

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

**Table S1.** Sighting data used in analyses. 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. Updated versions of this data set will be posted on the authors’ web sites if new information becomes available.

<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 (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 (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 (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 (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 (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 (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 (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 (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>

<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 (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 (added to PE)	1904 <sup>7</sup>
Controversial sightings	none found reported
Maui Physical evidence	none found reported
Independent expert opinion (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 (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 (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> , 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 (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 (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 (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 (added to PE)	none found reported
Controversial sightings	none found reported
<b>Oloma`o</b> <i>M. lanaiensis</i>	
Moloka`i ( <i>M. l. rutha</i> ): 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 (added to PE)	1896 <sup>70</sup> , 1963 <sup>6</sup> , 1972 <sup>6</sup> , 1975 <sup>6</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> ): Physical evidence	1888 <sup>6</sup> , 1892 <sup>6</sup> , 1894 <sup>6</sup> , 1933 <sup>6</sup>
Independent expert opinion (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 (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 (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>	
Kaua`i      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 (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> , 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>
Hawai`i      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> , 1950 <sup>11</sup> , 1951 <sup>11</sup> , 1977 <sup>11</sup>
Independent expert opinion (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> , 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>
O`ahu      Physical evidence	1837 <sup>11</sup> , 1846 <sup>11</sup>
Independent expert opinion (added to PE)	1893 <sup>11</sup> , 1899 <sup>11</sup>
Controversial sightings	none found reported
Moloka`i      Physical evidence	1888 <sup>11</sup> , 1893 <sup>11</sup> , 1895 <sup>11</sup> , 1907 <sup>11</sup>
Independent expert opinion (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 (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 (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 (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 (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 (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 (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 (added to PE)	none found reported
Controversial sightings	none found reported

<b>Lesser `Akialoa <i>H. obscurus</i></b>	
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 (added to PE)	none found reported
Controversial sightings	1940 <sup>9</sup>
<b>Greater `Akialoa <i>H. ellisianus</i> <sup>f</sup></b>	
O`ahu Physical evidence	1837 <sup>9</sup> , 1838 <sup>9</sup>
Independent expert opinion (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 (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 (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 (added to PE)	none found reported
	Controversial sightings	1939 <sup>9</sup>
Kaua`i	( <i>H. l. hanapepe</i> ): 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 (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> , 1989 <sup>67</sup> , 1991 <sup>69</sup> , 1995 <sup>70</sup> , 1996 <sup>70</sup>
Maui	( <i>H. l. affinis</i> ): Physical evidence	1892 <sup>5</sup> , 1894 <sup>5</sup> , 1896 <sup>5</sup>
	Independent expert opinion (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> , 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 (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> <b>!</b>
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> , 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> , 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 (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 (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 (added to PE)	1950 <sup>70</sup> , 1953 <sup>70</sup> , 1958 <sup>10</sup> , 1970 <sup>10</sup> , 1972 <sup>70</sup> , 1973 <sup>70</sup> , 1975 <sup>10</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 (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 (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 (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 (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 (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 (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.

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