

## BDCP Appendix 5.C, Attachment 5.J.C, p. 24

Table 2. Estimated Collision Mortality of Greater Sandhill Crane at BDCP Marked and Unmarked Powerlines

Powerline Type	Crossings/Year <sup>a</sup>	Deaths/Year <sup>b</sup> (unrounded)	
		Unmarked Lines	Marked Lines <sup>c</sup>
69-kV line (permanent)	749,949	16 (15.18)	6 (5.16)
230-kV line (permanent)	6,586	2 (2.00)	1 (0.68)
230-kV line (temporary)	321,120	96 (95.89)	33 (32.60)
34.5-kV line (temporary)	76,862	24 (23.37)	8 (7.95)

<sup>a</sup> Baseline mortality =  $30.4 \times 10^{-5} \times \text{crossings/year}$ .

<sup>b</sup> Values have been rounded up to the nearest integer unless otherwise specified.

<sup>c</sup> 66% reduction based on Brown and Drewien (1995) for sandhill cranes in Colorado.

Based on the analysis above, the cumulative mortality associated with marked temporary lines is estimated to be 410 birds over a 10-year period. While it is possible to calculate cumulative impacts from permanent lines over the permit term, mortality will continue at these lines as long as they are present. Therefore, deaths per year is a better metric for describing mortality at permanent lines. Note that mitigation is also calculated on an annual, ongoing basis.