



Desert Tortoise Head Starting



**Environmental Management
Edwards AFB**

In the Beginning....





So what is head starting ?







Goals

- Increase survivorship
- Increase overall numbers of tortoises
- Delisting

Research

- Survivability
- Growth Rates
- Disease Transfer
- Release Locations

What is needed for head starting ?





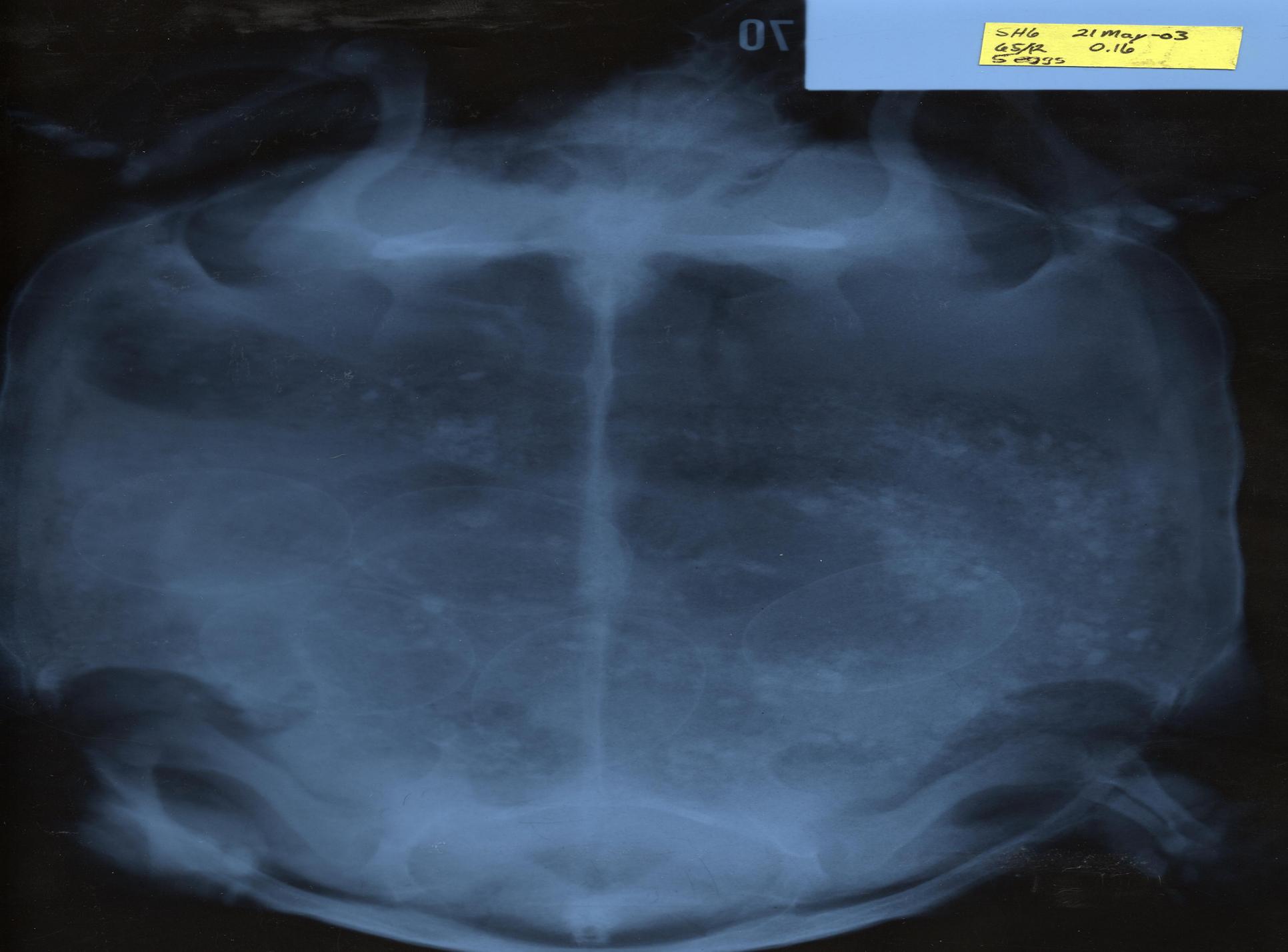






70

SH6 21 May 03
GSR 0.16
5 eggs















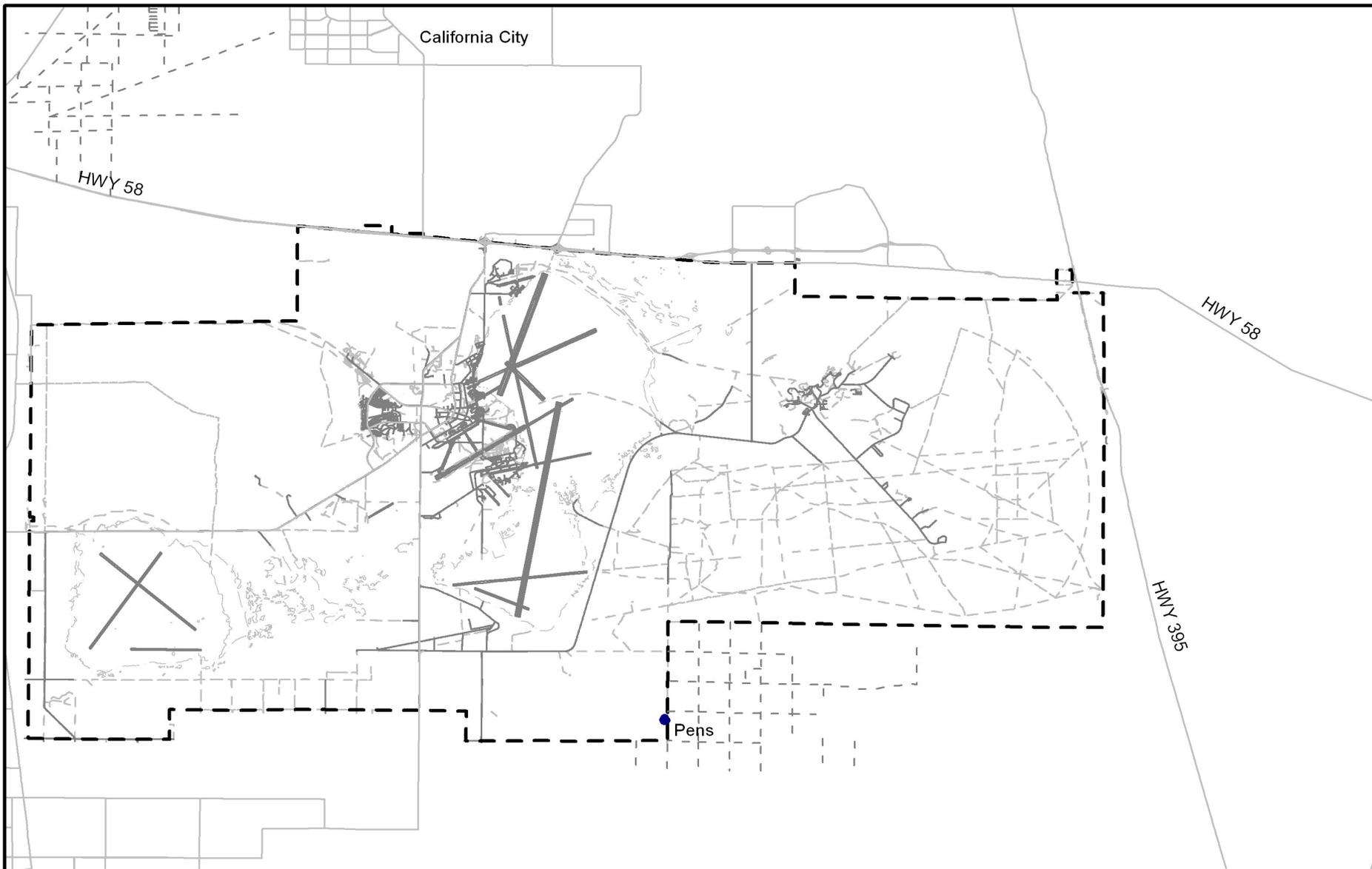
Researchers





Why Edwards AFB was
selected?





California City

HWY 58

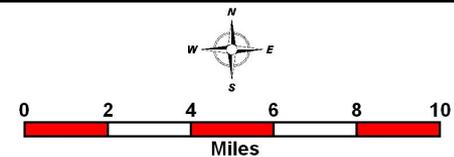
HWY 58

HWY 395

Pens



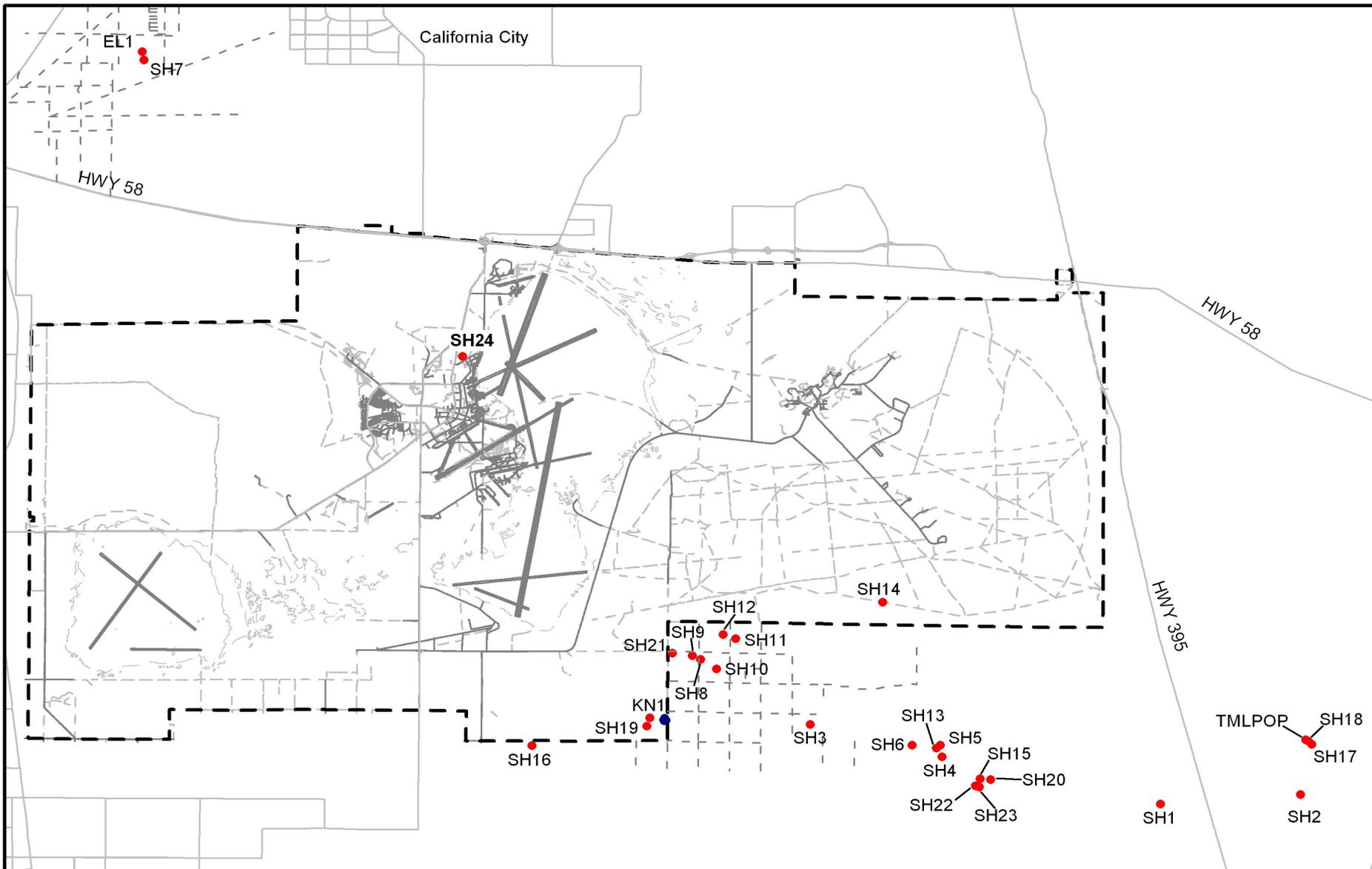
Desert Tortoise Data



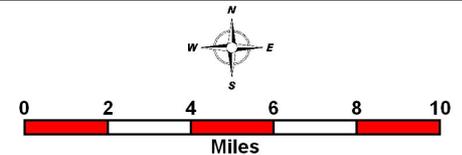
What is Going On at
Edwards AFB?

Organizations

- USFWS
- UCLA
- California State University, Dominguez Hills
- Fort Irwin (Army)
- Edwards (AFB)



Desert Tortoise Data



Baby Tortoises to Date

- 28 animals in 2003
- Over 40 in 2004 so far.
- 6 Released



Desert Tortoise Reproduction and Genetic Study









**U.S.
FISH & WILDLIFE
SERVICE**



DEPARTMENT OF THE INTERIOR

RESOURCES AGENCY

CALIFORNIA

DEPARTMENT
FISH & GAME



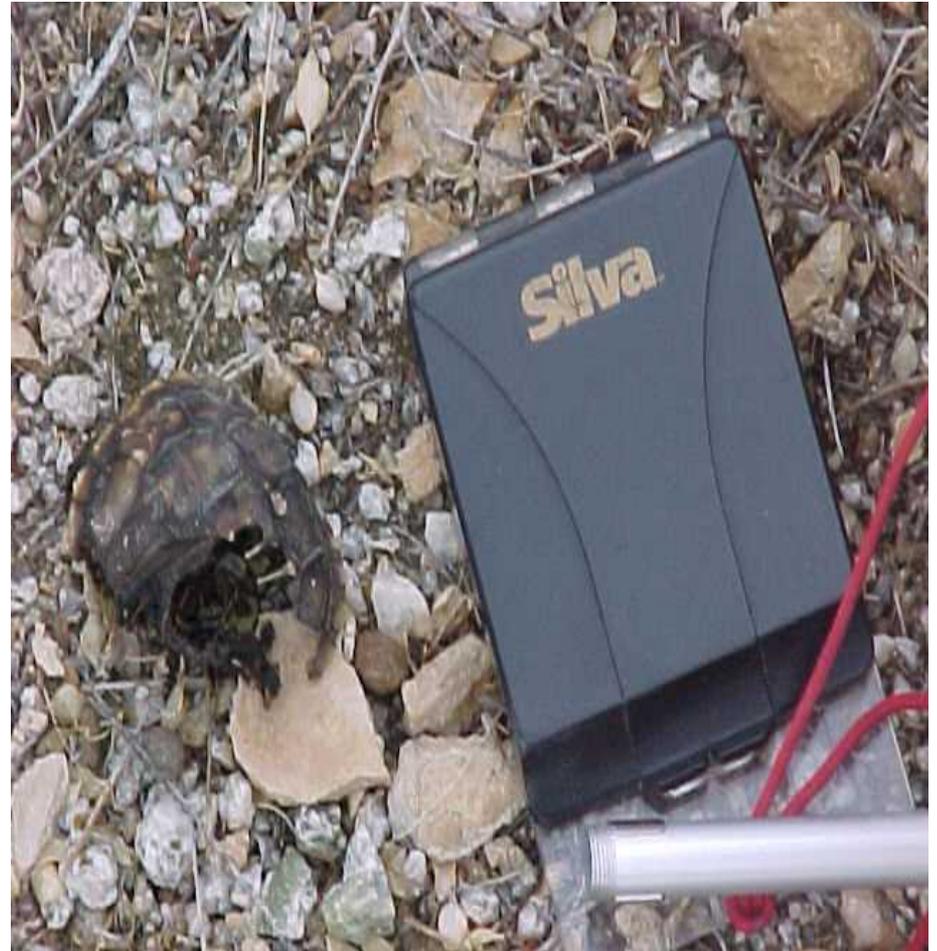
What must be included in the permit applications ?

- Who?
- What ?
- Where?
- Why?
- When?
- How?
- Etc.

What are we
doing to recover
the tortoise ?

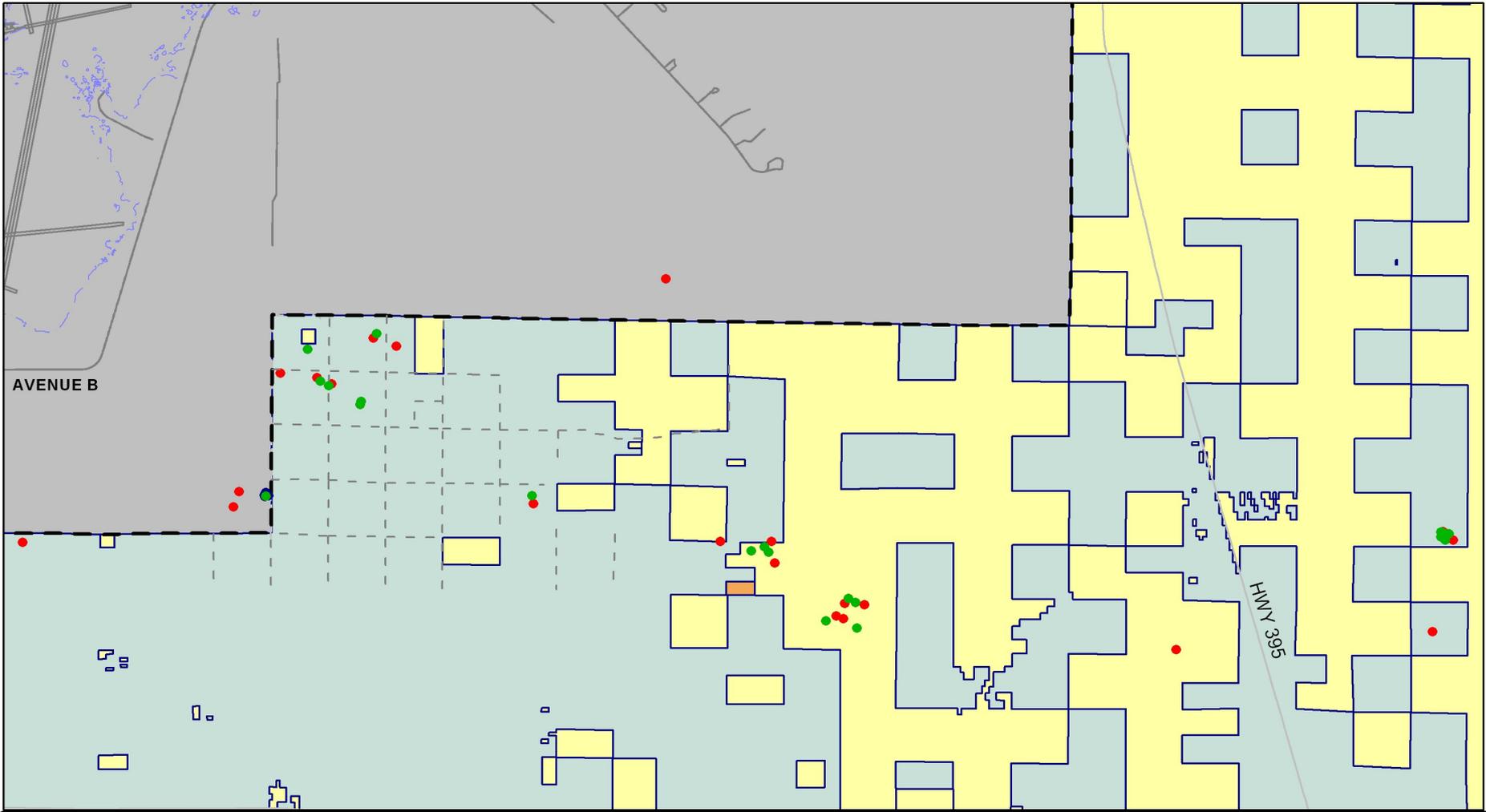
Long term commitment

- Hatchlings are held in pens up to 7 years.
- After release, several years of monitoring is required to assess survival rate.



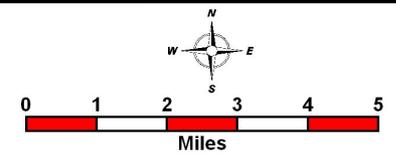
Funding

- Long term funding is needed.



Legend

- | | | | | | | | |
|---|---------------|---|---------------------------------|--|--------------|---|----------|
|  | Base Boundary |  | Male Desert Tortoise Location |  | State Land |  | BLM Land |
|  | Dry Lake |  | Quarantine Pens |  | Private Land |  | DOD Land |
|  | New_Roads |  | Female Desert Tortoise Location | | | | |





abcdefghijklmnopqrstuvwxyz

Choices

SIGN LANGUAGE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60
61 62 63 64 65 66 67 68 69 70 71 72 73 74 75

December 2003

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31					



23
LEGIFES

The End

