

**Supplementary material: *Estimated dates of recent extinctions for North American and Hawaiian birds* (Elphick et al. 2010)**

**Table S1.** Sighting data used in analyses for Elphick et al. 2010. The citation number for each year within a sighting record is given by the superscript. We include data for species (or populations) that fit our analysis goals, but for which too few data were available to analyze in the hopes that others will be able to find additional sighting data. This data set is modified from that published on-line to incorporate additional information that has subsequently come to light (changes highlighted in blue). Any changes in the statistical results that arise from the inclusion of new information will be listed at the bottom of the document.

| <b>Species</b>   | <b>Years of Sightings</b>  |
|--|--|
| <b>Labrador Duck</b> <i>Camptorhynchus labradorius</i> |  |
| Physical evidence                                      | ~1840 <sup>37</sup> , ~1842 <sup>37</sup> , 1844 <sup>18</sup> , 1852 <sup>19</sup> , 1856 <sup>27</sup> , 1857 <sup>19</sup> , 1858 <sup>19</sup> , 1862 <sup>19</sup> , 1865 <sup>19</sup> , 1871 <sup>19</sup> , 1875 <sup>19</sup>   |
| Independent expert opinion<br>(added to PE)            | none found reported  |
| Controversial sightings                                | 1872 <sup>18</sup> , 1878 <sup>19</sup>  |
| <b>Heath Hen</b> <i>Tympanuchus cupido cupido</i>      |  |
| Physical evidence                                      | 1889 <sup>65</sup> , 1890 <sup>45</sup> , 1891 <sup>53</sup> , 1892 <sup>45</sup> , 1893 <sup>45</sup> , 1894 <sup>45</sup> , 1895 <sup>45</sup> , 1896 <sup>45</sup> , 1897 <sup>45</sup> , 1898 <sup>45</sup> , 1899 <sup>45</sup> , 1901 <sup>53</sup> , 1902 <sup>54</sup> , 1903 <sup>65</sup> , 1909 <sup>65</sup> , 1912 <sup>65</sup> , 1923 <sup>45</sup> , 1931 <sup>36</sup>  |
| Independent expert opinion<br>(added to PE)            | 1906 <sup>35</sup> , 1907 <sup>35</sup> , 1908 <sup>35</sup> , 1910 <sup>35</sup> , 1911 <sup>35</sup> , 1913 <sup>35</sup> , 1914 <sup>35</sup> , 1915 <sup>35</sup> , 1916 <sup>35</sup> , 1917 <sup>35</sup> , 1918 <sup>35</sup> , 1919 <sup>45</sup> , 1920 <sup>35</sup> , 1921 <sup>35</sup> , 1922 <sup>35</sup> , 1924 <sup>35</sup> , 1925 <sup>35</sup> , 1926 <sup>35</sup> , 1927 <sup>35</sup> , 1928 <sup>36</sup> , 1932 <sup>44</sup> |
| Controversial sightings                                | none found reported  |

| <b>Laysan Rail <i>Porzana palmeri</i><sup>a</sup></b>     |   |
|---|---|
| Physical evidence   | 1891 <sup>5</sup> , 1893 <sup>5</sup> , 1894 <sup>5</sup> , 1897 <sup>5</sup> , 1902 <sup>5</sup> , 1903 <sup>5</sup> , 1904 <sup>5</sup> , 1907 <sup>5</sup> , 1911 <sup>5</sup> , 1912 <sup>55</sup> , 1913 <sup>5</sup> , 1923 <sup>5</sup> , 1924 <sup>5</sup> , 1929 <sup>5</sup> , 1936 <sup>5</sup> , 1937 <sup>5</sup> , 1940 <sup>4</sup>  |
| Independent expert opinion<br>(added to PE)               | 1896 <sup>14</sup> , 1905 <sup>14</sup> , 1910 <sup>14</sup> , 1915 <sup>14</sup> , 1916 <sup>14</sup> , 1918 <sup>51</sup> , 1922 <sup>14</sup> , 1939 <sup>4</sup> , 1941 <sup>14</sup> , 1943 <sup>69</sup> , 1944 <sup>4</sup>  |
| Controversial sightings                                   | 1945 <sup>69</sup>  |
| <b>Hawaiian Rail <i>P. sandwichensis</i></b>              |   |
| Physical evidence   | 1779 <sup>69</sup> , 1859-1864 <sup>69</sup> {5 records during this time period; in analysis as: 1859, 1860, 1861, 1863, 1864}  |
| Independent expert opinion<br>(added to PE)               | 1884 <sup>69</sup>  |
| Controversial sightings                                   | 1889 <sup>70</sup> , 1893 <sup>39</sup>   |
| <b>Eskimo Curlew <i>Numenius borealis</i><sup>b</sup></b> |   |
| Physical evidence   | 1900 <sup>37</sup> , 1901 <sup>37</sup> , 1902 <sup>37</sup> , 1903 <sup>37</sup> , 1904 <sup>37</sup> , 1905 <sup>32</sup> , 1906 <sup>31</sup> , 1908 <sup>37</sup> , 1911 <sup>31</sup> , 1912 <sup>37</sup> , 1913 <sup>37</sup> , 1914 <sup>37</sup> , 1918 <sup>37</sup> , 1932 <sup>37</sup> , 1962 <sup>31</sup> , 1963 <sup>31</sup>   |
| Independent expert opinion<br>(added to PE)               | 1926 <sup>31</sup> , 1929 <sup>31</sup> , 1930 <sup>31</sup> , 1933 <sup>31</sup> , 1937 <sup>31</sup> , 1939 <sup>31</sup> , 1945 <sup>31</sup> , 1947 <sup>31</sup> , 1948 <sup>31</sup> , 1950 <sup>31</sup> , 1959 <sup>31</sup> , 1960 <sup>31</sup> , 1961 <sup>31</sup>  |
| Controversial sightings                                   | 1956 <sup>31</sup> , 1964 <sup>31</sup> , 1968 <sup>31</sup> , 1970 <sup>31</sup> , 1972 <sup>31</sup> , 1973 <sup>31</sup> , 1974 <sup>31</sup> , 1976 <sup>31</sup> , 1977 <sup>31</sup> , 1980 <sup>31</sup> , 1981 <sup>31</sup> , 1982 <sup>31</sup> , 1983 <sup>31</sup> , 1985 <sup>31</sup> , 1987 <sup>32</sup> , 1990 <sup>26</sup> , 1992 <sup>41</sup> , 1996 <sup>41</sup> , 2002 <sup>41</sup> , 2006 <sup>41</sup> |

|   |   |
|---|---|
| <b>Great Auk</b> <i>Pinguinus impennis</i>              |   |
| Physical evidence                                       | 1812 <sup>37</sup> , 1813 <sup>25</sup> , 1815 <sup>37</sup> , 1821 <sup>24</sup> , 1828 <sup>24</sup> , 1830 <sup>37</sup> , 1831 <sup>37</sup> , 1833 <sup>37</sup> , 1834 <sup>37</sup> , 1835 <sup>24</sup> , 1836 <sup>37</sup> , 1837 <sup>24</sup> , 1840 <sup>37</sup> , 1841 <sup>24</sup> , 1842/43 <sup>37</sup> , ~1844 <sup>37</sup>   |
| Independent expert opinion (added to PE)                | none found reported   |
| Controversial sightings                                 | 1829 <sup>24</sup> , 1845 <sup>25</sup> , 1848 <sup>24</sup> , 1852 <sup>24</sup> , 1853 <sup>24</sup> , 1856 <sup>24</sup> , 1859 <sup>24</sup> , 1888 <sup>24</sup>   |
| <b>Passenger Pigeon</b> <i>Ectopistes migratorius</i>   |   |
| Physical evidence                                       | 1880 <sup>37</sup> , 1881 <sup>74</sup> , 1882 <sup>74</sup> , 1883 <sup>37</sup> , 1884 <sup>37</sup> , 1885 <sup>37</sup> , 1886 <sup>74</sup> , 1887 <sup>37</sup> , 1888 <sup>37</sup> , 1889 <sup>74</sup> , 1890 <sup>37</sup> , 1891 <sup>74</sup> , 1892 <sup>74</sup> , 1893 <sup>74</sup> , 1894 <sup>74</sup> , 1895 <sup>74</sup> , 1896 <sup>74</sup> , 1897 <sup>74</sup> , 1898 <sup>74</sup> , 1899 <sup>74</sup> , 1900 <sup>74</sup> , 1901 <sup>74</sup>   |
| Independent expert opinion (added to PE)                | none found reported   |
| Controversial sightings                                 | 1902 <sup>74</sup> , 1905 <sup>74</sup> , 1906 <sup>74</sup> , 1907 <sup>74</sup>   |
| <b>Carolina Parakeet</b> <i>Conuropsis carolinensis</i> |   |
| Physical evidence                                       | 1881 <sup>49</sup> , 1882 <sup>49</sup> , 1883 <sup>49</sup> , 1884 <sup>49</sup> , 1885 <sup>49</sup> , 1887 <sup>49</sup> , 1888 <sup>49</sup> , 1889 <sup>49</sup> , 1890 <sup>49</sup> , 1891 <sup>49</sup> , 1892 <sup>49</sup> , 1893 <sup>49</sup> , 1894 <sup>49</sup> , 1895 <sup>49</sup> , 1896 <sup>49</sup> , 1897 <sup>49</sup> , 1898 <sup>49</sup> , 1899 <sup>49</sup> , 1900 <sup>49</sup> , 1901 <sup>49</sup> , 1902 <sup>37</sup> , 1903 <sup>49</sup> , 1904 <sup>49</sup> , 1908 <sup>49</sup> , 1913 <sup>37</sup> , 1914 <sup>37</sup> |
| Independent expert opinion (added to PE)                | 1880 <sup>49</sup> , 1886 <sup>49</sup>   |
| Controversial sightings                                 | 1905 <sup>49</sup> , 1907 <sup>49</sup> , 1909 <sup>49</sup> , 1910 <sup>49</sup> , 1912 <sup>49</sup> , 1915 <sup>49</sup> , 1916 <sup>49</sup> , 1917 <sup>49</sup> , 1918 <sup>49</sup> , 1920 <sup>49</sup> , 1923/24, 1925 <sup>49</sup> , 1926 <sup>49</sup> , 1927 <sup>81</sup> , 1928 <sup>49</sup> , 1934, 1935 <sup>80</sup> , 1937 <sup>81</sup> , 1938 <sup>49</sup> , 1941 <sup>80</sup> , 1944 <sup>80</sup> , 1950 <sup>80</sup>  |

| <b>Ivory-billed woodpecker</b> <i>Campephilus principalis</i> |   |
|---|---|
| Physical evidence   | 1897 <sup>37</sup> , 1898 <sup>37</sup> , 1899 <sup>37</sup> , 1900 <sup>42</sup> , 1901 <sup>37</sup> , 1902 <sup>37</sup> , 1904 <sup>37</sup> , 1905 <sup>37</sup> , 1906 <sup>37</sup> , 1907 <sup>37</sup> , 1908 <sup>37</sup> , 1909 <sup>37</sup> , 1910 <sup>37</sup> , 1913 <sup>37</sup> , 1914 <sup>37</sup> , 1917 <sup>37</sup> , 1924 <sup>42</sup> , 1925 <sup>37</sup> , 1932 <sup>42</sup> , 1935 <sup>37</sup> , 1938 <sup>84</sup> , 1939 <sup>23</sup>   |
| Independent expert opinion<br>(added to PE)                   | 1911 <sup>84</sup> , 1916 <sup>84</sup> , 1920 <sup>84</sup> , 1921 <sup>84</sup> , 1923 <sup>84</sup> , 1926 <sup>42</sup> , 1929 <sup>84</sup> , ~1930 <sup>84</sup> , 1931 <sup>84</sup> , 1933 <sup>84</sup> , 1934 <sup>42</sup> , 1936 <sup>84</sup> , 1937 <sup>84</sup> , 1941 <sup>42</sup> , 1942 <sup>42</sup> , 1943 <sup>42</sup> , 1944 <sup>42</sup>   |
| Controversial sightings                                       | 1946 <sup>42</sup> , 1948 <sup>43</sup> , 1949 <sup>42</sup> , 1950 <sup>42</sup> , 1951 <sup>42</sup> , 1952 <sup>42</sup> , 1955 <sup>42</sup> , 1958 <sup>43</sup> , 1959 <sup>42</sup> , 1962 <sup>42</sup> , 1966 <sup>42</sup> , 1967 <sup>42</sup> , 1968 <sup>42</sup> , 1969 <sup>42</sup> , 1971 <sup>42</sup> , 1972 <sup>42</sup> , 1973 <sup>43</sup> , 1974 <sup>42</sup> , 1976 <sup>42</sup> , 1981 <sup>43</sup> , 1982 <sup>43</sup> , 1985 <sup>43</sup> , 1986 <sup>43</sup> , 1987 <sup>43</sup> , 1988 <sup>43</sup> , 1999 <sup>42</sup> , 2004 <sup>22</sup> , 2005 <sup>22,40</sup> , 2006 <sup>40</sup>   |
| <b>`Alalā (Hawaiian crow)</b> <i>Corvus hawaiiensis</i>       |   |
| Physical evidence   | 1779 <sup>13</sup> , 1840 <sup>13</sup> , ~1845 <sup>13</sup> , 1876 <sup>13</sup> , 1888 <sup>13</sup> , 1891 <sup>13</sup> , 1892 <sup>13</sup> , 1896 <sup>13</sup> , 1899 <sup>13</sup> , 1901 <sup>13</sup> , 1902 <sup>13</sup> , 1949 <sup>13</sup> , 1961 <sup>48</sup> , 1974 <sup>13</sup> , 1975 <sup>13</sup> , 1977 <sup>48</sup> , 2002 <sup>48</sup>   |
| Independent expert opinion<br>(added to PE)                   | 1887 <sup>13</sup> , 1894 <sup>13</sup> , 1895 <sup>13</sup> , 1896 <sup>13</sup> , 1910 <sup>13</sup> , 1911 <sup>13</sup> , 1920s <sup>13</sup> , 1936 <sup>13</sup> , 1940 <sup>13</sup> , 1944 <sup>13</sup> , 1949 <sup>13</sup> , 1950 <sup>13</sup> , 1951 <sup>13</sup> , 1952 <sup>13</sup> , 1955 <sup>13</sup> , 1957 <sup>13</sup> , 1960 <sup>13</sup> , 1964 <sup>13</sup> , 1965 <sup>13</sup> , 1966 <sup>13</sup> , 1967 <sup>13</sup> , 1968 <sup>13</sup> , 1969 <sup>13</sup> , 1970 <sup>13</sup> , 1971 <sup>13</sup> , 1972 <sup>13</sup> , 1973 <sup>13</sup> , 1974 <sup>13</sup> , 1975 <sup>13</sup> , 1976 <sup>13</sup> , 1978 <sup>13</sup> , 1979 <sup>50</sup> , 1980 <sup>50</sup> , 1981 <sup>50</sup> , 1982 <sup>50</sup> , 1983 <sup>50</sup> , 1984 <sup>50</sup> , 1985 <sup>50</sup> , 1986 <sup>50</sup> , 1987 <sup>50</sup> , 1988 <sup>50</sup> , 1989 <sup>50</sup> , 1990 <sup>50</sup> , 1991 <sup>50</sup> , 1992 <sup>87</sup> , 1993 <sup>87</sup> , 1994 <sup>87</sup> , 1995 <sup>87</sup> , 1996 <sup>87</sup> , 1997 <sup>87</sup> , 1998 <sup>87</sup> , 1999 <sup>87</sup> , 2000 <sup>87</sup> , 2001 <sup>87</sup> , 2003 <sup>87</sup> |
| Controversial sightings                                       | none found reported   |
| <b>Kaua`i `Ō`ō</b> <i>Moho braccatus</i>                      |   |
| Physical evidence   | ~1836 <sup>7</sup> , 1840 <sup>7</sup> , 1888 <sup>7</sup> , 1891 <sup>7</sup> , 1893 <sup>7</sup> , 1894 <sup>7</sup> , 1895 <sup>7</sup> , 1896 <sup>7</sup> , 1898 <sup>7</sup> , 1899 <sup>7</sup> , 1960 <sup>7</sup> , 1965 <sup>48</sup> , 1968 <sup>48</sup> , 1971 <sup>83</sup> , 1975 <sup>48</sup> , 1976 <sup>48</sup>   |
| Independent expert opinion<br>(added to PE)                   | 1911 <sup>7</sup> , 1936 <sup>7</sup> , 1940 <sup>7</sup> , 1946 <sup>7</sup> , 1947 <sup>7</sup> , 1961 <sup>7</sup> , 1962 <sup>7</sup> , 1963 <sup>7</sup> , 1964 <sup>7</sup> , 1972 <sup>83</sup> , 1973 <sup>7</sup> , 1974 <sup>83</sup> , 1978 <sup>69</sup> , 1979 <sup>70</sup> , 1980 <sup>69</sup> , 1981 <sup>73</sup> , 1983 <sup>73</sup> , 1984 <sup>73</sup> , 1985 <sup>68</sup> , 1987 <sup>69</sup>   |
| Controversial sightings                                       | 1932 <sup>7</sup> , 1969 <sup>70</sup> , 1982 <sup>70</sup> , 1992 <sup>70</sup> , 1995 <sup>70</sup> , 2000 <sup>70</sup> , 2001 <sup>70</sup>   |

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| <b>O`ahu `Ō`ō <i>M. apicalis</i></b>        |  |
| Physical evidence                           | 1786/87 <sup>7</sup> , 1834 <sup>7</sup> , 1837 <sup>7</sup>   |
| Independent expert opinion<br>(added to PE) | none found reported  |
| Controversial sightings                     | 1911 <sup>70</sup> , 1936 <sup>70</sup> , 1937/38 <sup>7</sup> , 1939 <sup>7</sup> , 1944 <sup>7</sup> , 1963 <sup>7</sup> , 1976 <sup>70</sup>  |
| <b>Bishop's `Ō`ō <i>M. bishopi</i></b>      |  |
| Moloka`i Physical evidence                  | 1892 <sup>7</sup> , 1893 <sup>7</sup> , ~1900 <sup>7</sup> , 1902 <sup>7</sup>   |
| Independent expert opinion<br>(added to PE) | 1904 <sup>7</sup>  |
| Controversial sightings                     | none found reported  |
| Maui Physical evidence                      | none found reported  |
| Independent expert opinion<br>(added to PE) | 1901 <sup>7</sup>  |
| Controversial sightings                     | 1950 <sup>7</sup> , 1955 <sup>7</sup> , 1973 <sup>7</sup> , 1974 <sup>7</sup> , 1975 <sup>7</sup> , 1980 <sup>72</sup> , 1983 <sup>73</sup>  |
| <b>Hawai`i `Ō`ō <i>M. nobilis</i> °</b>     |  |
| Physical evidence                           | 1851 <sup>56</sup> , 1875 <sup>7</sup> , 1887/88 <sup>7</sup> , 1891 <sup>7</sup> , 1892 <sup>7</sup> , 1894 <sup>7</sup> , 1895 <sup>7</sup> , 1896 <sup>7</sup> , 1898 <sup>7</sup> , 1899 <sup>7</sup> , 1900 <sup>7</sup> , 1901 <sup>56</sup> , 1902 <sup>7</sup> |
| Independent expert opinion<br>(added to PE) | 1889 <sup>7</sup>  |
| Controversial sightings                     | 1927/28 <sup>7</sup> , 1934 <sup>7</sup> , 1936/37 <sup>7</sup> , 1937 <sup>7</sup> , 1943/44 <sup>7</sup> , 1954 <sup>7</sup> , 1961/64 <sup>7</sup> , 1965 <sup>7</sup> , 1967 <sup>7</sup> , 1976 <sup>7</sup>  |

|   |  |
|---|--|
| <b>Kioea</b> <i>Chaetoptila angustipluma</i>                              |  |
| Physical evidence   | 1840/41 <sup>7</sup> , 1851 <sup>56</sup> , ~1859 <sup>7</sup>   |
| Independent expert opinion<br>(added to PE)                               | none found reported  |
| Controversial sightings   | none found reported  |
| <b>San Clemente [Bewick's] Wren</b> <i>Thryomanes bewickii leucophrys</i> |  |
| Physical evidence   | 1888 <sup>57</sup> , 1889 <sup>57</sup> , 1894 <sup>57</sup> , 1897 <sup>30</sup> , 1903 <sup>30</sup> , 1907 <sup>30</sup> , 1908 <sup>30</sup> , 1909 <sup>30</sup> , 1914 <sup>30</sup> , 1915 <sup>30</sup> , 1916 <sup>30</sup> , 1918 <sup>30</sup> ,<br>1919 <sup>30</sup> , 1925 <sup>30</sup> , 1929 <sup>30</sup> , 1930 <sup>30</sup> , 1931 <sup>30</sup> , 1938 <sup>30</sup> , 1939 <sup>30</sup> , 1941 <sup>30</sup> |
| Independent expert opinion<br>(added to PE)                               | none reported since last bird collected <sup>46</sup>  |
| Controversial sightings   | none found reported  |
| <b>Laysan Millerbird</b> <i>Acrocephalus familiaris</i>                   |  |
| Physical evidence   | 1885 <sup>5</sup> , 1891 <sup>5</sup> , 1896 <sup>5</sup> , 1902 <sup>5</sup> , 1903 <sup>5</sup> , 1904 <sup>5</sup> , 1907 <sup>5</sup> , 1911 <sup>5</sup> , 1913 <sup>5</sup>  |
| Independent expert opinion<br>(added to PE)                               | 1912 <sup>20</sup> , 1915 <sup>5</sup> , 1916 <sup>5</sup>   |
| Controversial sightings   | none found reported  |

| <b>Kāma`o</b> <i>Myadestes myadestinus</i> <sup>d</sup>  |   |
|--|---|
| Physical evidence  | 1835/37 <sup>6</sup> , 1886 <sup>6</sup> , 1887/88 <sup>6</sup> , 1889 <sup>6</sup> , 1891 <sup>6</sup> , 1894 <sup>6</sup> , 1895 <sup>6</sup> , 1899 <sup>6</sup> , 1898 <sup>56</sup> , 1900 <sup>6</sup> , 1903 <sup>6</sup> , 1960 <sup>56</sup> , 1987 <sup>69</sup>  |
| Independent expert opinion<br>(added to PE)              | 1896 <sup>6</sup> , 1915 <sup>6</sup> , 1932 <sup>6</sup> , 1936 <sup>6</sup> , 1941 <sup>6</sup> , 1943 <sup>70</sup> , 1946 <sup>6</sup> , 1961 <sup>6</sup> , 1962 <sup>6</sup> , 1963 <sup>6</sup> , 1964 <sup>6</sup> , 1965 <sup>6</sup> , 1966 <sup>6</sup> , 1967 <sup>6</sup> , 1968 <sup>6</sup> , 1969 <sup>6</sup> , 1973 <sup>6</sup> , 1974 <sup>6</sup> , 1975 <sup>70</sup> , 1976 <sup>70</sup> , 1977 <sup>6</sup> , 1978 <sup>70</sup> , 1979 <sup>70</sup> , 1981 <sup>73</sup> , 1982 <sup>70</sup> , 1983 <sup>70</sup> , 1984 <sup>70</sup> , 1985 <sup>71</sup> |
| Controversial sightings                                  | 1986 <sup>70</sup> , 1988 <sup>70</sup> , 1989 <sup>70</sup> , 1991 <sup>70</sup> , 1993 <sup>71</sup> , 1995 <sup>71</sup> , 1996 <sup>70</sup> , 1998 <sup>70</sup> , 1999 <sup>70</sup>  |
| <b>`Amaui</b> <i>M. woahuensis</i>                       |   |
| Physical evidence  | 1825 <sup>6</sup>   |
| Independent expert opinion<br>(added to PE)              | none found reported   |
| Controversial sightings                                  | none found reported   |
| <b>Oloma`o</b> <i>M. lanaiensis</i>                      |   |
| Moloka`i<br>( <i>M. l. rutha</i> ):<br>Physical evidence | 1888 <sup>6</sup> , 1892 <sup>6</sup> , 1893 <sup>6</sup> , 1895 <sup>6</sup> , 1906 <sup>6</sup> , 1907 <sup>6</sup>   |
| Independent expert opinion<br>(added to PE)              | 1896 <sup>70</sup> , 1963 <sup>6</sup> , 1972 <sup>6</sup> , 1975 <sup>73b</sup> , 1979 <sup>69</sup> , 1980 <sup>69</sup>  |
| Controversial sightings                                  | 1935 <sup>6</sup> , 1977 <sup>6</sup> , 1988 <sup>70</sup> , 2005 <sup>86</sup>   |

|   |   |
|---|---|
| Lāna`i ( <i>M. l. lanaiensis</i> ):<br>Physical evidence            | 1888 <sup>6</sup> , 1892 <sup>6</sup> , 1894 <sup>6</sup> , 1933 <sup>6</sup>   |
| Independent expert opinion<br>(added to PE)                         | 1911 <sup>6</sup> , 1923 <sup>6</sup> , 1931 <sup>6</sup> , 1932 <sup>6</sup> , 1934 <sup>6</sup>   |
| Controversial sightings   | none found reported   |
| <b>Bachman's warbler</b> <i>Vermivora bachmanii</i>                 |   |
| Physical evidence   | 1887 <sup>28</sup> , 1888 <sup>28</sup> , 1889 <sup>28</sup> , 1890 <sup>28</sup> , 1891 <sup>28</sup> , 1892 <sup>28</sup> , 1893 <sup>28</sup> , 1894 <sup>28</sup> , 1896 <sup>28</sup> , 1897 <sup>28</sup> , 1901 <sup>28</sup> , 1902 <sup>28</sup> , 1905 <sup>28</sup> , 1906 <sup>28</sup> , 1907 <sup>28</sup> , 1908 <sup>28</sup> , 1909 <sup>28</sup> , 1910 <sup>28</sup> , 1912 <sup>28</sup> , 1913 <sup>28</sup> , 1914 <sup>28</sup> , 1915 <sup>28</sup> , 1918 <sup>28</sup> , 1919 <sup>28</sup> , 1924 <sup>28</sup> , 1925 <sup>28</sup> , 1941 <sup>28</sup> , 1949 <sup>38</sup> , 1954 <sup>28</sup> , 1958 <sup>38</sup> , 1959 <sup>48</sup>  |
| Independent expert opinion<br>(added to PE)                         | 1899 <sup>77</sup> , 1904 <sup>77</sup> , 1911 <sup>38</sup> , 1916 <sup>38</sup> , 1917 <sup>38</sup> , 1920 <sup>78</sup> , 1923 <sup>77</sup> , 1936 <sup>82</sup> , 1937 <sup>82</sup> , 1938 <sup>17</sup> , 1940 <sup>17</sup> , 1948 <sup>17</sup> , 1950 <sup>78</sup> , 1951 <sup>17</sup> , 1952 <sup>60</sup> , 1953 <sup>17</sup> , 1961 <sup>77</sup> , 1962 <sup>2</sup>  |
| Controversial sightings   | 1966 <sup>77</sup> , 1974 <sup>77</sup> , 1975 <sup>77</sup> , 1976 <sup>77</sup> , 1977 <sup>1,17</sup> , 1980 <sup>2</sup> , 1981 <sup>38</sup> , 1984 <sup>89</sup> , 1986 <sup>85</sup> , 1988 <sup>16</sup> , 2000 <sup>89</sup> , 2001 <sup>89</sup>  |
| <b>Dusky Seaside Sparrow</b> <i>Ammodramus maritimus nigrescens</i> |   |
| Physical evidence   | 1872 <sup>29</sup> , 1886 <sup>29</sup> , 1898 <sup>29</sup> , 1905 <sup>52</sup> , 1906 <sup>29</sup> , 1910 <sup>29</sup> , 1913 <sup>29</sup> , 1914 <sup>29</sup> , 1920 <sup>29</sup> , 1921 <sup>29</sup> , 1923 <sup>29</sup> , 1925 <sup>29</sup> , 1927 <sup>29</sup> , 1928 <sup>29</sup> , 1930 <sup>29</sup> , 1931 <sup>29</sup> , 1934 <sup>29</sup> , 1935 <sup>29</sup> , 1938 <sup>29</sup> , 1940 <sup>29</sup> , 1941 <sup>29</sup> , 1942 <sup>29</sup> , 1947 <sup>29</sup> , 1949 <sup>29</sup> , 1950 <sup>29</sup> , 1951 <sup>29</sup> , 1952 <sup>29</sup> , 1957 <sup>29</sup> , 1958 <sup>29</sup> , 1960 <sup>29</sup> , 1961 <sup>29</sup> , 1963 <sup>29</sup> , 1978 <sup>88,90</sup> , 1979 <sup>88</sup> , 1980 <sup>88</sup> |
| Independent expert opinion<br>(added to PE)                         | 1926 <sup>88</sup> , 1929 <sup>88</sup> , 1954 <sup>88</sup> , 1962 <sup>88</sup> , 1968 <sup>88</sup> , 1969 <sup>88</sup> , 1970 <sup>88</sup> , 1972 <sup>88</sup> , 1973 <sup>88</sup> , 1974 <sup>88</sup> , 1975 <sup>88</sup> , 1976 <sup>88</sup> , 1977 <sup>88</sup>  |
| Controversial sightings   | none found reported   |

| <b>ʻŌʻū <i>Psittirostra psittacea</i></b>   |  |
|---|--|
| Kauaʻi      Physical evidence               | 1888 <sup>11</sup> , 1890 <sup>61</sup> , 1891 <sup>11</sup> , 1893 <sup>11</sup> , 1895 <sup>11</sup> , 1900 <sup>11</sup> , 1966 <sup>62</sup> , 1967 <sup>62</sup> , 1968 <sup>48</sup> , 1975 <sup>15</sup> , 1976 <sup>48</sup>   |
| Independent expert opinion<br>(added to PE) | 1941 <sup>11</sup> , 1960 <sup>11</sup> , 1961 <sup>11</sup> , 1963 <sup>11</sup> , 1964 <sup>11</sup> , 1965 <sup>11</sup> , 1971 <sup>11</sup> , 1978 <sup>70</sup> , 1979 <sup>70</sup> , 1981 <sup>73</sup> , 1983 <sup>70</sup> , 1984 <sup>70</sup> ,<br>1985 <sup>68</sup> , 1989 <sup>79</sup>   |
| Controversial sightings                     | 1973 <sup>70</sup> , 1976 <sup>70</sup> , 1988 <sup>70</sup> , 1991 <sup>48</sup> , 1992 <sup>70</sup> , 1995 <sup>70</sup> , 1996 <sup>70</sup> , 1997 <sup>70</sup>  |
| Hawaiʻi      Physical evidence              | 1875 <sup>11</sup> , 1887/88 <sup>11</sup> , 1891 <sup>11</sup> , 1892 <sup>11</sup> , 1894 <sup>11</sup> , 1895 <sup>11</sup> , 1896 <sup>11</sup> , 1898 <sup>11</sup> , 1899 <sup>59</sup> , 1900 <sup>59</sup> , 1901 <sup>11</sup> , 1940 <sup>11</sup> ,<br>1950 <sup>11</sup> , 1951 <sup>11</sup> , 1977 <sup>11</sup>   |
| Independent expert opinion<br>(added to PE) | 1933 <sup>11</sup> , 1936 <sup>11</sup> , 1937 <sup>11</sup> , 1938 <sup>11</sup> , 1939 <sup>11</sup> , 1944 <sup>11</sup> , 1959 <sup>11</sup> , 1960 <sup>11</sup> , 1966 <sup>11</sup> , 1967 <sup>11</sup> , 1970 <sup>11</sup> , 1972 <sup>11</sup> ,<br>1974 <sup>11</sup> , 1978 <sup>11</sup> , 1979 <sup>11</sup> , 1981 <sup>79</sup> , 1986 <sup>69</sup> , 1987 <sup>79</sup> |
| Controversial sightings                     | 1945 <sup>11</sup> , 1948 <sup>11</sup> , 1949 <sup>11</sup> , 1953 <sup>11</sup> , 1955 <sup>11</sup> , 1971 <sup>11</sup> , 1984 <sup>70</sup> , 1985 <sup>70</sup> , 1986 <sup>70</sup>   |
| Oʻahu      Physical evidence                | 1837 <sup>11</sup> , 1846 <sup>11</sup>  |
| Independent expert opinion<br>(added to PE) | 1893 <sup>11</sup> , 1899 <sup>11</sup>  |
| Controversial sightings                     | none found reported  |
| Molokaʻi      Physical evidence             | 1888 <sup>11</sup> , 1893 <sup>11</sup> , 1895 <sup>11</sup> , 1907 <sup>11</sup>  |
| Independent expert opinion<br>(added to PE) | 1896/97 <sup>11</sup>  |
| Controversial sightings                     | 1965 <sup>11</sup>   |

|   |   |   |
|---|---|---|
| Lāna`i  | Physical evidence                           | 1888 <sup>11</sup> , 1892 <sup>11</sup> , 1894 <sup>11</sup> , 1913 <sup>11</sup> , 1923 <sup>11</sup> , 1927 <sup>11</sup> |
|   | Independent expert opinion<br>(added to PE) | 1916 <sup>11</sup> , 1918 <sup>11</sup>   |
|   | Controversial sightings                     | none found reported   |
| Maui  | Physical evidence                           | 1892 <sup>11</sup> , 1901 <sup>11</sup>   |
|   | Independent expert opinion<br>(added to PE) | 1879 <sup>11</sup> , 1890 <sup>11</sup> , 1894 <sup>11</sup> , 1896 <sup>11</sup>   |
|   | Controversial sightings                     | 1945 <sup>11</sup>  |
| <b>Lāna`i Hookbill</b> <i>Dysmorodrepanis munroi</i>  |   |   |
|   | Physical evidence                           | 1913 <sup>69</sup>  |
|   | Independent expert opinion<br>(added to PE) | none found reported   |
|   | Controversial sightings                     | 1916 <sup>69</sup> , 1918 <sup>69</sup>   |
| <b>Lesser Koa-finch</b> <i>Rhodacanthis flaviceps</i> |   |   |
|   | Physical evidence                           | 1891 <sup>11</sup>  |
|   | Independent expert opinion<br>(added to PE) | none found reported   |
|   | Controversial sightings                     | none found reported   |

|   |  |
|---|--|
| <b>Greater Koa-finch</b> <i>R. palmeri</i>                            |  |
| Physical evidence   | 1891 <sup>11</sup> , 1892 <sup>11</sup> , 1896 <sup>11</sup>   |
| Independent expert opinion<br>(added to PE)                           | 1893 <sup>11</sup> , 1894 <sup>11</sup> , 1895 <sup>11</sup>   |
| Controversial sightings   | 1937 <sup>11</sup> , 1967 <sup>11</sup>  |
| <b>Kona Grosbeak</b> <i>Chloridops kona</i>                           |  |
| Physical evidence   | 1887 <sup>11</sup> , 1891 <sup>11</sup> , 1892 <sup>11</sup>   |
| Independent expert opinion<br>(added to PE)                           | none found reported  |
| Controversial sightings   | none found reported  |
| <b>Greater Amakihi</b> <i>Hemignathus sagittirostris</i> <sup>e</sup> |  |
| Physical evidence   | 1892 <sup>10</sup> , 1895 <sup>10</sup> , 1896 <sup>10</sup> , 1900 <sup>10</sup> , 1901 <sup>10</sup> |
| Independent expert opinion<br>(added to PE)                           | none found reported  |
| Controversial sightings   | none found reported  |

|   |  |
|---|--|
| <b>Lesser `Akialoa</b> <i>H. obscurus</i>                 |  |
| Physical evidence   | 1840 <sup>9</sup> , 1841 <sup>9</sup> , 1851 <sup>59</sup> , 1875 <sup>9</sup> , 1876 <sup>9</sup> , 1887 <sup>9</sup> , 1888 <sup>9</sup> , 1891 <sup>9</sup> , 1892 <sup>9</sup> , 1894 <sup>9</sup> , 1895 <sup>9</sup> , 1896 <sup>9</sup> , 1898 <sup>9</sup> , 1899 <sup>63</sup> , 1900 <sup>59</sup> , 1901 <sup>9</sup> , 1902 <sup>9</sup> , 1903 <sup>9</sup> |
| Independent expert opinion<br>(added to PE)               | none found reported  |
| Controversial sightings                                   | 1940 <sup>9</sup>  |
| <b>Greater `Akialoa</b> <i>H. ellisianus</i> <sup>f</sup> |  |
| O`ahu Physical evidence                                   | 1837 <sup>9</sup> , 1838 <sup>9</sup>  |
| Independent expert opinion<br>(added to PE)               | 1892 <sup>9</sup>  |
| Controversial sightings                                   | 1935 <sup>9</sup> , 1937 <sup>9</sup> , 1939 <sup>9</sup>  |
| Lāna`i Physical evidence                                  | 1892 <sup>9</sup>  |
| Independent expert opinion<br>(added to PE)               | 1894 <sup>9</sup>  |
| Controversial sightings                                   | none found reported  |
| Kaua`i Physical evidence                                  | ~1887 <sup>9</sup> , 1888 <sup>9</sup> , 1891 <sup>9</sup> , 1892 <sup>9</sup> , 1893 <sup>9</sup> , 1894 <sup>9</sup> , 1895 <sup>9</sup> , 1898 <sup>9</sup> , 1899 <sup>9</sup> , 1900 <sup>9</sup> , 1960 <sup>9</sup>   |
| Independent expert opinion<br>(added to PE)               | 1896 <sup>9</sup> , 1897 <sup>9</sup> , 1936 <sup>70</sup> , 1941 <sup>9</sup> , 1957 <sup>9</sup> , 1963 <sup>9</sup> , 1965 <sup>9</sup> , 1969 <sup>70</sup>  |
| Controversial sightings                                   | 1992 <sup>70</sup> , 1995 <sup>70</sup>  |

| <b>Nukupu`u <i>H. lucidus</i></b> <sup>9</sup> |   |   |
|--|---|---|
| O`ahu  | Physical evidence                               | 1837 <sup>5</sup> , 1838 <sup>5</sup>   |
|  | Independent expert opinion<br>(added to PE)     | none found reported   |
|  | Controversial sightings                         | 1939 <sup>9</sup>   |
| Kaua`i   | ( <i>H. l. hanapepe</i> ):<br>Physical evidence | 1888 <sup>5</sup> , 1891 <sup>5</sup> , 1893 <sup>5</sup> , 1894 <sup>5</sup> , 1895 <sup>5</sup> , 1897 <sup>9</sup> , 1899 <sup>5</sup>   |
|  | Independent expert opinion<br>(added to PE)     | none found reported   |
|  | Controversial sightings                         | 1960 <sup>9</sup> , 1961 <sup>9</sup> , 1965 <sup>9</sup> , 1968 <sup>5</sup> , 1973 <sup>70</sup> , 1974 <sup>70</sup> , 1975 <sup>67</sup> , 1979 <sup>70</sup> , 1981 <sup>67</sup> , 1985 <sup>70</sup> , 1986 <sup>67</sup> , 1987 <sup>70</sup> , 1988 <sup>70</sup> ,<br>1989 <sup>67</sup> , 1991 <sup>69</sup> , 1995 <sup>70</sup> , 1996 <sup>70</sup>   |
| Maui   | ( <i>H. l. affinis</i> ):<br>Physical evidence  | 1892 <sup>5</sup> , 1894 <sup>5</sup> , 1896 <sup>5</sup>   |
|  | Independent expert opinion<br>(added to PE)     | none found reported   |
|  | Controversial sightings                         | 1967 <sup>9</sup> , 1968 <sup>9</sup> , 1973 <sup>9</sup> , 1975 <sup>9</sup> , 1976 <sup>67</sup> , 1978 <sup>9</sup> , 1979 <sup>9</sup> , 1980 <sup>73</sup> , 1981 <sup>67</sup> , 1983 <sup>70</sup> , 1985 <sup>70</sup> , 1986 <sup>70</sup> , 1987 <sup>70</sup> ,<br>1988 <sup>67</sup> , 1989 <sup>70</sup> , 1990 <sup>70</sup> , 1991 <sup>70</sup> , 1993 <sup>67</sup> , 1994 <sup>70</sup> , 1995 <sup>70</sup> , 1996 <sup>70</sup> |

| <b>O`ahu 'Alauahio</b> <i>Paroreomyza maculata</i> <sup>h</sup> |   |
|---|---|
| Physical evidence   | 1836/37 <sup>5</sup> , 1891 <sup>5</sup> , 1892 <sup>10</sup> , 1893 <sup>5</sup> , 1900 <sup>59</sup> , 1901 <sup>5</sup> , 1902 <sup>5</sup> , 1903 <sup>5</sup> , 1950 <sup>10</sup> , 1968 <sup>69</sup>  |
| Independent expert opinion<br>(added to PE)                     | 1896 <sup>10</sup> , 1936 <sup>10</sup> , 1937 <sup>10</sup> , 1938 <sup>10</sup> , 1939 <sup>10</sup> , 1940 <sup>10</sup> , 1946 <sup>10</sup> , 1947 <sup>10</sup> , 1948 <sup>10</sup> , 1949 <sup>10</sup> , 1959 <sup>10</sup> ,  |
| Controversial sightings   | 1952 <sup>10</sup> , 1955 <sup>10</sup> , 1956 <sup>10</sup> , 1957 <sup>10</sup> , 1958 <sup>10</sup> , 1960 <sup>10</sup> , 1961 <sup>10</sup> , 1964 <sup>10</sup> , 1966 <sup>10</sup> , 1968 <sup>10</sup> , 1969 <sup>10</sup> , 1972 <sup>10</sup> ,<br>1973 <sup>10</sup> , 1977 <sup>48</sup> , 1978 <sup>48</sup> , 1984 <sup>70</sup> , 1985 <sup>70,86</sup> , 1989 <sup>70</sup> , 1990 <sup>70</sup> , 1991 <sup>86</sup> , 1993 <sup>70</sup> , 1997 <sup>70</sup> , 2000 <sup>70</sup> , 2001 <sup>70</sup> ,<br>2002 <sup>70</sup> |
| <b>Maui 'Alauahio</b> <i>P. montana</i> on Lāna`i               |   |
| Physical evidence   | 1888 <sup>10</sup> , 1892 <sup>10</sup> , 1894 <sup>10</sup> , 1923 <sup>10</sup> , 1924 <sup>10</sup> , 1927 <sup>10</sup> , 1928 <sup>10</sup>  |
| Independent expert opinion<br>(added to PE) <sup>9</sup>        | 1931 <sup>10</sup> , 1932 <sup>10</sup> , 1937 <sup>10</sup>  |
| Controversial sightings   | none found reported   |
| <b>Kākāwahie</b> <i>P. flammea</i>                              |   |
| Physical evidence   | 1870 <sup>10</sup> , 1873 <sup>10</sup> , 1880 <sup>10</sup> , 1888 <sup>10</sup> , 1892 <sup>10</sup> , 1893 <sup>10</sup> , 1896 <sup>10</sup> , 1899 <sup>10</sup> , 1902 <sup>10</sup> , 1906 <sup>10</sup> , 1907 <sup>10</sup>  |
| Independent expert opinion<br>(added to PE)                     | 1895 <sup>10</sup> , 1961 <sup>10</sup> , 1962 <sup>69</sup> , 1963 <sup>10</sup>   |
| Controversial sightings   | 1936 <sup>10</sup>  |

|  |  |
|--|--|
| <b>Maui `Ākepa</b> <i>Loxops coccineus ochraceus</i> |  |
| Physical evidence                                    | 1879 <sup>10</sup> , 1891 <sup>10</sup> , 1892 <sup>10</sup> , 1894 <sup>10</sup> , 1900 <sup>10</sup> , 1901 <sup>10</sup>  |
| Independent expert opinion<br>(added to PE)          | 1950 <sup>70</sup> , 1953 <sup>70</sup> , 1958 <sup>10</sup> , 1970 <sup>10</sup> , 1972 <sup>14a</sup> , 1973 <sup>70</sup> , 1975 <sup>73a</sup> , 1979 <sup>70</sup> , 1980 <sup>73</sup> |
| Controversial sightings                              | 1961 <sup>70</sup> , 1990 <sup>70</sup> , 1993 <sup>70</sup> , 1994 <sup>70</sup> , 1995 <sup>70</sup> , 1988 <sup>71,33</sup>   |
| <b>Oahu `Ākepa</b> <i>L. c. rufus</i>                |  |
| Physical evidence                                    | 1825 <sup>10,69</sup> , 1837 <sup>10</sup> , ~1842 <sup>10</sup> , 1893 <sup>10</sup>  |
| Independent expert opinion<br>(added to PE)          | 1900/01 <sup>10</sup>  |
| Controversial sightings                              | (1 in 1935, 1937, or 1939) <sup>69</sup> , 1976 <sup>69</sup>  |
| <b>`Ula`ai-hawane</b> <i>Ciridops anna</i>           |  |
| Physical evidence                                    | ~1859 <sup>12</sup> , 1892 <sup>12</sup>   |
| Independent expert opinion<br>(added to PE)          | none found reported  |
| Controversial sightings                              | 1936 <sup>70</sup> , 1937 <sup>70</sup>  |
| <b>Hawai`i Mamō</b> <i>Drepanis pacifica</i>         |  |
| Physical evidence                                    | 1779 <sup>8</sup> , 1806 <sup>64</sup> , 1859 <sup>8</sup> , 1864 <sup>8</sup> , ~1876 <sup>8</sup> , 1892 <sup>8</sup>  |
| Independent expert opinion<br>(added to PE)          | 1898 <sup>8,69</sup>   |
| Controversial sightings                              | 1887 <sup>8</sup> , 1890 <sup>69</sup> , 1899 <sup>8</sup> , 1900 <sup>8</sup> , 1960 <sup>70</sup>  |

|   |   |
|---|---|
| <b>Black Mamo</b> <i>D. funerea</i>                                       |   |
| Physical evidence   | 1893 <sup>8</sup> , 1894 <sup>8</sup> , 1896 <sup>8</sup> , 1907 <sup>8</sup>   |
| Independent expert opinion<br>(added to PE)                               | none found reported   |
| Controversial sightings   | 1936 <sup>8</sup> , ~1955 <sup>70</sup>   |
| <b>Laysan Honeycreeper</b> [ʻApapane] <i>Himatione sanguinea freethii</i> |   |
| Physical evidence   | 1891 <sup>5</sup> , 1896 <sup>5</sup> , 1902 <sup>5</sup> , 1903 <sup>5</sup> , 1904 <sup>5</sup> , 1907 <sup>5</sup> , 1909 <sup>64</sup> , 1911 <sup>5</sup> , 1913 <sup>5</sup>  |
| Independent expert opinion<br>(added to PE)                               | 1828 <sup>20</sup> , 1912 <sup>14</sup> , 1915 <sup>20</sup> , 1916 <sup>20</sup> , 1923 <sup>20</sup>  |
| Controversial sightings   | none found reported   |
| <b>Po`o-uli</b> <i>Melamprosops phaeosoma</i> <sup>i</sup>                |   |
| Physical evidence   | 1973 <sup>10</sup> , 1975 <sup>48</sup> , 1984 <sup>21</sup> , 1986 <sup>47</sup> , 1997 <sup>3,69</sup> , 1998 <sup>69</sup> , 2004 <sup>59</sup>  |
| Independent expert opinion<br>(added to PE)                               | 1974 <sup>10</sup> , 1976 <sup>10</sup> , 1978 <sup>66</sup> , 1979 <sup>66</sup> , 1980 <sup>73</sup> , 1981 <sup>73</sup> , 1982 <sup>70</sup> , 1983 <sup>70</sup> , 1985 <sup>70</sup> , 1988 <sup>66</sup> , 1992 <sup>70</sup> , 1993 <sup>70</sup> , 1994 <sup>70</sup> , 1995 <sup>34</sup> , 1996 <sup>34</sup> , 1999 <sup>34</sup> , 2000 <sup>34</sup> , 2001 <sup>34</sup> , 2002 <sup>34</sup> , 2003 <sup>34</sup> |
| Controversial sightings   | none found reported   |

<sup>a</sup> Includes sightings from other islands where the species was introduced.

<sup>b</sup> We treated sightings after 1963 as controversial, and those before 1963 as not due to insufficient evidence to treat them otherwise.

<sup>c</sup> ORNIS reports a 1903 specimen from the Delaware Museum of Natural History; inspection of the label and collector info by P. Pyle suggests that this was really collected in 1902.

<sup>d</sup> Reynolds and Snetsinger<sup>71</sup>, Pyle and Pyle<sup>69,70</sup>, and Gorreson et al.<sup>33</sup> list 1989 as unconfirmed, USFWS<sup>86</sup> lists it as confirmed; Pyle<sup>70</sup> does not include 1995.

<sup>e</sup> Banko<sup>10</sup> reports 1893, but Pyle and Pyle<sup>70</sup> report the 1893 record as actually 1895.

<sup>f</sup> *H. e. stejnegeri*: Banko<sup>9</sup> does not report the 1969 record and states that there were no sightings from 1967-1980; Conant et al.<sup>15</sup> and Pyle and Pyle<sup>70</sup> refer to 1969 as substantiated, but Reynolds and Snestinger<sup>71</sup> do not.

<sup>g</sup> Pratt and Pyle<sup>67</sup> consider records since 1900 to be unconfirmed, thus we view them as controversial.

<sup>h</sup> Pyle and Pyle<sup>70</sup> consider all records since the last specimen collected (1968) to be unconfirmed “Because of the similarity between O’ahu ‘Aluahio and O’ahu ‘Amakihi, potential confusion with the Japanese Bush Warbler, and the fact that field guides may have been misleading“. Their assessment is based partly on Shallenberger and Pratt<sup>75</sup>, who reviewed reported sightings from 1951 through 1975 and considered all but three to be unconfirmed. Unfortunately, Shallenberger and Pratt did not report the years of those three records, and they do not recall them (pers. comm.). Shallenberger and Vaughn<sup>75</sup> report three sight records (1977, 1978) that they consider confirmed, and in a recent review of Hawaiian forest bird status Gorreson et al.<sup>33</sup> accept these records, but Pyle and Pyle<sup>69</sup> do not, so we leave them as controversial. The USFWS<sup>86</sup> considers 1985 to be the last confirmed sighting, but Pyle and Pyle<sup>69</sup> and Gorreson et al.<sup>33</sup> consider it to be unconfirmed. The Macaulay sound library (Cornell Lab of Ornithology) has song recordings from 7 years; based on conversations with R. Shallenberger, and D. Pratt, to whom a majority of the recordings are attributed, and P. Pyle, we ignored all of these records because none of those consulted knew of any confirmed recording of this species; subsequent discussions suggest that these recordings were mislabeled following taxonomic changes. See also Shallenberger and Vaughn<sup>75</sup> regarding sound recordings for this species.

<sup>i</sup> Sightings in 2000-2002 potentially biased due to a radio-transmitted bird, which was the only individual seen during those years.

## References used to compile Table S1

- <sup>1</sup> Anderson, B.H., 1996. Bachman's warbler. In: Rodgers, J.A., Kale, H.W., Smith, H.T. (Eds.), Rare and Endangered Biota of Florida, Volume V: Birds. University Press of Florida, Gainesville, Florida, pp. 124-127.
- <sup>2</sup> American Ornithologists' Union, 1998. Check-List of North American Birds, seventh ed. American Ornithologists' Union, Washington, D.C.
- <sup>3</sup> Baker P.E., 1998. A description of the first live Po`ouli captured. Wilson Bull. 110, 307–310.
- <sup>4</sup> Baldwin, P.H., 1947. The life history of the Laysan Rail. Condor 49, 14-21.
- <sup>5</sup> Banko, W.E., 1979. History of endemic Hawaiian birds. Specimens in Museum Collections. Avian History Report 2. Cooperative National Park Resources Study Unit, University of Hawaii at Manoa, Honolulu, Hawaii.
- <sup>6</sup> Banko, W.E., 1980. History of endemic Hawaiian birds. Part I. Population Histories – Species Accounts Forest Birds: Hawaiian Thrushes. Avian History Report 6C & 6D. Cooperative National Park Resources Study Unit, University of Hawaii at Manoa, Honolulu, Hawaii.
- <sup>7</sup> Banko, W.E., 1981a. History of endemic Hawaiian birds. Part I. Population Histories – Species Accounts Forest Birds: `Elepaio, `O`o, & Kioea. Avian History Report 7A & 7B. Cooperative National Park Resources Study Unit, University of Hawaii at Manoa, Honolulu, Hawaii.
- <sup>8</sup> Banko, W.E., 1981b. History of endemic Hawaiian birds. Part I. Population Histories – Species Accounts Forest Birds: *Vestiaria coccinea*, *Drepanis funerea*, *Drepanis pacifica*. Avian History Report 11A. Cooperative National Park Resources Study Unit, University of Hawaii at Manoa, Honolulu, Hawaii.
- <sup>9</sup> Banko, W.E., 1984a. History of endemic Hawaiian birds. Part I. Population Histories – Species Accounts Forest Birds: `Akialoa, Nukupu`u, & `Akiapōlā`au. Avian History Report 9. Cooperative National Park Resources Study Unit, University of Hawaii at Manoa, Honolulu, Hawaii.
- <sup>10</sup> Banko, W.E., 1984b. History of endemic Hawaiian birds. Part I. Population Histories – Species Accounts Forest Birds: `Amakihi, Creeper, `Akepa & Po`o Uli. Avian History Report 8A & 8B. Cooperative National Park Resources Study Unit, University of Hawaii at Manoa, Honolulu, Hawaii.
- <sup>11</sup> Banko, W.E., 1986. History of endemic Hawaiian birds. Part I. Population Histories – Species Accounts Forest Birds: Maui Parrotbill, `O`u, Palila, Greater Koa Finch, Lesser Koa Finch, and Grosbeak finch. Avian History Report 10. Cooperative National Park Resources Study Unit, University of Hawaii at Manoa, Honolulu, Hawaii.
- <sup>12</sup> Banko, W.E., 1987. History of endemic Hawaiian birds. Part I. Population Histories – Species Accounts Forest Birds: `Apapane, `Akohekohe, and `Uha`aihawane. Avian History Report 11a. Cooperative National Park Resources Study Unit, University of Hawaii at Manoa, Honolulu, Hawaii.
- <sup>13</sup> Banko, W.E., Banko, P.C., 1980. History of endemic Hawaiian birds. Part I. Population Histories – Species Accounts Forest Birds: Hawaiian Raven/Crow `Alalā. Avian History Report 6b. Cooperative National Park Resources Study Unit, University of Hawaii at Manoa, Honolulu, Hawaii.
- <sup>14</sup> Berger, A.J., 1981. Hawaiian Birdlife, second ed. University Press of Hawaii, Honolulu.

<sup>14a</sup> Casey, T. L. 1973. Preliminary report on the bird life in Waaihei Valley Maui Elepaio 34:46-50

- <sup>15</sup> Conant, S., Pratt, H.D., Shallenberger, R.J., 1998. Reflections on a 1975 expedition to the lost world of the Alaka'i and other notes on the natural history, systematics, and conservation of Kaua'i birds. *Wilson Bull.* 110, 1-22.
- <sup>16</sup> Dittman, D.L., 1995. Seventh report of the Louisiana Bird Records Committee. *J. La. Ornithol.* 3, 17-42. <http://losbird.org/lbrc/7th.pdf>
- <sup>17</sup> Dunn, J., Garrett, K., 1997. *A Field Guide to the Warblers of North America*. Houghton Mifflin Co., Boston.
- <sup>18</sup> Dutcher, W., 1891. The Labrador duck:—a revised list of the extant specimens in North America, with some historical notes. *Auk* 8, 201-216.
- <sup>19</sup> Dutcher, W., 1894. The Labrador Duck—another specimen, with additional data respecting extant specimens. *Auk* 11, 4-12.
- <sup>20</sup> Ely, C.A., Clapp, R.B., 1973. The natural history of Laysan Island, Northwestern Hawaiian Islands. *Atoll Res. Bull.* 171, 1-361.
- <sup>21</sup> Engilis, A., pers. comm., regarding the photo found in Engilis, A., Jr., Pratt, T.K., Kepler, C.B., Ecton, A.M., Fluetsch, K.M., 1996. Description of adults, eggshells, nestling, fledgling, and nest of the Poo-uli. *Wilson Bull.* 108, 607-619.
- <sup>22</sup> Fitzpatrick, J.W., Lammertink, M., Luneau, M.D., Gallagher, T.W., Jr., Harrison, B.R., Sparling, G.M., Rosenberg, K.V., Rohrbaugh, R.W., Swarthout, E.C.H., Wrege, P.H., Swarthout, S.B., Dantzker, M.S., Charif, R.A., Barksdale, T.R., Remsen, J.V., Simon, S.D., Jr., Zollner, D., 2005. Ivory-billed woodpecker (*Campephilus principalis*) persists in continental North America. *Science* 308, 1460-1462.
- <sup>23</sup> Floyd, T., 2007. The Ivory-billed Woodpecker. *Birding* 39, 26.
- <sup>24</sup> Fuller, E., 1999. *The Great Auk*. Harry N. Abrams, Inc., New York.
- <sup>25</sup> Gaskell, J., 2000. *Who Killed the Great Auk?* Oxford University Press, Oxford.
- <sup>26</sup> Gill, R.E., Jr., Canevari, P., Iversen, E.H., 1998. Eskimo Curlew (*Numenius borealis*), in: Poole, A., Gill, F. (Eds.), *The Birds of North America*, No. 347. *The Birds of North America*, Inc., Philadelphia.
- <sup>27</sup> Global Biodiversity Information Facility data portal (<http://data.gbif.org>, accessed 29/01/2009): Museum of Comparative Zoology, Harvard University, Ornithology Collection.
- <sup>28</sup> Global Biodiversity Information Facility data portal (<http://data.gbif.org>, accessed 29/01/2009): Museum of Southwestern Biology, Bird Specimens, NatureServe Network Species Occurrence Data, CAS Bird Collection Catalog, Ornithology DiGIR provider Service, Borror Laboratory of Bioacoustics, MCZ Ornithology Collection, NMNH Vertebrate Zoology Birds Collections, Delaware Museum of Natural History Bird Collection, Macaulay Library - Audio Data, Santa Barbara Museum of Natural History, and other collections that were not identified by name.
- <sup>29</sup> Global Biodiversity Information Facility data portal (<http://data.gbif.org>, accessed 29/01/2009): Provincial Museum of Alberta, Edmonton, AB, Canada, MSB Birds Specimens, California Academy of Sciences, Bird Collection Catalog, Ornithology DiGIR provider Service, Natural Museum of Natural History, New York, Vertebrate Zoology Birds Collections, Macaulay Library - Audio Data, Santa Barbara Museum of Natural History, and other collections that were not identified by name.

- <sup>30</sup> Global Biodiversity Information Facility data portal (<http://data.gbif.org>, accessed 19/03/2009): CAS Bird Collection Catalog, MCZ Ornithology Collection, NMNH Vertebrate Zoology Birds Collections, and other collections that were not identified by name.
- <sup>31</sup> Gollop, J.B., Barry, T.W., Iversen, E.H., 1986. Eskimo curlew a vanishing species? Saskatchewan Natural History Society Special Publication No. 17. Regina, Saskatchewan. Northern Prairie Wildlife Research Center Online. <http://www.npwrc.usgs.gov/resource/birds/curlew/>
- <sup>32</sup> Gollop, J.B., 1988. The Eskimo Curlew, in: Chandler, W.J., (Ed.), Audubon Wildlife Report 1988/1989. Academic Press, Inc., New York, pp. 583–595.
- <sup>33</sup> Gorreson, P.M., Camp, R.J., Reynolds, M.H., Woodworth, B.L., Pratt, T.K., 2009. Status and trends of native Hawaiian songbirds, in: Pratt, T.E., Atkinson, C.T., Banko, P.C., Jacobi, J.D., Woodworth, B.L. (Eds.), Conservation Biology of Hawaiian Forest Birds: Implications for Island Avifauna. Yale University Press, New Haven & London, pp. 108-136.
- <sup>34</sup> Groombridge, J.J., Sparklin, B., Malcolm, T., Brosius, C.N., Okada, M.M., Bruch, J.C., 2006. Patterns of spatial use and movement of the Poʻouli—a critically endangered Hawaiian honeycreeper. *Biodivers. Conserv.* 15, 3357-3368.
- <sup>35</sup> Gross, A.O., 1928. The heath hen. *Memoirs of the Boston Society of Natural History* 6, 491-588.
- <sup>36</sup> Gross, A.O., 1931. Banding the last heath hen. *Bird-Banding* 2, 99-105.
- <sup>37</sup> Hahn, P., 1963. Where is that Vanished Bird? Royal Ontario Museum, University of Toronto, Toronto.
- <sup>38</sup> Hamel, P.B., 1986. Bachman's warbler: a Species in Peril. Smithsonian Institution Press, Washington, D.C.
- <sup>39</sup> Henshaw, H.W., 1902. Birds of the Hawaiian Islands, Being a Complete List of the Birds of the Hawaiian Possessions with Notes on Their Habits. Thos. G. Thrum, Honolulu.
- <sup>40</sup> Hill, G.E., Mennill, D.J., Rolek, B.W., Hicks, T.L., Swiston, K.A., 2006. Evidence suggesting that Ivory-billed Woodpeckers (*Campephilus principalis*) exist in Florida. *Avian Conservation and Ecology* 1(3): 2. [online] URL: <http://www.ace-eco.org/vol1/iss3/art2/>
- <sup>41</sup> Hoffman, R., 2007. A birdwatcher at Peggy's Cove, Nova Scotia, reports seeing a species presumed extinct: an Eskimo Curlew. *Birder's World*, October. Accessed 29/01/2009, <http://www.birdersworld.com/brd/default.aspx?c=a&id=972>
- <sup>42</sup> Jackson, J. A., 2002. Ivory-billed Woodpecker (*Campephilus principalis*), *The Birds of North America Online* (A. Poole, Ed.). Ithaca: Cornell Lab of Ornithology; Retrieved from the Birds of North American Online: <http://bna.birds.cornell.edu/bna/species/711>.
- <sup>43</sup> Jackson, J.A., 2004. In Search of the Ivory-billed Woodpecker. Smithsonian Institution Press, Washington, D.C.
- <sup>44</sup> Johnsgard, P., 2002. Grassland Grouse and Their Conservation, Smithsonian Institution Press, Washington, D.C.
- <sup>45</sup> Johnson, J.A., Dunn, P.O., 2006. Low genetic variation in the Heath Hen prior to extinction and implications for the conservation of prairie-chicken populations. *Conserv. Gen.* 7, 37-48.
- <sup>46</sup> Jorgensen, P.D., Ferguson, H.L., 1984. The birds of San Clemente Island. *Western Birds* 15, 111-130.

- 47 Kepler, C.B., Pratt, T.K., Ecton, A.M., Engilis, A., Jr., Fluetsch, K.M., 1996. Nesting behavior of the Poo-uli. *Wilson Bull.* 108, 620-638.
- 48 Macaulay Library, Cornell Lab of Ornithology. <http://macaulaylibrary.org/index.do>
- 49 McKinley, D., 1985. The Carolina Parakeet in Florida. Florida Ornithological Society, Special Publication 2, 1-65.
- 50 National Research Council, 1992. The Scientific Bases for the Preservation of the Hawaiian Crow. National Academies Press, Washington D.C.
- 51 Olson, S.L., 1999. Laysan Rail (*Porzana palmeri*), The Birds of North America Online (A. Poole, Ed.). Ithaca: Cornell Lab of Ornithology; Retrieved from The Birds of North American Online: <http://bna.birds.cornell.edu/bna/species/426a>.
- 52 ORNIS (<http://olla.berkeley.edu/ornisnet/>, accessed 6 October, 2009), American Museum of Natural History.
- 53 ORNIS (<http://olla.berkeley.edu/ornisnet/>, accessed 9 October, 2009), American Museum of Natural History.
- 54 ORNIS (<http://olla.berkeley.edu/ornisnet/>, accessed 9 October, 2009), Cornell University.
- 55 ORNIS (<http://olla.berkeley.edu/ornisnet/>, accessed 9 October, 2009), University of California, Los Angeles.
- 56 ORNIS (<http://olla.berkeley.edu/ornisnet/>, accessed 9 October, 2009), B.P. Bishop Museum.
- 57 ORNIS (<http://olla.berkeley.edu/ornisnet/>, accessed 9 October, 2009), National Museum of Natural History.
- 58 ORNIS (<http://olla.berkeley.edu/ornisnet/>, accessed 9 October, 2009), Smithsonian Institution.
- 59 ORNIS (<http://olla.berkeley.edu/ornisnet/>, accessed 12 October, 2009), B.P. Bishop Museum.
- 60 ORNIS (<http://olla.berkeley.edu/ornisnet/>, accessed 12 October, 2009), eBird, Avian Knowledge Network, Cornell Lab of Ornithology.
- 61 ORNIS (<http://olla.berkeley.edu/ornisnet/>, accessed 12 October, 2009), Royal Ontario Museum.
- 62 ORNIS (<http://olla.berkeley.edu/ornisnet/>, accessed 12 October, 2009), University of Kansas Biodiversity Institute.
- 63 ORNIS (<http://olla.berkeley.edu/ornisnet/>, accessed 12 October, 2009), Peabody Museum, Yale University.
- 64 ORNIS (<http://olla.berkeley.edu/ornisnet/>, accessed 12 October, 2009), Museum of Comparative Zoology, Harvard University.
- 65 Palkovacs, E.P., Oppenheimer, A.J., Gladyshev, E., Toepfer, J.E., Amato, G., Chase, T., Caccone, A., 2004. Genetic evaluation of a proposed introduction: the case of the greater prairie chicken and the extinct heath hen. *Mol. Ecol.* 13, 1759–1769.
- 66 Powell, A., 2008. The Race to Save the World's Rarest Bird: the Discovery and Death of the Po`ouli. Stackpole Books, Mechanicsburg.
- 67 Pratt, T.K., Pyle, R.L., 2000. Nukupu'u in the twentieth century: endangered species or phantom presence? *'Elepaio* 60, 35-41.

- 68 Pyle, R.L., 1985. Hawaiian Islands region. *Am. Birds* 39, 964–965.
- 69 Pyle, R.L., Pyle, P., 2009. *The Birds of the Hawaiian Islands: Occurrence, History, Distribution, and Status*. B.P. Bishop Museum, Honolulu. Version 1 (31 December 2009) (Available at <http://hbs.bishopmuseum.org/birds/rlp-monograph/>).
- 70 Pyle, R.L., Pyle, P., Bird Sightings Database. B.P. Bishop Museum.
- 71 Reynolds, M., Snetsinger, T.J., 2001. The Hawai'i rare bird search 1994-1996. *Stud. Avian Biol.* 22, 133-143.
- 72 Sabo. S.R., 1982. The rediscovery of Bishop's 'O'o on Maui. *'Elepaio* 42, 69-70.
- 73 Scott, J.M., Mountainspring, S., Ramsey, F.L., Kepler, C.B. (Eds.), 1986. Forest bird communities of the Hawaiian Islands: their dynamics, ecology, and conservation. *Stud. Avian Biol.* 9.
- 73a Scott, J. M. and Sincock 1977. Recent observations on the birds of the Koolau Forest reserve, Maui *Elepaio* 8: 113-116.
- 73b Scott, J.M, D. H. Woodside, and T. L. C. Casey. 1977. Observations of birds in the Molokai Forest Reserve, July 1975. *Elepaio* 38:25-27.
- 74 Schorger, A. W. 1955. *The Passenger Pigeon: Its Natural History and Extinction*. University of Wisconsin Press, Madison.
- 75 Shallenberger, R.J., Pratt, H.D., 1978. Recent observations and field identification of the Oahu Creeper (*Loxops maculate maculate*). *'Elepaio* 38, 135-140.
- 76 Shallenberger, R.J., Vaughn, G.K. 1978. Avifaunal survey in the central Ko`olau Range, Oahu. Ahuimanu Productions, Honolulu.
- 77 Shuler, J. 1977. Bachman's phantom warbler. *Birding* 9, 245-250.
- 78 Shuler, J. 1977. Bachman's warbler habitat. *Birding* 9, 251-254.
- 79 Snetsinger, T.J., Reynolds, M.H., Herrmann, C.M., 1998. 'Ö'ü (*Psittirostra psittacea*) and Lāna'i Hookbill (*Dysmorodrepanis munroi*), *The Birds of North America Online* (A. Poole, Ed.). Ithaca: Cornell Lab of Ornithology; Retrieved from *The Birds of North America Online*: <http://bna.birds.cornell.edu/bna/species/335>.
- 80 Snyder, N.F.R., 2004. *The Carolina Parakeet: Glimpses of a Vanished Bird*. Princeton University Press, Princeton.
- 81 Snyder, N.F., Russell, K., 2002. Carolina Parakeet (*Conuropsis carolinensis*), *The Birds of North America Online* (A. Poole, Ed.). Ithaca: Cornell Lab of Ornithology; Retrieved from *The Birds of North America Online*: <http://bna.birds.cornell.edu/bna/species/667>.
- 82 Stephenson, H.M., Jr., 1938. Bachman's Warbler in Alabama. *Wilson Bull.* 50, 35-41.
- 83 Sykes, P.W., Jr., Kepler, A.K., Kepler, C.B., Scott, J.M., 2000. Kauai Oo (*Moho braccatus*), *The Birds of North America Online* (A. Poole, Ed.). Ithaca: Cornell Lab of Ornithology; Retrieved from *The Birds of North America Online*: <http://bna.birds.cornell.edu/bna/species/535a>
- 84 Tanner, J.T., 1942. *The Ivory-billed Woodpecker*. Research Report No. 1, National Audubon Society, New York.
- 85 Trudeau, G. 1986. Unpublished sighting and photograph (per D. Davenport); see also Hamel, P.B., 1995. Bachman's Warbler (*Vermivora bachmanii*), *The Birds of North America*

Online (A. Poole, Ed.). Ithaca: Cornell Lab of Ornithology; Retrieved from the Birds of North America Online: <http://bna.birds.cornell.edu/bna/species/150>.

- <sup>86</sup> U.S. Fish and Wildlife Service, 2006. Revised Recovery Plan for Hawaiian Forest Birds. Region 1, Portland, Oregon.
- <sup>87</sup> U.S. Fish and Wildlife Service, 2009. Revised Recovery Plan for the `Alalā. Region 1, Portland, Oregon.
- <sup>88</sup> Walters, M.J., 1992. A Shadow and a Song: The Struggle to Save an Endangered Species. Chelsea Green, Post Mills, Vermont.
- <sup>89</sup> Watson, C., Koches, J., 2002. A survey for Bachman's warbler (*Vermivora bachmanii*) in the Congaree Swamp National Monument, South Carolina. [http://www.acjv.org/pdf\\_files/Bachmans%20Survey.pdf](http://www.acjv.org/pdf_files/Bachmans%20Survey.pdf), accessed 29/01/2009.
- <sup>90</sup> [http://farm4.static.flickr.com/3397/3215187699\\_a4231fe523\\_o.jpg](http://farm4.static.flickr.com/3397/3215187699_a4231fe523_o.jpg) , accessed 29/01/2009.

**Changes in statistical results caused by new information: None**