***Supplementary Table S1*** Nitrogen value of manure in function of the frequency of spreading and the nature of the vegetal production (Source: French Chamber of Agriculture)

|  |  |  |
| --- | --- | --- |
| **Frequency of spreading** | **Mineral equivalent****(N/kg)** | **Coefficient of N equivalent (N/ha)** |
| Maize | Pasture | Other |
| **Every year** | 14.58 | 0.30 | 0.15 | 0.10 |
| **Each two years** | 12.42 |
| **Each three years** | 10.80 |