

Pop	Number of effective alleles (Ne)	Shannon' information- index (I)	Unbiased expected Heterozygosity (uHe)	Percentage of polymorphic loci
Wroxham 20	1.002	0.002	0.001	0.45%
Potter Heigham 21	1.000	0.000	0.000	0.00%
Uptown marshes 22	1.000	0.000	0.000	0.15%
Damgate marshes 23	1.002	0.002	0.001	0.53%
Manxey Barn 27	1.002	0.002	0.001	0.68%
Field Sluice 28	1.000	0.000	0.000	0.08%
Chilley Stream 29	1.000	0.000	0.000	0.00%
Buitenpolder 12	1.021	0.021	0.015	4.62%
Buitenpolder 12b	1.001	0.001	0.001	0.15%
Fish-pond DeMoeidtjes 11	1.008	0.007	0.005	1.21%
Kranenburger Bruch 10a	1.001	0.001	0.000	0.08%
DE commercial 13	1.007	0.006	0.005	0.91%
Neukirchen Vlyn 09	1.001	0.001	0.000	0.23%
Padua 19	1.007	0.006	0.004	0.98%
Starnberg 44	1.001	0.001	0.001	0.15%
Stone-pit Plöcking 26	1.001	0.001	0.001	0.30%
Bathing-lake Feldkirchen 25	1.003	0.002	0.002	0.38%
Traun-Danube floodplain 24	1.010	0.009	0.006	1.97%
Zwentendorfer Au 01	1.008	0.009	0.006	1.97%
AT commercial 08	1.044	0.039	0.031	7.05%
Tischwasser 06	1.002	0.002	0.001	0.45%
Oilstorage Lobau 07	1.007	0.008	0.005	1.97%
Orth ad. Danube 43	1.000	0.000	0.000	0.08%
Eckartsau Fadenbach 02	1.061	0.051	0.037	9.17%
Eckartsau 05	1.010	0.010	0.007	2.05%
Eckartsau Fadenbach 05a	1.001	0.001	0.001	0.38%
Baumgarten ad. March 45	1.001	0.001	0.001	0.38%
Tiszascege 39	1.004	0.004	0.003	1.06%
Danube delta 40	1.002	0.003	0.001	1.06%
Köpu 30	1.005	0.006	0.004	1.52%
Zaugedai 31	1.002	0.001	0.001	0.23%
Balsys 33	1.005	0.006	0.004	1.29%
Galve 32	1.001	0.001	0.000	0.08%
Zuvintas 34	1.009	0.010	0.007	2.88%
Białowieża 41	1.012	0.016	0.010	5.08%
Polzow 38	1.008	0.010	0.006	3.41%
Zühlen Rheinsberg 36	1.003	0.003	0.002	1.06%
Boberow 37	1.006	0.009	0.005	4.09%
Esseler ditch 15	1.000	0.001	0.000	0.30%
Altenboitzen 16	1.002	0.004	0.002	1.52%

Rotenburg 17	1.008	0.008	0.005	1.74%
Werderland ditch 18	1.012	0.010	0.007	1.82%
Wesermarsch 03	1.033	0.029	0.021	5.61%
Wesermarsch 04	1.003	0.003	0.002	0.61%
Papenburg 42	1.005	0.005	0.003	0.91%
Eider 14	1.006	0.006	0.004	1.06%
Tolk lake 35	1.002	0.002	0.002	0.38%
All together	1.360	0.344	0.213	94.09%

Supplementary Material 5: Overview of frequency values