

**Appendix 1.** List of forest fragments included in this study, their size, and number of point counts, nests and vegetation plots in each fragment in the historical (1987-2001) and contemporary (2020-2021) time periods. In this table, forest fragments have been grouped into categories of surrounding land use (see table footer) based on a post-hoc analysis of before-and-after landcover layers.

| Fragment type                            | Forest Fragment  | 2001 Area (ha) | 2019 Area (ha) | Percent change in area (2001-2019) | Point count stations | Nests       |             | Nest vegetation plots |             |
|--|------------------|----------------|----------------|------------------------------------|----------------------|-------------|-------------|-----------------------|-------------|
|  |                  |                |                |                                    | (Both time periods)  | 1987 - 2001 | 2020 - 2021 | 1987 - 2001           | 2020 - 2021 |
| <b>Rural <sup>†</sup></b>                |                  |                |                |                                    |                      |             |             |                       |             |
|  | AM               | 2.8            | 2.8            | 0.0                                | 0                    | 4           | 0           | 0                     | 0           |
|  | CL               | 10.5           | 10.5           | 0.0                                | 0                    | 1           | 0           | 1                     | 0           |
|  | RN               | 4.0            | 4.0            | 0.0                                | 0                    | 3           | 0           | 3                     | 0           |
|  | SIS              | 9.5            | 9.5            | 0.0                                | 0                    | 2           | 0           | 2                     | 0           |
|  | SIL <sup>¶</sup> | 23.4           | 23.5           | 0.4                                | 1                    | 4           | 9           | 1                     | 9           |
|  | HO               | 3.2            | 3.2            | 0.0                                | 1                    | 1           | 0           | 1                     | 0           |
|  | SNE              | 2.3            | 2.3            | 0.0                                | 0                    | 1           | 0           | 1                     | 0           |
|  | WA               | 6.3            | 6.3            | 0.0                                | 0                    | 3           | 0           | 3                     | 0           |
|  | CR               | 8.7            | 8.7            | 0.0                                | 0                    | 1           | 1           | 1                     | 1           |
|  | MS               | 23.8           | 24.8           | 4.2                                | 0                    | 2           | 2           | 2                     | 2           |
|  | O                | 7.2            | 7.2            | 0.0                                | 0                    | 4           | 1           | 4                     | 1           |
|  | HY               | 10.7           | 10.8           | 0.9                                | 0                    | 3           | 2           | 3                     | 2           |
|  | FB               | 10.4           | 9.7            | -6.7                               | 0                    | 1           | 4           | 1                     | 3           |
|  | HA               | 10.2           | 10.2           | 0.0                                | 0                    | 7           | 5           | 7                     | 5           |
|  | CE               | 3.4            | 3.4            | 0.0                                | 1                    | NA          | NA          | 0                     | 0           |
|  | ED               | 29.7           | 29.7           | 0.0                                | 1                    | NA          | NA          | 0                     | 0           |
|  | GI               | 22.8           | 22.8           | 0.0                                | 1                    | NA          | NA          | 0                     | 0           |
|  | HK               | 2.4            | 2.3            | -4.2                               | 1                    | NA          | NA          | 0                     | 0           |
|  | HEN              | 25.2           | 24.0           | -4.8                               | 1                    | NA          | NA          | 0                     | 0           |
|  | HES              | 8.7            | 8.7            | 0.0                                | 1                    | NA          | NA          | 0                     | 0           |
|  | SC               | 25.3           | 25.3           | 0.0                                | 1                    | NA          | NA          | 0                     | 0           |
|  | 342              | 153.1          | 154.2          | 0.7                                | 5                    | NA          | NA          | 0                     | 0           |
|  | BL <sup>#</sup>  | 21.8           | 23.2           | 6.4                                | 1                    | 45          | 0           | 42                    | 0           |
|  | BP <sup>#</sup>  | 6.1            | 6.1            | 0.0                                | 1                    | 6           | 0           | 5                     | 0           |
|  | GR               | 26.3           | 26.2           | -0.4                               | 0                    | 4           | 1           | 0                     | 0           |
| <b>Adjacent development <sup>‡</sup></b> |                  |                |                |                                    |                      |             |             |                       |             |
|  | DML              | 32.3           | 32.6           | 0.9                                | 1                    | 8           | 0           | 8                     | 0           |
|  | SA               | 6.5            | 6.5            | 0.0                                | 0                    | 9           | 0           | 9                     | 0           |
|  | STS              | 9.7            | 9.7            | 0.0                                | 1                    | 4           | 1           | 4                     | 1           |
|  | STL              | 26.2           | 27.0           | 3.1                                | 1                    | 6           | 0           | 6                     | 0           |
|  | ER1              | 4.6            | 4.6            | 0.0                                | 1                    | NA          | NA          | 0                     | 0           |

|                                |                 |       |       |      |     |     |    |     |    |
|--------------------------------|-----------------|-------|-------|------|-----|-----|----|-----|----|
|                                | OS              | 25.4  | 24.5  | -3.5 | 1   | NA  | NA | 0   | 0  |
|                                | WI              | 13.8  | 13.8  | 0.0  | 1   | NA  | NA | 0   | 0  |
|                                | 479             | 19.4  | 19.7  | 1.5  | 3   | NA  | NA | 0   | 0  |
|                                | 480             | 64.2  | 69.9  | 8.9  | 3   | NA  | NA | 0   | 0  |
|                                | FH              | 140   | 145.7 | 4.3  | 16  | 74  | 18 | 83  | 17 |
| <b>Landscape development §</b> |                 |       |       |      |     |     |    |     |    |
|                                | DMS             | 11.3  | 11.5  | 1.8  | 1   | 3   | 0  | 3   | 0  |
|                                | AD              | 43.4  | 43.4  | 0.0  | 1   | 6   | 5  | 6   | 5  |
|                                | EM              | 30.2  | 30.2  | 0.0  | 1   | 2   | 11 | 2   | 11 |
|                                | PE              | 3.5   | 3.5   | 0.0  | 1   | 1   | 0  | 1   | 0  |
|                                | SMK             | 11.2  | 11.2  | 0.0  | 0   | 2   | 0  | 2   | 0  |
|                                | DE              | 63.8  | 64.4  | 0.9  | 1   | NA  | NA | 0   | 0  |
|                                | RE              | 8.2   | 8.2   | 0.0  | 1   | NA  | NA | 0   | 0  |
|                                | RG              | 7.2   | 7.2   | 0.0  | 1   | NA  | NA | 0   | 0  |
|                                | SM              | 8.0   | 8.0   | 0.0  | 1   | NA  | NA | 0   | 0  |
|                                | SP              | 45.0  | 45.0  | 0.0  | 0   | 12  | 20 | 12  | 19 |
|                                | MC              | 24.2  | 24.2  | 0.0  | 1   | 21  | 0  | 21  | 0  |
|                                | TR              | 9.8   | 9.8   | 0.0  | 1   | 16  | 0  | 16  | 0  |
|                                | GM              | 34.5  | 34.5  | 0.0  | 1   | 3   | 2  | 3   | 2  |
|                                | SD              | 36.0  | 37.8  | 5.0  | 1   | 12  | 8  | 10  | 7  |
|                                | CD              | 103.6 | 109.7 | 5.9  | 10  | NA  | NA | 0   | 0  |
|                                | TO              | 7.2   | 7.2   | 0.0  | 1   | NA  | NA | 0   | 0  |
|                                | TS              | 3.8   | 3.8   | 0.0  | 1   | NA  | NA | 0   | 0  |
|                                | 344             | 57.6  | 59.6  | 3.5  | 3   | NA  | NA | 0   | 0  |
|                                | SY <sup>¶</sup> | 5.5   | 5.5   | 0.0  | 1   | NA  | NA | 0   | 0  |
|                                | SHK             | 7.7   | 7.9   | 2.6  | 1   | 2   | 0  | 2   | 0  |
|                                | SK2             | 31.4  | 33.5  | 6.7  | 0   | 1   | 0  | 1   | 0  |
|                                | SL              | 55.5  | 54.9  | -1.1 | 3   | NA  | NA | 0   | 0  |
|                                | S               | 50.4  | 54.4  | 7.9  | 4   | 6   | 0  | 6   | 0  |
|                                | 229             | 32.1  | 32.1  | 0.0  | 5   | NA  | NA | 0   | 0  |
| <b>Urban<sup>¶</sup></b>       |                 |       |       |      |     |     |    |     |    |
|                                | BE              | 17.0  | 17.0  | 0.0  | 1   | NA  | NA | 0   | 0  |
|                                | BH              | 7.9   | 8.1   | 2.5  | 1   | NA  | NA | 0   | 0  |
|                                | HP              | 23.7  | 23.7  | 0.0  | 1   | NA  | NA | 0   | 0  |
|                                | KW              | 2.8   | 2.8   | 0.0  | 1   | NA  | NA | 0   | 0  |
|                                | MH              | 1.1   | 1.1   | 0.0  | 1   | NA  | NA | 0   | 0  |
|                                | MW              | 13.1  | 13.1  | 0.0  | 1   | NA  | NA | 0   | 0  |
|                                | MO              | 2.2   | 2.3   | 4.5  | 1   | NA  | NA | 0   | 0  |
|                                | SW              | 24.9  | 26.7  | 7.2  | 1   | NA  | NA | 0   | 0  |
|                                | SU              | 10.4  | 10.4  | 0.0  | 1   | NA  | NA | 0   | 0  |
|                                | T7              | 6.8   | 7.7   | 8.8  | 1   | NA  | NA | 0   | 0  |
|                                | TW              | 4.2   | 4.2   | 0.0  | 1   | NA  | NA | 0   | 0  |
|                                | WE              | 3.5   | 3.3   | -5.7 | 1   | NA  | NA | 0   | 0  |
|                                | YA              | 6.1   | 6.1   | 0.0  | 1   | NA  | NA | 0   | 0  |
| <b>Total</b>                   |                 |       |       |      | 100 | 280 | 90 | 272 | 85 |

+ No new urban development built within 4 km of the site since 2001

‡ New urban development built within 100 m of the site since 2001

§ New urban expansion between 100 m and 4 km of the site since 2001

| Urban development has existed within 100 m of the site since prior to 2001

¶ Construction of a single home began within the woodlot during the contemporary study period

# New quarry operation <100 m away built since 2001, but no urban development within 4km