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Executive Summary (pg iv): Aerial and ground sage grouse lek surveys were initiated to monitor trends in sage grouse use and distribution within each study area before, during and after construction of wind turbines. Habitat use and distribution of sage grouse in close proximity to turbine development areas were estimated by recording sage grouse pellets within big game pellet plots. Twenty-two known historic lek sites were visited during the aerial survey and ground visits. The maximum number of males counted on six leks monitored during all four study years on SR increased from 116 in 1995 to 166 in 1999. Mean sage grouse pellet density on the FCR study area during the winter period ranged from 0/ha in 1997/98 to 69/ha during the 1994/95 winter period. During the summer period, sage grouse pellet density on FCR was 11/ha in 1995 and 4/ha in 1997. On the SR study area, mean sage grouse pellet density during winter ranged from 85/ha in 1997/98 to 131/ha during the 1994/95 winter period. During the summer period, pellet density was 143/ha in 1995 and 32/ha in 1997.