



SPR Quarterly Progress Report
October 1, 2007 through December 31, 2007

Date December 31, 2007

TO: Technical Advisory Committee Members:

Michelle Eraut, FHWA
Matthew Mabey, ODOT
Chris Maguire, 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

Additional "summer" mule deer captures were completed during this reporting period. After removing capture myopathy mortalities, we have collected data on 207 radio-marked mule deer. Fifty-nine deer (23 bucks and 36 does) died, leaving 148 deer that are currently being monitored or have been censored from the analysis. An abstract (preliminary survival rate data) was prepared and submitted to the Oregon Chapter of the Wildlife Society (for a February 2008 presentation). We have completed downloads from several store-on-board GPS radio-marked does. Figure 1 shows movement of 7 does, 2 of which crossed Highway 97. We continued to collect road-kill data from Highways 31 and 97. Temporal analysis of road-kills show consistent peaks occurring in October and May/June of each year (Figure 2). Through August 2007, 794 road-killed deer have been documented in a 100-mile section of Highway 97 and a 50-mile section of Highway 31. Gender could not be determined for all road-killed deer; however females were 65% of the 503 known gender road-kills (Figure 3). Age class was not determined for all road-killed deer, but adult age class deer were the majority of the road-kills (Figure 4).

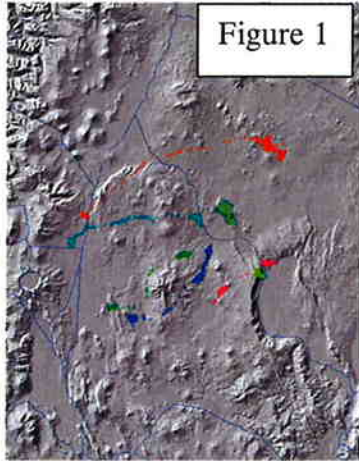


Figure 1

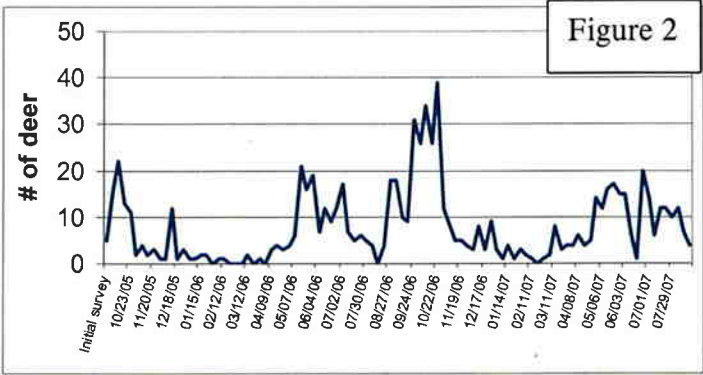


Figure 2

Figure 3

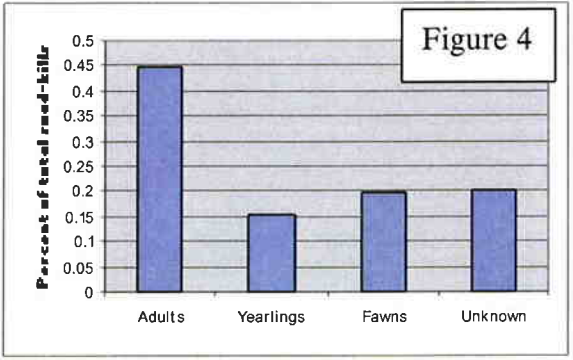
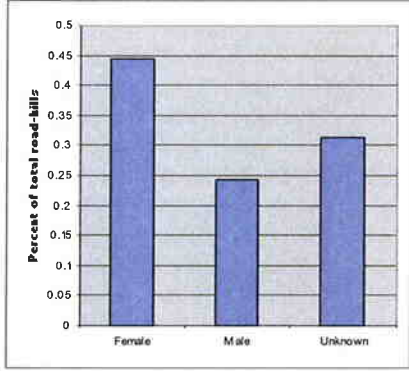


Figure 4



5. Problems

No significant problems this reporting period.

6. Work Planned for Next Quarter

1. Continue monitoring radio-collared deer. Recover additional GPS collars that are scheduled to break-off as designed.
2. Complete computer data entry of fall 2007 road-kill deer data.
3. Continue downloading of GPS collars and analyze location data.
4. Conduct a helicopter capture in March 2008 and deploy an additional 55 radio-collars.

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

