**Appendix S4. Percent of trial carcasses found in experimental searcher efficiency (SEEF) bias trials and average removal time (days) in carcass removal (CRT) bias trials for small birds and all birds for post-construction fatality monitoring studies conducted at wind energy facilities in the United States and Canada, categorized by avifaunal biome.** Blank spaces indicate that data was not available.

| **Project name** | **Small bird SEEF estimate (%)** | **Small bird mean CRT removal time (days)** | **References** |
| --- | --- | --- | --- |
| **Projects with Small Bird Estimates by Region** | | | |
| **Eastern Biome** | | | |
| Criterion (2011) | 49.0 | 11.57 | [1] |
| Mount Storm (2009) | 35.2 | 3.03 | [2,3] |
| Mount Storm (2010) | 35.0 | 3.3 | [4,5] |
| Mount Storm (2011) | 66.2 | 2.29 | [6,7] |
| Noble Bliss (2008) | 62.0 |  | [8] |
| Noble Bliss (2009) | 66.0 |  | [9] |
| Noble Wethersfield (2010) | 39.0 |  | [10] |
| **Intermountain West Biome** | | | |
| Biglow Canyon (Phase I; 2008) | 36.8 | 10.1 | [11] |
| Biglow Canyon (Phase I; 2009) | 46.2 | 16.58 | [12] |
| Biglow Canyon (Phase II; 2009/2010) | 27.5 | 3.41 | [13] |
| Biglow Canyon (Phase II; 2010/2011) | 29.2 | 13.1 | [14] |
| Biglow Canyon (Phase III; 2010/2011) | 32.6 |  | [15] |
| Combine Hills (2004) b | 52 | 16.7 | [16] |
| Combine Hills (2011) | 39.1 | 15.5 | [17] |
| Dry Lake I | 75.3 |  | [18] |
| Dry Lake II | 86.0 | 6.5 | [19] |
| Elkhorn (2008) | 61.3 | 27.8 | [20] |
| Elkhorn (2010) | 51.7 | 6.29 | [21] |
| Foote Creek Rim (Phase I; 1999) b, c, d | 59.0 | 9.75,19.14,15.44,10.99,13.37 | [22] |
| Foote Creek Rim (Phase I; 2000) b, c, d | 59.0 | 9.75, 19.14, 15.44, 10.99, 13.37 | [22] |
| Foote Creek Rim (Phase I; 2001-2002) b, c, d | 59.0 | 9.75, 19.14, 15.44, 10.99, 13.37 | [22] |
| Goodnoe | 65.7 | 10.44 | [23] |
| Hay Canyon |  | 5.14 | [24] |
| Hopkins Ridge (2006) | 52.9 | 26.6 | [25] |
| Hopkins Ridge (2008) | 34.4 | 10.4 | [26] |
| Kittitas Valley (2011/2012) | 62.5 |  | [27] |
| Klondike | 75 | 14.2 | [28] |
| Klondike II | 47.7 | 14 | [29] |
| Klondike III (Phase I) e, f, g, h | 47.6 | 12.59, 21.21, 6.86, 4.03; 3.78, 12.35, 7.17, 11.24 | [30] |
| Klondike IIIa (Phase II) i, j, l | 55.2 | 2.92, 22.26, 13.52, 7.26; 5.07, 2.56, 13.55, 4.48 | [31] |
| Linden Ranch | 18.6 | 20.92 | [32] |
| Marengo I (2009) | 48 | 14.76 | [33] |
| Marengo II (2009) | 48 | 14.76 | [34] |
| Nine Canyon | 44 | 11 | [35] |
| Stateline (2002) k | 42 | 16.7 | [36] |
| Stateline (2003) k | 42 | 16.7 | [36] |
| Stateline (2006) k | 42 | 16.7 | [37] |
| Vansycle | 50 | 23.4 | [38] |
| Vantage | 25 | 21.4 | [39] |
| Wild Horse | 41 | 17.7 | [40] |
| Windy Flats (Windy Point II) | 17.1 |  | [41] |
| **Northern Forest Biome** | | | |
| Lempster (2010) | 56.3 | 5 | [42] |
| Maple Ridge (2007) | 62.0 |  | [43] |
| Maple Ridge (2008) | 66.0 |  | [44] |
| Noble Altona (2010) | 74.0 |  | [45] |
| Noble Chateaugay (2010) | 67.0 |  | [46] |
| Noble Clinton (2008) | 80.0 |  | [47] |
| Noble Clinton (2009) | 75.0 |  | [48] |
| Noble Ellenburg (2008) | 85.0 |  | [49] |
| Noble Ellenburg (2009) | 75.0 |  | [50] |
| **Pacific Biome** | | | |
| Alite (2010) | 56.8 | 5.85 | [51] |
| Diablo | 44.0 |  | [52,53] |
| Dillon m | 72.0 | 17.39 | [54] |
| Pine Tree | 41.2 | 1.92 | [55] |
| Shiloh I | 35.0 |  | [56] |
| Shiloh II (Year 1) | 67.0 |  | [57] |
| **Prairie Biome** | | | |
| Barton Chapel | 38.2 | 7.09 | [58] |
| Blue Sky Green Field | 61.3 | 10.62 | [59] |
| Buffalo Gap I |  | 4 | [60] |
| Buffalo Gap II |  | 1.64 | [61] |
| Buffalo Ridge (Phase I; 1996)a | 29.4 | 4.69 | [62] |
| Buffalo Ridge (Phase I; 1997) a | 29.4 | 4.69 | [62] |
| Buffalo Ridge (Phase I; 1998) a | 29.4 | 4.69 | [62] |
| Buffalo Ridge (Phase I; 1999) a | 29.4 | 4.69 | [62] |
| Buffalo Ridge (Phase II; 1998) a | 29.4 | 4.69 | [62] |
| Buffalo Ridge (Phase II; 1999) a | 29.4 | 4.69 | [62] |
| Buffalo Ridge (Phase III; 1999) a | 29.4 | 4.69 | [62] |
| Buffalo Ridge I (2010) | 62.3 | 8.34 | [63] |
| Buffalo Ridge II (2011) | 84.4 | 7.2 | [64] |
| Cedar Ridge (2009) | 51 |  | [65] |
| Cedar Ridge (2010) | 80 |  | [66] |
| Elm Creek | 65.1 | 8.08 | [67] |
| Elm Creek II | 82.1 | 8.4 | [68] |
| Grand Ridge I | 52.4 | 6.22 | [69] |
| NPPD Ainsworth | 56 | 5.1 | [70] |
| Prairie Winds SD1 (Crow Lake) | 37.7 | 8.31 (spring, fall), 24.3 (summer),7.40 (winter), 11.27 (overall) | [71] |
| Rugby | 57.1 | 8.45 | [72] |
| Wessington Springs (2009) | 17.6 | 7.7 | [73] |
| Wessington Springs (2010) | 40.4 | 10.89 | [74] |
| Winnebago | 78.7 | 6.67 | [75] |
| **Projects with All Bird Estimates (where small bird estimates were not available) by region** | | | |
| **Eastern Biome** | | | |
| Buffalo Mountain (2000-2003) |  |  | [76] |
| Buffalo Mountain (2005) |  |  | [77] |
| Casselman (2008) |  |  | [78] |
| Casselman (2009) |  |  | [79] |
| Cohocton/Dutch Hill (2009) |  | 4 | [80] |
| Cohocton/Dutch Hills (2010) |  |  | [81] |
| Locust Ridge II (2009) | 29.0 |  | [82] |
| Locust Ridge II (2010) | 70.0 |  | [82] |
| Mountaineer (2003) |  |  | [83] |
| Munnsville (2008) | 16.6 |  | [84] |
| Ripley (2008) |  |  | [85] |
| Sheldon (2010) | 67.6 | 3.65 | [86] |
| Sheldon (2011) | 84.2 | 3.75 | [87] |
| **Intermountain West** | | | |
| Big Horn | 43 | 20.6 | [88] |
| Harvest Wind (2010-2012) | 46 |  | [89] |
| Leaning Juniper | 63.8 | 10.33 | [90] |
| Pebble Springs |  |  | [91] |
| Summerview (2006) | 72.3 |  | [92] |
| Tuolumne (Windy Point I) | 33.3 | 12.33 | [93] |
| White Creek (2007-2011) | 35 |  | [94] |
| **Northern Forest Biome** | | | |
| Lempster (2009) | 53.9 | 6.23 | [95] |
| Mars Hill (2007) |  |  | [96] |
| Mars Hill (2008) | 25.0 |  | [97] |
| Stetson Mountain I (2009) |  |  | [98] |
| Stetson Mountain I (2011) |  |  | [99] |
| Stetson Mountain II (2010) |  |  | [100] |
| **Pacific Biome** | | | |
| High Winds (2004) | 50 |  | [101] |
| High Winds (2005) | 50 |  | [101] |
| **Prairie Biome** | | | |
| Barton I and II | 73.1 | 5.96 | [102] |
| Kewaunee County | 72.0 |  | [103] |
| Moraine II | 68.8 | 7.10 | [104] |
| Pioneer Prairie I (Phase II) | 86.6 | 3.8 | [105] |
| Prairie Winds ND1/Minot (2010) | 64.3 |  | [106] |
| Prairie Winds ND1/Minot (2011) | 25.8 | 19.08 | [107] |
| Top of Iowa (2003) |  |  | [108] |
| Top of Iowa (2004 |  |  | [108] |
| a searcher efficiency numbers and carcass removal trial numbers are a combination of all years and phases  b this is based on the number of carcasses placed in 1999 and 2000 combined and efficiency rate for all years and phases combined;  c this is the number of carcasses placed in 1999 and 2000 combined  d mean removal times are listed as spring, summer, fall, winter and total  e total number of carcass placed from 2007-2009  f total number of carcass placed from 2008-2010  g efficiency rates are listed as spring, summer, fall, and winter 2008-2009 and spring, summer, fall and winter 2009-2010  h mean removal times are listed as spring, summer, fall, and winter 2007-2008 and spring, summer, fall and winter 2008-2009  g is the total number of carcass placed from 2008-2010  h mean removal times are listed as spring, summer, fall, and winter 2008-2009 and spring, summer, fall and winter 2009-2010  i total number of carcasses placed in 2002 and 2003 combined  j is the total number of carcass placed from 2008-2010  k searcher efficiency trails were not conducted in 2006. Searcher efficiency rates are from Erickson et al. 2004 were used in the 2006 study  l mean removal times are listed as spring, summer, fall, and winter 2008-2009 and spring, summer, fall and winter 2009-2010  m 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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