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New Mexico Field Notes
2006 -

Property of Paul Stone

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This book contains important data.
If found, please contact me.

This Book is manufactured of a High Grade
50% Rag Paper having a Water Resisting Surface,
and is sewed with Nylon Waterproof Thread.

2

27 July 2006

- Arrived w BW Canyon
ca. 1 PM - PAS, MCB, ZSS, BD Stawila, KJ Lacey
Major flooded fields and roads off
ditches b/t I-10 and Cotton City
did not translate into wetness
S of Animas, nor in our path
of the felonicles

Saw 2 pronghorns wrestling w/
horns right by side of road.
S of Animas off diat 338

Saw 2 white-tailed deer in
Coronado Natl For

Hiked up to BW Hole -
fair amount of H2O in canyon
BW Hole completely dry
tall grass growing in basin

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is for

This box
50% Rag
and is sewn

seems like it hasn't held H₂O
since May - caught 20 turtles
(19 hatchlings) in pool at base
of Dam - also visited Pine
Pool, Big Gravelly area, and
Cliffsides pool above Pine Pool,
and caught 4 turtles

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very cloudy and fairly cool

seems like the situation Lison
described - 1st rain fills
up rock basins takes much
more rain to fill hole - .

Big Gravelly wasn't near full
but rock basins below BG were
holding a lot of H₂O

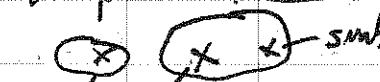
2 Belostomatid water bugs.
In pools; several other aquatic
insects; couple of water snakes

willow by Mosquito Pool seems
dead

28 July 2006

Wrote by camp and Carla's Camp campfire

Brian and I visited the headquarters
of the Diamond A Ranch - talked
to Seth Hadley - the Director of
the Aviary Foundation, etc.

We got permission to trap in
Cloverdale Spring and the other
springs above it - set 2 small
traps and 1 ~~big~~^{red} hoop in ~~the~~
Cloverdale Spring 

small red
Saw a bunch of lizards

Seth says Cloverdale Spring is the most
permanent H₂O in the Belenillies collected
dried in 2002-2003 for 1st time in memory

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saw 2 red-tailed hawks
and 2 sets of Open on
drift
(needles are from top of wall)
(2's to (not including) Pine Pool)

Marie, Ken, Spider wooded
would be rapids to Pine Pool and
set turtle needles - would be
have a lot of H₂O, Spray Pool has
H₂O, one 45 pool b/w Spray Pool
and Pine pool, and that's it
They caught 3 turtles

Hiked up to BW Hole then on to
Mud Hole

wooded above Mosquito pool - caught
ca. 14, mostly hatchlings, in pools -
Quite a few pools up there

Mud Hole dry - hiked canyon
behind Mud Hole to funky
Rock formation (ca. 4/5 down canyon)
caught 25 turtles (24 hatchlings) &
almost no H₂O

4 sawing like hell on the Aniva today
it rained a fair amount today -
off and on; steady drizzle
much of the day - pretty good thunder
in the distance to the South

Saw 2 hatchlings undergo terrestrial
flight responses today, while we
were standing there, or ♀ in a
small pool was gone when we
walked back by

found 1 hatchling on land

plenty of tadpoles in would be's and
above BW Hole

very few lizards - no Cnemidophorus
yet - few garter snakes

yes to Zone-tailed hawks -
Calls only

Bat flying around camp at dusk

29 July 2006

Rained last night from ca. 8:30 PM to ca. 3 PM today - at least a steady drizzle that escalated to a pour many times

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Set up at 6:30 AM and hiked to Cloverdale Spring - all 3 nets empty - road very passable, w/ just a few wet areas. Cloverdale Spring hadn't risen much. Despite the rain - pulled nets

Hiked up to BW Hole after that - brutal walk in raw - very hard rain about $\frac{1}{2}$ way up - Spider got chilled to the bone, much H₂O accumulating, running stream in many places.

Caught 3 turtles at dam on hole side of BW Hole, in the raw, but no H₂O accumulating yet @ the hole

on the way back stream had risen considerably - quite likely a cottonwood stream front would be to camp and beyond

numerous little streams running in from all sides into BW Canyon

5

Took a nap - afterwards hiked from camp to road - a flowing cottonwood stream the whole way, at Geronimo Trail, a stream rushing down Cottonwood Creek (?) not BW Canyon Stream and both rushed off S toward barbed wire fence

Later we walked down Geronimo Trail from almost the turnout to Castle Trail to camp stream flowing the whole way, crossing road etc.

It is clearly two - BW Canyon becomes Blacktender Creek something

Saw a black-tailed rattle snake on the side of Geronimo Trail

Heard Zone-tailed hawk near Pine Pool, seen perched before downpour.

30 July 2006

Got up and drove to Cloverdale Spring set 2 small and 1 Med net

(one small in little pond, 1 med, 1 small $\frac{1}{2}$ "
searched in vain for upper Geronimo
drove by down private drive up Kocapeli
and hiked around way past house and

Winnemucca, then hiked down a road by a fence (ca. 1 mile above lower camp) (the house/winnemucca) turnout was ca. 1.8 miles above Cloverdale Spring -

Proprietary

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saw dead leopard frog and deer carcass at Cloverdale Spring, saw large deer prints coyote maybe

Saw numerous deer in the area

tried to get to Road Forks, crossed one wash w/ some trouble, turned back at 2nd wash, would have been difficult to ford - it was fairly early on the dirt part of 338

Coming back to camp, got stuck on hill on Geronimo Trail, in Diamond A Ranch lot, just onto the trail - eventually got out and had to back up all the way to 338

went S on 338, W on Foster Draw Road, and N on Battalions Rd to bypass the hill - made it w/ a little difficulty

6

ca. 5 PM water at first set of rocks
6 PM a.m. down at 2nd set of rocks
7 PM back to first set of rocks
7:25 PM 2nd set of rocks
8:13 PM 5cm below 2nd set of rocks
 $11.2 \text{ m} = \text{stream width at camp}$

water levels on Geronimo Trail had risen considerably upon our return - in a couple of places it was a little "chancy" fording Cottonwood Creek (clearly higher than this morning)

Started hiking up to Bu Hole at 1PM it started raining soon after we started by the trail beside Deep Pool it was pouring - me, major, and spider turned back - ~~the~~ Brown & Lee continued to Bu Hole - at this point there was clearly flow continuously throughout the canyon, but easily fordable throughout

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back in camp, Mayie said she
heard rain or wind coming, both
it was a flash flood, transforming
Canyon into a river ca. 5 PM

Ken and Brian returned ca. 20 minutes
later, they couldnt cross river
at last switchback to BW Hole
they said they almost got swept
away at Pine Pool

we hiked down to Geronimo Trail,
Cottonwood Creek was also a river
where Blackwater Canyon met Cottonwood
Canyon - the river was huge, maybe
25m wide - hiked E across 2
stream crossovers, both clearly
unforable by car - we are stranded

(31 July 2006)

rained hard again last night
river rose and fell overnight

thus as it is about like it was
when we went to bed
debris and bad grass put
the back tire of where I usually

park underwater, ca. 2 m from
where we put the H2O/flood
overcast and foggy 4 AM
No sign whatever of the sun

width of river by camp 23 (23)
m at height of last night's 2nd flood

hiked up and down Geronimo Trail
1 switchback up (W), 3 switchbacks down
(E)
worst for fording are
2nd and 3rd E, where Cottonwood
and Blackwater rivers have merged

I think it could be possible to get my
truck out of here, Brown's Ford
contour, NO

only light misty rain/fog so far,
dark low clouds everywhere, esp.
up toward BW Hole

at camp when we got here - no H2O
 After night of rain - isolated puddles
 1st flood - 11.2 m wide river
 2nd flood - 23 m " "
 next morning - 9 m " "

water is clean now, was dark and
 forbidding yesterday after flood

Spicer and I hiked up to head of
 would be Rapids, BW Canyon is a
 narrow river up to there, easily
 fordable at all crossings, debris
~~logs~~, along banks indicates 30m
 wide river height at last night's
 flood, it rained on us the
 whole time, never pausing but never
 stopping

at camp

2 pm river down a bit
 3 PM river up a meter
 due to 3rd flood

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I tried to hike back up after
 walking Spicer back down to camp,
 river suddenly rose as I was
 walking on trail by Kara's camp
 & couldn't safely cross river
 at the switchback before fire had
 = 3rd flood

Marie and I hiked around
 camp down to Geronimo trail,
 Blackwater creek clearly elevated
 Cottonwood creek lower from
 this morning, looks passable
 at 1st ford

Brian and Ken doing repairs on
 3rd ford - to far west and was
 declared impassable by Ken

Marie, Ken, Brian are walking up
 toward Geronimo steep bank to cross
 off Cottonwood Creek - steep bank
 at about normal levels, nothing wrong
 into it

1 August 2006

H2O was backing down by the time we were to bed creek by camp down at least 1 m from yesterday's low mark by sunrise - still extremely cloudy and overcast - light rain on tent last night we are, I think, about to tuck our tail b/t our legs and run

saw a ringtail on Geronimo Trail b/t camp and Geronimo Sheep trail yesterday

Drove out of Coronado, fairly easy actually to run the 3 Fords on Geronimo Trail - Brown's can make it too

Proprietary

Addendum

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at onto Diamond A Ranch to Battalion Road, S or Battalion through 2 more fords (possibly the Cottonwood Creek?) to Foster Draw Road, Brown and Kev went left and up to Diamond A Headquarters Marie, Spider, and C went on to Clovedale Spring; checked nets and caught 3 large male mud turtles, 2 of which couldn't be measured (MC) w/ little calipers, Clovedale Spring hadn't risen much if any (= 48 hr net were set) prob a small alluviation/land saw Turkey Skunk and a Spadefoot toad on Battalion Rd. at one of the washes, great blue heron in Clovedale Spring, ducks, deer out in the flats ~~AA~~ ^{AA} ~~maybe seen multiplicate~~ ^{seen red spots} then drove back out 338 to AA headquarters then to road forks, no other significant problem on the way, 338 had been closed by machines

Saw a 2nd and 3rd box turtle 10
on 338 (1st was the day we were
turned away from Road Ferry)
Saw dead skunk on 338

2 August 2006

50 year flood in El Paso
unbelievable amount of H2O around
338 and I-10, 338 nearly impassable
around I-10, turned to Road Ferry
just above Cotton City was closed
by a "Road Washed Out" sign

Note - Dashed up in canyon to what
seems unreasonable levels is flash flood debris

final note on models

8 models set

7 in would-be rapid

1 in pool but pre pool and snag pool

None recovered

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31 Aug 2006

Drove into Peloncillo's via Truth or
Consequences. Got permits from Diamond

A. Headed to camp site. Got stuck
in the 1st low water crossing. Brian & Ken
hiked to diamond A, Paul stayed w/ the
vehicle. The two hikers were picked up
by Hidalgo County Sheriff, who gave us a
ride 1/2 way to the Diamond A. Ken (a man
that works for Diamond A) pulled us out of
the river. We set up camp before the 1st
crossing. Drove to Cloverdale and set

4 nets, 3 (2 sm + 1 lg) into the lg tank of
(Clo. spr. 1 lg net set in sun portion of
clo. spr. Looked for upper cincas; found
promising area but had to leave to take
Paul to Portal for the meeting. After Ken &
Brian dropped Paul off 3 jack rabbits & 1 skunk
were seen driving down 338 & Greenino
trail. Got back to camp @ dark.

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Sept. 1 2006

wrote & drove down Butcher on the
way to Cloverdale. Since we saw a Blue
tail Rattler on a western cattle road.
Cloverdale spring located. Reset
the nets. While searching for the, Ben
encountered another Blacktail Rattle
snake. While travelling to BW hole,
we got lost. The terrain has
changed ~~it~~. Set 3 sets by BW
hole. On the way back to camp
it started raining extremely hard.
When returning to camp, noticed that
the water level had risen. (There was
water seeping over the top of the
Dams) Camp area somewhat flooded.
Cottonwood creek water level was already
high. Actually flooded and staffed into the
back side of the stream water level of
Cottonwood. As of 5:30 it had
stopped raining. But more rain later

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to be coming (7:30)

Rained periodically through night

Sept 2 2006

Early morning, tried to make our
way to Cloverdale spring but the road
was decided to be unpassable. Hiked
to BW Hole. Upon arriving 2 of our
3 nets were gone. Presumably due
to the flood. There was noticeably
more water spilling over BW dam.

Located one net that had got tangled
on a rock near Last Fork. The other
net was not recovered.

Geronimo Seep tank was
extremely full & had a little stream
flowing from it. Tuttie canyon was
flowing. Almost every single canyon
is flowing.

12

After locating the road to Clanton Park. We decided to check to see if the road to Cloverdale was passable. It was. Collected the biggest ^{♂♂} & ^{♀♀} that PDS have ever seen. She weighed over 700g.

If In one net there were 2 huge ♂ & 2 huge ♀, plus one little I. The smaller $\frac{1}{2}$ of Clow. springs has yet to produce a turtle.

nets pulled
here

Witnessed a black tail rattlesnake on Geronimo trail.

While @ the smaller portion of Clow. ^{spring} Found numerous stick made made pens or holes. ~~Said~~ Ken said that they were ~~right along the~~ ~~water~~

Belived to be Beavers dens.

night

Started to Rain Last

Sept 3 2006

Has not stopped raining.

Rained all day. No escape possible.

Sept 4 2006

Stopped raining sometime in the middle of the night. Geronimo trail to Animas was flooded out, as was Battalion.

John Iverson & PAS were stopped about 5mi from Geronimo fl. on 338. Geronimo trail was flooded at the Whitmire creek, as well as 5 mi N of whitmire.

Ken & Brian parked @ the intersection of Battalion & Gee. trail ~~there~~

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Brian hiked to Diamond A to return permits & to get help. When he arrived he saw that the road leading to Diamond A had been washed out.

JBI, Iverson & PAS net up w/
BDS & KSL at the intersection.

Lots of silt accumulated in BW hole.
Everyone hiked to BW hole, which was overflowing. Surprisingly 8 turtles were caught. All were forced back by insuring rain. An attempt to leave camp was made but was halted

by a 2nd low water crossing on Bottellion. Dozens of wildflowers

PAS & KSL stayed in the mountains while BDS & JBI hiked back to Geranimo trail. JBI & BDS stayed @ Portal Field Station.

~~Sept 5, 2000~~

13

No Zone-tailed hawks,
few tadpoles in BW hole
Willow & mosquito pool greatly
dealt.

- bats & camp (camped near fast entrance.)
- tons of frogs along road
- ~~KOBES~~ tons of spadefoot toads along road. 338 - 145
- camp cats doing fine

(Sept 3 2006)

Met Bill Walter in a ditch
E 338.

PROB

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Kev and PAS woke up and set out
at dawn. Took Battalion Road -
2nd ~~the~~ crossing of creek was
treacherous, Footer Draw was treacherous
w/ standing puddle 100m wide.
338 by Diamond A was treacherous -
dead tree in road that we had
to move. Several other spots
were mushy, and the crossing
that stopped PAS and JBI the
day before was a real treat.

This was knee-deep, and there
was a 5 bound Toyota pickup
(90's model, Toy size) stalled out
in the middle of it. A 4-wheel
drive truck that was behind us

14

pulled the Toyota (Cotney
Bill Walter) out of the creek,
and we drove him back to
Animas, after crossing the
creek ourselves w/o incident.
Bill Walter is a rancher whose
family has owned a ranch
S of Animas on the Relucito
side of 338, since his
grandparents homesteaded.
He said they hadn't run
cattle there since the drought
of 2003.

Bill McDonald's ranch - 520 558
2475

15 May 2007

By Gravelly

220-230 PM watched
for flight response by 3 year old
(#11.3) from small puddle that
is BG - nothing

models - 1 small, 1 large in BG
1 small in Gray pool
1 large in pool below Gray pool

fish in pools along Blackwater Canyon
and along road, small minnowy
things w/ funky mouths - seen in
several pools, both places

Lots of Sitt in Blackwater Hole
maybe as much as $\frac{1}{3}$ of volume
now taken up by sitt

Lots of lovely flowers in burned
area from last year

15

arrived at Relocillos ca. Noon
camping along the trail right by the cattle guard
PAS, MEB, BDS, MSC, NWHites
are here

very little H2O in BW Canyon
Pine Pool dry

Gray pool has some H2O

By Gravelly small puddle

gw hole ca. 1 m below deer
some puddles below gw hole

set 1 medium and 2 small nets in BW hole
set 1 small and 1 large in Clinton tank

modelled By Gravelly, Gray Pool, pool below Gray pool,
pool at base of BW hole, pool 2m below
BW hole - caught one turtle at BG

saw zebra-tailed lizard, lots of quail
and colonies by camp, Carla's camp, BW
are still alive

MGB & BDS hiked to Clanton Tank and set 1 large & 1 small net. Saw Gould's turkey, red-tailed hawk, ~~Urosaurus~~ sp. and ~~Sceloporus~~ sp. Urosaurus ornatus. ~~Sceloporus~~ ~~Sceloporus~~ Noodled road from Clanton Tank to

Geronimo Seep Tank. Found one unmarked K. sonoriense above dam below GST. Flight experiment from 1725h to 1755h. ~~Turtle~~ did not leave. Pool was 12.5m² and 1.5m deep. Water clear and cold. Occasional clouds and wind.

Saw two dams near GST marked with red & white flagging tape. Dams made of plywood and concrete ca. 50m apart.

16 later ca 8 PM, set 2 large nets w Geronimo Seep Tank

16 May 2007

brief rain last night
BDS/PAS visiting AZ side of
Reloncillos this AM

suggested drove from Bill McDonald's to spring hiked from there to Cowboy flats, after taking a wrong turn and missing Lee Howard by 50m the key is to go left after the magnificient eroding rock wall, which is on the right and is a short ways after another magnificent eroding rock wall on the left

hike to Cowboy Flats was up a steep side canyon, hike back down to Lee Howard Spring was down a

beautiful canyon, full of signs
that it held lots of H₂O during
the wet season - all in all though,
we saw maybe 3 little pools
the whole day

Lee Howard Spring is surrounded
by young willows and sycamores
it had just a tiny speck of H₂O.
If you dug around in the gravel
there was a large concrete
cattle trough just below Lee Howard
Spring - it was empty.

Susanna Spring is a concrete
circular tank that has walls
4 ft above ground - dead roadrunner
in the tank, apparently couldn't get
out.

at Bill McDonald's we saw:
3 Sonoran whip snakes, 1 coachwhip,
several deer, zone-tailed hawk

17 on Geronimo trail we saw:
Sonoran whip snake
roadrunner w/ a mouse in its beak
we scouted the Geronimo Trail after
consultation w/ Bill McDonald
and think we found 3 possible trail heads
to promising sites: Cox's Canyon, Miller Spring,
State Line Tank

BDS/PAS crew hiked up to Clinton Tank
no turtles or fish in nets - scared 2
ducks from the tank, one from the
reeds flew at last minute, maybe nesting?

out of order - checked nets in GST this
AM - 5 turtles, including 3 red-eared,
2 of which were intergr. My nads
also scared 1 duck off GST

well, or the way home down the trail from Clanton, we were caught in a pretty serious hail storm, lasted perhaps 30 minutes and resulted in accumulations of pea-sized and marble-sized hail on ground - we took pictures

They found the models! all four often

turkeys and coyotes calling near camp

AM of 17 May MEB/RRH/msc
were looking for models
and pulled 1 ^{net} ~~net~~

MEB, RRH, MSC checked nets at BW Hole. Caught 14 turtles, did flight response experiments. ^{0952h-} _{1022h-}

Air 15°C, Water 12°C, clear to 30cm, Windy, sunny. No responders. Hiked to Javalina Tank. Saw Sonoran Whiptail ^{snake} basking on rock. Javalina Tank full, saw turtle basking on

18 long then clumsily fell into water whom MSC attempted to catch it. Set two small nets, then ate lunch. Saw turtle heads. Hiked back to BW hole. Flight Response exp at Mosquito Pool. Pool ca. 10m², air 21°C, water 19°C, clear to bottom, windy, sunny. ~~No~~ No responders 1253h - 1323h.

Collected dead K. sonoriense
^{buried} from previous day.

Collected fish in Big Gravelly.

Noodled Big Gravelly, found two models and #11.3 (non-responder).

Walked canyon to trail, noodled one small pool (no turtles). Noodled Snag Pool and pool at pt. 18; found one model in each pool. Fish in each pool.

Walked canyon from Pine Pool to road. Occasional puddles without turtles.

Fish in most puddles. While walking canyon, Zone-tailed hawks flying & screeching close overhead just below Pine Pool.

We thought we would be dive-bombed.

Returned to camp ca. 1530h.

~~MSC~~ MSC hiked to ridge nearby. After he returned, MEB, RRH, MSC walked road to dam near GST. #1109 in same pool (non-responder).

Attempted to collect fish in puddle near Clanton Tank. Previous to arriving at puddle, saw ringtail run off. Puddle

19 was dry, no fish, saw scratch marks & ringtail prints in mud.

[17 May 2007]

Flight response experiment-MEB Noodled #258 out of Mosquito Pool. Turtles from yesterday not found in pool. Replaced #258 at 1255h, in position at 1257h. Turtle swam around pool and left at opposite end 1303h. Climbed up bank, over sheer rock (ca. 12.5 cm), across ground to ~~under~~ plants near side of cliff (1305h) in sun. At 1312h, turtle moved under plants. At end of exp (1327h), turtle in same position.

20

turtle basking on stick, shaking
out of BW Hole, plopped into PMP
ca. 1 PM, 2nd time this trip
same sound same place, this time
I saw it

MES/PAS

hiked up to BW Hole then on to
Mud Hole, checked nets in Mud Hole
caught 4 turtles - sat around eating
lunch for 30 minutes afterwards,
no flight responses

Saw 3 deer come to tank edge
to drink - the vet and us
scared them off

huge ant colony at Mud Hole
w/ a trail ca. 5 cm wide w/
100's of ants coming and going
6 m at least \geq 15 m

Saw pair of ducks at Mud Hole
a " " " " " BW Hole

hiked back down to BW Hole
walked over small pool around pt. 69
walked Mosquito Pool above
saw Gambel's quail, saw turkey (on
Generous Trail)
saw 2 other deer on hole hill (Trail)

set up Mabot exp. 3 pools

Base of BW Hole - nothing

Mosquito Pool - (small, 1 large
pool above pt. 69 - 1 large

Baited nets at mud Hole w/ Sausage
Baited nets at BW Hole w/ jardines

In PM searched for state line fall
dove to monument and walked
the first few canyons E of
monument and didn't find it
to south of Generous trail

hail storm got a lot of H₂O w
Blw Canyon

Pine Pool is filled w/ ca. 10 ft
feet above and below - road/wg
yielded 16 early arrivers
(so, we roadbed Pine Pool)

Cloverdale springs: set 4 lg nets.
attempted to seine but submerged aquatic
vegetation made it very difficult

Cloverdale spring is very full, water
level just ~~edges~~ below embankment,
water extends much further back than
previously observed. Clo. spring is now
appears to be 1 entire pond w/ 2 islands.

Observed 3 ducks on water. On the
way back on Battallion saw a

Thamnophis marcianus on the road

Clinton Tank: Set 1 lg & 1 small
net, roadbed pools behind Clinton Tank
Saw 1 duck that flew out of cicks

by the small net.

Saw border patrolled after extrayon
Battallion towards camp.

Checked pools along Geronimo Trail
but found no turtles.

18 May 2007

turkeys and coyotes and 5/6
from camp this AM

we have roadbed GST to Blw Canyon
along the road, then Geronimo Trail
to Pine Pool, then Snag Pool and the
Pool below Snag Pool, and Big Gravelly,
then base of Blw Hole to Hello Hill

Rain last night further filled
pools in canyon

They (BDS, MSC, mwh) found the
models /
found dead turtle b/t Blw Hole & Mognito
pool

Hiked up to Mud Hole, set an extra small net and one medium net now have 3 small, 1 med in mud hole
~~No nets in SW Hole~~

heard the plop again 3x, almost
 must be a frog

Matt hiked down Savron's Canyon
 all the way to Clevedon Grade
 no tho

collected a fish from the pool 20m
 below SW Dams

hiked SW Hole to Big Gravelly

one pool 20 m below SW Hole

" " 20 m above Big Gravelly
 (full of fish) w/ garden snails
 apparently fishing

one pool 20 m below Big Gravelly

hiked by Gravelly to Lost Fork
 Water in Deep Pool - caught 1 turtle
 and performed a flight experiment

[115 pm - 130 pm no response
 messed around the edge a lot and they
 went under and did not resurface
 cloudy = 34 cm $3 \times 1.5 \text{ m} = \text{pool}$]

tiny puddle in Mutt tree pool
 and tiny puddle in pool below
 mutant tree pool

hiked Lost Fork to would-be rapids
 one small pool along cliff wall where
 there is usually a large pool - no
 turtles but we collected a fish, the
 larger of the 2 we collected today

would-be rapids had several small
 pools but the two big pools near
 the top were dry - no turtles

~~the little stretch b/t pine pool~~
 and the pool we visited the first day ^{was}

Noodled Pine pool and surroundings.
Gave up ~~try~~ no turtles

walked home in a light rain

so, 2 fish in a bag in formalin jar
little one was from pool 20 m below BW hole
big one from pool 511 Last fork ad would be
fish loose in the jar is from BIG Gravelly
turtle is the turtle we found ~~dead~~
in the water at the base of SW hole
~~the~~ other turtle is the one we
found on land 511 SW hole & Merganser had

in PM explored - found State Line tank
it is the ~~first~~ ^{first} turnoff on ^{left (south)} ~~left~~
before State Line movement, which
is after the Moraine movement
it is a small (ca. 15m across)
round tank that gets bigger
when wet, H2O is ca. 1.5 m deep

23 I poked around in the mud along
the shore for a bit but nothing
we saw at least 2 turtles and
a few Rana in the tank
fished exp. for 20 minutes revealed nothing
After that we set 1 big, 1 small net
in GST

Drove to Cloverdale springs and set
4 large nets. Many of the nets had
Lepomis & Micropterus along w/ turtles.
Noodled the spring south of the
pond. Lepomis are nesting in both Clav.
springs & GST.

Clayton tank again yielded no life,
3 straight days of trapping has not
yielded any captures! Tidied the nets.

Cattle tanks along Battalion had
water.

Drove & hiked around moraine
& later found the state line that
led us to find Stateline tank.

19 May 2007

24

7:15 AM

checked and pulled GST nets

2 turtles, 2 fish in large net

3 turtles, ca. 6-10 fish in small net

8:45 AM - Set one 5'5/our small
net in Stake Line tank

2 turtles swimming around
several frogs, including a few
little ones

worked from 8:45-9:00 AM

Flight response exp - nothing

1.4 miles from Stake Line tank
turn off to Marman Monum.

10:45 AM checked nets at
Cloverdale Spring, pulled over, net 3
cov. by 2 turtles in one net
1 sunfish w/ turtles, 1 empty net
3 sunfish and a bass in one net, 1 sunfish
in 1 net

2 ducks on Cloverdale Spring
Mother Gambel's Quail av, ca. 8 chicks
on Becktacon Road, also a big hawk
boreder part of on Cloverdale Road
w. of General store

12:50 PM checked nets in Stake Line tank
caught one turtle, Roxie saw a tadpole
(in a net), I saw a few little frogs
jump in (recently transformed)
Flight experiment 1 - 1:20 PM

5 min into it turtle came to edge
looked around, then went back under

2 PM - Exploring Miller Spring/Canyon
from AZ side

Miller Spring is a well, ca. 1 m across
has water but turtles couldn't get in
Prospect Tank is completely silted
(in), no chance it would hold H2O

even though it clearly once did
looks like the stream cut
an alternate course around
the side of stream

315 Cottonwood and 2 willows
that look very stressed growing
in the silt

Hiked about 15 minutes above
prospect tank - no water
nor ~~then~~ the promise of any
very silty, no rock basins.

MEB, BDS, MSC hiked to Javelina
Tank. Heard "plop" by willow but
didn't see animal. Caught two
turtles in one small net; other 3
nets were empty. Hiked to
corral, left nets and backpacks,
and hiked to Top-of-World
Mountain. Crossed a canyon

25 to get to mountain. Saw bird
fly away from under a rock.
Two eggs were on the ground.
Maybe a whip-poor-will? MSC
hiked ahead, and BDS & MEB
saw a man hiking ca. 100m from
MSC. Matt didn't see hiker, but
hiker saw him & froze before
moving in opposite direction.
Moments later the hiker saw
BDS & MEB. Brian waved and
hiker waved back. We think he
was a smuggler. He walked ^{away} ~~away~~ S.

View from top of mountain
was beautiful 360° . Saw State
Line Tank. Hiked back to
corral for lunch, and then to
BW Hole. Set three small nets in
BW Hole.

Took invertebrate/H₂O samples
at ~~the~~ Javelina Tank & BW Hole.

746 PM

26

set 1 Large, 1 med in GST

more saw rotors sided to back
in Camp

20 May 2007

pulling all nets this AM
that would be:

~~3~~ 3 small nets in BW Hole

3 large " " Cloversdale

1 large, 1 med in GST

1 large, 1 small in State Line

then we're going to Road Forks

Water depths in BW Canyon:

BW Hole: 57 cm ^{below dam;} water depth
(at rock) > 1 m

Big Gravelly 18 cm (dried since)
~~15 May~~

Water depths cont:

Deep Pool 43 cm - took 2 pics

Mutant Tree Pool 4 cm, ^{pool below} mutant - dry

Would-be-rapids 11 cm, took 3 pics

Snag pool 13 cm

Pine Pool 5 cm took a pic

Cool Pool ~~20~~ 23 cm

Dead Hwy Pool - dry

pool b6 frogs + Poc 29 cm

tried to take a pic from
the same angle as the last
never pic - took 3 pics

then saw Charlie

showed CW Parker State Line tank

he counted 20 frogs, said it was
one of 4 sites in Hidalgo Co. w/
leopard frogs - broke down camp ^{out} _{here}

1 July 2007

START TIME: 18:54

STOP TIME: 19:20

25 ✓

157 ✓

flight response

194 ✓

experiments

205 ✓

2023 ✓ protocol: sat on chair
talking for ca. 10 minutes

273 ✓

then watched for flight response

291 ✓

one turtle left the pool
west back in. Then needed

310301 ✓ then released all at once

332 ✓

and watched again - saw

10 responses

plus one turtle we couldn't ID

BW Hole $\approx 15m^2$

caught 40 turtles by hand
in ca. 40 minutes of searching

9 of 10 responders went to willow
✓ west to other sides
3 responders ended up stacked on

27

top of each other under willow debris
responses began w/in 10 minutes

Arrived at camp ca. 11 AM

set up camp - me, Spider, Brian, Ken
hiked to BW Hole

water in Pine Pool

pool b/t Pine Pool and Slop Pool (at 1/2
depth) was dry

Slop Pool

all flooded w/ no turtles

Big Gravelly is dry, deep pool below

BG here (no) - no turtles

Mosquito Pool is dry

pools at base of Barn Have H2O
but are greatly reduced compared to May

Zone-tailed hawks are here

saw common nighthawk

set one net (small) in BW Hole

25 July 2007

Spider and I hiked to SW Hole
checked net - 3 turtles, all
non-responders 920 AM

set up some bait

watched for flight response
for 10 minutes - no action

Thousands of cicadas falling
all along canyon - especially
in area 137 would be rapid.

Saw several apparently
adult aquatic snails
in SW Hole - decent swimmers

Brian and Ken set 1 large / 1 small
net in Clanton ca. 830 AM

Mapped Clanton Tank & depth
was measured to be approx. 6 ft.
Ducks that were there in May are gone

3 PM went to AZ and met Mariano
Martinez - talked about water
got a flat on the way back
visited State Line Tank
it has receded perhaps 1 m since May
counted 29 plots, mostly small plots
ca. 7 PM

didn't set net because of incoming holiday

2 PM briefly visited Miller Spring area
driving W, saw 4 concrete cattle
troughs in the creek bed
one held water and a turtle
that could possibly escape?
it could have fallen into the trough
but seems unlikely to be able to climb
out of the trough - we worked it,
measured it, and put it back in the
trough.

we believe Estes Canyon is the
first windmill (Kendy west)

[3 July 2007]

headed to mud hole 7 AM

7:22 left camp

8 AM arrived at BW Hole
checked net, 3 turtles

1 non-responder

1 responder that returned

1 unmarked 2006 hatching

BW Hole root net w/
2.8 m width same bait
7.5 m length ca 830 AM
0.70 m depth

left for Mud Hole 840 AM

Arrived at Mud Hole 920 AM

tank low but holding plenty of H2O
ca 20 x 30 m

noodled Mud Hole for 30 minutes
3 turtles - all at edge of pond
swallows but no ducks but many
duck prints; set 2 small nets
#1079 moved from pt. of release
w/w 5-mw it moved to other
side of pond by normal flight
response place and buried into
mud at edge of pond - almost came
out of hole, looked like a near-fight response
mockingbird, dove, house finch, swallow,
Kingbird, sparrow, zebra-tailed lizard

checked net at BW Hole 1149
and changed out bait

noodled 30 min. caught 5, include

4 non-responders

BW Hole	32.4 °C
Trip	18.0 °C

Pulled nets from Clinton Tank.

Still no life.

Discussions w/ Marcello led to an adventure to Black CCC. Upon arrival Black CCC was dry & its point was marked on the GPS. We followed the road beyond Black CCC & it eventually led to Buckhorn Tank.

Buckhorn Tank seems to be an almost permanent tank. It had a most impressive dam. Both fish & catfish were present. Pools existed both above & below Buckhorn Tank.

It seems to be a well maintained tank.

There was ^{corn} deer feed all around the edges of the tank w/ a road that ran right beside it. No traps were set & no noodling was done. Although we did poke around the pools. Buckhorn was also marked w/ a GPS.

4 July 2007

30

710 AM left camp

835 AM arrived at Mud Hole

leopard frog in net but fell out w/o capture
5 white-tailed deer, 1 red-tailed hawk
at Mud Hole - caught one ^{new hatching} from last year
reset both small nets w/ new bait

(Flight response - 3 Juv(s))

1155h put turtles back

1156 # 350 left ♂ 141.6 mm ♀ 180 # 1115

1157 other 2 turtles left / # 1119 ♀ 113.0

one passed w/n (inches) of my foot

pool just N of Maverick spring

pool ca 2 m long, 0.5 m wide

10 - 15 cm deep w/ decent

holy hole under brush grass mats;

meanwhile # 1113 & I consecutive

flight responses w/n 1-2 m/s

of release ~~from open~~
activated by SDS, RDL, ZSS

hiked over mount Doom - saw five deer
to Miller Canyon, then East to S Hole,
no H2O in Miller Canyon, went
South to Maricicle Spring - no water.
8 turtles - 2 in Spring itself,
6 in pools near Spring - saw
Sonoran Whip Snake by Maricicle
Spring - not much H2O in
Maricicle Spring pools - maybe
8-10 pools very bigger than 5 m^2

Caught 4 turtles in a small pool
in Cloverdale Creek Canyon. That
was the only water we saw & b/t
Mar. Springs & there. The pool was
about $\frac{1}{4}\text{ m}^2$. We also caught 1
juv. in Sawrons canyon. That pool
was about $\frac{1}{5}\text{ m}^2$. The hike up
Sawrons Canyon was just as brutal
as I remembered. ^{BDS} As we approached
mud hole 5-6 ducklings were spotted

71 by the waters edge. In mud
hole we rechecked the nets.
There were no turtles but 1
leopard frog. ^{24:00pm.}

Spider said a mother duck flew away and
the five ducklings ran up the slope the
same direction as flight response

Lion Creek

(BDS) Ken & I hiked up a trail
that led up Lion Creek. Marcello
had told us of a fork up there
but we were unable to find it.
The trail is tricky and deviates
from the creek. We hiked until it
looked like the canyon ended.
We were gone approx. 2 hrs. back

5 July 2007

32

Rained last night for five minutes - steady rain
into a
downpour

PAS/KSS hiked up to Mud Hole
pooled nets - 4 trap night total
Big frog (maybe bullfrog) in
one net - 1 dead duckling
and one living duckling in
other net

Hiked back down, then back up
the canyon looking for water

road to camp - saw 10 small pools
including Cool Pool

Canyon to Pine Pool - dry

Pine Pool has H₂O in 3 or 4 pools

pool above Pine Pool has H₂O

Swag pool has H₂O, 1 tiny puddle in

ground surface, no other H₂O

with small pool below Big Gravelly,

which is now dry

Big Gravelly to BW Hole - No H₂O
Pools at base of dam are now dry

Cloverdale spring - Set 4 large nets
Saw 24-25 mule deer & 4 ducks
@ the tank, collected water chem. ^{2 core} samples
Set 1 large net in Clanton Tank
Set 2 small nets in Stateline Tank

Cloverdale Springs 5-July-2007

pH = 8.5 DO = 10 mg/L Temp = 22°
Secchi = 80 cm; 6 core samples

~5:00pm BDS hiked up Cottonwood Creek
looking for H₂O; nothing was found
except pools described by PAS.

Hiked until I reached camping spot where
BDS & KSL camped when PAS was @
Powdermill. GST - set 1 s + 1 m, by the time
BDS was done setting 2nd net, there was a turtle
in the 1st. Less than 5 min.

population

BW Hole

July

wooded and trapped
completely 1-4
July

AUGUST

Mel Hole

" "

Sept.

33

OCT.

MM
Miller Canyon

dry 4 July

Maverick

wooded 4 July

12

Miller Canyon

caught dry
wait for rain

GST

Trapped 6 July, 7 July

Clanton

Trapped 2, 6 July, 8

State Line

6 July

Cloverdale

6 July, 7 July

Black creek

Dry 3 July, 11 July

Buckhorn

Fall 3 July

Estes

Turtle

P

34

Remember these five things

- (1) keep a tidy camp
- (2) take care of the equipment
- (3) trap ^{and} ~~wood~~ read men
- (4) collect as much data as possible from each turtle
- (5) DON'T BE DENIED

16 July 2007

- pulled nets from GST; caught one
- pulled nets from Stalhouse: ♂ frogs were using nets to lay on.
- reset nets @ Cloverdale 4L:2S = 6 total
Saw 23 mule deer @ Cloverdale; one net had 30 sunfish in it and no turtles another net had LMB & SF w/ a small SMT in it.

In the afternoon we explored the R turn on the way to Black ccc.

The trail led to some storage tanks but no real tanks. Efforts to find ~~new~~ new tanks were unsuccessful. PAS left camp in A.M. BBS & KSC stayed.....

1830h - pulled 1L net from Clanton
- mapped Clanton w/ GPS

1930h set 3 nets in GST
1L:1M:1S

- saw border Patrol @ Clanton tank
- noodled pool behind ^{cc} dam off of the Geronimo trail - no turtles
- saw a Crotalus molossus on Geronimo trail on 5 July 2007 about 1900h; 200 m from the turnoff to camp

[7 July 2007]

33 10 turtles

0725 - pulled nets from GST; ♂
one net had 15 SF & 1 LMB & another
had 6 sunfish

0813 - On the drive to Cloverdale we
saw: 20-25 mule deer w/ at least 2
bucks. Odocoileus hemionus; 7 Blacktail Jackrabbits;
Jackass doves, Leucos californicus; 1 cedar tail Hawk;
3 Mexican mallards

0840 - nets pulled from Cloverdale (6)

1 net had 1 dead sunfish (Lepomis)

1 L net had one turtle (VS) & 3 sunfish

1 L net had 1 Large Mouth Bass (Micropterus)
& 15 sunfish.

Turtle was unmarked but escaped
before marking. Darnit!

It looked like the turtle was a ^{immature} young male
b/c he had an enlarged tail but it was
not as large as I have seen on mature
males. Estimate MCL around 80mm.
Not my proudest moment, will head to

Lordsburg later today.

Cloverdale spring has a ton of
emergent aquatic grass that is
making it difficult to set nets. Adding
to the difficulty is the moss layer that
is right next to the grass. There are
small patches of scirpus around
the pond.

6 nets = 1 turtle = but escaped

also saw about 8 gambel's quail

[8 July 2007]

1530 - Set 8 nets in Clov. spring

45:4L

saw 5 pronghorn on the way to Clov. spring

- collected net bug sample 3:15 = effort

- 1728 - 1733 : it rained

Pronghorn - Antilocapra americana

36

- 1815 - Met Meira Gault, she came to our camp. We were supposed to meet @ 9:00 AM on the 9 July 2007, but she came earlier.

She was an extremely nice person and she & her husband Steven Gault are the owners of the Midbar Ranch. They also are the owners of the Clanton & part of the Cloverdale ~~allotment~~ allotment. Buckhorn Tank is on her allotment: I got in contact w/ her b/c of Marcello Martinez mentioned our work and she was very interested. She mentioned that Gary Helbing had thought there were SMT in Buckhorn but she had never seen them. But in her own admissions she did not know what to look for.

Soon after she arrived it began to sprinkle, and the sprinkle turned into rain & then into heavy rain & we had to take shelter in the tent. It rained extremely hard for about 45 min. It has since let up but it

continues to sprinkle & thunder can be heard in the distance. Puddles have collected & the temp has dropped ~~dramitically~~ dramatically.

But in all we have made a new friend & probably an important one.

0730

9-July-2007

It sprinkled off & on till about midnight & then it stopped.

0730 - Arrived @ Cloverdale & checked nets ~~&~~ 8 nets = 2 turtles

0930 - Reset all 8 nets: leaving cloverdale

1242 - Have arrived @ Cedar Spring in Estes Canyon. The spring is dry, it is also a little cement tank but it has black tubing coming from it. We followed the topo here but went up a false canyon @ first. Something similar to last or lost fork. There is a willow by cedar spring.

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1255 - arrived @ Cedar Tank, 37
however Cedar Tank is before
Cedar Spring. Cedar Tank has been
completely filled in w/ silt. It looks
very similar to South Hole. There appears to
be water that collects at the base of
the dam. There is also a nice pool approx
25 m below Cedar Tank dam. It looks
as if there would be several pools that
would develop during high water periods.
We caught one turtle in the pool below
the tank. There are several willows
by the ~~Cedar~~ tank.

1530: Set 2 nets (1L:1S) in Stateline
tank

There are still tons of Rana.

1600: Noodled the puddle @ the base of
the Cottonwood Creek dam. Water had
collected from yesterday's rain. We

caught one unmarked juvenile.

Estes Canyon is mainly dry,
however there are little stretches that
would have 5-10 very small pools. Ken
marked these complexes w/ a GPS.
It does look like the canyon would be
good when there was water.

Saw several Turkey Vultures &
a few Ophiomorus

1745 - John Bell of the Forest Service
came by & he was looking for illegals.
~~He~~ However, he was not from this
area & in fact was from Idabel, OK.
He is helping the Coronado b/c they are short
handed. He said he was doing a 2 week
shift here. We ~~exchanged~~ exchanged pleasantries
& he was on his way.

10-July-2007

38

It rained off and on all night, but not heavy rain.

0810 - Saw #2 white tail on the way to Cloverdale. Decided to pull all the nets from Cloverdale. 8 nets = 1 ^{creek} ~~foot~~

0850 - Hopped area ~~between~~ by Clou.

for about 20 min. about 4 pools no turtles.

In Clou. there is a dead deer

1000 : arrived back @ camp. Stopped by the Diamond A to give them pictures of Big Hole & River burn.

Saw 2 Gopher snakes; ~~Pituophis~~ Pituophis melanoleucus

Saw several turkey vultures

1115 : Found Miller Spring. It is basically, just a well w/ a metal covering.

1215 - arrived @ Prospect Tank.

You cannot tell that it is a tank b/c of all the siltation, it is even hard to tell where the dam was.

If it wasn't for the sign I would have walked right by it. We also found the tank on the N fork of Miller.

It looked like a spaceship! There was a black tarp laying on the ground & that tarp led to this tank. The tank had a metal ~~sheet~~ dome-shaped roof w/ a manhole cover. We pulled the cover off & there looked to be a couple of inches of water @ the bottom. It looks like some real cowboy engineering. we will refer to it as spaceship tank.

1250 - We continued to hike behind Prospect Tank and we came to a rock wall that had a little water in a basin that looks to be man-made. We hiked above the wall & there

was another little pool but no turtles in either.

The turtle that we caught in the troughs of the Miller Spring area is gone. It is hard to imagine that the turtle scaled the side of the tank.

PM

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On the way back from Miller Canyon we found 2 more roadside tanks. (A) The first tank was about $\frac{1}{2}$ mi from Miller Canyon on the West side of the road. It was dry but it had vegetation growing in it suggesting it may hold water at times. The second tank was on the East side of the road. It wasn't much of a tank but there was green grass growing in parts of the tank which may indicate the presence of water.

Checked the nets in Stateline tank (B) Reset the nets and added a

net. (2L:1s)

79

Found what I believe to be the base of turtle canyon. Waded a few pools around that area but caught no turtles.

Checked the pool at the base of the dam on Cottonwood Creek, the turtle we caught yesterday is gone.

A Sceloporus dined on some ants at the campsite. Some of the ants are flying off.

We saw 2 Sonoran Whipsnakes Masticophis bilineatus & many (6-7) Cnemidophorus on the way back from Miller Canyon → Camp

Hiked up to BW Hole to collect bug samples. We did not collect

Blackwater Hole

Secchi depth = 27 cm

pH = 8.7

Temp = 22°C

6 core samples

DO = 16.6 mg/L

It rained for about 45 min ^{last night}

11 - July - 2004

0600 - pulled nets from Stateline

- saw 25 Leopard frogs, if not more

- collected bug samples

Stateline Tank

Secchi depth = 13

pH = 8.2

Temp = 21°

5 core samples

DO = 15.6 mg/l

- found a dead ^{1/2} metamorphosed
Leopard frog. Collected and stored in formalin

40

Explored the area around
Buckhorn dam. There were 2 ($\frac{1}{2}$ m)
~~small~~ small pools above the tank.

There are 2 deep good pools
below the tank. We noodled 7
turtles (5 adults, 2 Juven.) from these
pools. It looks like there ~~could be~~
could be a healthy population.
Ken saw frogs.

I hiked about 100-150 m below ^{the} dam
following the canyon & there was no
H2O. We set 6 nets. ~~the~~ (1M:3S:2L)

Black CCC had H2O.
Buckhorn Tank has a steep
dropoff near the dam. It made it
hard to set nets. And the tank
is \approx 2 m

Hiked up to Wallabees to measure
H2O w/ Ken. Found a small

model 00 & the top of would-be's

Model was set 28-July-2006!

1900 - set nets @ GST (3 = 2L+1s)

② Pineywood & Would-be Complexes
have ~~had~~ increased H₂O level.

1s : 13 Lepomis 6 KS. 4)

2s : 5 Lepomis 36 KS

3s : 1 Lepomis 6 KS

1L : 8 Lepomis 6 KS

1M : 19 Lepomis 0 KS

2L : 2 Lepomis 17 KS

total = 38 Lepomis (green sunfish) 71

1917 - Just finished measuring and
marking 71 turtles. 69 were new
captures. 1 was a recapture from 11-July
& the other was an interpopulational migrant
from BW. Canyon (would-be area) #244.
We hadn't caught ~~turtle~~ since '92.

12 - July - 2007

0800 : checked nets @ GST, 3 nets = 8 fish

still catching many ^{sunfish} ~~fish~~ in nets

5 turtles, no fish

pulled nets ~~but didn't catch~~
~~anything~~

3 turtles, 2 fish

0 turtles, 12 fish

0930 - Set nets in Clinton Tank

(2s:1L)

We also performed a flight response.
no responders. Secchi = 2.7 + temp = 23

It rained most of the day which forced
us to measure turtles in the truck.

It stopped raining about the time we
got done measuring turtles approx 1930
Reset the nets w/ new bait

TJ

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50
am

also saw a scorpion, Blacktail Jackrabbit
& a red-tailed hawk

13-July-2007

0815 - Arrived @ Buckhorn Tank
& pulled nets

1S:	15 L	0 KS
2S:	5 L	3 KS
3S:	2 L	0 KS
M:	10 L	0 KS
L:	8 L	6 KS
2L:	8 L	4 KS
	<hr/> 32 L	<hr/> 13 KS

attempted flight response trial: no respond
noodled pools below Buckhorn Tank.

Found one recapture #2051 & that's it.

Buckhorn Tank + 6 core sample

pH = 8.0 1 net sample
temp = 23° 1:33

DO = 8.5 Secchi = 26
 some type of lily

Fruit Tank water @ base

- Found ~~that tank~~ tank (dry) also
found a dam on the river, & there
was no water in the tiny tank but there was
water @ the base. We noodled 5 turtles

out of it. The river looks promising
when there is H₂O. 45 min = effort
~~On the way back we saw~~ 3 whitetail,
1 roadrunner, several Sclopetes, & ~~2~~ Urosaurus.

At the den on Hunt Tank there were several
lizards. One had a tortoise shell & a brilliant
~~blue~~ blue underside of the body

- Reset nets @ Clawson Tank

Set nets in GST (2L:15)

14-July-2007

- 0726 - pulled nets from GST = 3 turtles

- 0800 - Pulled nets from Clawson = 0

→ noodled = 0 turtles

- headed into Lordsburg NM

15-July-2007

43

- Caught a ♀ U. ornatus @ camp
- Noodled Pine Pool Complex = 0 turtles
- Noodled BW Hole ^(45 min) = 0 turtles
- Set 1s net w/ sardines in BW Hole
- Caught #266(♂) on land approx. 20 m below base of would-be-rapids. He was by a rock in the middle of the canyon.

16-July-2007

			turtles
Pine pool;	H2O		0
Snag Pool;	H2O		0
Would-Be-Rapids	H2O (28 pools)	2	
Snag Pool	H2O		
Deep pool	No H2O	0	
Mutant Tree Pool	H2O	2	
BW Hole (net)	H2O	1	
Big Gravelly	DRY	0	
Mosquito Pool	DRY	0	
Reset net in	BW Hole		

hiked up canyon from camp approx 1½ miles. No H2O.

17-July-2007

#1177 had a dead bird in the pool w/ it. Looked to be eating bird

- BW Hole net = 0
- reset BW hole net w/ same sardines.

- hiked to Javelina Tank

- set ^{small} 1 net; diameter of tank has decreased by 4m & depth has decreased approx.

by 10cm. Difficult to set small net ~~but~~ B/c of depth issues.

+ noodled

- hiked down Sauron's canyon & caught 4 turtles (118 pools)

- hiked & noodled Cloverdale Creek & caught 5 turtles (⁶⁰ 52 pools)

- Maverick Spring = 10 turtles (52 pools)

- Horseback Border Patrol met us on the trail we exchanged pleasantries & were on our way

- Saw several Sceloporus & Cnemidophorus. On the way back it seemed that many of the pools that were present in the AM were gone.

[18-July-2007]

44

Mud hole net = 2 turtles ; reset net

" " noodle = 8

BW Hole net = 0 ; reset net

noodle = 0

Mutant tree pool = 1 turtle

Buckhorn Tank set 5 nets (2L:2S:1M)

noodled pools above = 1 turtle shell

noodled pools below = 1 turtles

Pro

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Tel

J.

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On the 17th evening we met two guys that were biologists who were into Beetles. They wanted to know if there was any water around. On the morning of the 18th, we showed them their way to Clinton & GST. They were not into hiking. I think one of the guys said they were from Madison College, Tx

Saw a whitetail deer on the way back from Buckhorn.

[19-July-2007]

checked BW Hole net = 0 reset

checked Mud hole net = 0 pulled (recap)

noodled = 1

Javelina Tank

Secchi = too shallow

DO = 0 pH = 8

temp = 24

6 core samples
no aquatic veg.

- could not perform DO test b/c water was too murky & test results were not attainable.

- could not do pH b/c something is wrong w/ pH meter.

(1300 h)

Set 5 nets in Cloverdale Spring (3L:2S)

Reset nets in Buckhorn Tank (39 turtles)

* out of 39 turtles, 19 were recaptures

out of order: on the way to Javelina Tank it rained for approx. 5 min.

At Buckhorn Tank it rained for approx. 10 min.

Saw a ♂ & ♀ Red tail Hawks It rained briefly before dark.
Black CCC is almost dry.

20 - July - 2007

45

noodled would-be's = ♂ turtles
(12 pools) water has reduced rapidly
checked net @ BW Hole = ♂ turtles
Saw 2 Hummingbirds @ BW Hole

Saw 2 Cnemidophorus on the way

- Pulled BW Net

Checked Buckhorn (5) nets = 30 turtles

Pulled Buckhorn

Checked Cloverdale spring nets = 1 turtle

Reset nets (5) 1L = 1 Lepomis ♂ KS

2L = 1 Lepomis, 1 Micropterus

3L = 9 Lepomis ♂ KS

1S = ♂ L or KS

2S ♂ L or KS

Saw 4 mule deer & 1 red tail hawk
& 1 coyote

Set 3 sets nets in Clinton (2L:1S)

Saw a few acorn woodpeckers

It started to rain around 1800h

21 - July - 2007

- Pulled nets from Cloverdale = 1 turtle
- Pulled nets from Clinton = 0 turtles
- It stopped raining ~~and~~ in the middle
of the night.

On the way to Douglas, AZ, saw 4
roadrunners, 1 red tail hawk, 4 mule deer,
3 whitetail deer, & 1 ~~banded~~ lizard
Gila monster

22 - July - 2007

Set 4 nets in Buckhorn (2L:2S)

- arrived back @ camp

- Got supplies while in Douglas, AZ

23 - July - 2007

Checked nets @ Buckhorn Tank

4 nets = 47 turtles, & 8 fish

- Reset 4 nets (2L:2S)

- Set 4 nets in Cloverdale Spring (2L:2S)

Set 2 nets in Clinton (1L:1S)

Crotalus molossus (GTr)

Today saw: 1 Blacktail rattlesnake

4 whitetail deer - drive to Buckhorn
unknown,

1 Sceloporus (15 SVL, estimate)

17 American Kestrels - Cloverdale drive

4 Mexican mallards @ Clanton

1 Great Blue heron @ Cloverdale

1 tarantula on the Battalion

it rained for 5 min @ Buckhorn

24-July-2007

- Pulled Buckhorn nets; 4 nets = 12 turtles

(45 in - 16)
- Noodled pools behind Buckhorn = 3 turtles

- Saw 2 Fawn on the way to Buckhorn near
Black ccc.

- Checked Clov. sp. nets = 8 turtles

3 nets = no life; 1 net = 5 micropogon

+ 5 Lepomis

- Reset nets & added a large net = 5 nets in
all (3L:2S)

- Found several Mexican Mallard feathers @ Cloverdale

- saw 2 whitetail on Gezonino trail 4/4

- Set 2 nets in Stateline tank (1L:1S)

- Stateline was completely covered in pond
scum. Started to rain @ Stateline.

Rained hard for ~20 min.

- Explored what I believe to be turtle canyon.

There were a few good pools but no turtles.

- Checked Clanton nets (2) = 8 turtles

- Reset

Clanton Tank 6 core
1 net 2:30

DO = 17 mg/l

pH = -

temp = 24

Secchi = 37

- Started to rain a little

- Rained for a couple of hours @ night.

25-July-2007

15 nets)

- Checked Cloverdale = 2 turtles

- Pulled Clov.

- Saw 7 whitetail deer & 5 mule deer @

separate times along Battalion.

- Saw 1 Gopher snake Pituophis melanoleucus

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- Checked nets @ Stateline. (2 nets = 1 turtle)
 - Reset nets (1L:1S)
 - Hiked around Mill Creek Canyon. There were no pools other than the two pools by the giant wall. Noodled no turtles.
 - Horseshoe tank = No H2O
 - Roadside tank = No H2O
 - Hiked to Cedar tank & Cedar Spring in Estes Canyon. There were several pool complexes throughout Estes. Caught the first hatchling turtle! It still had an yolk sac scar. There were several nice pools in the Cedar Tank area. We caught 2 turtles + one was a recap from the first time we went there. In the parking area to Estes there is a large $8\text{ ft} \times 11\text{ ft}^2$ (est.) cement tank. Since it was full, we did not noodle, too big, plan on setting a net.
 - Reset Clinton nets (2)
 - Set GST nets. (2) 1L:1S
- Today we saw: 10-15 turkey vultures. Cloverdale, Saw a *Buteo punctatus* in Estes Canyon. Tadpoles in Estes canyon, Zone tail hawk on Geronimo trail or R near the Exit of Old Nederland road (AZ), a brilliant red velvet mite, and several unidentifiable Cnemidophoruss.
- out of order: noodled a ♀ turtle from a pool complex in in Cottonwood Creek on AZ side (the only water we saw on the Cattarrow)
- 26 - July 2007**
- Checked & pulled GST; 2 nets = 5 turtles one interpop migrant from Turtle Canyon
 - Checked & pulled Stateline Tank; 2 nets = 8 turtles
 - Checked & pulled Clinton Tank = 8 turtles
- | | |
|-------|-----------------------|
| GST | 1 net 1:45
5 score |
| temp: | 23°C |
| pH: | N/A |
| DO: | 16.9 mg/L |

P.M.

A.D.

T.O.

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We attempted to hike to Bow tanks but a barbed wire fence w/ a sign suggesting the other side of the property was not Coronado National Forest. We checked w/ A.M. but they did not know. ~~but they~~ seemed to think it was NF land being cleared by the A.M. So our attempts were thwarted.

Western

We saw a diamondback rattlesnake ~~at~~ ^{spp} Peloncillo Tank. Crotalus atrox dead on the road but the specimen was in too bad of shape to get pickle. We saw whitetail deer several times along the Greenino trail. No more than 5 were grouped together. Saw 2 Sceloporus virgatus

27 - July - 2007

- checked BW Hale H2O levels
- moved camp & went back a day early

28 - July - 2007

- arrived back to camp from Douglasite - it started to rain shortly after we arrived (1½ hrs)
- it rained throughout the night
- Saw a Sonoran whipsnake on Greenino Trail

30 - July - 2007

On the way to ~~the~~ spp Peloncillo Tank:
Pine pool = had H₂O
Wadell pool = had H₂O
BW Hole = has less H₂O (still shrinking)
Javelina Tank = is nothing more than a big puddle

1300h - Found Peloncillo Tank but it is dry. However, there is a nice pool complex in the canyon that leads to the tank.

We caught 3 adults + 5 Hatchlings. Coming here we went over Mt. Doom & came directly to the tank. On our trek back we plan to hit South hole, Clov. canyon & ^{Sawtooth}

Our trek did not go as planned. @ 1700 and $\frac{1}{3}$ of the way up Cloverdale Canyon, we abandoned noodling and headed back to Javelina Tank. In doing so, we found an easier path to Jav. Tank from Clou. Canyon. We plan to noodle Sarrison's, Cloverdale, & Maverick tomorrow. Today we caught 19 turtles (6 hatchlings included)

Today we saw: 3 whitetail deer on the way from Peloncillo Tank to South Hole, several Urosaurus & Scleropeltis, a S. virgatus, $\frac{1}{2}$ metamorphosed tadpoles in a pool near Peloncillo Tank, & found a turtle shell (Juv.) in Clou. canyon, & a garter snake in the same pool as the tadpoles.

Flight response by ♂, \leq 3 min

19 X-RAY ♀

2276 - A

~~2277~~

2054 - B

2265 - C

1219 - D

2282 - E

2228 - F

2264 - G

~~2277~~

2052 - H

2099 - I

2261 - 2

2270 - 3

2082 - 4

2260 - 5

~~2277~~ 2266 - 6

2257 - 7

1222 - C1

70 KV .08 sec.

4 August 2007

50

we saw a bear on 2 August ^{at GST} and Clinton

zontailed hawks have young

we saw 3 birds and think we heard 2 others, young have a different call w/ same pitch

we have waded from Lost Fork to Hello Hill and Pine pool

set 2 small nets in mud hole which is much reduced, probably similar to July levels (I walked a track of it w/ GPS)

waded Pine Hole, caught 4 turtles 3 hatchlings, 1 1-year old, then set a small net, it too is about at July levels (ca. 8 x 2 m)

water levels have risen a lot over the last 2 days

2 August - Deep pool, mutant tree pool, Pine pool, Big Grouchy, all held water at medium levels today they all are high levels w/ some flow at Pine pool and elsewhere, it would be hard to walk 50 m down the canyon w/o finding a pool

3 August - blacktail/rattlesnake in camp right at E entrance to National Forest - big snake saw it 2 times

^{July} ~~Set nets @ GST?~~
Dozens of ant. colonies, some 20m apart on plain w/ no crop collected fresh dead hatchling from pool by Lost Fork - floating in H₂O

BDS/KZL collected DoA St
Blacktail rattlesnake
1.5 miles W of GST
on Geronimo Trail

Lots of flowers, lizards, birds.
deer - life is good

Black CC has H₂O - it didn't
in July

Rain on 2 August filled GST
so that stakes from our nets
were underwater - that's a foot

collected blood from tails
of 5 males at DW hole
and surrounding pools

5 August 2007

hiked to pine pool at 8³⁰ AM
conducted model experiment
in Pine Pool complex 3 large, 2 small
models set in trickling run ca.
40 m long: SL thorax, ZS Stone
wood/ug

047 AM All 5 models found

Spider caught a turtle 20m below
Pine Pool during model exp. later
recaptured about 20 m above pine pool

hiked to Mud Hole caught 5 turtles
and reset nets - mud hole shaded
in low lying clouds as was
Anza Valley this AM, sitting
under the tree (not the willow)
where we eat lunch you couldn't
see the nets in Mud Hole

There are fish in Pine Pool 52°
and the big pool b/w Pine Pool
and Gray Pool

rained hard last night
water levels rose again

Cottonwood is now flowers

Slowly across the 3 switchbacks

btw BW Canyon and Diamond

BW Canyon is flowers in places

hiked to BW Hole - pulled empty
net

tried way up Last Fork, until
it turned left, caught a few
turtles, plenty of pools up there
neither Mud Hole nor BW Hole
rose overnight

Brian and Ken saw a Gila Monster
wooded from Lost Fork to top
of would-be rapids, then from foot
of would-be rapids to Pine Pool, then

Brian and Ken took over from
Sandra, PAS, spider noodling and
Thomas woodled from Pine Pool to the road
water and turtles all along the way

6 August 2007

No rain last night

wooded would-be rapids, flowing in places,
only one turtle, semi-wooded above
Mud Hole to Mud hole - one turtle
pulled net

wooded Sawtooth Canyon caught
30 turtles, mostly hatchlings

concluded model exp. at 14y
Gravelly 4 large, 2 small ST
BDS/K5L/ST woodled

5 of 6 found - large wood missed

Coyotes calling at camp

We are leaving tomorrow

7-August-2007

93

- Found a few owl pellets
- Made copies of data @ animals
- Went to Read tanks w/ Paul & Co.
Set 2 nets in Black ccc (2s)
- Set 1 net @ base of dam @ Hunt
Tank (which was dry) (1s)
- Set 4 nets @ Buckhorn (2L:2L)
- Noodled for about 20 min in
pools below Buckhorn until we got
rained out. Heavy rain fell for
about 2 hrs.

8-August-2007

- Saw C-Panthers in the AM
- Checked & Reset Black ccc = 0 turtles
- Checked & Reset Buckhorn
- Noodled 300 m below & 300 m above
Buckhorn Dam
- Set nets in log pools while we

- Noodled, 2 nets = 1 turtle
- Then pulled to set in Buckhorn
- Checked & Reset Hunt Tank net
= 2 turtles
- Noodled from Hunt Tank to
3-way Dam
- Noodled area around 3-way
but was too deep.

9-August-2007

- Checked & pulled Black ccc nets
= 0 turtles
- Checked & pulled Buckhorn nets
(11-15)?
= Several turtles
- Noodled pools up to 2500 m above
Buckhorn Dam & pools up to 650m
above Buckhorn Dam
- ~~Tomorrow~~ plan to
- Saw 4 Juv. Chenichophorus
- Saw 2 Striped & 2 checked Crotini
- Many of the captures up & down stream

were Recaps from our previous Buckhorn trapping.

- checked & pulled Half Tank net = 8 turtles
- FORCED BACK by Rain @ 1545

~~BUT WET~~ Notebook
out of Order

31-July-2007

Noodled Saurons = Many Hatchlings

~~1/3 way down Cloverdale Canyon +~~

Hike to Mav. springs cut short ~~due~~ to torrential downpour

- Both Canyon's (Miller & Cloverdale) began to fill quickly
- Mud Hole filled by Rain
- Saw 5 U. ornatus
- @ Camp light to no rain
- on 338^o, T. ornata mel = 123.3

1-August-2007

S4

Mud Hole was as full as the 1st day we got here. No Noodling or net setting. Hiked into Cloverdale Canyon via Saddle. Clov. canyon was flowing & had several deep pools. Hiked straight to Mav. Springs. Miller Canyon was also flowing & had several deep pools. Mav. Spr. was almost overflowing. HARD noodling b/c of increased amt. of water. Noodled Miller Canyon from Mav. spr. ~~to~~ North to Clov. canyon? ¹³ turtles 1 turtle captured in Cloverdale Canyon.

Almost all captures were by sight, turtles active. Noodled Clov. Canyon. ~~to~~

Drove to AZ side, no creeks were flowing. Tons of fresh silt in Cottonwood, Miller Canyon, AZ = no flow
Horseshoe = H₂O

-Saw 2 Blacktail Rattlers @ tanks by Miller Spring. They were copulating.
2 Zone tails by Miller Spring, ^{2 Hyla} <sub>1420-Started
rain 1830-stopped</sub>

12-August-2007

SS

PAS, ZAS, Sandra & Thomas arrived @ camp about 11:00

-Set 4 nets in Clou. spr. (2L:2S)

Set 3 nets in Buckhorn (2L:3S)

#2071 found on shore of Buckhorn, ^{POB} Rote

Noodled from Last Fork to pt. 56

~~•~~ Juvenile Zone tails in bl. Canyon.

Set 3 nets @ GST (2L:1S)

noodled Pine pool

-Saw Juvenile Black bear e along GTR.

b/t GST & Clinton turnoff ca. 2000ft

13-August-2007

-Rained most of last night

-Rained all morning. PAS, KJC pulled GST nets, 3 nets = 1 turtle. Nets were flooded. GST has risen drastically.

Met Nancy & Justin Longdon ca. 0930 pulled Buckhorn nets (5), Noodled pools above Buckhorn.

Took blood from 12 turtles

X-rayed 16 ♀ (15 = Buckhorn, 1 = Cloversdale)

Blacktail rattlesnake in camp, Blacktail rattlesnake seen on Battahan b/t 338 & Foster Draw Rd.

-water in Clinton Draw was trickling all the way down to Lion Hunters Camp.

-Hole spilling ~~over~~ over dam on Clinton Draw near GST

-~~Ran~~ Checked & pulled Cloversdale nets = 2 turtles

10-August-2007

10

- Noodled Turtle Canyon (1.5 km)
= 1 turtle
- Mapped 1 km above Buckhorn Dam
- Noodled " " "
= 7 turtles (3 recaps) H2O level = 22.5 cm
below top of dam
- Noodled Knob Park area = 0
- Noodled 3-Way dam area
= 0
- Saw a Sceloporus scalaris
one w/
2 Urosaurus ornatus = 0 brilliant blues
Sceloporus jarrovii
Stomach & throat

juvenile Cnemidophorus

or wild

Gould's Turkeys: 6 adults + 0
immature (Dead End Road) 3 juv.
- Seen on Road coming from Black
CCC rd/switch back & 1st gate %

- Collected a few flowers

11-August-2007

11

- moved camp & went to
Douglas, AZ

[12-August-2007]

ST

- arrived back @ camp

- noodled Would-be-rapids " 5 turtles

- saw three garter snakes
Cylindrophis blacknickered

3 Thamnophis nelsoni

- Adult blacktail rattle snake on G Tr.
b/t last switchback & floodplain camp

1 Crotalus molossus

[13-August-2007]

- noodled @ Estes Canyon, no friggin' turtles. However, we did not go up Cedar Canyon, which is where almost all of our captures have come.

- Set a net (L) in the Cement Tank @ in the Estes Canyon parking lot.

- Set 2 nets in Stateline tank. Stateline has risen dramatically.

- Set 3 nets in GST. ☺

GST	net = 2:30
DO = 11.8 mg/L	
pH = 8	
temp = 28°	

Black-necked garter snake

Saw a ~~Phrynosoma~~ eat a Bufo

tadpole. in Estes Canyon

- Found a Rana chiricahuensis in Estes Canyon
There were tons of Bufo & Hyla tadpoles
in Estes Canyon.

- Saw a family of Coadimundi, 2 adults

- 8 babies (Juv.) cross \Rightarrow Geronimo trail
near Hog Canyon

- Saw a Pituophis melanoleucus on
Geronimo trail near Battalion Rd.

- May have a slow leak in
the (R) rear wheel, will find out
tomorrow. (frogs)

- Counted 33 frogs @ Stateline

- Saw 2 montezuma quail in Estes

- Saw 6 Gamble's quail on Geron. trail

[14-August-2007]

- saw 10 Gamble's quail on Geronimo trail

- checked GST nets = ☺ ; met Trevor
(who works w/ Charlie Painter); he was interested
in Leopard frogs but did not remember where

Stakeline was. We flagged it for him.

He also confirmed that the Rana we saw in Estes Canyon was a leopard frog.

Checked Stakeline nets = 2 turtles; #¹¹⁰⁴ was a Recap last seen in '04 in Javelina Tank. Reset nets.

Had to go to Douglas, AZ, to get a tire fixed.

On the way back checked the net @ the Cement block by Estes parking lot.

It was marked #13-944; it is unclear whether this was 13.1 or 1 caught 1 time in BW Canyon. There was no ^{injuries} markings on the turtle that could confirm. Possible Interpop migrant from another study or it is possible this was a turtle from our pops. However, its MCL was ^{in the} 140's mm. Needs more investigation.

Reset Cement tank net.

Collected puddles along (Geronimotri) Set 4 nets (3L:1S) in GST; used:

chicken legs as bait. S8

[15-August-2007]

- checked nets @ GST = 1 turtle
- checked & reset Stakeline = 1 turtle
- Checked & reset net in cement tank @ Estes = 1 turtle
- ~~collected~~ Went into Bill McDonald's land. Hopped Sycamore canyon ~~to Lee Howard Spring~~. Hopped (or Howard Canyon about ³⁰⁰⁻⁵⁰⁰ m up.)

All the day effort in Sycamore. Caught in 4 turtles

- Collected core samples @ GST & ~~GST~~
- Set 4 nets (3L:1S) again but fed w/ chicken.

Saw a T. marcianus & ^a montezumae quail & ^a gambelii quail

[16-August-2007]

- checked & pulled GST: 4 nets = ~~1~~ ¹ turtle
- checked & pulled Stakeline = ~~1~~
- checked & pulled Estes PL = ~~0~~

hiked up Estes Canyon & up the Cedar branch. Caught 1 H the whole day. What was originally thought to be Cedar sheep is not. Found the real cedar sheep by following the black tubing up the canyon.

Went by AX to tell them we were going to set nets @ Cloversdale. Jennifer told me that Seth would meet me @ 9:00 @ Cloversdale spring. Set 10 nets in Clov. (6L:4S) w/chicken & sardines. Saw a ♂ P. melanoleucus (gopher snake) T. ornata ♂ McL = 118.5 (GTR) a Diamondback Rattlesnake (GTR)

~~Crotalus~~ ~~Crotal~~

27 Mexican mallards @ Clov.

17-August-2007

Woke up to find that front driver side tire was flat.

also found that my spare S9 isn't full size like my other tires. changed the tire & headed to Clov. Spring.

27 Mexican Mallards @ Clov. 10 nets baited w/ chicken & sardines yielded 4 turtles. all had huge growth lines

- Collected owl pellets from Clov.
- Re-mapped Clov.
- Took core samples from Clov.
DO = 13 mg/L
temp = 24°

- Collected aquatic plants from Clov.

- Met Seth & his family (wife & 3 kids)
- Breake (his daughter) had a turtle they found as a hatchling last year. It has huge growth lines & is near 87 mm. It has become a family pet "Wally" or "Walnut". They are debating releasing it. They

wanted it to be part of the study to encourage Breake to release it in Cloverdale Spring. They had a series of questions about turtles in general. I marked it at 230 in our Study. Did not get to talk to Seth about land access.

-headed to Douglas, AZ.

119-August-2007

-noodled Cool Pool area & pools around Turkey Fence.

124 m above Cool pool found a hatching. There are good deep pools by the Turkey Fence but no turtles.

120-August-2007

Noodled ~~the~~ $\frac{1}{2}$ of Cloverdale Canyon = 2 turtles (both recaps); one had a # sara (see pg. 111). Hiked to Mav. Spg.; noodled 500m

~~adult~~ ^{adult}
~~bottom~~ Mav. Spring. Found 11 turtles (most recaps). Faced back; a bit early b/c of ensuing rain.

Saw a Blacktail Rattlesnake.

4' 4" black-necked
white-tail Garter snakes.

-saw several deer along GTR & a few near Lion Creek

There are tons of tadpoles, Rana & Hyla Bufo punctatus & Hyla arenicola & a larger un. ID. species, in pools along Miller Canyon.

121-August-2007

Hiked to South Hole, saw a rock Rattlesnake & on Hello Hill (Crotalus lepidus). Noodled from S. Hole to intersection of Cloverdale Creek.

Then hiked directly to Mav. Spring. Noodled 200 m South of Mav. Spring. Would have gone farther but here was no H2O. Noodled 500 m beyond at the place we stopped on the previous day.

In all I think we flooded a 1km N of Maverick Spring. It was extremely hot w/ not a cloud in the sky. Saw a checkered garter snake in Miller Canyon, 8.2 montezuma quail by Javelina Tank, & a ringtail by BW Hole, & a S. virgatus

[22-August-2007]

Saw a Pituophis melanoleucus on Geronimo trail, ♂ T. ornata (MCL = 124.2) on Foster Draw Rd. It was feeding on a dead jackrabbit. Saw another P. melanoleucus on 338 by Cloverdale. There were 10 Turkey vultures flying around the spring. 1 Mexican Mallard flew from its nest. Caught ~~to~~ 2 turtles mating near the tree where we measure. Set 7 nets (4L:3S)

~~(R)~~ Saw Red tail hawk & roadrunner on Battallion.

Set 2 nets (2S) in Black CCC; ~~to~~ I (BDS) saw a head but was unsure if it was

a turtle or aquatic snake.

(S)
Set 1 net @ the base of Hunt Tank
Flooded pool @ 3-way dam = 7 turtles
Set 5 nets @ Buckhorn tank (2L:3S)
The two large are connected by a tyke ret.
Water levels have dropped @ Buckhorn
 H_2O level = 41.9 mm from the top of the
dam. Saw 2 roadrunners on way back
to camp.

• side note: They have completed grading the road in the NF & AZ \rightarrow NM
Headed to Lordsburg, NM to contact Justin Congdon. Saw a western diamondback (C. atrox) on #338. No luck in contacting ~~Justin~~ Congdon. Saw 3 C. atrox on the way back to camp (2 on 338, 1 on GTR), and a pronghorn - Rained like hell in the middle of the night. (4-5 hrs)

[23-August-2007]

(checked & reset Cloverdale spring nets)
= 2 turtles (7 nets)

- Collected some more aquatic plant, - checked & pulled Hunt Tank net (1) (6.2)
 - Sampled aquatic vegetation for Inverts: effort: 3:45, temp = 24.5
 - Checked & reset Black CCC nets = 2 turtles (2 nets)
 - checked & reset Hunt Tank net = 1 turtle (#166), a hatchling was in the net but escaped through the holes as I picked up the net. No luck in finding the hatchling. Noodled pools w/t Hunt Tank & 3-way dam & pools to the NE of 3-way; no turtles (5 nets)
 - checked & reset nets @ Buckhorn Tank = 45 turtles, all but 2 Juveniles were recaptures
 - inconclusive on how fyke net helped.
 - saw 2 roadrunners on Dead End Rd., 2 gopher snakes (P. melanoleucus), one dead, one alive on Battallion Rd., 1 mule deer @ Clou. Sp., & a Striped Skunk @ camp

24-August-2007

- Checked & pulled cloverdale Spring Q nets (7)
- Checked & pulled Black CCC nets (2)

- checked & pulled Buckhorn nets (5)
 - Noodled pools around 3-way dam.
 - Noodled 150 Km above & below Buckhorn Tank
 - Collected inverts
 - collected an aquatic plant from
- | |
|--------------------------|
| 6 core samples |
| 1 aquatic veg net - 3:04 |
| temp = 23° |
| DO = 11.5 |
| secchi = 29 |

- Buckhorn Foster (soil texture)
- Caught two turtles in draw on the way back from Buckhorn. Draw is unknown @ present time, needs investigation.
 - Saw 5 roadrunners on Battallion RD, 2 C. atratus Western diamondback rattlesnakes on 338, a whitetail deer on Dead End RD, 2 Juv. Gray Hawks on Battallion RD, 2 Red tail Hawks on Battallion, 2 American Kestrels, & 2 Jays, Kingbirds, Vultures everywhere
 - Found lost net on the opposite bank @ Buckhorn. (3 spp.)
 - Collected some flowers from the 3-way dam area. Hummingbird seen @ Buckhorn Tank

ID'd as Broad-tailed Hummingbird.

125-August-2007

-packed & moved camp. Went to Douglas, AZ. Rained as we left.

26-August-2007

- Set 2 nets in Clanton (1L:1s)
- Collected core samples (6) $\text{secchi} =$
- DO = 16 mg/L ; temp = 24.9 $\frac{20}{20}$
- saw Kingbirds, Roadrunners & loggerhead shrikes on GTR. Set up the rest of camp

27-August-2007

- Checked & reset Clanton Tank nets
- Collected aquatic net inverts; effort = 3:20 ^{reg.}
- Collected invert core samples (6) ^{reg.}
- DO = 12.7 mg/L ; temp = 23.5, $\text{secchi} = 26$

Hiked up to BW Hole, & noodled 5 turtles & set a net. Collected 6 core samples $\text{secchi} \leq 3$. about the time we got a

(63)
socchi reading it started to pour. We tried to wait it out under the Willow @ BW Hole but it was raining too hard & we decided to head back. out of order: noodled pine pool complex On the hike back noticed that some parts of the canyon were flowing. Water levels had increased since the hike up. Many small streams were flowing into the Would-Be-Rapids. However, flowing areas were no larger than 1-2 m in width.

Today, we saw 5 Whatalot along the GTR near GST, a juvenile red-tail hawk ^{on GTR}, 2 Juvenile Crotaphytus on the BW trail, & what looked like frog egg masses @ Stateline tank.

128-B August-2007 Clanton Tank

- checked & pulled net @ BW Hole. - Ø
- Noodled from BW Hole to base of Hello Hill, Below BW Hole to top part of Big Gravelly & from

the top of the section of stream bed that has deep pool & infant tree pool to the ~~the~~ top of Would-be-rapids. ~~Patrol~~ Caught 12 Hatchlings @ base of BW hole. 3 were recaptures.

It sprinkled on & off ~~for~~ from approx. 1330 to 1600. Heard zone tail Hawks, saw acorn woodpeckers, phainopepla's, & a

S. virgatus, a mouse was hanging out in the bed of my truck.

29-August-2007 most of Cottonwood Creek is flowing off - Saw an ~~uniden~~ ~~unidentifiable~~ snake on the GTR, AZ NM. It was olive-green w/a white throat patch. ~~that~~ looked like it extends to the ventral side of the snake. Went to Douglas, AZ for the night.

30-August-2007

- headed back to camp: saw 2 whitetail deer, 1 whitetail deer & a coachwhip (Masticophis flagellum) on the GTR.

Set 4 nets in Stateline tank; saw a blacktail cottontail on the hike to Stateline. On the drive

back, BPS saw a turtle in the road in the middle of a flooded Switchback. KSL found the turtle & another was recovered from a pool beside the GTR. This area was 200m from the base of Turtle Canyon (switchback after GST switchback)

31-August-2007

- PAS arrived in Camp ca. 0830
- checked & pulled Stateline nets = 2 turtles
- Noodled 600 m up Turtle Canyon = 2 turtles
- Noodled Would-be-Rapids & Big Corralley = several turtles
- saw a roadrunner on GTR, AZ near monument
- 2 Montezuma quail on BW trail, 3 black-necked gartersnakes, & 1 checkered garter snake in BW Puddles. 2 whitetail deer on GTR, AZ & one deer (un-id), on GTR, NM.

1 Sept 2007

Hiked up to Mud Hole, noodled for 1/2 hour, caught 3, set 2 small nets

hiked over the saddle into (S)
Cloverdale Creek, waded
down to Miller Canyon, downstream

caught several.

hiked over to Maverick-

Spring waded - ca. 300 m back
up toward Miller - caught several
hiked back over the saddle and
home - on trail from 815 - 730,
came back and passed out

collected blood from several turkeys

saw 2 black-tailed rattlesnakes
on top of each other on Saddle Hill

black phoebe at Mud Hole

saw a few sandersnakes

few mapped pool complexes to
where we waded.

Mud Hole full of larvae (feeding)
of some kind (water fleas?)

H. arenicola tadpoles everywhere
many just transformed or w/ legs

no *Bufo* tadpoles collected Mud hole
and *H. arenicola*
metamorph

[2 Sept. 2007]

reset

hiked up to Mud Hole, checked nets (empty)

hiked over Devil's Den veering slightly
westward into Miller Canyon, then
up to Reloncillo Tank, waded

along the way, catching a few in
steep run just before Reloncillo Tank

Reloncillo Tank was very small and
shallow - wading produced five immature
adults - 140-200 m flight respond
exp. - no action except one female

kept approaching sleeveless

hiked back down Miller Canyon to
Cloverdale Creek, wading along the
way, caught several, plenty of H2O
stopped wading ca. 250 m before
intersection of Miller/Cloverdale

hiked back up to Saddle, over to
Mud Hole, and home - exhausted

Brian got care and not samples from Mud Hole, including several specimens of jumping larvae
Ken mapped all that we rodded
saw a rock rattlesnake in Miller Canyon, 5 cactus wrens in Miller Canyon, set a good look at juvenile Zone-tailed Hawk by Fire Pool, dogs barking all night at camp

collected several more blood samples

3 Sept 2007 Ken rodded Mud Hole for 30 min.
hiked to Mud Hole, decided not to rodded, rode
nets and reset ca 11 AM
caught 3 adults (bld 2)
hiked over the saddle and
rodded from the saddle
to Saxon's - caught 1
(rodding now complete, Saxon's
to Miller for Cloredale)

saw blacktail rattlesnake (he
under a rock shelf at
base of Saxon's
rodded Saxon's - caught a
bunch of hatchlings, mostly
negative)
checked and pulled nets
ca 330 - caught 1 juv
hiked back to Blk Hole
a mule deer was nosing
around in height grass in
Blk Hole basin - grazing
several times before he saw us
after he saw us he remained
frozen in place for 30-60 min,
the whole time we were there
standing in the sun in the high
grass

rodded puddles at base of
Blk Hole, caught 7 hatchlings/juvs
collected dead juv from yesterday in Caves

Collected dead Rep about N
Savon's
tons of every dragonflies
on our nets and stakes in Mud Hole

[4 Sept - 2007]

-PAS Left camp in A.M.

-BDS, KSL Left for Douglas, AZ to
get ice + supplies

-Upon returning realized that we had
another flat tire. Put on spare.

Hiked ~~to the end~~ down the Cottonwood to
the end of the national forest. One lg.
pool before ~~you~~ entrance into private property.
Found 1 ♂ in this pool

Saw (at least) 3-4 turkey's w/ several juveniles
by the Cottonwood 0.2 mi from the turnoff
to the camp we performed X-rays @.

U. ornatus on the rockpiles by our camp.

& on the tree

[5 - Sept - 2007]

(7)

Left camp to get a new set of
tires. On 338 we saw 2 ~~♂~~ T. ornata
(both ♀; MCL = 103.4 & 124.6), a striped
whipsnake (Masticophis taeniatus), a
dead western diamondback, a dead pig,
& a dead Great Horned owl. We collected
the specimen which was bleeding from the
nostrils & back of skull. Later KSL skinned
& stuffed the specimen. (No brood patch)

Returning to camp: Set 8 nets (4♂:4♀)
in Cloverdale spring & 2 nets in GST.

W₂E₂ levels @ GST are very high, probably
due to rain ~~that~~ early that flooded the Cottonwood

Week ~~ago~~ ^{early} last week. The water extended

approx. 3^m past the bullrushes. There
were 17 Wild Turkey's in the field 0.2

miles ~~from~~ before the turnoff to our camp. This

group was composed of adults & juveniles.

Gray Hawk seen on the way to Cloverdale.

~~It began~~ there was an adult Red tail Hawk

~~Spotted Redleged Pigeon~~
Spoonbill
Spoonbill

@ Cloverdale Spring that had a broken left wing. It was nursing the wing near the shore of Cloverdale. Took pictures.

It began to rain early in the night. 9 Mexican Mallards & 1 Great Blue Heron

@ Cloverdale

Heron

[6-Sept-2007] 4 P.M.

0700 - checked GST nets b/c it rained all night long. ^{NETS WERE} ~~SOMEWHAT FLOODED~~ 2 turtles (1♀, 1♂). Collected blood from the ♂^{#2014}. Continued to rain until about noon. The sky remains VERY overcast, reminiscent of last year.

Went to check Cloverdale nets = 0 turtles. Pulled nets b/c of inclement weather.

Talked to a Border Patrol agent who said they are forecasting rain for the next two days. Something about a couple of

hurricanes in the Gulf. @ Clov. 6A

2 Mexican mallards & 1 great blue heron.

It remains to rain off and on.

Explored the canyon near the top of

the pass. Kinda of a small canyon

w/ lots of silt. The Cottonwood Creek

is flowing ~~now~~ ^{IT IS THE HIGHEST I HAVE SEEN}

~~IT ALL SUMMER/FALL.~~

~~WE MEASURED~~

the width, depth, & crude flow @ every switchback starting @ GST. We recorded this data in the GPS. Saw several whitetail deer throughout the day, all near the GTK.

The large group of turkeys (16-17) was

in the field next to our camp. They split

over the hill when they saw me.

(EDS)

out of order

It quit raining ~~approx~~ ^{approx} 1600.

[7-Sept-2007]

Both the Cottonwood Creek & BW Canyon have flowing H2O. We walked from Paul's camp to Pine Pool complex - 0.

We also noodled up Lost Fork. There was H₂O up Lost Fork but again = 0 turtles. We ~~had walked~~ hiked up Miller Canyon, AZ side & explored both forks, all of which was dry & very silty. All the silt seems to be discouraging H₂O accumulation in any spot. Then BDS dropped ESL off @ GST to map & set nets for a couple of hours, while BDS went to the A to talk to about land access. We ~~were~~ were allowed to explore Horse Pasture Tank area. Pulled GST after 1 1/2 hrs b/c it began to rain. = 0 turtles. Hung out w/ Charlie Painter, Matt Goode, Devin, & James. Saw a few ~~white tail~~ ^{white tail} in Miller Canyon & on the GTR, ~~white tail~~ & a blacktail, rattlesnake in Miller Canyon & near the cement tanks.

10-9 Sept. 2007

(Cottonwood Creek on AZ side is flowing ~~especially~~ especially when H₂O levels drop) from Whitmire Canyon. Using the Clinton Trail you can also access Salt Canyon. Saw 8 turkeys

than on 6 - Sept - 2007. Saw 2 at ~~waterfall~~
on GTR.

10- Sept - 2007

Cottonwood Creek is ~~not~~ not flowing nearly as heavy as yesterday, especially on the AZ side. AZ side has only small interrupted flow. NM side still has high H₂O levels but flow has dropped. AZ side has shallow H₂O.

- Set nets @ Roadside Tank (25:11)
- Set nets @ Horseshoe (15)
- Set nets @ Clinton (1m:1s:1l)
- Tried to set nets @ Stateline but people were camping there.
- Hiked to Whitmire Canyon via the Clinton Trail near GST. Whitmire canyon was flowing. We noodled approx. 1.5 km of the canyon. Found 2 turtles, a juv. & hatchling. I think the area warrants noodling again,

in the ~~switchback~~ field next to our camp,
all were adults. Saw a doe & a fawn
drinking from the last flowing switchback.

[11-Sept. 2007]

- Checked & reset Roadside Tank nets (3)
Actually caught 2 turtles (♀♂?)
Collected blood from ♂.
- Checked & reset Horseshoe tank ~ 2 (22:23)
- Set 4 nets in Stateline, saw the guys who were camping there on the GTP. ~~Stated~~ Exchanged pleasantries & were on our way.
- Checked & reset 3 nets in Clinton tank.
- Hiked to Big Hole to see if it had ↑ H₂O level. It had. The tank is completely full. H₂O level was 13 cm from top of dam.
Hooded Pools at base ~ about .60 m below the dam. ~ 5 hatchlings (3 recaps). The *H. ornatus* ^{S. jarrovii} ♀ that hangs out on the dam was seen. When we tried to catch it, it disappeared.

into the H₂O. We thought that we had knocked it off into the H₂O & that it might be in some type of danger. But, then it was observed to be on the wall, but under the water. It calmly held its breath under water for at least 1.5 min. (Took pictures) which time we decided to catch it again so that we could be sure of its identification. But it jumped off the wall underwater & swam for at least 5-10 inches & jumped back onto the wall, still underwater, and ran about 3 ft away & then exited the H₂O. It promptly ran on the top of the dam into a stack of ~~the~~ debris that ~~was~~ had accumulated along the ~~the~~ dam. We could not find it nor did we see it again. On our hike back we ^{observed} ~~saw~~ a 1y. Sonoran whipsnake trying to ingest a rodent of some kind. It fled when we got too close, but still took its prey. There was a dead duck

400 feet. 5 Turkey vultures were feeding on near the Pine pool complex.

Also saw another Sonoran whipsnake on the trail, a banded rock rattlesnake ♂ Bw Hole, a juvenile Short-horned Lizard Φ on the trail to Clanton Tank, 23 Montezuma quail (2 adults, 1 juv.) on Bw trail, + 9 Turkeys in the field east of our camp.

out of order: hiked along canyon & the base of

Stateline. Very few pools, + they looked like they would dry w/in a week.

12-Sept-2007

Saw 21 Turkeys near the GTR & the exit to the turnout ^{to} our camp. Checked Stateline = 2 ; Reset nets

checked Horseshoe = 2 ; reset net (1)

checked Roadside = 2 ; reset nets (3)
Noodled

Hiked up Estes Canyon to Cedar Tank, all efforts = 1 Hatchling. Estes Canyon had a flowing almost ^{small} stream going underground. The canyon proper has tons of silt

but side canyons do not have nearly as much. Saw a coatimundi & a fawn in Estes Canyon. ~~at~~ GPS the spot where I believe the Leopard frog was caught.

Checked Clinton = 2 ; reset nets (3)

Drove to RF to get burger. On 338 saw a gray hawk 3 bats, 2 owls, several mouse-like rodents, + an adult Western rattlesnake (C. viridis)

13-Sept-2007

- checked & reset Roadside Tank nets ⁽³⁾ = 2 turtles

- checked & pulled Horseshoe Tank net. Pulled B/C someone was camping next to the tank

- checked & reset Stateline Tank nets ⁽⁴⁾ = 2 turtles

- Hiked to Bw Hole; 3 canyon tree frogs &

3 Sceloporis jarrovi; Saw what we believed to be the Sceloporis that went underwater.

on the 14th. Saw ^{the same} ~~or similar~~ behavior, as BDS approached, it ran just underneath the waters surface & stayed there for 80 sec. It then ran underneath the debris pile again.

- Hiked on to Javelina Tank. It is also larger in ST. We seized 2 turtles & measured a third. One turtle #1043 was a ♂ & blood was collected from him. KSL mapped.

out of order: BW Hole is more full today. The water was 2 cm from the top of the dam.

Reset Clinton (3) nets

114-Sept-2007

- Saw a Fox ca. 0900 on #GTR.
 - checked & pulled nets @ Roadside tank = 1 turtle
~~that~~ it was a ♂ & blood was collected.
 - checked & pulled nets @ Stateline = 1 turtle
 - checked & pulled nets @ Clinton = 0
- Hiked to BW Hole to observe the aquatic lizard behavior. Another Sceloporus used the H₂O as refuge for approx. 20 sec, while another ~~very~~ hesitated but eventually jumped & swam away rather than clinging to the wall. There is no more flow in BW Canyon

or the Cottonwood creek. BW Canyon is now a series of large shallow pools, the same can be said for the Cottonwood.
- Saw a Red-tail Hawk, several turkeys by the X-ray camp, & 5 turkeys in the field east of our camp.

1 Sept. 17 2007

- Set 2 nets in Roadside
- set 2 nets in a tank near ~~that~~ Bill McDonald's house
- returned to camp to find that our camp has been shredded, our tent is broke and all of our tubs have been opened and all the food has been eaten and thrown about. There was bear shit in the middle of our camp. There were bite marks on many items, but nothing real important was missing or damaged. Went back to Douglas, AZ to buy a new tent & some more food

118- Sept -2007

- checked & reset nets @ Bill McDonald's Stock tank = 0 ; added 1L 4/1M net; total of 4 nets (22.25:1m:1c)
- checked & reset nets @ Roadside tank = 0 added 2 more nets = 4 nets total
- Set up a new camp, we are now camped @ the same place where we camped in May. Went on a mission to find Horse Pasture Tank. Hiked up a road for about 45 min & 2KM. after going the wrong direction & following that direction to the top of the mtn, & then hiking down another side. We finally found Horse Pasture tank. It looks like a really nice tank. There was no aquatic vegetation except for duckweed. We caught 7 turtles by hand & slight. The substrate seemed to be mostly rock, & it might be hard to set nets. However, it does look like it would be just as permanent as Buckhorn Tank. Collected blood from only ♂ #1226.

119- Sept- 2007 (4) PZ

- checked & pulled roadside tank nets = 8 turtles (4)
- Checked & pulled nets in McDonald's tank = 0 turtles
- ~~Handed~~ Noodled 3.5 linear KM of Sycamore Canyon & found no turtles.
- Set 4 nets in Black ccc
- Set 4 nets in Buckhorn tank. Caught 1 turtle by slight @ Buckhorn. The tank is continuous for @ least 150m & has merged into the pools. There is no sandbar, just continuous water.
- Saw several newly metamorphosed *Bufo punctatus* in Sycamore Canyon. Saw 2 whitetail on GRP near Maxwell's ranch, AZ & 2 whitetail on Dead End Rd. on the way back from Buckhorn. ♀ Saw 2 monikers & quail near buckhorn.

120-Sept-2007

(4)

H.

- Checked & reset Black CCC = 10 turtles
- checked & reset Buckhorn ⁽⁴⁾ = 45 turtles
set a large net below Buckhorn in a lrg. pool.
- Set 1 net near Hunt tank & 3 nets
near 3-way dam. Noodled @ 3-way dam area
- Noodled 4 turtles from Foster Draw.

It rained from about ~730 - 1300.

Area around Hunt Tank & 3-way dam has
a lot of water. However, Hunt Tank is dry &
we have come to the conclusion that it leaks.

Saw a Red-tail Hawk, & several Mexican
walkers @ Buckhorn

121-Sept-2007

H2O 6cm from top of dam

(4)

- checked & pulled Black CCC nets = 8 turtles
- checked & pulled 3 way dam nets = 1 turtle
- checked & pulled Hunt Tank nets = 3 turtles
- checked & pulled Buckhorn nets = ⁽⁵⁾ many turtles
- Noodled about 150m above & below
Buckhorn, but the high H2O makes it
extremely difficult. We then went on

a search for Foster Draw tank. Last
time we could not find the road, but this
time we stumbled into it. We took the
rd as far as my truck would go &
then proceeded on foot. There is a pretty
good trail that leads directly to the tank.
The table is completely full. (as is every other
tank). We caught one turtle by sight. Interestingly,
this tank is only 3.5 Km from Bd Hole & may
serve as a midway point b/t Bd Hole & Buckhorn.
This tank is also somewhat close to Mav. spr.

Saw a Big Bend patchnose (Salvadora deserticola),
on the trail to Foster Draw tank, & 4
Wild turkeys on the GTR, & a great blue
heron @ Foster Draw tank

123-Sept-2007

Set 4 nets (2M:2S) @ Foster Draw tank
Saw a Gray Hawk on GTR, AZ side
Cottonwood Creek was flowing on AZ side
but not on NM side.

24 Sept. 2007

- checked & reset nets @ Foster Draw
Tank = 6 turtles
- Dropped off papers to Meira Gault.
- Set 2 nets @ Horse Pasture Tank,
would have set more but the substrate
is almost purely rock. Tomorrow we are
going to try to rig ~~up~~ some nets ~~up~~ against
the dam. Despite no nets we
caught 3 turtles by sight & hand

Saw a ♂ Western diamondback & a
gopher snake on the way back from
HPT. Collected bug samples & water

chemistry @ roadside tank & state line
tank. Saw 6 turkeys by the entrance to
Blackccc turnout.

25 Sept. 2007

- checked & reset nets @ Horse Pasture tank
added 2 nets, total nets = 4 (3s:1m)
- Collected bugs & water chemistry data

TS

crossing

Saw 4 coyotes ~~on~~ Battalions, Saw 6
montezuma quail on the way to HPT.

Set 4L nets @ Cloverdale Spring

- checked & reset nets @ Foster Draw tank

Caught 1 turtle, but he was an interpop
^{#174} migrant from SW Canyon. Saw 3 red tail Hawks
and a vermillion flycatcher @ Clo. Saw a hummingbird
Merionetos @ HPT, & *S. clarkii* on the way back from
Foster draw tank.

126-Sept-2007

- checked & reset 4 nets @ HPT. = 23 turtles

- checked & reset 4 nets @ Clo. spr. = 1 turtle

- checked & reset 4 nets @ Foster Draw Tank = 1 turtle

- Saw a dead western rattlesnake on Battalions,
6 Mexican mallards @ Clo., & 3 Mexican mallards @
FDT, 1 gopher snake @ Clo. spr.

Collected blood from 2 turtles @ HPT & 1 @ clo.

Collected bugs & water chemistry data @ clo. spr.

2

27 - Sept - 2007

- checked & reset 4 nets @ HPT
- Saw 19 mule deer on the way to HPT
- checked & reset 4 nets @ Clov. Spr.
- checked & reset 4 nets @ FDT
- collected bugs & water chemistry data @ GST. Ken mapped GST.

28 - Sept - 2007

- Saw 15-20 Turkey's near the X-ray camp.
- checked & pulled 4 nets @ HPT, FDT, & Cloverdale spring. Caught an interpop migrant @ FDT from BW Hole. #49.2 marked as a hatchling in '06. It had great clear growth lines. Age corresponded. Explored area behind FDT, Ken mapped but no turtles. There is a lot of H₂O back there but it doesn't look great for turtles, not a lot of hiding places.

29 - Sept - 2007

- rained from about 4:00 - 6:30 p.m. off & on throughout night

1) - Oct - 2007

- 76
- set 2 nets BW Hole (2M), set 2 small nets in Javelina Tank. Noodled ~~JT~~ JT w/ no luck. Noodled Souris canyon & approx. 300-400m of Cloverdale Canyon. Saw *S. jacchus*, *B. a. ornatus*,
- Rained like hell till about started to rain @ 6:15 p.m. midnight
- Saw 92 Turkey Vultures fly over camp in a big group.
- BW Hole is still full, & BW canyon still has a relatively low amount of H₂O

12 - Oct - 2007

- Saw 5 illegal immigrants in BW Canyon near Paul's Camp. Checked & reset 2 nets @ BW Hole 7 turtles
- checked & reset 2 nets in Javelina Tank 7 turtles
 - Noodled from Mav.spr. → 72.0 m. North.
 - BW Hole looks like it has raised its H₂O level from last night's rain.

[3-Oct. 2007]

Checked & pulled BW Hole nets ⁽²⁾ = 15 turtles

Checked & pulled Javelina Tank nets ⁽²⁾ = ~~15~~ 7 turtles

Saw 2 whitetail deer; 1 near Buckhorn

& the other on Hello Hill. Also saw a
blacktail rattle snake ^{new CTR} & 26-31 Mexican
mallards @ Buckhorn.

Collected bugs & water chemistry
data @ Buckhorn & Clew Hob Tanks

Started to Rain about 5:30

[4-Oct. 2007]

- Collected Bugs & H₂O chemistry data

@ Javelina Tank.

- Hiked to Peloncillo Tank, noodled
for 1/2 hr.; caught 2 turtles (both recp)

- Noodled Canyon below Peloncillo Tank →

Möller Canyon → 350 m beyond South
Hole. Peloncillo Tank is fuller than last
time

Saw 10-12 montezuma quail, *S. jarrovii* (♂)

S. Hole, & a banded rock rattle snake on

the side of Mt. doom. Started to

rain @ 5:00. Stopped by 6:30.

Started again @ 7:30, ended about 9:00

[5-Oct-2007]

collected Bugs & H₂O chem. data

@ BW Hole. Mapped & noodled
from base of BW Hole → base

of World-De-Rapids. All this ^{or} second
week piece has been no sign of
the Zone-tail Hawks

[7-Oct-2007]

Saw a Blacktail rattle snake on GTR, AZ

Set 2L nets in GST

[8-Oct-2007]

checked & pulled GST = ^{3 turtles} took blood from 2 turtles

- Set 2L Statoline nets, set 4 nets ^(2L:2S)

in Swahili tank. Set 2L in GST.

→ noodled 900 m up Turtle Canyon; very little
H₂O, no turtles, pools had temp of 13°

[9-Oct. 2007]

- checked & reset 2L nets in GST
- checked & pulled nets (2L) from stateline
- Saw a Blacktail rattlesnake \approx 150M below Mormon Pass heading towards AZ.

Set 4 nets (2L:2s) in Horse Pasture ^{Tan} Tank

Set 3 L nets in Cloverdale spring.

Saw 2 Mexican Mallards & 2 American Coots

@ Clov. Spr. 4-8-9 Javelinas or feral pigs.
Reset Swahili

[10-Oct. 2007]

- checked & reset GST (2L)
- checked & reset HPT (2L:2s); cloverdale spring (3L); & Swahili Tank (2L:2s)
- saw a gophersnake on Battatlon, GREAT Blue heron & various waterfowl @ Clov. spr.

[11-Oct. 2007] - collected Wilson's warbler @ Clov. spr. cause of death unknown, several

checked & reset nets @ GST, Clov. spr., Swahili, & HPT.

Collected blood from #3008 from HPT. 5 Mexican mallards

@ Clov. spr., a Swainson's & gray hawk along Battatlon.

When we pulled into camp a black bear cap was rooting through our trash. Also saw 20-22 Turkey's near Blackee turnoff.

[12-Oct. 2007]

1 turtle, 2 turtles

- checked & Reset GST (2L) &
- checked & pulled Swahili TANK, Cloverdale spring, & Horse Pasture Tank. @ Horse Pasture Tank collapsed
- a submerged net caused minor turtle damage. The turtle was not in good shape when the net was collected. But w/ aid from us, it recovered nicely & walked back into the water under its own power.

- Saw 2 American Coots & a Great Blue heron, ~~heron~~ @ Cloverdale Spring & a black phoebe
- Saw a Blacktail rattlesnake on the path to Swahili tank.
- Met interesting fellow named Lonnie on the GTR. Noodled Clinton Draw around the edge of the NF. = 2

[13-Oct. 2007]

Checked GST nets \approx 8", saw 10-15 gambel's quail & 20-25 montezuma quail