

MODELLING GOLDEN EAGLE POWER POLE ELECTROCUTIONS ^{TWS}

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We identified power poles owned and operated by Montana Power Company having electrocuted golden eagles (*Aquila chrysaetos*) to provide information on reducing the number of golden eagle electrocutions. Montana Power Company has begun implementing resolutions for minimizing golden eagle electrocutions by retrofitting power poles to be raptor safe. A model identifying power poles requiring retrofitting based on pole design and pole location would improve the economic feasibility and effectiveness of remediation. We developed a habitat map from Landsat 7 spectral data for determining habitat characteristics surrounding individual power poles at 3 spatial scales. A total of 178 power poles causing 198 golden electrocutions were found during 2 field seasons in the Roundup study area of eastern Montana. The estimated probability of a power pole in the study area electrocuting a golden eagle