

**S3\_Table. Sensitivity analysis of genetic diversity.** After removal of identified sisters, we conducted a sensitivity analysis of the calculated mean expected heterozygosity ( $H_E$ ) for each population of the different *Bombus* spp. in the time period 1918-1926, based on more stringent exclusion policies for missing data. From a maximum of 5 microsatellite loci with missing values within one specimen towards only one locus with missing data. With  $n$  = the total number of workers in each exclusion step and \* = too low number of specimens.

<i>Species</i>	Location	Year	<i>Maximum microsatellite loci with missing values</i>					
			<i>n</i>	5	4	3	2	1
				161	159	154	139	112
<b>Widespread / stable</b>								
<i>B. hortorum</i>	Gelderland	1918	0.697	0.697	0.708	0.688	- *	
	Overijssel	1918	0.763	0.763	0.763	0.767	0.767	
	Z-Holland	1923	0.778	0.778	0.765	0.773	0.703	
<i>B. lapidarius</i>	Limburg	1918	0.553	0.553	0.553	0.644	0.622	
	Overijssel	1918	0.710	0.710	0.710	0.710	0.710	
<i>B. pratorum</i>	Overijssel	1918	0.604	0.604	0.604	0.613	0.613	
<i>B. pascuorum</i>	Limburg	1918	0.694	0.694	0.694	0.691	0.691	
	N-Holland	1924	0.702	0.702	0.659	0.608	0.611	
	Overijssel	1918	0.685	0.685	0.685	0.685	0.685	
	Gelderland	1925	0.733	0.733	0.733	0.734	0.690	
	<b>Total</b>		<b>0.692</b>	<b>0.692</b>	<b>0.687</b>	<b>0.691</b>	<b>0.677</b>	
<b>Restricted / declining</b>								
<i>B. humilis</i>	Gelderland	1926	0.425	0.425	0.425	0.425	0.372	
	Limburg	1918	0.366	0.366	0.366	0.366	0.299	
<i>B. ruderatus</i>	Z-Holland	1923	0.543	0.543	0.543	0.509	0.493	

<i>Species</i>	<b>Location</b>	<b>Year</b>	<i>Maximum microsatellite loci with missing values</i>				
			<b>5</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>
	Overijssel	1918	0.669	0.685	0.685	0.594	0.525
<i>B. subterraneus</i>	Overijssel	1925	0.625	0.625	0.625	0.625	0.605
<i>B. sylvarum</i>	Limburg	1918	0.451	0.451	0.451	0.470	0.484
	Limburg	1920	0.458	0.458	0.458	0.458	0.458
	<b>Subtotal</b>		<b>0.508</b>	<b>0.508</b>	<b>0.508</b>	<b>0.492</b>	<b>0.462</b>
<b>Widespread / declining</b>							
<i>B. muscorum</i>	Limburg	1918	0.401	0.383	0.383	0.383	0.389
	Overijssel	1918	0.503	0.498	0.498	0.498	0.498
<i>B. ruderarius</i>	Limburg	1918	0.496	0.496	0.496	0.570	0.570
	N-Holland	1924	0.490	0.490	0.490	0.496	0.458
	Overijssel	1918	0.252	0.252	0.252	0.250	0.289
<i>B. veteranus</i>	Limburg	1918	0.382	0.382	0.382	0.364	0.364
	<b>Subtotal</b>		<b>0.421</b>	<b>0.417</b>	<b>0.417</b>	<b>0.430</b>	<b>0.428</b>
	<b>Total</b>		<b>0.466</b>	<b>0.466</b>	<b>0.466</b>	<b>0.464</b>	<b>0.446</b>