**Appendix S7. Fatality studies conducted at wind energy facilities in the United States and Canada, sorted by avifaunal biome region, with associated small-bird fatality rate estimates (birds/megawatt /year), for which the estimator type is identified, the applied low and high bias adjustment factors, followed by the resulting low and high bias-adjusted fatality rates for small birds.**

| **Project name** | **Estimator used** | **Small bird esta** | **Low adjustment** | **High adjustment** | **Adj est (low bias) b** | **Adj est (high bias) c** | **Reference** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Eastern Biome** | | | | | | | |
| Buffalo Mountain (2000-2003) | Naïve | 9.65 | 0.52 | 0.70 | 18.54 | 13.81 | [1] |
| Buffalo Mountain (2005) | Naïve | 0.98 | 0.52 | 0.70 | 1.88 | 1.40 | [2] |
| Casselman (2008) | Shoenfeld | 1.33 | 0.63 | 0.81 | 2.11 | 1.64 | [3] |
| Casselman (2009) | Shoenfeld | 2.52 | 0.63 | 0.81 | 4.02 | 3.12 | [4] |
| Cohocton/Dutch Hill (2009) | Jain | 1.20 | 1.26 | 1.74 | 0.96 | 0.69 | [5] |
| Cohocton/Dutch Hills (2010) | Jain | 0.69 | 1.26 | 1.74 | 0.55 | 0.40 | [6] |
| Criterion (2011) | Schoenfeld | 6.10 | 0.59 | 0.85 | 10.27 | 7.14 | [7] |
| Locust Ridge II (2009) | Shoenfeld | 0.74 | 0.39 | 0.73 | 1.89 | 1.01 | [8] |
| Locust Ridge II (2010) | Shoenfeld | 0.66 | 0.90 | 0.96 | 0.74 | 0.69 | [8] |
| Mount Storm (2009) | Shoenfeld | 3.10 | 0.39 | 1.01 | 7.95 | 3.07 | [9, 10] |
| Mount Storm (2010) | Shoenfeld | 2.19 | 0.39 | 0.73 | 5.62 | 3.02 | [11, 12] |
| Mount Storm (2011) | Shoenfeld | 3.93 | 0.63 | 0.81 | 6.26 | 4.86 | [13, 14] |
| Mountaineer (2003) | Shoenfeld | 2.36 | 0.55 | 1.08 | 4.30 | 2.18 | [15] |
| Munnsville (2008) | Jain | 1.30 | 1.07 | 1.33 | 1.21 | 0.98 | [16] |
| Noble Bliss (2008) | Jain | 1.09 | 1.26 | 1.74 | 0.87 | 0.63 | [17] |
| Noble Bliss (2009) | Jain | 1.82 | 1.44 | 2.25 | 1.26 | 0.81 | [18] |
| Noble Wethersfield (2010) | Jain | 1.51 | 1.26 | 1.33 | 1.20 | 1.14 | [19] |
| Ripley (2008) | Jain | 2.70 | 1.26 | 1.33 | 2.15 | 2.03 | [20] |
| Sheldon (2010) | Shoenfeld | 1.54 | 0.60 | 0.96 | 2.59 | 1.61 | [21] |
| Sheldon (2011) | Shoenfeld | 1.38 | 0.60 | 0.96 | 2.32 | 1.44 | [22] |
| **Intermountain West Biome** | | | | | | | |
| Big Horn | Huso | 1.97 | 0.72 | 1.15 | 2.72 | 1.72 | [23] |
| Biglow Canyon (Phase I; 2008) | Shoenfeld | 1.54 | 0.49 | 0.95 | 3.17 | 1.62 | [24] |
| Biglow Canyon (Phase I; 2009) | Shoenfeld | 2.33 | 0.57 | 0.85 | 4.06 | 2.73 | [25] |
| Biglow Canyon (Phase II; 2009/2010) | Shoenfeld | 5.16 | 0.60 | 1.20 | 8.53 | 4.30 | [26] |
| Biglow Canyon (Phase II; 2010/2011) | Shoenfeld | 2.48 | 0.65 | 0.95 | 3.83 | 2.61 | [27] |
| Biglow Canyon (Phase III; 2010/2011) | Shoenfeld | 2.17 | 0.65 | 0.95 | 3.35 | 2.28 | [28] |
| Combine Hills (2004/2005) | Shoenfeld | 1.89 | 0.71 | 0.85 | 2.65 | 2.22 | [29] |
| Combine Hills (2011) | Shoenfeld | 1.96 | 0.71 | 0.85 | 2.75 | 2.30 | [30] |
| Dry Lake I | Shoenfeld | 1.93 | 0.64 | 0.96 | 3.00 | 2.00 | [31] |
| Dry Lake II | Shoenfeld | 1.30 | 0.60 | 0.67 | 2.18 | 1.94 | [32] |
| Elkhorn (2008) | Shoenfeld | 0.45 | 0.69 | 0.84 | 0.65 | 0.54 | [33] |
| Elkhorn (2010) | Shoenfeld | 1.76 | 0.62 | 1.08 | 2.82 | 1.62 | [34] |
| Foote Creek Rim (Phase I; 1999) | Shoenfeld | 3.00 | 0.71 | 0.85 | 4.21 | 3.52 | [35] |
| Foote Creek Rim (Phase I; 2000) | Shoenfeld | 2.15 | 0.71 | 0.85 | 3.02 | 2.52 | [35] |
| Foote Creek Rim (Phase I; 2001-2002) | Shoenfeld | 1.71 | 0.71 | 0.85 | 2.40 | 2.01 | [35] |
| Goodnoe | Shoenfeld | 1.02 | 0.66 | 0.82 | 1.54 | 1.24 | [36] |
| Harvest Wind (2010-2012) | Huso | 2.28 | 0.82 | 1.67 | 2.80 | 1.37 | [37] |
| Hay Canyon | Huso | 1.92 | 0.72 | 1.15 | 2.65 | 1.68 | [38] |
| Hopkins Ridge (2006) | Shoenfeld | 0.80 | 0.56 | 0.84 | 1.42 | 0.95 | [39] |
| Hopkins Ridge (2008) | Shoenfeld | 2.43 | 0.49 | 0.95 | 5.01 | 2.56 | [40] |
| Kittitas Valley (2011-2012) | Huso | 0.72 | 0.97 | 1.87 | 0.74 | 0.39 | [41] |
| Klondike | Shoenfeld | 0.77 | 0.80 | 0.82 | 0.97 | 0.94 | [42] |
| Klondike II | Shoenfeld | 2.90 | 0.57 | 0.85 | 5.06 | 3.40 | [43] |
| Klondike III (Phase I) | Shoenfeld | 2.60 | 0.62 | 1.08 | 4.16 | 2.40 | [44] |
| Klondike IIIa (Phase II) | Shoenfeld | 1.92 | 0.62 | 1.08 | 3.07 | 1.77 | [45] |
| Leaning Juniper | Huso | 5.17 | 0.72 | 1.15 | 7.13 | 4.51 | [46] |
| Linden Ranch | Shoenfeld | 4.83 | 0.65 | 0.95 | 7.46 | 5.08 | [47] |
| Marengo I (2009) | Shoenfeld | 0.23 | 0.57 | 0.85 | 0.40 | 0.27 | [48] |
| Marengo II (2009) | Shoenfeld | 0.16 | 0.57 | 0.85 | 0.28 | 0.19 | [49] |
| Nine Canyon | Shoenfeld | 2.55 | 0.57 | 0.85 | 4.45 | 2.99 | [50] |
| Pebble Springs | Huso | 1.50 | 0.80 | 1.13 | 1.87 | 1.33 | [51] |
| Stateline (2002) | Shoenfeld | 2.85 | 0.57 | 0.85 | 4.97 | 3.34 | [52] |
| Stateline (2003) | Shoenfeld | 2.29 | 0.57 | 0.85 | 3.99 | 2.69 | [52] |
| Stateline (2006) | Shoenfeld | 0.95 | 0.52 | 0.85 | 1.81 | 1.11 | [53] |
| Summerview (2006) d |  | 0.82 |  |  |  |  | [54] |
| Tuolumne (Windy Point I) | Shoenfeld | 2.49 | 0.41 | 0.95 | 6.13 | 2.62 | [55] |
| Vansycle | Naïve | 0.75 | 0.57 | 0.70 | 1.31 | 1.07 | [56] |
| Vantage | Shoenfeld | 1.14 | 0.41 | 0.95 | 2.81 | 1.20 | [57] |
| White Creek (2007-2011) | Huso | 3.14 | 0.87 | 2.77 | 3.62 | 1.13 | [58] |
| Wild Horse | Shoenfeld | 1.28 | 0.52 | 0.85 | 2.44 | 1.50 | [59] |
| Windy Flats (Windy Point II) | Shoenfeld | 7.59 | 0.87 | 1.86 | 8.75 | 4.09 | [60] |
| **Northern Forest Biome** | | | | | | | |
| Lempster (2009) | Shoenfeld | 2.73 | 0.63 | 0.81 | 4.35 | 3.38 | [61] |
| Lempster (2010) | Shoenfeld | 1.65 | 0.55 | 0.78 | 3.00 | 2.11 | [62] |
| Maple Ridge (2007) | Jain | 2.73 | 1.26 | 1.33 | 2.17 | 2.05 | [63] |
| Maple Ridge (2008) | Jain | 1.86 | 1.44 | 1.47 | 1.29 | 1.26 | [64] |
| Mars Hill (2007) | Jain | 1.33 | 1.05 | 1.33 | 1.27 | 1.00 | [65] |
| Mars Hill (2008) | Jain | 1.43 | 1.07 | 1.33 | 1.33 | 1.08 | [66] |
| Noble Altona (2010) | Jain | 1.68 | 1.44 | 2.25 | 1.17 | 0.75 | [67] |
| Noble Chateaugay (2010) | Jain | 1.01 | 1.44 | 1.47 | 0.70 | 0.69 | [68] |
| Noble Clinton (2008) | Jain | 1.39 | 1.44 | 2.25 | 0.97 | 0.62 | [69] |
| Noble Clinton (2009) | Jain | 0.57 | 1.44 | 2.25 | 0.40 | 0.25 | [70] |
| Noble Ellenburg (2008) | Jain | 0.66 | 1.44 | 2.25 | 0.46 | 0.29 | [71] |
| Noble Ellenburg (2009) | Jain | 2.02 | 1.44 | 2.25 | 1.40 | 0.90 | [72] |
| Stetson Mountain I (2009) | Jain | 2.17 | 1.44 | 1.47 | 1.51 | 1.48 | [73] |
| Stetson Mountain I (2011) | Jain | 0.96 | 1.44 | 1.47 | 0.66 | 0.65 | [74] |
| Stetson Mountain II (2010) | Jain | 1.15 | 1.44 | 1.47 | 0.80 | 0.78 | [75] |
| **Pacific Biome** | | | | | | | |
| Alite (2010) | Shoenfeld | 0.24 | 0.55 | 0.88 | 0.44 | 0.27 | [76] |
| Diablo Winds | Shoenfeld | 3.67 | 0.92 | 1.08 | 4.01 | 3.38 | [77] |
| Dillon e | Shoenfeld | 4.26 | 0.63 | 0.75 | 6.71 | 5.71 | [77, 78] |
| High Winds (2004) | Shoenfeld | 1.08 | 0.62 | 0.88 | 1.73 | 1.23 | [79] |
| High Winds (2005) | Shoenfeld | 0.73 | 0.62 | 0.88 | 1.17 | 0.83 | [80] |
| Pine Tree | Shoenfeld | 3.87 | 0.55 | 0.81 | 7.04 | 4.79 | [81] |
| Shiloh I | Jain | 4.86 | 1.07 | 1.33 | 4.53 | 3.66 | [82] |
| Shiloh II (Year 1) | Jain | 0.81 | 1.44 | 1.47 | 0.56 | 0.55 | [83] |
| **Prairie Biome** | | | | | | | |
| Barton Chapel | Shoenfeld | 0.62 | 0.55 | 1.08 | 1.13 | 0.57 | [84] |
| Barton I and II | Shoenfeld | 3.73 | 0.60 | 0.96 | 6.27 | 3.87 | [85] |
| BSGF | Shoenfeld | 6.96 | 0.52 | 0.85 | 13.26 | 8.15 | [86] |
| Buffalo Gap I | Shoenfeld | 1.08 | 0.62 | 1.08 | 1.73 | 1.00 | [87] |
| Buffalo Gap II | Shoenfeld | 0.07 | 0.62 | 1.08 | 0.11 | 0.06 | [88] |
| Buffalo Ridge (Phase I; 1996) | Naïve | 4.14 | 0.50 | 1.30 | 8.22 | 3.19 | [89] |
| Buffalo Ridge (Phase I; 1997) | Naïve | 1.40 | 0.50 | 1.30 | 2.78 | 1.08 | [89] |
| Buffalo Ridge (Phase I; 1998) | Naïve | 2.40 | 0.50 | 1.30 | 4.76 | 1.85 | [89] |
| Buffalo Ridge (Phase I; 1999) | Naïve | 1.43 | 0.50 | 1.30 | 2.83 | 1.10 | [89] |
| Buffalo Ridge (Phase II; 1998) | Naïve | 2.28 | 0.50 | 1.30 | 4.52 | 1.76 | [89] |
| Buffalo Ridge (Phase II; 1999) | Naïve | 3.04 | 0.50 | 1.30 | 6.03 | 2.34 | [89] |
| Buffalo Ridge (Phase III; 1999) | Naïve | 5.93 | 0.50 | 1.30 | 11.76 | 4.57 | [89] |
| Buffalo Ridge I (2010) | Shoenfeld | 4.16 | 0.55 | 1.08 | 7.57 | 3.84 | [90] |
| Buffalo Ridge II (2011) | Shoenfeld | 1.12 | 0.60 | 0.96 | 1.88 | 1.16 | [91] |
| Cedar Ridge (2009) | Huso | 5.21 | 1.11 | 1.47 | 4.68 | 3.53 | [92] |
| Cedar Ridge (2010) | Shoenfeld | 2.21 | 0.90 | 0.96 | 2.46 | 2.31 | [93] |
| Elm Creek | Shoenfeld | 1.07 | 0.60 | 0.96 | 1.80 | 1.11 | [94] |
| Elm Creek II | Shoenfeld | 3.60 | 0.60 | 0.96 | 6.05 | 3.73 | [95] |
| Grand Ridge I | Shoenfeld | 0 | 0.55 | 1.08 | 0 | 0 | [96] |
| Kewaunee County | Shoenfeld | 1.33 | 0.60 | 0.96 | 2.23 | 1.38 | [97] |
| Moraine II | Shoenfeld | 3.79 | 0.60 | 0.96 | 6.37 | 3.93 | [98] |
| NPPD Ainsworth | Shoenfeld | 1.51 | 0.62 | 0.88 | 2.42 | 1.72 | [99] |
| Pioneer Prairie I (Phase II) | Shoenfeld | 0.18 | 0.60 | 0.96 | 0.31 | 0.19 | [100] |
| Prairie Winds SD1 (Crow Lake) | Shoenfeld | 0.96 | 0.57 | 0.85 | 1.67 | 1.13 | [101] |
| Prairie Winds ND1/Minot (2010) | Shoenfeld | 1.04 | 0.57 | 0.81 | 1.82 | 1.29 | [102] |
| Prairie Winds ND1/Minot (2011) | Shoenfeld | 0.96 | 0.49 | 0.86 | 1.98 | 1.12 | [103] |
| Rugby | Shoenfeld | 1.03 | 0.55 | 1.08 | 1.87 | 0.95 | [104] |
| Top of Iowa (2003) | Shoenfeld | 0.29 | 0.55 | 0.81 | 0.52 | 0.35 | [105] |
| Top of Iowa (2004) | Shoenfeld | 0.57 | 0.55 | 0.81 | 1.04 | 0.71 | [105] |
| Wessington Springs (2009) | Shoenfeld | 7.67 | 0.60 | 1.08 | 12.68 | 7.10 | [106] |
| Wessington Springs (2010) | Shoenfeld | 0.27 | 0.52 | 0.85 | 0.51 | 0.32 | [107] |
| Winnebago | Shoenfeld | 3.16 | 0.60 | 0.96 | 5.31 | 3.28 | [108] |
| a  Fatality estimate for small birds(MW/year)  b Average estimate (MW/year) using the lowest bias adjustment  c Average estimate (MW/year) using the highest bias adjustment  d The Summerview (2006) fatality estimate for small birds was not adjusted, as it was calculated using a unique estimator from Environment Canada.  e The Dillon Project was the only project in the Southwestern Biome represented by an available fatality report. Due to its singularity and since it is located very close to the Pacific Biome; it was combined with the Pacific Biome data. | | | | | | | |

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