

**** Summary statistics ****

Locus	k	N		HObs	HExp	PIC	NE-1P	NE-2P	NE-PP	NE-I
NE-SI	HW	F(Null)								
PAAC23 0.415	NS	23 0.0331	591	0.675	0.720	0.700	0.650	0.461	0.246	0.098
PAAC19 0.290	***	37 0.2734	589	0.530	0.926	0.920	0.263	0.152	0.038	0.011
SpAGD1 0.275	***	38 0.1843	589	0.657	0.953	0.950	0.176	0.097	0.017	0.004
WS00716.F13 0.285	*	25 0.0414	588	0.861	0.936	0.931	0.234	0.132	0.030	0.008
WS0092.A19 0.788	NS	7 -0.0111	591	0.234	0.228	0.215	0.974	0.883	0.792	0.609
WS0022.B15 0.320	NS	24 0.0199	591	0.841	0.873	0.863	0.389	0.241	0.081	0.025
WS0073.H08 0.445	NS	9 -0.0034	591	0.689	0.688	0.631	0.735	0.570	0.394	0.154
WS00111.K13 0.276	NS	34 0.0074	591	0.936	0.951	0.948	0.184	0.101	0.018	0.005
WS0023.B03 0.284	***	37 -0.0216	591	0.973	0.936	0.932	0.225	0.128	0.026	0.007

Results from GENEPOP

Genepop version 4.2: Hardy-Weinberg test

Number of populations detected: 17
Number of loci detected: 9

Estimation of exact P-Values by the Markov chain method.

Markov chain parameters for all tests:

Dememorization: 10000

Batches: 100

Iterations per batch: 10000

Hardy Weinberg: Probability test

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Results by locus
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Locus "PAAC23"

Fis estimates						

POP	P-val	S.E.	W&C	R&H	Steps	

SM_S1	0.1882	0.0094	0.0796	0.0215	38685	switches
SM_S2	0.8828	0.0055	0.0341	0.0312	47547	switches
SM_S4	0.0535	0.0044	0.3018	0.1065	36931	switches
SM_T1	0.8156	0.0079	0.0685	0.0422	41739	switches
SM_T2	0.9972	0.0006	-0.0509	-0.0196	36343	switches
SM_T4	0.0161	0.0027	0.0219	0.0169	24842	switches
SM_V1	0.0145	0.0019	0.1134	0.0034	68259	switches
SM_V2	0.3863	0.0117	0.0533	0.0569	41491	switches
SM_V4	0.6390	0.0183	0.0904	0.0393	18180	switches
SM01	0.4201	0.0123	-0.0508	-0.0186	30617	switches
SM05	0.0484	0.0083	0.1059	0.0257	19108	switches
SM07	0.4073	0.0116	0.0326	0.1265	42214	switches
SM08	0.2291	0.0105	-0.0544	-0.0330	26158	switches
SM09	0.9216	0.0077	-0.0051	0.0124	29209	switches
SM10	0.1930	0.0107	0.0319	0.0071	38357	switches
SM11	0.7202	0.0118	0.1077	0.0151	23253	switches
SM12	0.5551	0.0075	0.0989	0.1100	82108	switches

All (Fisher's method):

Chi2: 47.2137

Df : 34.0000

Prob : 0.0654

Locus "PAAC19"

Fis estimates						

POP	P-val	S.E.	W&C	R&H	Steps	

SM_S1	0.0000	0.0000	0.4474	0.3484	28203	switches
SM_S2	0.0000	0.0000	0.4776	0.3267	15371	switches

SM_S4	0.0000	0.0000	0.3291	0.2141	16374	switches
SM_T1	0.0000	0.0000	0.4154	0.3082	18818	switches
SM_T2	0.0000	0.0000	0.5533	0.4219	12120	switches
SM_T4	0.0000	0.0000	0.5041	0.3398	40190	switches
SM_V1	0.0000	0.0000	0.4721	0.3048	31319	switches
SM_V2	0.0000	0.0000	0.3559	0.1800	18975	switches
SM_V4	0.0040	0.0013	0.1901	0.0940	20130	switches
SM01	0.0000	0.0000	0.5225	0.2771	50319	switches
SM05	0.0004	0.0004	0.4135	0.4038	26084	switches
SM07	0.0021	0.0010	0.3078	0.2127	23833	switches
SM08	0.0000	0.0000	0.4578	0.3815	15420	switches
SM09	0.0000	0.0000	0.3913	0.1919	19659	switches
SM10	0.0000	0.0000	0.5320	0.4720	42255	switches
SM11	0.0000	0.0000	0.6415	0.5264	34197	switches
SM12	0.0000	0.0000	0.2208	0.1232	28340	switches

All (Fisher's method):

Chi2: Infinity
Df : 34.0000
Prob : High. sign.

Locus "SpAGD1"

POP	P-val	S.E.	Fis estimates		Steps	
			W&C	R&H		
SM_S1	0.0000	0.0000	0.4865	0.3073	13106	switches
SM_S2	0.0000	0.0000	0.3021	0.2239	14642	switches
SM_S4	0.0023	0.0012	0.1923	0.1542	8808	switches
SM_T1	0.0000	0.0000	0.3720	0.2247	9795	switches
SM_T2	0.0000	0.0000	0.3436	0.2650	17328	switches
SM_T4	0.0000	0.0000	0.1653	0.0961	5696	switches
SM_V1	0.0000	0.0000	0.4025	0.4206	17222	switches
SM_V2	0.0000	0.0000	0.2215	0.2176	11791	switches
SM_V4	0.0000	0.0000	0.2242	0.1366	8739	switches
SM01	0.0000	0.0000	0.3832	0.2806	12391	switches
SM05	0.0000	0.0000	0.3248	0.2135	19093	switches
SM07	0.0000	0.0000	0.4046	0.3402	17971	switches
SM08	0.0000	0.0000	0.3878	0.2772	18633	switches
SM09	0.0000	0.0000	0.1379	0.0663	27539	switches
SM10	0.0000	0.0000	0.5103	0.3519	12452	switches
SM11	0.0001	0.0001	0.2831	0.2218	15190	switches
SM12	0.0000	0.0000	0.3016	0.2753	18714	switches

All (Fisher's method):

Chi2: Infinity
Df : 34.0000
Prob : High. sign.

Locus "WS00716.F13"

POP	P-val	S.E.	Fis estimates		Steps	
			W&C	R&H		
SM_S1	0.0446	0.0044	0.1133	0.0966	51427	switches
SM_S2	0.1521	0.0087	0.0803	0.0404	30240	switches
SM_S4	0.4895	0.0134	0.0782	0.0468	29506	switches
SM_T1	0.7794	0.0120	0.0339	0.0070	26071	switches
SM_T2	0.8314	0.0100	0.0782	0.0373	19110	switches

SM_T4	0.0791	0.0085	0.0798	0.0263	23829	switches
SM_V1	0.0976	0.0073	0.0896	0.0737	52837	switches
SM_V2	0.2512	0.0112	0.1133	0.1263	39030	switches
SM_V4	0.8417	0.0059	-0.0140	0.0060	64086	switches
SM01	0.5270	0.0156	0.1049	0.0825	19083	switches
SM05	0.0223	0.0049	0.1301	0.1520	20283	switches
SM07	0.3236	0.0124	0.0926	0.0475	34523	switches
SM08	0.7698	0.0104	-0.0272	-0.0010	21279	switches
SM09	0.1848	0.0075	0.0279	0.0110	100987	switches
SM10	0.2773	0.0140	0.0357	0.0331	23801	switches
SM11	0.0002	0.0002	0.2627	0.1889	36206	switches
SM12	0.6796	0.0114	-0.0265	0.0294	31985	switches

All (Fisher's method):

Chi2: 60.1769
Df : 34.0000
Prob : 0.0037

Locus "WS0092.A19"

POP	P-val	S.E.	Fis estimates		Steps	
			W&C	R&H		
SM_S1	1.0000	0.0000	-0.0303	-0.0160	22421	switches
SM_S2	1.0000	0.0000	-0.0264	-0.0058	9022	switches
SM_S4	1.0000	0.0000	-0.0342	-0.0160	23882	switches
SM_T1	1.0000	0.0000	-0.0264	-0.0058	9326	switches
SM_T2	0.0285	0.0006	0.4887	0.5067	22227	switches
SM_T4	0.0225	0.0010	0.2444	-0.0014	29549	switches
SM_V1	0.0434	0.0003	0.6600	0.6760	43182	switches
SM_V2	1.0000	0.0000	-0.0200	-0.0080	11389	switches
SM_V4	-					
SM01	0.2016	0.0080	-0.0613	-0.0204	15963	switches
SM05	0.7486	0.0011	-0.1747	-0.1040	231007	switches
SM07	1.0000	0.0000	-0.0798	-0.0499	92303	switches
SM08	0.0420	0.0012	0.4860	0.3468	12939	switches
SM09	0.0025	0.0003	-0.3366	-0.1276	115881	switches
SM10	0.6309	0.0015	-0.1859	-0.0969	136135	switches
SM11	0.2724	0.0017	0.0022	-0.0526	135330	switches
SM12	0.0968	0.0017	-0.3926	-0.1523	119411	switches

All (Fisher's method):

Chi2: 51.3069
Df : 32.0000
Prob : 0.0166

Locus "WS0022.B15"

POP	P-val	S.E.	Fis estimates		Steps	
			W&C	R&H		
SM_S1	0.0069	0.0017	0.1707	0.1298	34422	switches
SM_S2	0.0771	0.0075	0.1257	0.0742	30362	switches
SM_S4	0.0038	0.0016	0.2065	0.1172	41651	switches
SM_T1	0.0135	0.0022	0.1597	0.1404	41728	switches
SM_T2	0.2093	0.0142	0.0959	0.0489	34256	switches
SM_T4	0.5151	0.0155	0.0071	-0.0220	22804	switches
SM_V1	0.0709	0.0063	0.0978	0.0154	33225	switches
SM_V2	0.0000	0.0000	0.2081	0.1267	24357	switches

SM_V4	0.1787	0.0173	0.0661	0.0047	18170	switches
SM01	0.9440	0.0058	-0.1111	-0.0398	18315	switches
SM05	0.7773	0.0077	-0.0871	-0.0529	54084	switches
SM07	0.1110	0.0091	-0.1765	-0.0610	27686	switches
SM08	0.8255	0.0066	-0.0369	-0.0363	56586	switches
SM09	0.4139	0.0109	-0.0370	-0.0131	68090	switches
SM10	0.2386	0.0085	-0.1090	-0.0610	37795	switches
SM11	0.7326	0.0109	0.0290	0.0112	26837	switches
SM12	0.8866	0.0048	-0.1044	-0.0576	41608	switches

All (Fisher's method):

Chi2: Infinity
Df : 34.0000
Prob : High. sign.

Locus "WS0073.H08"

POP	P-val	S.E.	Fis estimates		Steps	
			W&C	R&H		
SM_S1	0.4640	0.0036	-0.1305	-0.0898	185087	switches
SM_S2	0.5068	0.0023	0.0850	0.0560	438985	switches
SM_S4	0.9220	0.0009	-0.0929	-0.0768	446810	switches
SM_T1	0.3133	0.0035	0.0328	0.0194	186209	switches
SM_T2	0.8365	0.0020	-0.0398	-0.0500	200350	switches
SM_T4	0.1359	0.0024	-0.0429	-0.0058	200320	switches
SM_V1	0.9329	0.0007	-0.0222	-0.0285	428207	switches
SM_V2	0.2908	0.0034	-0.0341	-0.0195	172136	switches
SM_V4	0.5586	0.0042	0.0411	0.0217	129495	switches
SM01	0.0001	0.0000	0.4320	0.3806	106945	switches
SM05	0.5065	0.0035	-0.0395	-0.0257	207542	switches
SM07	0.5474	0.0037	-0.2597	-0.1149	108560	switches
SM08	0.5280	0.0022	-0.1597	-0.1080	268321	switches
SM09	0.7656	0.0032	0.0506	0.0370	204918	switches
SM10	0.2871	0.0021	-0.0856	-0.0839	334821	switches
SM11	0.9132	0.0010	-0.1527	-0.0817	236455	switches
SM12	0.5249	0.0033	0.0824	0.0455	190658	switches

All (Fisher's method):

Chi2: 40.6872
Df : 34.0000
Prob : 0.1997

Locus "WS00111.K13"

POP	P-val	S.E.	Fis estimates		Steps	
			W&C	R&H		
SM_S1	0.2425	0.0170	0.0264	0.0100	15004	switches
SM_S2	0.3870	0.0189	-0.0018	-0.0101	18301	switches
SM_S4	0.9405	0.0075	0.0101	0.0032	12161	switches
SM_T1	0.1467	0.0143	0.1029	0.1436	14489	switches
SM_T2	0.8866	0.0071	-0.0550	-0.0417	24267	switches
SM_T4	0.8767	0.0104	-0.0221	-0.0198	13885	switches
SM_V1	0.5794	0.0200	0.0730	0.0405	14543	switches
SM_V2	0.0674	0.0079	0.0981	0.0666	19733	switches
SM_V4	0.8638	0.0133	-0.0457	-0.0022	14205	switches
SM01	0.2231	0.0145	0.1039	0.1035	15462	switches
SM05	0.3568	0.0167	0.0079	0.0241	25039	switches

SM07	0.9114	0.0087	-0.0539	-0.0336	12783	switches
SM08	0.8599	0.0137	-0.1500	-0.0384	9601	switches
SM09	0.2534	0.0163	0.0265	0.0085	29636	switches
SM10	0.0543	0.0087	-0.0108	0.0172	11460	switches
SM11	0.0971	0.0099	-0.0642	-0.0393	17218	switches
SM12	0.5672	0.0227	-0.0108	-0.0167	13822	switches

All (Fisher's method):

Chi2: 35.8956
Df : 34.0000
Prob : 0.3797

Locus "WS0023.B03"

POP	P-val	S.E.	Fis estimates		Steps	
			W&C	R&H		
SM_S1	0.8658	0.0136	-0.0620	-0.0314	10784	switches
SM_S2	0.9020	0.0134	-0.0452	-0.0276	9069	switches
SM_S4	0.0741	0.0120	0.0705	0.0494	9890	switches
SM_T1	0.2881	0.0206	0.0075	-0.0005	14027	switches
SM_T2	0.5001	0.0288	-0.0163	0.0012	7749	switches
SM_T4	0.6830	0.0277	-0.0114	-0.0087	6843	switches
SM_V1	0.6461	0.0156	0.0242	0.0045	21101	switches
SM_V2	0.4909	0.0220	-0.0158	-0.0199	12372	switches
SM_V4	0.3023	0.0110	-0.0784	-0.0529	36930	switches
SM01	0.7417	0.0143	-0.1041	-0.0436	18230	switches
SM05	0.1138	0.0163	-0.0448	-0.0220	11785	switches
SM07	0.7986	0.0230	-0.0250	-0.0133	5256	switches
SM08	0.5429	0.0217	-0.2690	-0.0569	15493	switches
SM09	0.3031	0.0304	-0.1985	-0.0083	14135	switches
SM10	0.6152	0.0218	-0.0930	-0.0363	11883	switches
SM11	0.1069	0.0145	-0.1055	-0.0393	13332	switches
SM12	0.1801	0.0167	-0.0571	-0.0312	10299	switches

All (Fisher's method):

Chi2: 32.9027
Df : 34.0000
Prob : 0.5213

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Results by population

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Pop : SM_S1

locus	P-val	S.E.	Fis estimates		Steps	
			W&C	R&H		
PAAC23	0.1882	0.0094	0.0796	0.0215	38685	switches
PAAC19	0.0000	0.0000	0.4474	0.3484	28203	switches
SpAGD1	0.0000	0.0000	0.4865	0.3073	13106	switches
WS00716.F1	0.0446	0.0044	0.1133	0.0966	51427	switches
WS0092.A19	1.0000	0.0000	-0.0303	-0.0160	22421	switches
WS0022.B15	0.0069	0.0017	0.1707	0.1298	34422	switches
WS0073.H08	0.4640	0.0036	-0.1305	-0.0898	185087	switches
WS00111.K1	0.2425	0.0170	0.0264	0.0100	15004	switches
WS0023.B03	0.8658	0.0136	-0.0620	-0.0314	10784	switches

All (Fisher's method):

Chi2 : Infinity
Df : 18.0000
Prob : High. sign.

Pop : SM_S2

locus	P-val	S.E.	Fis estimates		Steps	
			W&C	R&H		
PAAC23	0.8828	0.0055	0.0341	0.0312	47547	switches
PAAC19	0.0000	0.0000	0.4776	0.3267	15371	switches
SpAGD1	0.0000	0.0000	0.3021	0.2239	14642	switches
WS00716.F1	0.1521	0.0087	0.0803	0.0404	30240	switches
WS0092.A19	1.0000	0.0000	-0.0264	-0.0058	9022	switches
WS0022.B15	0.0771	0.0075	0.1257	0.0742	30362	switches
WS0073.H08	0.5068	0.0023	0.0850	0.0560	438985	switches
WS00111.K1	0.3870	0.0189	-0.0018	-0.0101	18301	switches
WS0023.B03	0.9020	0.0134	-0.0452	-0.0276	9069	switches

All (Fisher's method):

Chi2 : Infinity
Df : 18.0000
Prob : High. sign.

Pop : SM_S4

locus	P-val	S.E.	Fis estimates		Steps	
			W&C	R&H		
PAAC23	0.0535	0.0044	0.3018	0.1065	36931	switches
PAAC19	0.0000	0.0000	0.3291	0.2141	16374	switches
SpAGD1	0.0023	0.0012	0.1923	0.1542	8808	switches
WS00716.F1	0.4895	0.0134	0.0782	0.0468	29506	switches
WS0092.A19	1.0000	0.0000	-0.0342	-0.0160	23882	switches
WS0022.B15	0.0038	0.0016	0.2065	0.1172	41651	switches
WS0073.H08	0.9220	0.0009	-0.0929	-0.0768	446810	switches
WS00111.K1	0.9405	0.0075	0.0101	0.0032	12161	switches
WS0023.B03	0.0741	0.0120	0.0705	0.0494	9890	switches

All (Fisher's method):

Chi2 : Infinity
Df : 18.0000
Prob : High. sign.

Pop : SM_T1

locus	P-val	S.E.	Fis estimates		Steps	
			W&C	R&H		
PAAC23	0.8156	0.0079	0.0685	0.0422	41739	switches
PAAC19	0.0000	0.0000	0.4154	0.3082	18818	switches
SpAGD1	0.0000	0.0000	0.3720	0.2247	9795	switches
WS00716.F1	0.7794	0.0120	0.0339	0.0070	26071	switches
WS0092.A19	1.0000	0.0000	-0.0264	-0.0058	9326	switches
WS0022.B15	0.0135	0.0022	0.1597	0.1404	41728	switches
WS0073.H08	0.3133	0.0035	0.0328	0.0194	186209	switches

WS00111.K1	0.1467	0.0143	0.1029	0.1436	14489	switches
WS0023.B03	0.2881	0.0206	0.0075	-0.0005	14027	switches

All (Fisher's method):

Chi2 : Infinity
Df : 18.0000
Prob : High. sign.

Pop : SM_T2

locus	P-val	S.E.	Fis estimates		Steps	
			W&C	R&H		
PAAC23	0.9972	0.0006	-0.0509	-0.0196	36343	switches
PAAC19	0.0000	0.0000	0.5533	0.4219	12120	switches
SpAGD1	0.0000	0.0000	0.3436	0.2650	17328	switches
WS00716.F1	0.8314	0.0100	0.0782	0.0373	19110	switches
WS0092.A19	0.0285	0.0006	0.4887	0.5067	22227	switches
WS0022.B15	0.2093	0.0142	0.0959	0.0489	34256	switches
WS0073.H08	0.8365	0.0020	-0.0398	-0.0500	200350	switches
WS00111.K1	0.8866	0.0071	-0.0550	-0.0417	24267	switches
WS0023.B03	0.5001	0.0288	-0.0163	0.0012	7749	switches

All (Fisher's method):

Chi2 : Infinity
Df : 18.0000
Prob : High. sign.

Pop : SM_T4

locus	P-val	S.E.	Fis estimates		Steps	
			W&C	R&H		
PAAC23	0.0161	0.0027	0.0219	0.0169	24842	switches
PAAC19	0.0000	0.0000	0.5041	0.3398	40190	switches
SpAGD1	0.0000	0.0000	0.1653	0.0961	5696	switches
WS00716.F1	0.0791	0.0085	0.0798	0.0263	23829	switches
WS0092.A19	0.0225	0.0010	0.2444	-0.0014	29549	switches
WS0022.B15	0.5151	0.0155	0.0071	-0.0220	22804	switches
WS0073.H08	0.1359	0.0024	-0.0429	-0.0058	200320	switches
WS00111.K1	0.8767	0.0104	-0.0221	-0.0198	13885	switches
WS0023.B03	0.6830	0.0277	-0.0114	-0.0087	6843	switches

All (Fisher's method):

Chi2 : Infinity
Df : 18.0000
Prob : High. sign.

Pop : SM_V1

locus	P-val	S.E.	Fis estimates		Steps	
			W&C	R&H		
PAAC23	0.0145	0.0019	0.1134	0.0034	68259	switches
PAAC19	0.0000	0.0000	0.4721	0.3048	31319	switches
SpAGD1	0.0000	0.0000	0.4025	0.4206	17222	switches
WS00716.F1	0.0976	0.0073	0.0896	0.0737	52837	switches
WS0092.A19	0.0434	0.0003	0.6600	0.6760	43182	switches

WS0022.B15	0.0709	0.0063	0.0978	0.0154	33225	switches
WS0073.H08	0.9329	0.0007	-0.0222	-0.0285	428207	switches
WS00111.K1	0.5794	0.0200	0.0730	0.0405	14543	switches
WS0023.B03	0.6461	0.0156	0.0242	0.0045	21101	switches

All (Fisher's method):

Chi2 : Infinity
Df : 18.0000
Prob : High. sign.

Pop : SM_V2

locus	P-val	S.E.	Fis estimates		Steps	
			W&C	R&H		
PAAC23	0.3863	0.0117	0.0533	0.0569	41491	switches
PAAC19	0.0000	0.0000	0.3559	0.1800	18975	switches
SpAGD1	0.0000	0.0000	0.2215	0.2176	11791	switches
WS00716.F1	0.2512	0.0112	0.1133	0.1263	39030	switches
WS0092.A19	1.0000	0.0000	-0.0200	-0.0080	11389	switches
WS0022.B15	0.0000	0.0000	0.2081	0.1267	24357	switches
WS0073.H08	0.2908	0.0034	-0.0341	-0.0195	172136	switches
WS00111.K1	0.0674	0.0079	0.0981	0.0666	19733	switches
WS0023.B03	0.4909	0.0220	-0.0158	-0.0199	12372	switches

All (Fisher's method):

Chi2 : Infinity
Df : 18.0000
Prob : High. sign.

Pop : SM_V4

locus	P-val	S.E.	Fis estimates		Steps	
			W&C	R&H		
PAAC23	0.6390	0.0183	0.0904	0.0393	18180	switches
PAAC19	0.0040	0.0013	0.1901	0.0940	20130	switches
SpAGD1	0.0000	0.0000	0.2242	0.1366	8739	switches
WS00716.F1	0.8417	0.0059	-0.0140	0.0060	64086	switches
WS0092.A19	No information.					
WS0022.B15	0.1787	0.0173	0.0661	0.0047	18170	switches
WS0073.H08	0.5586	0.0042	0.0411	0.0217	129495	switches
WS00111.K1	0.8638	0.0133	-0.0457	-0.0022	14205	switches
WS0023.B03	0.3023	0.0110	-0.0784	-0.0529	36930	switches

All (Fisher's method):

Chi2 : Infinity
Df : 16.0000
Prob : High. sign.

Pop : SM01

locus	P-val	S.E.	Fis estimates		Steps	
			W&C	R&H		
PAAC23	0.4201	0.0123	-0.0508	-0.0186	30617	switches
PAAC19	0.0000	0.0000	0.5225	0.2771	50319	switches
SpAGD1	0.0000	0.0000	0.3832	0.2806	12391	switches

WS00716.F1	0.5270	0.0156	0.1049	0.0825	19083	switches
WS0092.A19	0.2016	0.0080	-0.0613	-0.0204	15963	switches
WS0022.B15	0.9440	0.0058	-0.1111	-0.0398	18315	switches
WS0073.H08	0.0001	0.0000	0.4320	0.3806	106945	switches
WS00111.K1	0.2231	0.0145	0.1039	0.1035	15462	switches
WS0023.B03	0.7417	0.0143	-0.1041	-0.0436	18230	switches

All (Fisher's method):

Chi2 : Infinity
Df : 18.0000
Prob : High. sign.

Pop : SM05

locus	P-val	S.E.	Fis estimates		Steps	
			W&C	R&H		
PAAC23	0.0484	0.0083	0.1059	0.0257	19108	switches
PAAC19	0.0004	0.0004	0.4135	0.4038	26084	switches
SpAGD1	0.0000	0.0000	0.3248	0.2135	19093	switches
WS00716.F1	0.0223	0.0049	0.1301	0.1520	20283	switches
WS0092.A19	0.7486	0.0011	-0.1747	-0.1040	231007	switches
WS0022.B15	0.7773	0.0077	-0.0871	-0.0529	54084	switches
WS0073.H08	0.5065	0.0035	-0.0395	-0.0257	207542	switches
WS00111.K1	0.3568	0.0167	0.0079	0.0241	25039	switches
WS0023.B03	0.1138	0.0163	-0.0448	-0.0220	11785	switches

All (Fisher's method):

Chi2 : Infinity
Df : 18.0000
Prob : High. sign.

Pop : SM07

locus	P-val	S.E.	Fis estimates		Steps	
			W&C	R&H		
PAAC23	0.4073	0.0116	0.0326	0.1265	42214	switches
PAAC19	0.0021	0.0010	0.3078	0.2127	23833	switches
SpAGD1	0.0000	0.0000	0.4046	0.3402	17971	switches
WS00716.F1	0.3236	0.0124	0.0926	0.0475	34523	switches
WS0092.A19	1.0000	0.0000	-0.0798	-0.0499	92303	switches
WS0022.B15	0.1110	0.0091	-0.1765	-0.0610	27686	switches
WS0073.H08	0.5474	0.0037	-0.2597	-0.1149	108560	switches
WS00111.K1	0.9114	0.0087	-0.0539	-0.0336	12783	switches
WS0023.B03	0.7986	0.0230	-0.0250	-0.0133	5256	switches

All (Fisher's method):

Chi2 : Infinity
Df : 18.0000
Prob : High. sign.

Pop : SM08

locus	P-val	S.E.	Fis estimates		Steps	
			W&C	R&H		
PAAC23	0.2291	0.0105	-0.0544	-0.0330	26158	switches

PAAC19	0.0000	0.0000	0.4578	0.3815	15420	switches
SpAGD1	0.0000	0.0000	0.3878	0.2772	18633	switches
WS00716.F1	0.7698	0.0104	-0.0272	-0.0010	21279	switches
WS0092.A19	0.0420	0.0012	0.4860	0.3468	12939	switches
WS0022.B15	0.8255	0.0066	-0.0369	-0.0363	56586	switches
WS0073.H08	0.5280	0.0022	-0.1597	-0.1080	268321	switches
WS00111.K1	0.8599	0.0137	-0.1500	-0.0384	9601	switches
WS0023.B03	0.5429	0.0217	-0.2690	-0.0569	15493	switches

All (Fisher's method):

Chi2 : Infinity
Df : 18.0000
Prob : High. sign.

Pop : SM09

Fis estimates					
locus	P-val	S.E.	W&C	R&H	Steps
PAAC23	0.9216	0.0077	-0.0051	0.0124	29209 switches
PAAC19	0.0000	0.0000	0.3913	0.1919	19659 switches
SpAGD1	0.0000	0.0000	0.1379	0.0663	27539 switches
WS00716.F1	0.1848	0.0075	0.0279	0.0110	100987 switches
WS0092.A19	0.0025	0.0003	-0.3366	-0.1276	115881 switches
WS0022.B15	0.4139	0.0109	-0.0370	-0.0131	68090 switches
WS0073.H08	0.7656	0.0032	0.0506	0.0370	204918 switches
WS00111.K1	0.2534	0.0163	0.0265	0.0085	29636 switches
WS0023.B03	0.3031	0.0304	-0.1985	-0.0083	14135 switches

All (Fisher's method):

Chi2 : Infinity
Df : 18.0000
Prob : High. sign.

Pop : SM10

Fis estimates					
locus	P-val	S.E.	W&C	R&H	Steps
PAAC23	0.1930	0.0107	0.0319	0.0071	38357 switches
PAAC19	0.0000	0.0000	0.5320	0.4720	42255 switches
SpAGD1	0.0000	0.0000	0.5103	0.3519	12452 switches
WS00716.F1	0.2773	0.0140	0.0357	0.0331	23801 switches
WS0092.A19	0.6309	0.0015	-0.1859	-0.0969	136135 switches
WS0022.B15	0.2386	0.0085	-0.1090	-0.0610	37795 switches
WS0073.H08	0.2871	0.0021	-0.0856	-0.0839	334821 switches
WS00111.K1	0.0543	0.0087	-0.0108	0.0172	11460 switches
WS0023.B03	0.6152	0.0218	-0.0930	-0.0363	11883 switches

All (Fisher's method):

Chi2 : Infinity
Df : 18.0000
Prob : High. sign.

Pop : SM11

Fis estimates					
locus	P-val	S.E.	W&C	R&H	Steps

PAAC23	0.7202	0.0118	0.1077	0.0151	23253	switches
PAAC19	0.0000	0.0000	0.6415	0.5264	34197	switches
SpAGD1	0.0001	0.0001	0.2831	0.2218	15190	switches
WS00716.F1	0.0002	0.0002	0.2627	0.1889	36206	switches
WS0092.A19	0.2724	0.0017	0.0022	-0.0526	135330	switches
WS0022.B15	0.7326	0.0109	0.0290	0.0112	26837	switches
WS0073.H08	0.9132	0.0010	-0.1527	-0.0817	236455	switches
WS00111.K1	0.0971	0.0099	-0.0642	-0.0393	17218	switches
WS0023.B03	0.1069	0.0145	-0.1055	-0.0393	13332	switches

All (Fisher's method):

Chi2 : Infinity
Df : 18.0000
Prob : High. sign.

Pop : SM12

Fis estimates					
locus	P-val	S.E.	W&C	R&H	Steps
PAAC23	0.5551	0.0075	0.0989	0.1100	82108
PAAC19	0.0000	0.0000	0.2208	0.1232	28340
SpAGD1	0.0000	0.0000	0.3016	0.2753	18714
WS00716.F1	0.6796	0.0114	-0.0265	0.0294	31985
WS0092.A19	0.0968	0.0017	-0.3926	-0.1523	119411
WS0022.B15	0.8866	0.0048	-0.1044	-0.0576	41608
WS0073.H08	0.5249	0.0033	0.0824	0.0455	190658
WS00111.K1	0.5672	0.0227	-0.0108	-0.0167	13822
WS0023.B03	0.1801	0.0167	-0.0571	-0.0312	10299

All (Fisher's method):

Chi2 : Infinity
Df : 18.0000
Prob : High. sign.

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All locus, all populations
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All (Fisher's method) :

Chi2 : Infinity
Df : 244.0000
Prob : High. sign.

Results from GenAlEx

1		17																
Nei Genetic Distance		List1	Pairwise Population Fst Values															
SM_S1	SM_S2	SM_S4	SM_T1	SM_T2	SM_T4	SM_V1	SM_V2	SM_V4	SM01	SM05	SM07	SM08	SM09	SM10	SM11	SM12		
0,000																		SM_S1
0,010	0,000																	SM_S2
0,011	0,009	0,000																SM_S4
0,007	0,008	0,010	0,000															SM_T1
0,011	0,006	0,008	0,009	0,000														SM_T2
0,012	0,009	0,010	0,009	0,009	0,000													SM_T4
0,009	0,008	0,008	0,009	0,007	0,010	0,000												SM_V1
0,012	0,010	0,010	0,009	0,008	0,010	0,009	0,000											SM_V2
0,011	0,009	0,007	0,010	0,010	0,011	0,009	0,011	0,000										SM_V4
0,017	0,015	0,017	0,015	0,014	0,013	0,015	0,014	0,018	0,000									SM01
0,016	0,017	0,017	0,016	0,017	0,015	0,017	0,015	0,020	0,008	0,000								SM05
0,013	0,011	0,012	0,012	0,011	0,011	0,013	0,011	0,017	0,016	0,016	0,000							SM07
0,021	0,016	0,022	0,018	0,017	0,016	0,019	0,016	0,020	0,018	0,018	0,016	0,000						SM08
0,022	0,020	0,024	0,021	0,022	0,017	0,023	0,024	0,026	0,012	0,012	0,019	0,019	0,000					SM09
0,016	0,013	0,019	0,014	0,016	0,012	0,017	0,016	0,020	0,013	0,012	0,010	0,016	0,010	0,000				SM10
0,021	0,014	0,019	0,019	0,015	0,014	0,017	0,018	0,022	0,018	0,020	0,011	0,017	0,015	0,012	0,000			SM11
0,024	0,020	0,022	0,021	0,023	0,016	0,023	0,022	0,026	0,015	0,016	0,017	0,027	0,010	0,012	0,016	0,000		SM12

Fst Values below diagonal.

	1	17																
Nei Genetic Distance	List1	Pairwise Population Matrix of Nei Genetic Distance																
SM_S1	SM_S2	SM_S4	SM_T1	SM_T2	SM_T4	SM_V1	SM_V2	SM_V4	SM01	SM05	SM07	SM08	SM09	SM10	SM11	SM12		
	0,000																SM_S1	
	0,082	0,000															SM_S2	
	0,092	0,071	0,000														SM_S4	
	0,061	0,068	0,078	0,000													SM_T1	
	0,088	0,046	0,066	0,073	0,000												SM_T2	
	0,093	0,069	0,071	0,064	0,065	0,000											SM_T4	
	0,068	0,063	0,068	0,073	0,056	0,069	0,000										SM_V1	
	0,097	0,075	0,071	0,070	0,059	0,071	0,062	0,000									SM_V2	
	0,087	0,069	0,049	0,077	0,075	0,072	0,065	0,078	0,000								SM_V4	
	0,125	0,104	0,113	0,103	0,083	0,098	0,092	0,086	0,105	0,000							SM01	
	0,113	0,117	0,115	0,105	0,111	0,110	0,101	0,089	0,119	0,062	0,000						SM05	
	0,101	0,081	0,084	0,086	0,079	0,082	0,083	0,075	0,108	0,123	0,125	0,000					SM07	
	0,156	0,118	0,168	0,138	0,125	0,122	0,138	0,112	0,135	0,116	0,116	0,121	0,000				SM08	
	0,135	0,112	0,149	0,123	0,126	0,107	0,123	0,132	0,130	0,092	0,098	0,126	0,097	0,000			SM09	
	0,109	0,085	0,125	0,084	0,101	0,086	0,102	0,095	0,112	0,104	0,103	0,073	0,100	0,084	0,000		SM10	
	0,147	0,096	0,123	0,126	0,093	0,101	0,101	0,111	0,135	0,129	0,148	0,082	0,112	0,095	0,092	0,000	SM11	
	0,152	0,109	0,123	0,121	0,132	0,099	0,124	0,115	0,133	0,118	0,127	0,108	0,165	0,101	0,100	0,104	0,000	SM12

