

## Appendix 3

Arrival and departure dates to and from breeding and wintering range, estimated from geolocator data. Date estimates are mean arrival and departure dates, and 95% credible interval (days) from the MCMC samples were provided as an uncertainty measure.

<i>Study site</i>	<i>ID</i>	<i>Year</i>	<i>Breeding departure (95% CI)</i>	<i>Winter arrival (95% CI)</i>	<i>Winter departure (95% CI)</i>	<i>Breeding arrival (95% CI)</i>
<i>H. J. Andrews</i>	4	2019	2018-06-27 (-5.5,8.1)	2018-09-28 (-1.4,2.1)	2019-03-15 (-15.2,16.3)	2019-05-07 (-3.9,3.7)
	20	2019	2018-07-06 (-11.9,13.5)	2018-09-23 (-2.3,3.7)	2019-03-27 (-20.7,14.3)	2019-05-13 (-3.8,2.2)
	37	2019	2018-07-06 (-14,22)	2018-10-24 (-22.3,39.7)	2019-04-02 (-4.4,6.1)	2019-05-08 (-4.7,3.3)
	43	2019	2018-07-24 (-29.9,26.5)	2018-09-24 (-4.1,11.4)	2019-04-02 (-8.2,7.3)	2019-05-10 (-3.6,1.4)
	45	2019	2018-06-27 (-0.6,1.4)	2018-09-27 (-3,2.5)	2019-03-25 (-5.4,4.1)	2019-05-10 (-2.6,1.4)
	51	2019	2018-07-05 (-8,11.4)	2018-10-06 (-11.7,13.3)	2019-04-10 (-4.4,3.7)	2019-05-17 (-5.4,2.6)
	52	2019	2018-07-25 (-5.6,2.8)	2018-09-12 (-2.9,6.1)	2019-04-04 (-16.3,6.7)	2019-05-04 (-7.7,4.4)
	55	2019	2018-07-29 (-11.1,9.9)	2018-09-19 (-2.8,4.7)	2019-03-30 (-2.5,3.5)	2019-05-05 (-8.8,16.2)
	71	2020	2019-07-26 (-30.1,32.8)	2019-10-08 (-7.8,14.7)	2020-04-10 (-9.8,10.2)	2020-05-18 (-1.4,1.2)
	69	2020	2019-07-12 (-14.3,10.7)	2019-10-15 (-6.5,2.5)	2020-03-26 (-4.2,3.8)	2020-05-15 (-8.5,7.5)
<i>Yosemite NP</i>	59	2020	2019-07-14 (-12.3,6.4)	2019-09-27 (-8.4,12.6)	2020-03-16 (-11.4,7.1)	2020-05-01 (-6.1,6.9)
	29	2020	2019-06-26 (-4.1,10.3)	2019-09-30 (-5.4,4.1)	2020-03-07 (-5.3,4.2)	2020-05-02 (-8.6,12)
	39	2020	2019-07-04 (-11.6,6)	2019-09-26 (-6.7,5.3)	2020-03-13 (-2.7,2.8)	2020-04-28 (-2.5,7.1)
	57	2020	2019-07-17 (-9.7,20.4)	2019-10-09 (-4.2,8.3)	2020-04-11 (-3.1,1.4)	2020-05-07 (-3.3,5.7)
	114	2020	2019-07-05 (-1.3,3)	2019-11-16 (-9.8,8.2)	2020-03-22 (-5.4,3.6)	2020-05-06 (-4.2,10.2)
<i>Gifford Pinchot NF</i>	119	2020	2019-07-04 (-0.4,1)	2019-09-27 (-3.8,4.2)	2020-04-04 (-9.2,6.3)	2020-05-09 (-4.2,7.8)
	99	2020	2019-06-30 (-1.8,4.2)	2019-10-25 (-24.1,12.9)	2020-04-01 (-5.9,6.1)	2020-05-20 (-11.4,3.3)
	93	2020	2019-06-29 (-1.8,3.5)	2019-10-15 (-9.5,8.6)	2020-04-04 (-15.2,7.9)	2020-05-24 (-16.2,4.8)
	92	2020	2019-06-30 (-1.9,1.5)	2019-10-05 (-5.6,4.9)	2020-04-07 (-4.7,3.8)	2020-05-10 (-4.5,13.9)
	105	2020	2019-07-01 (-0.8,2.6)	2019-10-09 (-4.4,4.6)	2020-03-31 (-16,7)	2020-05-03 (-0.8,0.6)
<i>Mac-Dunn Research Forest</i>	88	2020	2019-06-26 (-0.9,3.4)	2019-09-08 (-5.3,5.2)	2020-04-08 (-3.4,3.6)	2020-05-07 (-0.6,0.4)
<i>Mt. Richmond Forest</i>	31	2020	2019-06-23 (-3.2,4.2)	2019-09-03 (-7.2,8.8)	2020-03-28 (-4.4,2.6)	2020-05-07 (-5.2,8.8)
<i>Mendocino NF</i>						