



SPR Quarterly Progress Report
July 1, 2007 through September 30, 2007

Date October 3, 2007

TO: Technical Advisory Committee Members:

Michelle Eraut, FHWA
Matthew Mabey, ODOT
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Rick Williams, ODOT
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1. Project

Wildlife Movement Study
SPR 638

2. Key Dates

Start Date for ODOT: April 6, 2005
Completion Date for ODOT: June 30, 2010

3. Principal Investigator

DeWaine Jackson, ODFW

4. Progress

We darted and trapped additional mule deer on summer range during this report period. Since June 30, we placed radio-collars on an additional 22 deer. This brings the total number of radio-collared deer to 218. Sixty-six deer have died, 39 radio-collars have broken off (some as designed, some prematurely), and 6 radio-collared deer cannot be found. The remaining 107 deer are being monitored. We are currently downloading and examining location data from the GPS collars that have been recovered and the collars appear to be functioning as designed. We have the preliminary downloaded data from 9 GPS radio-collared does marked near Silver Lake which resulted in > 34,000 locations. Figure 1 represents the migration movements for 1 GPS-marked doe that crossed both Highways 97 and 31. Interestingly, the location where she crossed each highway represents very high deer road-kill locations based on our surveys and ODOT reports. This doe moved from the winter range to summer range during May 24-28 (only 4-5 days) and then returned to the winter range during October 9 – 16. These dates also match seasonal peaks in deer road-kills on both highways. Similar data will be forthcoming from additional deer.

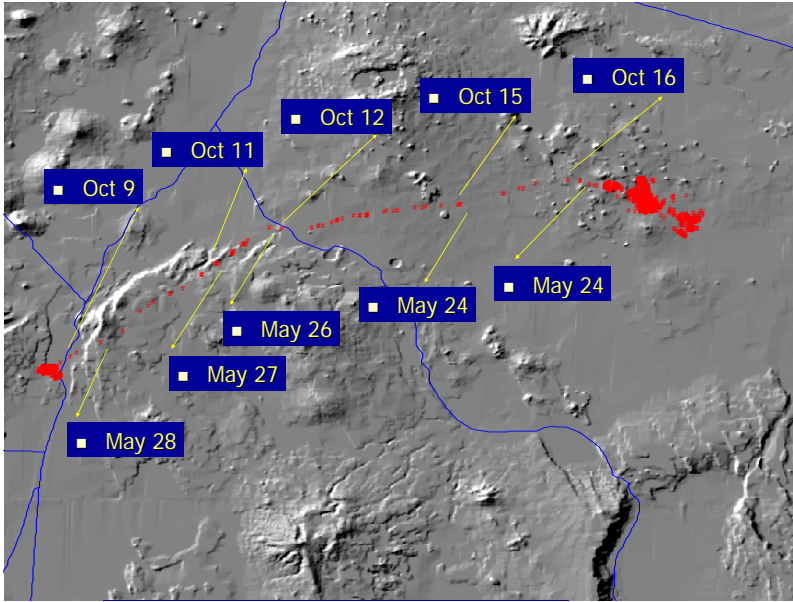


Figure 1. Migration movements of a GPS radio-collared doe on the Wildlife Movement Study (SPR 638) area.

5. Problems

Limited deer captures on summer range, especially in the south and southeast portions of the study area. This may be related to low deer densities in these areas during the summer capture period. We also had several darting equipment malfunctions this summer – nearly all related to manufacturer design and construction. The company is working with us to solve the problems.

6. Work Planned for Next Quarter

1. Continue monitoring radio-collared deer. Recover additional GPS collars that are scheduled to break-off during winter 2007 (as designed).
2. Continue to collect road-killed deer data.
3. Complete downloading of GPS collars and analyze location data.

7. Finances

SPR Project Summary

VENDOR	FY05	FY06	FY'07	FY'08	TOTALS
ORIGINAL BUDGET	\$ -	\$ -	\$ -		\$ -
REVISED BUDGET	\$ -	\$ -	\$ -		\$ -
EXPENDITURES - VENDOR	\$ -	\$ -	\$ -	\$ -	\$ -
BALANCE	\$ -	\$ -	\$ -	\$ -	\$ -

ODOT	FY05	FY06	FY'07	FY'08	TOTALS
ORIGINAL BUDGET	\$ 50,000	\$ 50,000	\$ -	\$ -	\$ 100,000
REVISED BUDGET	\$ 4,134	\$ 106,007	\$ 4,534	\$ 1,500	\$ 116,175
EXPENDITURES - ODOT	\$ 4,134	\$ 106,007	\$ 4,534	\$ -	\$ 114,675
BALANCE	\$ -	\$ -	\$ -	\$ 1,500	\$ -

PROJECT	FY05	FY06	FY'07	FY'08	TOTALS
ORIGINAL BUDGET	\$ 50,000	\$ 50,000	\$ -	\$ -	\$ 100,000
REVISED BUDGET	\$ 4,134	\$ 106,007	\$ 4,534	\$ 1,500	\$ 116,175
EXPENDITURES - PROJECT	\$ 4,134	\$ 106,007	\$ 4,534	\$ -	\$ 114,675
BALANCE	\$ -	\$ -	\$ -	\$ 1,500	\$ 1,500