 14-16". We found 1 Ne & 1 Nh in
traps still alive, & I caught one by hand swimming in
river. Water temp. up to 21.4°C. We drove back to
ranch & picked up 10 more traps; & returned to Dam &
set them out at 1700 hrs. Re-ran re-set traps & found
four Nh in traps. Things really move when you warm
up the water. I caught Trioxys muticus & at riffle.
On way out, ran over tail of Discophis punctatus that
was crossing road; we picked it up to see if it would
survive. Supper, then I preserved Trachemys scripta,
Terrapene ornata, & Trioxys muticus; formalin placed in
5 gal buckets to bring home. Dale Reber came over
this morning & did a Diazinon job on our bees. Then
thunderstorm came, & while it was raining, Dale
shoveled the honey from the hive, & dropped it all
to ground, & then re-sprayed site (under our bedroom)
with Diazinon! We hope this gets rid of the
bees!! - it's been two 1/2 years. Will boat with Dennis
Palafix tomorrow, & check semiole pipeline crossing
of Concho River.

5 May 1992

- P. texana ♀ San Saba Co; 1.0 mi W. jct FM 45 & 765, on 765
- T. ornata ♀ " " " at " " "
- C. constructus Concho Co, 5.4 mi NNE Millersview, on ranch Rd
- D. punctatus Concho Co, 5.4 mi NNE Millersview, on ranch Rd.

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5 MAY

RANCH-DAM OFFICE-RANCH-CONCHO-BLAIR-RANCH-FREESE-RANCH-C.S

0700; note writing; to office to find extra life jacket, ours missing; to boat house + workboat for jacket; To ranch to load up boat motor, gasoline, paddles, + life jackets. Breakfast + hooked up boat + drove to Concho where we met Terry... (Semide PL employee, + Dennis Palafos; Jones + Neuse, Eng. Co. employees)

They drove to S. side of Concho River to pipeline crossing, while we landed boat + came up river. We surveyed 100' either side of xing + found 1 Ad ♀ N. hatterii swimming at xing, caught her + showed her to Dennis (who photographed it) + Terry. We put Dennis in boat + he took photos of xing. We lost snake in boat under seat. Drove to Ridge Rock Grov. + left boat, + then drove to Blairs. Saw heifer laying on road near river in birthing attempt. To falls where we ran 50 traps; only 1 above + 10 below falls. 11 of 50; all RC; Left at 1400 hrs, cow still there; calf hoof out for two hrs; I checked membrane, its dry - broke it + pulled on foot; head pops out, calf dead! Cow can't pass it; we pull (all three of us) + calf still stuck, use vehicle; chain, + wire after three attempts with rotten rope, a shirt, + finally calf is removed; Cow still down, but we have to leave at 1510 hrs.

To Ranch; + then to Freese Dam where we caught 3 Nr, 4 Ne, + 3 Nh in 36 traps. all Rc except one small Nr ♀. Packed up + left Ranch for home at 1750 hrs. Found DOR ♀ Pseudemys texana 1 mi W. jct. FM 45, + (DOR ♀ Terrapene ornata at jct. of 45 + 765. Also found (AOR) Coluber constrictor on rd from dam to Ranch (left with Brian). At Goldwaith at 2000 hrs, for supper; drove on to Bryan; arriving home at 2300 hrs. Unloaded car + in sack very quickly. Very tired after such a long day!!

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10 May

Bryan to Cancho Water Snake site.

Left 1245 - arriving ranch 1730; found AOR Heterodon nasicus ♀ 1. - mi N. FM 765, 3.2 mi W. Doole, on McCullough Ranch Rd.; Unloaded truck, Brian not here; Mary & I put on aqua socks & do to Freese Dam; Brian not there either, since we did not have PIT Readers - nor numbers for scale clips; we released all snakes with scale clips that we could read & started back to house with others; had 3Nh, 4Ne + 1Nr; all rc but 1; (Ne).

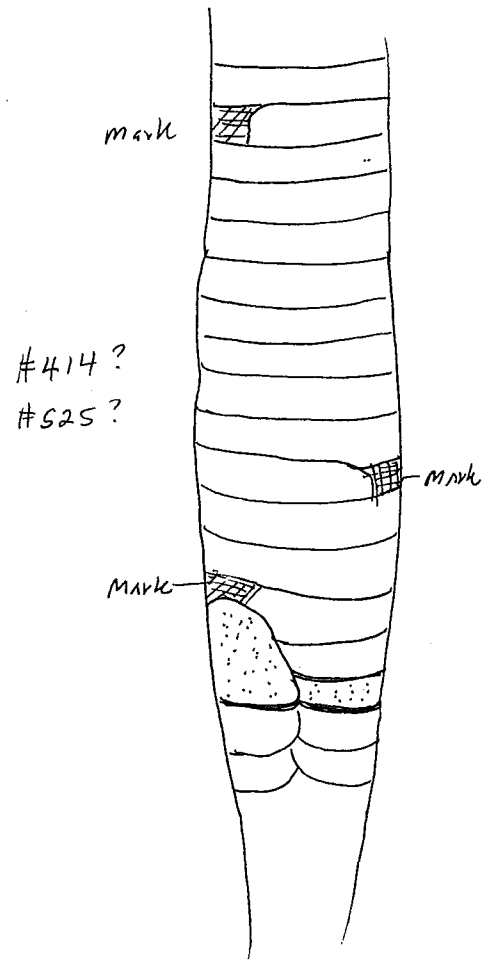
Brian met us on road, we finished snakes & Brian took them back to site. Air was 24.8° + water 18.7°, cool!

Supper & then small talk & bed!

11 May

Ranch - Office - Ranch - Blairs - Ballinger - Ranch - Freese - Ranch.

Up at 0045 - 0300 w/headache; up again at 0700; ran data for Orla's manuscript to office, back to house by 0830; on road to Blairs by 1000; ran 50 traps, 2 snakes, & caught 3 by hand at Falls, 3Nh, 2Ne; Caught gvooc in town; & scissors for Mary, back to ranch (stop by Ridge Rock gvooc for "Gold nugget" icecream) by 1400 hrs. Pulled "hava herts" from storage shed; nipped by wasp; ran 36 traps/19 snakes; below Freese Dam; 11Nh, 7Ne, 1Nr; 3New; 16rc; Nh D225506 now showing 11-12 embryos; back at ranch by 1845; supper by Mary. Jerry Smith dropped his 5.8 mi ENE Doole (Cox) monitoring run data by ranch. Very important movement data. One Nh marked in 1988, & not seen until today, moved from 2.5 mi E FM 503 (Smith's) to the Cox site (3.7 river miles), & another moved from 9.0 mi S. Goldbuck to Cox's (2.7 mi) in ~~1990~~ 1992. (2 yrs). The latter is an up stream movement. Jerry trapped 26 snakes; 25Nh, 1Ne, 9rc from previous times; and 7F7EGESA38 ad ♂; 7F7ESC3A2E ad ♂; and 7F7ESG3G51 ad ♂. In sack by 2200 hrs - tired!



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12 May

Ranch - Blairs - Ranch - Freese - Ranch

0700; notes; worked on data; Brian leaving today. Made run to Blairs, ran 62 traps from stake 1 to Carlos Martins slab rock curve, caught 11 snakes in traps, 3 by hand.

I caught a T.p. at trap 20, + two Ne at Trap site 30; one an Ad ♀ with Lepomis macrochirus in mouth; Lepomis was 155^{mm} total length, 70^{mm} body depth, + wt of 77g; our total catch was 6 Nh, 6 Ne 1 Nr, 1 Tp, 11 rc. Air was 34.5°C + water 26°C. Finished taking data at 1310 hrs, back to

* Ranch by 1420 hrs [Brian packed, gased; and away by 1530 hrs] Mary had nap at 1600 hrs, + I cleaned out guard house + moved much equipment to bunk house for eventual move to College station. Woke Mary + we reached Freese Dam by 1715 hrs + finished by 1850 hrs. Caught 20 snakes in 36 traps. 11 Nh, 5 Ne, + 4 Nr, 13 rc, 7 new snakes, + 7 new rc snakes for year. One Ne has strange scale clip (see opposite page) I am unsure of number. I preserved Masticophis flagellum ♀ SVL 720mm, tail 239mm that Mary found on runway yesterday DOR. I also recorded the Greptemys versa ♀ Brian found in river today at Blairs; Mary found a Thamnophis marcianus in yard yesterday + today, + I recorded fecal samples from both for Chus McAllister; water temperature at Freese Dam was 21.5°C + air 34°C at 1850 hrs. I plan to drive into San Angelo tomorrow morning to shop for small TV, and groceries; return via Blairs, total round trip is about like driving to Moonen + return. The Hwy crew put in fin horns at our gate, + entry is now much easier. We now travel new roadway + save about 10 miles travel per day.

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13 May

Ranch - San Angelo - Ballinger - Blair's - Ranch - Freese - Ranch

0545; note writing; fixed lunch; left 0815, arrived mall at 0900 - closed until 1000 hrs - walked around & finally arrived Radio Shack - Sears - Ser. Meridian - & checked TVs, bought small B&W Soni & antenna for \$174⁰⁰. Drove to Target & bought 2 folding chairs & pants for Mary. Arrived Ballinger at 1200 hrs for groceries; & finally Blair's at 1245. Caught 1 Ne by hand, & of C2 Traps/7 snakes; 4 Nh; 2 Ne, 1 Nr., all rc & recent. Looked like rain, we drove to ranch; then it rained & wind blew. Waited until 1715 & ran to Freese Dam; did a fast run thru 36 traps/15 snakes; 7 Nh; 8 Ne; 12 rc; 2 new Ne; now have two Ne, ♂ & ♀ with # 429; it had not been scratched from list! One Nh ♀ 7F7D18413E with 12 emb.; 530 SUL, 157 tail, 133g; & another rd ♀ rc 570 SUL, 127 tail, 105g, with no sperm; 10 of 15 rc recently. Wind blew hard & rain; had to change left front tire of van - flat - must run to Ballinger this am to fix it. entered all data, Martin showed up about 1930 hrs; entered his data; & now on way back to Spence. He is returning to Dallas on 14th to visit Mom; for four days & then returning to site; then to C.S. on ± 29th, 30th May to make slides for his presentation in Urbana. I informed him of our leaving time & place. Telephone is out, has been for two days; having Dale call Co. to get line fixed; hope its done today. Martin left at 1830 hrs, after Mary fed him some supper. He thinks Curtis Eckerman will come to work on 14th; but I haven't signed any time sheets for him. He will have to call &/or tell me where the sheets are.

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14 May Ranch-Ballinger-Blair's-OFFICE-RANCH-FROESE-RANCH
0600; made usual coffee; wrote notes; Mary made
Lunch; about 0815; drove to Ballinger to have tires
repaired; we then drove to Blair, & walked traps
from Falls to Carlos Martin shelf rock site; total of
four snakes in 45 traps from Falls down - Picked up 12
bottom traps & brought back to Falls, plan to put them out
at B-φ. I walked the above Falls traps and found
two snakes; 1 Nh, & 1 Large *Nerodia (Regina) grahami* ♀
she measured 810^{mm} SVL, 169^{mm} tail, & weighed 286 g. Ate
lunch, & gathered data for B-2; all rc; all recent;
2Nh; 3 Ne, Air 22°C, H₂O 24.5°C.

1310; drove to B-φ and placed 6 traps at Lower
riffle, & 6 traps at upper riffle. Mary turned rocks
& I later helped. She found 3 Nh 2's under one rock
at lower riffle. We caught 8 snakes, 3 rc., 6Nh; 1 Ne,
1 Nr, all by hand. All Nh's are 2's, and the Ne, & Nr also.
Air 32°C; H₂O 25°C; 1430, Left for Office, no one
there; I called telephone Co., & informed them of phone,
they had been informed by Dale, came out, but trailer locked.
I told them we would leave it unlocked today. Returned to
house; looked^{at} and recorded all data in DBASE; drove to Froese
at 1650 hrs., ran traps bridge to Goltum riffle & then at
bridge & above; 5Nh; 5 Ne, 1Nr; 7rc; Air 28.3°C, H₂O 21.5°C;
top trap again had Nh, 3 this time, 2♂ 1♀; her slide was negative
for sperm. All of the Nh were now far year & 2 unmarked.
The adult ♀ was unmarked, & the two males from previous
years: e.g., 7F7F445827 = 11/21/90 at 303-106-17.5g; & 7F7F387537
= 5/12/91 at 489-194-73.5g. they are now 505-184-75g, &
558-212-101g, respectively. In sick by 2200 hrs.

Herps found incidental to Concho water snake survey

- 5/12 M. flavellum ♀ SVL 720mm tail 239mm on runway
- 5/12 G. versa ♀ at B-2; 5/18 G. versa ♀ at B-2
- 5/14 I. muticus ♂ at B-φ
- 5/14 I. marciatus ♀, spillway rd.
- 5/15 C. storer ♂ ^{575 SVL, 434 tail} 6.2 mi W, 1.8 mi N. jct 2134 + 1929, off 1929
- 5/14 P. clarkii Bφ
- 5/17 P. texana ♀ Bφ (algae)
- " P. texana ♀ below Freeze Dam, also 5/18 (smaller of 3)
- " E. guttata ♂ ranch house Rd.
- 5/14 R. grahamii ♀ B-2
- 5/18 S. catenatus 2.5 mi S, 4.8 mi SE Ballinger, Co Rd. 117 AOR
^{SVL 100, T. 87, 2 eip}
- I. nigricops ♀ dcla's house ¹²³⁵ (AOT)
- 5/20 C. constrictor juv. ranch rd; 0.6 mi N runway AOR
- 5/20 R. lecontei Ad ♀, ranch rd; 0.8 mi E runway AOR
^{BDS III}
- 5/21 P. melanoleucus Ad ♂ 1.2 mi E. Concho, on FM 1929 DOR

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15 May Ranch-Blair's-OFFICE-RANCH-FREESE-RANCH

0630 - coffee + notes; Mary fixed Lunch; waited until 1000 for telephone crew, they did not show, so we left for Blair's + started checking traps at 1100 hrs; B-2 had 9 snakes (26y hand) = 50 traps / 9 snakes; total of 5 Nh, 3 Ne, 1 Nr, 7 rc. Air 24.0°C, H₂O 24.5°C; saw the pair of Crotaphytos collaris again - 3 years in a row in the same places; the ♀ caught a grasshopper as long as her body length; but had trouble killing it. It got away into a grass clump. I caught the hopper + handed it to the female + she took it from my hand! Amazing, she finally knocked the wings off + ate the hopper. Ate lunch, then went to B-♂ to check 12 traps; 1 Nh F 2. We then stopped by Ridge-rock Groc. for icecream, + on to office for xeroxing. Okla was in and we talked a bit. I xeroxed the past 6 days of data sheets. A storm blew in from SE + Mary + I took off for house. It didn't rain, but the wind blew very hard! 1700 hrs, to Freese Dam to run traps - Someone had stolen 3 of our traps at the bridge! Does this make me angry!! We caught 13 snakes in 33 traps; Air 24.0°C, H₂O = 20.0°C. Caught two Ad F Nh not seen this year; one was pitted; both gravid. Our total was 9 Nh, 2 Ne, 2 Nr, 10 rc. Eight of the individuals were caught within the past 28 days. Returned to house, Supper of turkey soft tacos, entered data + Mary + I walked to gate and back. I read awhile, Mary watched TV; + sometime during night it began raining. Very slow, but steady; At note writing, (early morning 10H), it is drizzling. It's going to be a messy day for travel. Must go to Ballinger for Groc. + try to find minnow traps.

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16 MAY

Ranch-Ballinger-Blair's-Ballinger-Ranch-Freeze-Ranch

0540, wrote notes, ate, worked on data; 0930, Left For Ballinger, arriving Walmart 1000; bought 7 minnow traps (cash) \$60³⁴, to supplement our stolen losses. Stopped by Okla's for a few minutes. Then to Blair's where it continued to rain. B-φ first; 2^{Nh} 12 traps, 1Nr by hand; Nh ♀ 7F7F446029 5605UL, 128g. had 13 embryos; B-2 traps (50) contained 8 snakes, 6Nh, 1Ne, 6rc; 1 new Nh ♀ 7F7D11225E 6φφSVL, 134gm, no sperm, but fat & healthy; no detectable embryos; still raining, at 1430 hrs; returned to Ballinger for groceries; & then to ranch by 1600 hrs; below dam by 1700 hrs; & set 7 new traps; 3 above bridge at outflow, & four below, 2+2 at each middle & lower riffle; now 25 traps at those two riffles. of 33 traps, 1Nh, rc. Air at B/4hrs 18.8°C, H₂O 23.4, at Freeze Air 24°C, H₂O 19°C.

At this date; the following data from our DBASE file is relevant: original capture all records recapture rec. %

	original capture	all records	recapture rec.	%
Nh	6148	10168	4020	39.5
Ne	1202	1892	690	36.5
Nr	1022	1377	355	25.8
Tp	686	730	44	6.0
Totals	9058	14168	5109	36.1

This data includes all monitoring sites & all sites incidental to Nh work. The rc is not revealing for specific worked sites. Jones, our neighbor, called at 2015 hrs & gave us Linda's flight schedule.

- Lu Hou 5/28/92 8:50am USAir 154
- Lu Phil " 2:11 pm USAir
- Lu JPK " 6:20 pm TWA 840 - Arr Rome 5/29 at 8:45am
- Lu Rome 5/29/92 11:55am Air Alitalia 1104
- Arr. Pisa: 12:40pm

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17 May

Ranch - Blair's - Ranch - Freese Dam - Ranch

0700, note writing, breakfast, emptied guard shack of all gear + put it in bunkhouse; also loaded our truck with havaharts, seines, gill nets, + other nets to return to college station. Finished by 1000 hrs. Loaded charger for trip. Left 1030 hrs; arrived Bφ and checked 12 traps, 1 snake, a new Nr A♂; drove to B2; and found 1 Nh in upper 17 traps, and 2Nh in lower 33 traps; all recent rec. When we arrived, we were locked out! Drove to C. Martin's house + borrowed bolt cutter, cut link from chain + moved our lock to new spot. Later Mr Mueller + sons ("Copper's" liquor store) came in. He had been there earlier (he or his son locked us out). Back to ranch by 1400 hrs. Both Mary + I had naps; + head. Drove to below dam + ran 40 traps, 1 @ snakes! It was cold there yesterday with rain, + warm today! 9Nh + 9Ne, 17rc, Air 27.4°C, H₂O 21°C. Tomorrow is Nancy Thornton's Birthday, + we will reverse runs to Freese 1st. Then to San Angelo to return TV antenna; then Blair's, then the Thornton's dinner. One Nh ♀ I caught near outlet had NO tail; 1±mm showing; + she was 540mm SVL. At Bφ, I caught an algae covered Pseudemys texana ♀ at the upper riffle; + at Freese, I caught another P. texana ♀ (no algae) near outlet works. On road near ranch I caught a large ♂ Elaphe guttata, but the muscular body reminds me of L. colligaster, I could be wrong. Back to ranch by 1800 hrs; I made Cloverdale spud supper. Fixed tank in yard for turtles. Called Linda in Arizona; she seems more cheerful now, since time in winding down. Showered, read, + turned in by 2300 hrs.

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18 May Ranch - Freese - Ranch - San Angelo - Blairs - Ballinger - Ranch
0800 showers; worked on notes, went to office + carried tires + netting to Okla's office; xeroxed; returned to ranch for Mary, made run to Freese Dam, 5 snakes in 40 traps 1Nh, 3Ne, 1Nr, all rc; Drove back to ranch for lunch, then to San Angelo to return antenna + cable; then to Blairs, arriving at 1600 hrs; 5 snakes of 12 traps at BØ; all Nh, 4rc; then to B2; 5 snakes in 50 traps, all rc, also 1 Ne 2 under rock. Air 25°C, H₂O 24.2. Drove to Ballinger; Ate dinner with Nancy + Okla; then to their house for desert (Nancy's birthday). Returned to Ranch 2230 hrs., + then walk runway, + in sack by 2400 hrs. Caught G. versa ♀ at B2; + Sistrurus catenatus 2.5 mi S, 4.5 mi SE Ballinger, on Co. Rd 117.

19 May Ranch - Blairs - Ranch - Freese Dam - Ranch
0815, Okla called to inform me that Ed was raising the water output to 50 CFS. I told him to go ahead; 17 CFS more should not influence the traps. (I hope). I checked batteries on Destron recorder; probably bad; I'm having Okla call Destron to ship us a battery pack today! Arrived Blairs 1145; only two Nh, rc at BØ, and only 2Nh, 1Nr in 50 traps at B2. A Nh ♀ 7P7E 5625F; was very fat, probably gravid; originally caught 5/30/90 gravid 494-96-84g, + 7/13/90 511-105-110g; + held captive for birthing. Drove to Kennedy Park for milk; then to Freese Dam at 1500 hrs, all traps still exposed (barely), water rose ± 3". We re-set all traps; had 9 snakes in 40 traps; 7Ne, 1Nr, 1Nh, water temp. 20.5, Air 26.8°C; Nr captured 5/30/91 at 273-71-15g, ♀ now 427-110-56g. Curtis came at 1930; ate with us, + we entered Martin's data between 5/14 + 5/19. Curtis left about 2230 hrs. Mike Keck called; he + Paul Kawanski are coming on 21st to learn transmitter implant techniques.

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May 20 Ranch - Ballinger - Blair's - Ranch - Freese - Ranch
0630 hrs, drove to office to see Okla + Xerox data sheets; Okla ordered two batteries for Destron reader, + should be in tomorrow. Back to Ranch, filled turtle tank with water, had forgotten it, + it overflowed, but I lost no turtles. 1030 hrs, we drove to Ballinger for groceries, + then to Blair's Bφ. of 12 traps, no snakes. Drove to B2, where I found ad. ♀ Nh sunning on grass over trap at S + O RB. She contained a large catfish. We caught a total of 4 snakes (1 Nh, 3 Ne) from 50 traps. all rc. We returned to ranch by 1445. I had caught a juv. Coluber constrictor on ranch road out this morning. Okla gave me a Tantilla nigriceps he found in his yard OWT 1235, SVL 100mm, Tail 37mm., and I preserved it.

Rested for short time, + Left for Freese Dam at 1630 hrs.; Paint crew working on bridge; probably the ones who stole 3 of our traps. Looking like rain, so traps ran in hurry; - 14 snakes; 4 Nh, 9 Ne, 1 Nr, 1 rc. Nh ♀ 7F7F3B7116 523svl, wt 80g; with 8 embryos. Air 23.5, H₂O 19.8°C. Bridge crew asked for water, we did not have any. We finished at 1800 hrs + returned to ranch, I fixed supper, entered data; and then returned to Bridge with 1½ gal of water for crew. On the way I found Rhinodytes lecontei sunning on road 0.8 mi E. of ranch. Took 2½ mi hike after supper, + then waited for Brian Greene to show up (2045 hrs). We talked some, then I went to bed one tired dude!

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21 May Ranch-Blairs-Ranch-College Station

0700; packed remaining stuff for trip home, including 5 turtles. Very cloudy & humid. Mary stays with trailer & Brian & I run Blairs, arriving there 1000 hrs. We have one Nh in B♂ traps. At B2, we find two adult Nh above Falls, 2 Nh below Falls and 1 Ne - all recaps. We move four of the pool traps to riffle at stake 80. Return to Hdq. by 1205. We found DOR Pituophis melanoleucus ♂ 1.3 mi E. of Concho on FM 1929. Ate lunch, finished packing and on road by 1245. 19 mi from ranch it began to rain, & it rained all the way home. It was very heavy showers near Gatesville, Temple, & Hearne. Reach home by 1830 hrs. Had bad headache today - must be the humidity. Will not unpack truck until necessary!

11 June Bryan-Ranch

Packed & left home at 1445 hrs; picked up ♂ Trachemys scripta 0.7 mi E. Maysfield, Milam Co.; arrived Ranch 1930 hrs. Mustang Creek up slightly; and looks like rain in distance. Brian unable to put out traps yesterday because river is on rise, in sack by 2200 hrs.

12 June Ranch-Blair-Moonga-Point Rock-office-Ranch

Heavy rain between 0100-0400 hrs; high winds; left at 0930 for Blairs - River out of normal channel; drove to Moonga; it is very high, walked edge & found one Nh ♂ adult swimming; he was marked as rd 4205UL in Oct 10, 1988, and this date (today) was his 2nd capture at 5535UL. Also found 1 Ne ♂ 2. Drove to Point Rock; Concho River in flood, 4000 cfs over dam; Drove to Freese Dam; 9600 cfs out of 6 gates. Caught 3 T. marmoratus, but could extract fecal sample from only one ♂. In sack by 2200 hrs.

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13 June Ranch - Blair's - Elm - Paint Rock

0900 Left for Blair's; saw Jerry Blair at gate & gave him our phone number & invited him to call us about 25-27 June, & we would go to Locke to eat. River still high with flood waters, drove to Elm Cr, its flowing about 4000 CFS; but slightly workable; Found 1 Nh, 1 Ne in low water crossing, & 1 Nh in tree, & 1 Ne under rock. Water covering bed rock to Left. Drove to Paint Rock & Brian found 1 Nh in Left corner of dam; water still high & river not workable. Back to ranch; Tana, Gypsy show up at 1400 hrs, Martin called last night about entering data; he was here when we arrived. Martin used all of our gasoline when he left. Martin & I reviewed all data sheets; he left for Spencer, Brian, Gypsy, Tana, Mary, Dylan & I set 12 traps below dam with 9600 CFS coming out. 'I believe they shut the water off last night.'

14 June Ranch - Freeze - Blair's - Ballinger - Paint Rock - Ranch

I was informed by Gypsy (thru Jerry) at Breakfast that the out flow was cut to 1500 CFS below Freeze. We ran down to trap site to find traps 3 FT high & 150 FT from water. Pulled traps until Monday. Grad. Students Glenn Mills & Linda; Marshall Univ, showed up at 0830. To trap turtles for Mike Sidel. We all drove to Blair's, water down $\pm 15''$, but still too high to trap. We searched banks & pools, but no hawks, 1 TP. Neonate! helped Glenn put out traps; Ballinger for food, Paint Rock to ranch, Brian found two Nh at dam corner, but could not pull them from rocks. Walked downstream to search trees. Brian & I in river, Glenn & Linda on bank, they try to get in - Linda fell head first into river, & Glenn fell thru tree - Good introduction to Concho River! Found two Ny recap ♂, #261, 413; both biters!

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14 June (cont.) Returned to Ranch 1535 hrs, all of us had naps. No rain yesterday or today, + none predicted for tomorrow. Supper at 1930 hrs, Crew drove Mustang rd last night to Millersview; 1 P. melanoleucus in Millersview, + 1 Trachemys scripta at Mustang Creek.

15 June Ranch-Blairs-Point Rock-Ranch-office-Ranch
Left 0900, with Glen + Linda following. They parked their truck at Lower Gate + rode with us. We caught nothing in turtle traps at BΦ; Gypsy caught Craetomys in pool near trail. At B2, Brian + I set 21 traps; (water still high;) 10 above, 10 below, + 1 at Falls, but saw no snakes, Glen + Linda had 3 turtles in Fyke Net (1 P. forams, 2 G. versa) + many fish; We split up with Linda + Glen going to Mustang Creek, + we to Point Rock. At Point Rock, we walked river + found no basking snakes. We caught 10 Nh + 1 Na in rock crevices at LWC. One adult ♀ NG; was 6115UL. all other Nh were juvenile 2's. Returned to Ranch at 1430 hrs. Called OKLA + he wanted me to come over, so Brian + I drove to office + returned at 1600 hrs OKLA said that Pat Conner about recovery plan; Pat said he had sent it to Regional office to be published by July 1, + 45 day comment period. Our next meeting should be after 15 August. He indicated that he had made some changes in RP; + Scott did also. We have not been in contact with Scott. However, we do not know how the RP has been changed from our original plan. We ate Crappie for supper cooked w. Virginia style by Linda. Mary + I walked to hill + back while rest of crew went hunted. They returned ≈ 1030 p.m., with 1 E. guttata ADR, + 1 E. guttata DAR. We plan to take boat to manen following our visit to Blairs, + help Martin in working NW shoreline of Dam.

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16 JUNE Ranch-Blairs-Elm Cr-Mooney-Ranch-Fresse-Ranch
0630 notes, prepared boat & trailer for Martin & Curtis.
Drove to Blairs 0845, to set remainder of traps. Left
boat by house until we leave, checked Bφ; hoop traps had
no turtles; drove to B2; set 27 traps, now 48 out; Linda &
Glen pulled fyke Net; to set in Elm Cr., 2 A. muticus,
1 T. scripta, & 1 G. versa in trap. Drove to Elm & let
Marshall Univ. crew set Fyke Net, I found Ad ♂ Nh under
stone shedding. (RC); Drove to Lake Mooney to take boat
to Martin, who will trap there thru Friday. Returned to
Ballinger for 50⁻ of groceries; returned to ranch; set up
54 traps for below dam; set 53 (1 broken) between 1600-
1800 hrs. Gypsy cooked fish (Texas style?) & we ate
at 1900 hrs. I caught 1 yg. or juv. A. muticus in pool
above bridge at Fresse Dam. Make runway walk with
Tana & Mary & in sack by 2200 hrs.

18 JUNE Ranch-Blairs-PAINT ROCK-Fresse-OFFICE
0845, Glen & Linda to Elm Creek; & we went to Blairs;
B-2 had 6 snakes in 48 traps; all Nh, 4 Rc; 4 gravid ♀;
3 countable, S, 9, 4. Water slowly dropping; another day
without rain, we then ate lunch at 1100 hrs. Drove to
Paint Rock where we walked left bank & saw 1 Tp & 1 Oa;
Brian caught 1 Nh ♀ with Bug silt in mouth; 31.5g; TL 123, BH 44.0,
she was gravid 61056; wt. 197; 13 embryos. Home by 1445,
To office for 20 min to let Linda & Glen see Jerry's snakes;
To Dam at 1430 hrs; 18 snakes in 53 traps, 16 Nh, 9rc, 2 Ne, 2rc,
5 gravid Nh ♀; 1rc, 1 uncountable, 9, 9, 9. Our best day in 6 days
Linda, Glen, Tana & Gypsy leaving in morning. Dylan will stay
until Sunday. J will arrive Sat (20th) at ± 1800 hrs; & take
Dylan back on Sunday. in sack by 2130 hrs.

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18 June

Ranch-Blair's-Moonen-Ranch-Freeze-Ranch

0730, Linda + Glen left for College Station, and to West Virginia. 0745, Tana + Gypsy left for Houston. Okie did not call at 0830, + I called, he wasn't there but Dale indicated the water level would remain constant. 0900, drove to Blair's where Brian + I checked 54 traps (4 at Falls) and caught 6 snakes, 5 Nh, 1 Ne, 5 re., drove to Moonen at noon, + had lunch while Martin + Curtis worked on snakes they had caught (4). Martin asked to use boat at space, I said ok. We then drove to ranch; + I told Brian he should go home. 0400, we ran Freeze, 53 traps, 15 snakes, 13 Nh, 1 Nr, 1 Ne, 9 re.; put out damaged funnel trap, now 54 traps at site. caught 4 gravid Nh ♀, 1 non with 16 embryos. I entered data after supper + after Brian left (1925). Dylan + Mary cooked fish for supper. Janice called at 2200 hrs, + I told her Brian was on way - she was delighted. In sack by 2230 hrs.

19 June

Blair's-Ranch-Freeze-Ranch

1000-1230 hrs; 53 Traps, 7 snakes at Blair's, Dylan Fished + Mary illustrated. Traps yielded 4 Nh, 2 Ne, 1 Nr, 5 re.; bought 55⁰⁰ groceries in Billings, + returned to ranch, Drove to Freeze at 1600-1830 hrs; 21 snakes in 54 traps, 17 Nh, 3 Ne, 1 Nr, 14 re.; 3 gravid ♀ Nh, 10, 12, 14 embryos, returned to ranch; Mary fixed supper + I entered data. Showered; + we took Dylan to onion draw to fish at 2000 hrs; Mary + I walked 2 miles, down canyon + back; + returned to Ranch 2145 hrs, I fell in River at Freeze today; knee + both hands are somewhat damaged. J is due in tomorrow at 1800 hrs!

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20 June Ranch-Blair-Ranch-Falls-Ranch-Freeze-Ranch
Arrived at Blair's 1030 hrs; Mary illustrated + Dylan fished while I ran the 54 traps. A total of 5 snakes; 3 Nh, 2 Ne, 4 Yc; One of the Ne's has a very difficult number to read, but I believe it to be #183. It looks like a 90-72. She is very gravid, + so full that you cannot count the embryos. Returned to Ranch + immediately drove to Lab for reworking of data sheets + return of 3 plastic cages. Returned to Ranch + picked up Mary and arrived Freeze at 1530 hrs; I ran traps, Dylan played, + Mary tried to run some traps. 54 traps, 14 snakes, 10 Yc, one new gravid Nh with 10 embryos; total of 4 new Nh. Returned to Ranch at 1740 hrs, J. had just arrived. We ate supper and dropped Dylan off at Onion Draw, showed J. the new road (1929), + then found Ed Morris fishing next to Dylan. Visited with Ed; + then at dark, drove back to house, + in sack by 2200 hrs

21 June Ranch-Blair-Ranch-Freeze-Ranch
Arrived Blair's 1000 hrs; J. + I ran + re-set the traps; only two Nh above Falls, 1 Ne at Falls, and zip below Falls. Finished by 1130 hrs; ate lunch at Falls, returned to Ranch; to Freeze at 1445 hrs, only seven snakes; 2 Ne, 5 Nh, 2 Yc 1 Nh gravid w/7E; J. + Dylan away by 1820 hrs; we followed them to New good thunderstorm across river, sprinkled at ranch. To beds following evening well. Look up again 48 out of 50 something

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22 June Ranch-Blain-Point Rock-Ranch-office-Ranch-Freese Ranch
Brian made it in last night about 2530 hrs. we all
drove to Blain, arriving there around 1015 hrs; ran
54 traps & caught 0 snakes. Left at 1120 hrs &
checked Point Rock; no snakes; returned to house
& then to office where I learned from Orla that
we would no longer have use of trailer after 30 June.
They will have soil chemist living here. We will have
lots of parking to do. To Freese Dam at 1630 hrs; 54 traps
16 snakes; 2 Ne, 14 Nh, 10 Rc; 1 Nh? 2 dead from an
attempt to squeeze thru wire mesh of trap. Supper &
to bed by 1000 hrs. We are to eat supper with Orla &
anyone else on Friday, 1900 hrs at Lonko.

23 June 1000 hrs. arrived Blain; caught 2 snakes in 54 traps;
Orla showed up at 1100 hrs, said that the flow
below Freese Dam was cut to 60 cfs; we arrived there
at 1200 & all of our traps were high & dry, no snakes
in 54 traps. By 1400 hrs we had re-set all traps.
Ate supper & drove to Point Rock Park at 2100 hrs,
& caught 11 snakes by hand 2 Nh, 3 Nr & 6 Ne only
1 Nh presumably mailed. To sack by 2400 hrs.

24 June To Blain by 1100 hrs, first drove to Point Rock &
released catch from last night, to wait for
flashlight; had truck inspected to Gmc. store; then
to Blain, 2 snakes, 1 Nh, 2 Nr, 11 Rc; To Freese
at 1700 hrs, 14 snakes in 54 traps, 1 Nh, 2 Nr, 1 Nr,
8 Rc; To Point Rock Park by 2045 hrs 8 snakes, 4 Nh,
4 Ne; back to ranch by 2315 hrs. Vesp tired this
pm - Need to get PITs from Orla in morning
we have two pits LEFT.

25 June Blair's at 1000 hrs; 4 snakes in 54 traps; not much in snake activity; female *Crotaphytus collaris* showed up today, with red dirt on head & shoulders, & skinny body. She has dropped her eggs in past two days. I Fed her some grasshoppers. Returned to Ranch; then to Freese Dam at 1700 hrs; 12 snakes in 49 traps; Ed had bulldozed new channel & LEFT 8 traps high & dry. We kept 5 traps to set at Paint Rock this pm. Drove to Paint Rock at 2030 hrs; set 5 traps & hunted island & LEFT banks. By 2330 hrs we had caught 8 snakes; 4M, 1W, 3N, only one in trap. Es out by 0015 hrs.

26 June Blair's by 1045 hrs; 5 snakes, 4M, 1N; back to Ranch by 1230 hrs; drove to OK's office & picked up fish traps for TWC. Returned Terry Smith's fishnets. OK's now has one set of keys to trailer, gate, & gas tank, he also has boat, motor, 25 traps from meadow, & video cam snake from me + ed's traps. Martin came & went in hour of today. LEFT Curtis Edelman with us. We ran Freese at 1600 hrs; 11 snakes; 9M, 1W, 1N. Ate at Locke's with OK's + Nancy. Our end of project supply. Back to Ranch by 2115 hrs. Very tired day!!

27 June To Blair's; 4 snakes; back to house; Dale called & said they have to release 400 efs; we have to pull traps, we pull traps at 1600 hrs; 19 snakes; decide to pull Blair's 1800-2000 hrs; pull Blair's traps; 8 snakes; - pit to office

28 June - Pack up trailer & Lab supplies, all house materials, LEFT 1030 hrs; arrived home 1600 hrs; project field work now over after 5 long years!!