

TABLE I  
RADIO-TAGGED GRIZZLIES  
1961-1965

| Bear No. | Sex and age                     | Tracking Dates                                           | Animal Tracking Days            | Remarks                                                                                                                                                                                                        |
|----------|---------------------------------|----------------------------------------------------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6        | 5-year old female               | 1964 7/10-8/5                                            | 18                              | First cub captured and marked. Daughter of #7. Radio removed after 18 days.                                                                                                                                    |
| 7        | Adult female                    | 1963 7/26-8/12<br>9/2-9/27                               | 18<br><u>26</u><br>44           | Grizzly removed loose fitting collar. Recovered collar August 10. Tracked to fall range, last signal weak.                                                                                                     |
| 14       | Adult male                      | 1964 9/5-10/15                                           | 41                              | Large bear weighing 890 lbs. Would go 1000 lbs. by hibernation time. Transmitter functioning on last date but tracking discontinued.                                                                           |
| 34       | Adult female                    | 1964 7/23-8/25                                           | 34                              | Sow with 2 yearlings. Left summer range for fall range with transmitter still functioning.                                                                                                                     |
| 37       | Immature male                   | 1961 9/30-9/31<br>1962 10/4-10/18                        | 1<br><u>15</u><br>16            | Bear moved beyond range of receivers, collar missing when retrapped. Transmitter functioning, bear lost journeying to hibernation area. Shot by hunter in spring of '63.                                       |
| 40       | 3-year old female<br>4-year old | 1961 9/22-10/22<br>1962 9/8-9/17                         | 32<br>10                        | Transmitter still functioning, receiver range inadequate. Bear hibernated. Transmitter no longer functioning, but still on bear. Removed by bear during hibernation.                                           |
|          | 5-year old                      | 1963 8/7-9/4                                             | 29                              | Transmitter no longer functioning but still on bear at time of hibernation.                                                                                                                                    |
|          | 6-year old                      | 1964 9/4-11/9                                            | 67                              | Tracked to hibernation den with cub, transmitter still functioning. Bear's first litter.                                                                                                                       |
|          | 7-year old female               | 1965 6/28-9/6<br>9/10-10/30<br>10/13-11/16<br>9/10-10/30 | 71<br><u>35</u><br>244          | Removed 1964 collar and reinstrumented with a temperature sensitive transmitter. Reinstrumented and tracked to den, transmitter functioning after 11/16. <i>Extended life of signal, rec'd 10-15/min</i>       |
| 75       | Old Adult female                | 1963 8/16-9/28                                           | 44                              | Bear immobilized and transmitter removed, still functioning well.                                                                                                                                              |
| 76       | Young adult male                | 1963 8/26-9/22                                           | 28                              | Sow with two yearlings. Lost signal, bear traveling, transmitter functioning.                                                                                                                                  |
| 96       | Young adult female              | 1962 8/17-8/19<br>1963 7/12-7/17                         | 2<br><u>6</u><br>8              | Lost signal, bear traveled to distant portion of park. No mobile tracking units. Sow with cubs. Transmitter battery pack shorted by water.                                                                     |
| 150      | Adult female                    | 1963 10/6-11/3<br>1964 8/11-11/4                         | 29<br><u>4</u><br>33            | Sow with cubs. Transmitter still functioning, bear hibernated, lost during hibernation trek. Sow with yearlings. Trouble instrumenting at night, bear lost collar.                                             |
| 158      | Male yearling                   | 1964 10/11-11/9<br>1966 8/20-9/8                         | 30                              | Yearling with sow and 2 yearling littermates. Tracked to hibernation den, transmitter still functioning. <i>lost bear</i>                                                                                      |
| 164      |                                 | 1963 10/26-11/5                                          | 11                              | Transmitter still functioning, bear hibernated, den located.                                                                                                                                                   |
| 170      | Adult female                    | 1964 7/3-7/13                                            | 11                              | Sow with two cubs tracked in release and homing experiment. Transmitter removed after 11 days.                                                                                                                 |
| 188      | Weaned male yearling            | 1965 10/2-10/20                                          | 19                              | Bear lost while moving to hibernation area. Transmitter still functioning. Checked for signal over 40 day period.                                                                                              |
| 194      | Orphan yearling male            | 1964 10/16-10/18<br>1965 9/16-10/15                      | 3<br><u>31</u><br>34            | Lost track of animal while following others. Transmitter recovered in spring. Dropped collar was located & retrieved.                                                                                          |
| 202      | Weaned male yearling            | 1965 9/17-9/24<br>10/5-11/21<br>1966 9/24-7/15           | 8<br><u>47</u><br>55<br>8/13-11 | Tracked to hibernation den. Transmitter functioning when monitoring was stopped. <i>instrumented with reg. transmitter 6-2 min. instrumented with extender - 6-16 hibernation - 18 hr 10 sec, instrumented</i> |
| 206      | Large adult male                | 1965 8/2-8/5                                             | 4                               | Bear lost collar. Transmitter retrieved 8/17                                                                                                                                                                   |
| 210      | Large adult male                | 1965 8/26-9/24                                           | 30                              | Bear moved far and fast to fall range. Unable to continue tracking.                                                                                                                                            |

Total - 733 Tracking days

18 different grizzlies  
29 instrumentings

120 old sow 1966 10/25-

## WEEK WORK PLAN

Aug. 9-14

### Grizzly Work

1. Capturing bears, baiting --- Bob, Jay, Ralph
2. Processing grizzlies --- Bob, Jay, Ralph
3. Census and notes --- Bob
4. ~~Make head cast of #6 --- Pick up 25 lbs plaster of paris from Duncan's, W.Y.  
(Wed. Aug. 11) Phone Tues. John & others.~~

### Editing Movie

1. Editing --- John and Gene
2. Photography --- John and Gene

### Elk Radiotracking and Elk Marking --- John and Jay

- ✓ 1. Track Norris elk for 24 hrs. - movement, activity pattern, food habits, behavior, assoc. with other animals.
- ✓ 2. Record data on marked elk gathered week of Aug. 2-6. --- Jay and Derek  
Charlie & Ralph

### Grizzly Radiotracking --- Frank and Bob

1. Track Marion- move in and check temperatures with thermometer against telemetered data.
2. Move in on #206- locate daytime retreat.

Choice of tracking assignments --- Jack and Lance

Radiotracking --- Bob, Frank, Ralph, and others

### Biotelemetry Work --- Frank and others

1. Assemble Hygain antenna after picking up at Gardiner
- ✓ 2. Get antenna seating for Ford from Fuller (W.Y.)
- ✓ 3. Check bear signs from lab. morning and evening and at other times
4. Make up collar- wax waterproofing --- Lance, Jay, Derek

### Care of Birds

1. Jay, Derek, Ralph, Charlie
2. Hunt for Great Gray Owl nest --- Jack and Lance

### Correspondence and Misc. Jobs

1. John, Carol --- corres.

Work Plan- Aug. 9-14- Continued

Correspondence and Misc. Jobs- continued

2. Pick up maps at Mammoth- Park maps and quads

Checking Vehicles, construction, etc.

1. Bob and Jay, Ralph
2. Assemble equipment on hill for Field Station- mast, ropes, antenna

Capture grizzly at Old Faithful

1. Bob, John - others- depends on results of tracking earlier in week- may postpone.

Care of Laboratory

1. Checking on Food --- Frank and Bob
2. Cleanup --- Jay, Derek, Charlie, Ralph --- all hands

Elk Marking --- Charlie and Derek

Swan Pass or Pebble Creek - 3 day.

7.C.6.

THINGS TO DO

Check den of #158 - photograph

Measure & photograph den located while tracking #40 in summer of 1964

~~Put up field station antenna~~

~~Make up collar for Ingy~~

~~Instrument Ingy~~ *Scarface II*

Instrument grizzly #7 (remove old collar)

~~Check over citizen's band equipment~~

~~Get base for seating antenna mast constructed on Ford~~

~~Move in on Marion - check temp. from transmitter and compare with ambient temp.  
at jump location~~

~~Test bird transmitter for distance~~

~~Fix up pen inside lab enclosure for burrowing owls and other birds~~

~~List sound recordings needed for film~~

~~Make recordings~~

~~Hunt for nest of Great Gray owl~~

~~Fix box for sorting slides~~

~~Put up shelf in back bedroom & office~~

~~Fix cabin for occupancy~~

Make holders for correspondence

~~Make typing table or table for recorder~~

~~Alter and put together new quad antenna~~

~~Assemble new Hygain 3-element antenna~~

*Make holder for receivers*

*Put thermista on outside of Temp. sensitive transmitter*

~~Run distance test on EK 6~~

~~Purchase material for setting up 2 antennas~~

~~rock for fishing rods~~

~~sails for al. antenna tubing~~

Run tests on person with Body temp. transmitter  
Get vials from Joel

Write F & W. Ser. Bird trans.

~~Send Joel's bill into clinic.~~

~~Check sense antenna on newest receiver~~

Billert on Radiotracking reports

Journal

Papers for Sam Scriven

## Radio Tagged Grizzlies - 1966

| <u>Bear No.</u> | <u>Sex and Age</u>      | <u>Tracking Dates</u>                | <u>Animal Tracking Days</u> | <u>No. of Days Located or Sighted</u> | <u>Remarks</u>                                                                                                                             |
|-----------------|-------------------------|--------------------------------------|-----------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 40              | Female<br>8 yrs.<br>old | 9/1-10/29<br>10/30-11/15             | 59<br>17 (76)               | <del>42</del> 39                      | Removed 1965 collar and reinstrumented. Signal failed. Reinstrumented, tracked to den with cubs. Transmitter still functioning after 11/15 |
| 120             | Female<br>very old      | 10/25-10/29                          | 4                           | 4                                     | Lost signal after 10/29                                                                                                                    |
| 158             | Male<br>3 yrs.<br>old   | 8/20-9/8                             | 20                          | 20                                    | Lost signal after 9/8                                                                                                                      |
| 202             | Male<br>2 yrs.<br>old   | 6/24-7/16<br>8/13-9/10<br>9/10-11/15 | 22<br>28<br>56 (106)        | <del>85</del> 79                      | Grizzly removed collar reinstrumented, tracked to den, transmitter still functioning                                                       |
| 216             | <sup>cub</sup> Male     | 10/30-10/30                          | 1                           | 1                                     | The 133 lb. Male removed transmitter on the first day.                                                                                     |
|                 |                         |                                      | <u>207</u>                  | <u>152</u>                            |                                                                                                                                            |

## JOBS

Call REA at Gardiner and pick up HyGain antenna  
Assemble Antenna  
Put up field station using telescoping masts and guy lines  
Omit rotator  
Get antenna seating for Red Ford at Fuller's, West Yellowstone  
25 lbs. Plaster of Paris at Duncan's, Charge to University  
Clear Krylon  
Move in on Marion. Carry thermometer and check temps. against telemetered temp.  
Move in on #206  
Check sig. and bearing from Base each morning, evening, and record. Check periodically throughout day and record (all hands)  
Hunt for Great Gray Owl Nest  
Test new quad antenna  
Closely follow- Norris elk for 24 hrs. and make observations  
Coat battery pack in parowax  
Make up collars-- wax-coated battery packs.  
Take Frank Goodyear, Allison and friend to see grizzlies Sunday evening.  
Make fishing rod rack  
Spray with Krylon  
Wax batteries and between batteries  
Wrap with tape  
Be sure battery ends are sealed  
  
Red wire

## JOBS TO DO

- ✓ Instrument two different grizzlies with extended life transmitters.
- ✓ Tune and check out new quad and antenna
- ✓ Assemble three element antenna and put up field station
- ✓ Run tests on body temperature transmitters.
- ✓ Check out on use of movie camera
- ✓ Write notes on location of collar from grizzly #206 and notes with drawing of unknown grizzly.
- ✓ Write Joel concerning purchase of oscilloscope for use in permanently recording bio-telemetry data.
- ✓ Write Fish and Wildlife Service for funds relative to research contract on bird transmitters and improvement of telemetry system.
- ✓ Prepare details for construction of dual Yagi antenna and purchase necessary items.
- ✓ Check CB-1 radio and put in panel truck.
- ✓ Make mold of completed grizzly bear transmitter and experiment with coating transmitter with fiber glass resin.
- ✓ Continue hunt for nest of Great Gray Owl.
- ✓ Write Bob Patten relative to Trumpeter Swan pictures.
- ✓ Check over NSF fiscal reports with John and send to Jimmy.
- ✓ Check on progress of ERI brochures.
- ✓ Obtain biographical material from Joel, Hoke, Maurice.
- ✓ Work up experiments relative to AEC elk-tracking contract.
- Make up map of Bruno's trek.
- Visit den of #158 and photograph
- Make notes relative to photographing Marion's discarded den.
- ✓ Check on time that Marion's transmitter and Norris Elk transmitters have been functioning and prepare to remove and put on new collars.
- ✓ Make sound recordings needed for movie.
- ✓ Sort and label winter slides.
- Collect for radio-tracking reprints.

The following bears should be considered for instrumentation:

With Acutron- 65, 34, 150, 76, 96

With Joel's extended life transmitter- Ingy, White-faced Boar, or Short Ear.

- ✓ Go over Norris elk data to date, analyse findings and see what additional data should be gathered.
- ✓ Locate Old Faithful Elk
- ✓ Locate Jackson Hole Elk
- ✓ Meet with Superintendent of Teton National Park and discuss research objectives.
- ✓ Photograph birds here at lab.
- ✓ Take close up shots of bird transmitters.
- Take movie shots of grizzly bear plant food.
- ✓ Continue to gather data on Marion, #40.
- Arrange visit with Mrs. Nichols.
- Arrange for visit to lab by Pova
- ✓ Phone or write Frank Goodyear and make arrangements for a meeting.
- Prepare material on winter elk tracking for publication.
- Go over progress report 1963 and edit for publication.