**Appendix 1: Stable isotope values in wolverine hair samples from the Finnish *Eastern* and *Northern* study areas during the period 1905-2020.**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample ID** | **Year** | | **Study area** | **Period** | **δ15N (‰)** | **Raw δ13C (‰)** | **Suess corrected δ13C (‰)** | **C:N  ratio** |
| Gg HM39452 | | 1985 | Eastern | Historical | 6.0 | -23.1 | -23.9 | 2.9 |
| Gg HM4942 | | 1948 | Eastern | Historical | 5.4 | -21.9 | -23.2 | 3.0 |
| Gg KM103 | | 1916 | Eastern | Historical | 7.0 | -20.1 | -21.7 | 2.9 |
| Gg KM265T | | 1993 | Eastern | Historical | 5.1 | -23.5 | -24.1 | 2.8 |
| Gg KM544 | | 1974 | Eastern | Historical | 6.0 | -22.1 | -23.3 | 2.9 |
| Gg T6433 | | 1987 | Eastern | Historical | 5.9 | -22.3 | -23.0 | 2.9 |
| Gg 14751 | | 2019 | Eastern | Recent | 8.8 | -22.2 | -22.2 | 2.9 |
| Gg 16-101 | | 2017 | Eastern | Recent | 7.1 | -23.9 | -24.0 | 2.9 |
| Gg 16-103 | | 2017 | Eastern | Recent | 7.2 | -23.8 | -23.9 | 2.9 |
| Gg 16-111 | | 2016 | Eastern | Recent | 6.2 | -24.0 | -24.0 | 3.0 |
| Gg 16-82 | | 2016 | Eastern | Recent | 5.8 | -24.3 | -24.4 | 3.0 |
| Gg 16-83 | | 2016 | Eastern | Recent | 6.0 | -23.8 | -23.9 | 2.9 |
| Gg 17-113 | | 2018 | Eastern | Recent | 7.6 | -23.1 | -23.1 | 3.0 |
| Gg 17-170 | | 2019 | Eastern | Recent | 6.7 | -23.2 | -23.3 | 3.0 |
| Gg 17-95 | | 2017 | Eastern | Recent | 8.1 | -24.6 | -24.7 | 2.9 |
| Gg 17-99 | | 2017 | Eastern | Recent | 7.4 | -23.4 | -23.5 | 2.9 |
| Gg 18-167 | | 2018 | Eastern | Recent | 6.2 | -23.5 | -23.5 | 2.9 |
| Gg 18-62 | | 2019 | Eastern | Recent | 8.5 | -21.9 | -21.9 | 2.9 |
| Gg 18-72 | | 2018 | Eastern | Recent | 8.0 | -24.2 | -24.2 | 3.0 |
| Gg 19-24 | | 2019 | Eastern | Recent | 7.2 | -23.7 | -23.8 | 2.9 |
| Gg 20-8 | | 2020 | Eastern | Recent | 7.5 | -22.7 | -22.7 | 2.9 |
| Gg 20-9 | | 2020 | Eastern | Recent | 6.9 | -23.1 | -23.1 | 3.0 |
| Gg 22 | | 2017 | Eastern | Recent | 7.2 | -23.8 | -23.8 | 2.9 |
| Gg 34089 | | 2007 | Eastern | Recent | 5.8 | -23.8 | -24.1 | 3.0 |
| Gg 34218 | | 2005 | Eastern | Recent | 5.8 | -23.6 | -23.9 | 3.0 |
| Gg 72 | | 2017 | Eastern | Recent | 7.1 | -23.5 | -23.6 | 2.9 |
| Gg LC14817 | | 2019 | Eastern | Recent | 7.1 | -23.9 | -23.9 | 2.9 |
| Gg T14418 | | 2002 | Eastern | Recent | 7.0 | -23.2 | -23.6 | 3.0 |
| Gg WRU1 | | 2020 | Eastern | Recent | 6.8 | -23.7 | -23.7 | 2.9 |
| Gg 1783-17 | | 2017 | Eastern | Recent | 6.6 | -23.9 | -24.0 | 2.9 |
| Gg 1783-18 | | 2018 | Eastern | Recent | 6.2 | -24.0 | -24.0 | 2.9 |
| Gg 1783-19\_19 | | 2019 | Eastern | Recent | 6.5 | -24.0 | -24.0 | 2.9 |
| Gg 2258 | | 1962 | Northern | Historical | 7.4 | -20.9 | -22.2 | 2.9 |
| Gg 29369 | | 1981 | Northern | Historical | 5.9 | -21.7 | -22.6 | 3.0 |
| Gg 3901 | | 1964 | Northern | Historical | 5.1 | -21.7 | -23.0 | 3.0 |
| Gg HM629 | | 1905 | Northern | Historical | 5.9 | -20.4 | -21.9 | 3.0 |
| Gg HM6880 | | 1913 | Northern | Historical | 6.5 | -19.8 | -21.3 | 2.9 |
| Gg HM6881 | | 1913 | Northern | Historical | 6.5 | -19.9 | -21.5 | 2.9 |
| Gg HM6883 | | 1913 | Northern | Historical | 6.3 | -20.6 | -22.2 | 2.9 |
| Gg LC14794 | | 2019 | Northern | Recent | 7.5 | -23.7 | -23.8 | 2.9 |
| Gg LC14814 | | 2019 | Northern | Recent | 5.2 | -23.0 | -23.0 | 2.9 |
| Gg LC14815 | | 2019 | Northern | Recent | 5.6 | -23.0 | -23.1 | 2.8 |
| Gg LC14816 | | 2019 | Northern | Recent | 5.3 | -24.0 | -24.0 | 2.9 |
| Gg LC14832 | | 2020 | Northern | Recent | 5.1 | -23.2 | -23.2 | 2.9 |
| Gg LC14834 | | 2020 | Northern | Recent | 6.2 | -23.6 | -23.6 | 2.9 |
| Gg LC14835 | | 2020 | Northern | Recent | 5.8 | -22.8 | -22.8 | 2.8 |