**Appendix S6. Variables used to determine which bias adjustment factors to apply to the fatality estimate for small birds in 116 studies of bird collisions at wind energy facilities conducted in the United States and Canada.** Search interval, percent of small birds found during searcher efficiency trials and categorization [low (0 – 0.375), medium (0.375 – 0.65), and high (0.65 – 1)], average carcass removal times (days) and carcass removal classification [fast (0 -10 days), moderate (11 -23 days), and slow (24 or more days)].

| **Project name** | **Search interval** | **Small birds % found** | **Searcher efficiency category** | **Small bird mean removal time (days)** | **Carcass removal category** | **Reference** |
| --- | --- | --- | --- | --- | --- | --- |
| **Eastern Biome** | | | | | | |
| Buffalo Mountain (2000-2003)a | bi-weekly, weekly, bi-monthly | 50.3a | medium | 4.51a | fast | [1] |
| Buffalo Mountain (2005)a | bi-weekly, weekly, bi-monthly, and 2 to 5 day intervals | 50.3 a | medium | 4.51a | fast | [2] |
| Casselman (2008) a | daily | 39.0 | medium | 4.51a | fast | [3] |
| Casselman (2009) a | daily searches | 39.0 | medium | 4.51a | fast | [4] |
| Cohocton/Dutch Hill (2009) | daily (5 turbines), weekly (12 turbines) | 45.0 | medium | 4.00 | fast | [5] |
| Cohocton/Dutch Hills (2010) | daily, weekly | 50.0 | medium | 4.00 | fast | [6] |
| Criterion (2011) | daily | 49.0 | medium | 11.57 | moderate | [7] |
| Locust Ridge II (2009)a | daily | 29.0 | low | 4.51a | fast | [8] |
| Locust Ridge II (2010)a | daily | 70.0 | high | 4.51a | fast | [8] |
| Mount Storm (2009) | weekly (28 turbines), daily (16 turbines) | 35.2 | low | 3.03 | fast | [9, 10] |
| Mount Storm (2010) | daily | 35.0 | low | 3.30 | fast | [11, 12] |
| Mount Storm (2011) | daily | 66.2 | medium | 2.29 | fast | [13, 14] |
| Mountaineer (2003)a | weekly, monthly | 50.3a | medium | 4.51a | fast | [15] |
| Munnsville (2008)a | weekly | 16.6 | low | 4.51a | fast | [16] |
| Noble Bliss (2008)a | daily (8 turbines), 3-day (8 turbines), weekly ( 7 turbines) | 62.0 | medium | 4.51a | fast | [17] |
| Noble Bliss (2009)a | weekly, 8 turbines searched daily from July 1 to August 15 | 66.0 | high | 4.51a | fast | [18] |
| Noble Wethersfield (2010)a | weekly | 39.0 | medium | 4.51a | fast | [19] |
| Ripley (2008) a | twice weekly for odd turbines; weekly for even turbines. | 50.3a | medium | 4.51a | fast | [20] |
| Sheldon (2010) | daily (8 turbines), weekly (17 turbines) | 67.6 | high | 3.65 | fast | [21] |
| Sheldon (2011) | daily (8 turbines), weekly (17 turbines) | 84.2 | high | 3.75 | fast | [22] |
| **Intermountain West Biome** | | | | | | |
| Big Horn | bi-monthly (spring, fall), monthly (winter, summer) | 43.0 | medium | 20.60 | moderate | [23] |
| Biglow Canyon (Phase I; 2008) | bi-monthly (spring, fall), monthly (winter, summer) | 36.8 | low | 10.10 | moderate | [24] |
| Biglow Canyon (Phase I; 2009) | bi-monthly (spring, fall), monthly (winter, summer) | 46.2 | medium | 16.58 | moderate | [25] |
| Biglow Canyon (Phase II; 2009/2010) | bi-monthly (spring, fall), monthly (winter, summer) | 27.5 | low | 3.41 | fast | [26] |
| Biglow Canyon (Phase II; 2010/2011) | bi-weekly(spring, fall), monthly (summer, winter) | 29.2 | low | 13.10 | moderate | [27] |
| Biglow Canyon (Phase III; 2010/2011) | bi-weekly(spring, fall), monthly (summer, winter) | 32.6 | low | 13.10 | moderate | [28] |
| Combine Hills (2004/2005) | monthly | 52.0 | medium | 16.70 | moderate | [29] |
| Combine Hills (2011) | bi-weekly(spring, fall), monthly (summer, winter) | 39.1 | medium | 15.50 | moderate | [30] |
| Dry Lake I | bi-monthly (spring, fall), monthly (winter, summer) | 75.3 | high | 6.50 | fast | [31] |
| Dry Lake II | twice weekly (spring, summer, fall), weekly (winter) | 86.0 | high | 6.50 | fast | [32] |
| Elkhorn (2008) | monthly | 61.3 | medium | 27.80 | slow | [33] |
| Elkhorn (2010) | bi-monthly (spring, fall), monthly (winter, summer) | 51.7 | medium | 6.29 | fast | [34] |
| Foote Creek Rim (Phase I; 1999) | monthly | 59.0 | medium | 13.37 | moderate | [35] |
| Foote Creek Rim (Phase I; 2000) | monthly | 59.0 | medium | 13.37 | moderate | [35] |
| Foote Creek Rim (Phase I; 2001-2002) | monthly | 59.0 | medium | 13.37 | moderate | [35] |
| Goodnoe | 14 days during migration periods, 28 days during non-migration periods | 65.7 | high | 10.44 | moderate | [36] |
| Harvest Wind (2010-2012)a | twice a week, weekly and monthly | 46.0 | medium | 14.64a | moderate | [37] |
| Hay Canyona | bi-monthly (spring, fall), monthly (winter, summer) | 47.6a | medium | 5.14 | fast | [38] |
| Hopkins Ridge (2006) | monthly, weekly (subset of 22 turbines spring and fall migration) | 52.9 | medium | 26.60 | slow | [39] |
| Hopkins Ridge (2008) | bi-monthly (spring, fall), monthly (winter, summer) | 34.4 | low | 10.40 | moderate | [40] |
| Kittitas Valley (2011-2012) | bi weekly from Aug 15 - Oct 31 and March 16 - May 15; every 4 weeks from Nov 1 - March 15 and May 16 - Aug 14 | 62.5 | medium | 26.49 | slow | [41] |
| Klondike | monthly | 75.0 | high | 14.20 | moderate | [42] |
| Klondike II | bi-monthly (spring, fall), monthly (summer, winter) | 47.7 | medium | 14.00 | moderate | [43] |
| Klondike III (Phase I) | bi-monthly (spring, fall migration), monthly (summer, winter) | 47.6a | medium | 9.79 | fast | [44] |
| Klondike IIIa (Phase II) | bi-monthly (spring, fall), monthly (summer, winter) | 55.2 | medium | 8.96 | fast | [45] |
| Leaning Juniper | bi-monthly (spring, fall), monthly (winter, summer) | 63.8 | medium | 10.33 | moderate | [46] |
| Linden Ranch | bi-weekly(spring, fall), monthly (summer, winter) | 18.6 | low | 20.92 | moderate | [47] |
| Marengo I (2009) | bi-monthly (spring, fall), monthly (winter, summer) | 48.0 | medium | 14.76 | moderate | [48] |
| Marengo II (2009) | bi-monthly (spring, fall), monthly (winter, summer) | 48.0 | medium | 14.76 | moderate | [49] |
| Nine Canyon | bi-monthly (spring, summer, fall), monthly (winter) | 44.0 | medium | 11.00 | moderate | [50] |
| Pebble Springsa | bi-monthly (spring, fall), monthly (winter, summer) | 47.6a | medium | 14.64a | moderate | [51] |
| Stateline (2002) | bi-weekly, monthly | 42.0 | medium | 16.70 | moderate | [52] |
| Stateline (2003) | bi-weekly, monthly | 42.0 | medium | 16.70 | moderate | [52] |
| Stateline (2006) | bi-weekly | 42.0 | medium | 16.70 | moderate | [53] |
| Summerview (2006)a | weekly, bi-weekly (May to July, September) | 72.3 | high | 14.64a | moderate | [54] |
| Tuolumne (Windy Point I) | monthly throughout the year, a sub-set of 10 turbines were also searched weekly during the spring, summer, and fall | 33.3 | low | 12.33 | moderate | [55] |
| Vansycle | monthly | 50.0 | medium | 23.40 | slow | [56] |
| Vantage | monthly, a subset of 10 searched weekly during migration | 25.0 | low | 21.40 | moderate | [57] |
| White Creek (2007-2011)a | twice a week, weekly and monthly | 35.0 | low | 14.64a | moderate | [58] |
| Wild Horse | monthly, weekly (fall, spring migration at 16 turbines) | 41.0 | medium | 17.70 | moderate | [59] |
| Windy Flats (Windy Point II)a | monthly (spring, summer, fall, and winter), weekly (spring and fall migration) | 17.1 | low | 14.64a | moderate | [60] |
| **Northern Forest Biome** | | | | | | |
| Lempster (2009) | daily | 53.9 | medium | 6.23 | fast | [61] |
| Lempster (2010) | weekly | 56.3 | medium | 5.00 | fast | [62] |
| Maple Ridge (2007)a | weekly | 62.0 | medium | 5.62a | fast | [63] |
| Maple Ridge (2008)a | weekly | 66.0 | high | 5.62a | fast | [64] |
| Mars Hill (2007)a | daily (2 random turbines), weekly (all turbines): extended plot searched once per season | 25.0 | low | 5.62a | fast | [65] |
| Mars Hill (2008)a | weekly: extended plot searched once per season | 25.0 | low | 5.62a | fast | [66] |
| Noble Altona (2010)a | daily, weekly | 74.0 | high | 5.62a | fast | [67] |
| Noble Chateaugay (2010)a | weekly | 67.0 | high | 5.62a | fast | [68] |
| Noble Clinton (2008)a | daily (8 turbines), 3-day (8 turbines), weekly (7 turbines) | 80.0 | high | 5.62a | fast | [69] |
| Noble Clinton (2009)a | daily (8 turbines), weekly (15 turbines), all turbines weekly from July 1 to August 15 | 75.0 | high | 5.62a | fast | [70] |
| Noble Ellenburg (2008)a | daily (6 turbines), 3-day (6 turbines), weekly (6 turbines) | 85.0 | high | 5.62a | fast | [71] |
| Noble Ellenburg (2009)a | daily (6 turbines), weekly (12 turbines), all turbines weekly from July 1 to August 15 | 75.0 | high | 5.62a | fast | [72] |
| Stetson Mountain I (2009) a | weekly | 65.4a | high | 5.62a | fast | [73] |
| Stetson Mountain I (2011) a | weekly | 65.4a | high | 5.62a | fast | [74] |
| Stetson Mountain II (2010) | weekly (3 turbines twice a week) | 65.4a | high | 5.62a | fast | [75] |
| **Pacific Biome** | | | | | | |
| Alite (2010) | weekly (spring, fall), bi-monthly (summer, winter) | 56.8 | medium | 5.85 | fast | [76] |
| Diablo Winds | monthly | 44.0 | medium | 8.39a | fast | [77, 78] |
| Dillonb | weekly, bi-monthly in winter | 72.0 | high | 17.39 | moderate | [79] |
| High Winds (2004) | bi-monthly | 50.0 | medium | 8.39a | fast | [80] |
| High Winds (2005) | bi-monthly | 49.0 | medium | 8.39a | fast | [80] |
| Pine Tree | bi-weekly | 41.2 | medium | 1.92 | fast | [81] |
| Shiloh I | weekly | 35.0 | low | 8.39a | fast | [82] |
| Shiloh II (Year 1) | once/week | 67.0 | high | 8.39a | fast | [83] |
| **Prairie Biome** | | | | | | |
| Barton Chapel | 10 turbines weekly, 20 monthly | 38.2 | medium | 7.09 | fast | [84] |
| Barton I and II | weekly (spring, fall; migratory turbines), monthly (summer, winter; non-migratory turbines) | 73.1 | high | 5.96 | fast | [85] |
| Blue Sky Green Field | daily(10 turbines), weekly (20 turbines) |  | medium | 10.62 | moderate | [86] |
| Buffalo Gap I | every 3 weeks | 58.4a | medium | 4.00 | fast | [87] |
| Buffalo Gap II | every 21 days | 58.4a | medium | 1.64 | fast | [88] |
| Buffalo Ridge (Phase I; 1996) | bi-monthly (spring, summer, and fall) | 29.4 | low | 4.69 | fast | [89] |
| Buffalo Ridge (Phase I; 1997) | bi-monthly (spring, summer, and fall) | 29.4 | low | 4.69 | fast | [89] |
| Buffalo Ridge (Phase I; 1998) | bi-monthly (spring, summer, and fall) | 29.4 | low | 4.69 | fast | [89] |
| Buffalo Ridge (Phase I; 1999) | bi-monthly (spring, summer, and fall) | 29.4 | low | 4.69 | fast | [89] |
| Buffalo Ridge (Phase II; 1998) | bi-monthly (spring, summer, and fall) | 29.4 | low | 4.69 | fast | [89] |
| Buffalo Ridge (Phase II; 1999) | bi-monthly (spring, summer, and fall) | 29.4 | low | 4.69 | fast | [89] |
| Buffalo Ridge (Phase III; 1999) | bi-monthly (spring, summer, and fall) | 29.4 | low | 4.69 | fast | [89] |
| Buffalo Ridge I (2010) | weekly (migratory), monthly (non-migratory) | 62.3 | medium | 8.34 | fast | [90] |
| Buffalo Ridge II (2011) | weekly (spring, summer, fall), monthly (winter) | 84.4 | high | 7.20 | fast | [91] |
| Cedar Ridge (2009) | daily, every 4 days; late fall searched every 3 days | 51.0 | medium | 7.69a | fast | [92] |
| Cedar Ridge (2010) | Five turbines were surveyed daily, 15 turbines surveyed every 4 days in rotating groups each day. All 20 surveyed every three days during late fall | 80.0 | high | 7.69a | fast | [93] |
| Elm Creek | weekly, monthly | 65.1 | high | 8.08 | fast | [94] |
| Elm Creek II | 20 searched every 28 days, 10 turbines every 7 days during migration) | 82.1 | high | 8.40 | fast | [95] |
| Grand Ridge I | weekly, monthly | 52.4 | medium | 6.22 | fast | [96] |
| Kewaunee County | bi-weekly (spring, summer), daily (spring, fall migration), weekly (fall, winter) | 72.0 | high | 7.69a | fast | [97] |
| Moraine II | weekly (migratory), monthly (non-migratory) | 68.8 | high | 7.10 | fast | [98] |
| NPPD Ainsworth | bi-monthly | 56.0 | medium | 5.10 | fast | [99] |
| Pioneer Prairie I (Phase II) | weekly (spring and fall), every two weeks (summer), monthly (winter) | 86.6 | high | 3.80 | fast | [100] |
| Prairie Winds SD1 (Crow Lake) | twice monthly (spring, summer, fall), monthly (winter) | 37.7 | medium | 12.82 | moderate | [101] |
| Prairie Winds ND1/Minot (2010) | bi-monthly | 64.3 | medium | 19.08 | moderate | [102] |
| Prairie Winds ND1/Minot (2011) | twice monthly | 25.8 | low | 19.08 | moderate | [103] |
| Rugby | weekly (spring, fall; migratory turbines), monthly ( non-migratory turbines) | 57.1 | medium | 8.45 | fast | [104] |
| Top of Iowa (2003) | once every 2 to 3 days | 58.4a | medium | 7.69a | fast | [105] |
| Top of Iowa (2004) | once every 2 to 3 days | 58.4a | medium | 7.69a | fast | [105] |
| Wessington Springs (2009) | bi-monthly | 17.6 | low | 7.70 | fast | [106] |
| Wessington Springs (2010) | bi-weekly (spring, summer, fall) | 40.4 | medium | 10.89 | moderate | [107] |
| Winnebago | weekly (migratory), monthly (non-migratory) | 78.7 | high | 6.67 | fast | [108] |
| a When the percent of small birds found in searcher efficiency trials and/or the number of days for the small bird removal in scavenger trials was unknown, an average number was used based on results from other studies within the same biome  b Project is located in the Southwestern Biome, but due to its singularity and close proximity, it was included with the Pacific biome studies | | | | | | |

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