

Characteristic	Aquatic/Animal			Clinical/Human			Land/Anin	
	OR	95% CI	P-value	OR	95% CI	P-value	OR	95% CI
USregion								
northeast								
midwest	0.15	0.02, 1.19	0.072	0.59	0.02, 20.0	0.8	0.11	0.01, 0.94
west	1.60	0.88, 2.91	0.12	0.49	0.05, 5.05	0.5	1.43	0.74, 2.76
south	2.65	1.44, 4.88	0.002	43.6	10.1, 188	<0.001	1.19	0.58, 2.47
other	7.26	1.21, 43.7	0.030	61.9	8.60, 445	<0.001	729	229, 2,325
season								
spring								
summer	1.68	1.37, 2.07	<0.001	1.25	0.72, 2.16	0.4	0.57	0.46, 0.71
autumn	3.85	3.07, 4.82	<0.001	6.13	3.64, 10.3	<0.001	0.59	0.47, 0.74
winter	1.32	1.04, 1.66	0.022	0.93	0.50, 1.71	0.8	0.67	0.54, 0.84
collection.yr								
2010								
2011	4.63	2.85, 7.55	<0.001	1.83	0.47, 7.16	0.4	1.70	0.92, 3.12
2012	6.71	3.69, 12.2	<0.001	1.82	0.31, 10.7	0.5	2.52	1.27, 4.99
2013	27.1	16.3, 45.3	<0.001	40.5	12.5, 131	<0.001	1.07	0.54, 2.14
2014	5.57	3.45, 8.98	<0.001	5.02	1.47, 17.2	0.010	3.96	2.21, 7.09
2015	0.00	0.00, 5.38	0.10	1.74	0.51, 5.86	0.4	0.97	0.55, 1.70
2016	0.00	0.00, 0.03	<0.001	0.08	0.01, 0.45	0.004	0.29	0.16, 0.52
2017	0.16	0.10, 0.25	<0.001	0.20	0.05, 0.83	0.026	0.70	0.41, 1.19
2018	1.00	0.65, 1.54	>0.9	1.43	0.43, 4.79	0.6	0.49	0.28, 0.85
2019	1.23	0.81, 1.87	0.3	1.04	0.31, 3.44	>0.9	0.51	0.30, 0.88
2020	2.13	1.02, 4.42	0.044	0.53	0.02, 13.6	0.7	8.01	3.66, 17.5
2021	0.79	0.47, 1.33	0.4	0.32	0.05, 2.28	0.3	1.30	0.73, 2.31
2022	3.24	2.03, 5.20	<0.001	0.24	0.03, 2.19	0.2	1.43	0.81, 2.53
AMR.genotypes								
aac(6)->COMPLETE,abc-fHMM,eat(A)->PARTIAL_END_OF_CONTIG,foxX-COMLETE,jlin=COMPLETE,mxr(C)=COMPLETE								
aadD1-COMLETE,blaO-COMLETE,blaO-PARTIAL_END_OF_CONTIG,foxX-COMLETE,jlin=COMPLETE,mph(C)=COMPLETE,vga(A)=COMPLETE	1.21	0.84, 1.74	0.3	1.01	0.00, 19,344,585	>0.9	0.22	0.00, 1,691
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,catA-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	5.89	5.23, 6.64	<0.001	2.00	1.68, 2.39	<0.001	0.24	0.01, 11.2
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,catA-PARTIAL_END_OF_CONTIG,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	1.00	1.00, 1.00	>0.9	1.00			1.00	1.00, 1.00
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	5.62	5.02, 6.29	<0.001	1.97	1.67, 2.33	<0.001	0.22	0.01, 4.71
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE								
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	1.00	1.00, 1.00	>0.9	1.00			1.00	
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	1.00	1.00, 1.00	>0.9	1.00	1.00, 1.00	>0.9	1.00	
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,catA-PARTIAL_END_OF_CONTIG,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	2.60	1.86, 3.65	<0.001	0.76	0.00, 514	>0.9	0.02	0.01, 0.04
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	0.60	0.00, 1,205	0.9	0.34	0.00, 77.5	0.7	7.03	0.23, 212
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	0.16	0.00, 154	0.6	0.70	0.27, 1.76	0.4	0.29	0.20, 0.40
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	16,056	3.14, 82,118,879	0.026	6.81	0.00, 10,239,484,360	0.9	63.9	0.00, 1,713,636
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	1.05	0.00, 306,169	>0.9	0.60	0.00, 890,994	>0.9	0.15	0.00, 304
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	1.39	0.84, 2.28	0.2	0.54	0.00, 60,588	>0.9	0.03	0.00, 1,350
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	0.73	0.00, 47,517	>0.9	1.01	0.64, 1.62	>0.9	0.63	0.00, 420,28
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	34.1	4.11, 283	0.001	1.89	0.34, 10.6	0.5	4.62	0.57, 37.8
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	1.18	0.00, 278	>0.9	0.00	0.00, 1,217,858	0.5	27.3	2.18, 341
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	1.00	1.00, 1.00	<0.001	0.76	0.19, 2.97	0.7	0.84	0.00, 60,558,841
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	0.93	0.91, 0.95	<0.001	0.40	0.00, 471	0.8	0.32	0.00, 1,261
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	1.65	0.00, 726,472	>0.9	0.38	0.00, 28,363	0.9	2.70	0.18, 41.4
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	1.02	0.00, 307,700	>0.9	0.57	0.00, 451,721	>0.9	0.17	0.00, 395
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	1.00	1.00, 1.00	>0.9	1.00			1.00	1.00, 1.00
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	0.62	0.00, 122,825	>0.9	1.57	0.00, 308,330	>0.9	16.6	0.25, 1,114
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	0.47	0.00, 335	0.8	0.86	0.00, 163,163	>0.9	0.09	0.00, 138
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	20.2	2.41, 170	0.006	0.23	0.02, 2.07	0.2	2.39	0.29, 20.0
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	0.84	0.00, 4,192	>0.9	0.79	0.00, 19,051	>0.9	0.05	0.00, 196
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	6.95	0.00, 10,309	0.6	5.75	0.00, 32,647	0.7	0.03	0.00, 2,422,715
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	0.46	0.00, 1,589	0.9	0.45	0.00, 459	0.8	0.54	0.00, 8,578
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	2.74	1.41, 5.32	0.003	2.47	0.00, 14,675	0.8	1.08	0.00, 1,505,791
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	1.16	0.05, 25.3	>0.9	1.84	0.04, 81.2	0.8	5.93	0.59, 60.1
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	0.12	0.00, 45.6	0.5	0.10	0.00, 398	0.6	0.39	0.04, 4.29
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	0.74	0.00, 263,388	>0.9	0.79	0.00, 890,132,092	>0.9	0.19	0.00, 1,275
abc-fHMM,ant(5)-la-COMLETE,aph(3')-lla-COMLETE,dfg-COMLETE,erm(B)=COMPLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE,ksa(E)=COMPLETE,spw=COMPLETE,het(S)=COMPLETE	5.00	0.00, 742,778,422	0.9	2.08	0.64, 6.81	0.2	1,883	15.0, 235,91
blaTEM-116-COMLETE,blaTEM-COMLETE,foxX-COMLETE,jlin=COMPLETE	0.05	0.00, 90.9	0.4	0.16	0.00, 132	0.6	0.49	0.00, 3,103
blaTEM-116-COMLETE,blaTEM-COMLETE,foxX-COMLETE,jlin=COMPLETE,jnu(B)=COMPLETE	0.15	0.00, 110	0.6	0.37	0.00, 315	0.8	0.71	0.00, 31,624
blaTEM-116-COMLETE,foxX-COMLETE,jlin=COMPLETE	0.03	0.00, 0.95	0.046	0.94	0.00, 6,901	>0.9	162	11.0, 2,396

blaTEM=COMPLETE,foxX=COMPLETE,jin=COMPLETE	0.17	0.00, 97.5	0.6	0.44	0.00, 773	0.8	0.61	0.00, 8,072
cat-TC=MISTRANSLATION,catA1=COMPLETE,catA1=PARTIAL_END_OF_CONTIG,foxX=COMPLETE,jin=COMPLETE	1.00	1.00, 1.00	>0.9	1.00			1.00	1.00, 1.00
catA1=COMPLETE,catA=COMPLETE,foxX=COMPLETE,jin=COMPLETE	0.53	0.43, 0.65	<0.001	40,971	0.48, 3,484,973,363	0.067	0.05	0.05, 0.05
dfrc=COMPLETE,dfrc=PARTIAL_END_OF_CONTIG,erm(C)=COMPLETE,fosB=MISTRANSLATION,foxX=COMPLETE,jin=COMPLETE	1.00			1.00			1.00	1.00, 1.00
dfrc=COMPLETE,erm(C)=COMPLETE,foxX=COMPLETE,jin=COMPLETE	1.26	1.25, 1.27	<0.001	1.03	0.36, 2.93	>0.9	0.27	0.00, 1,653
dfrc=COMPLETE,fosB=PARTIAL_END_OF_CONTIG,foxX=COMPLETE,jin=COMPLETE	1.00			1.00	1.00, 1.00	>0.9	1.00	1.00, 1.00
dfrc=COMPLETE,foxX=COMPLETE,jin=COMPLETE,mph(C)=COMPLETE,mph(C)=PARTIAL_END_OF_CONTIG,mpr(A)=COMPLETE,mpr(A)=PARTIAL_END_OF_CONTIG	1.26	1.25, 1.27	<0.001	1.03	0.36, 2.93	>0.9	0.27	0.00, 1,653
dfrc=COMPLETE,foxX=COMPLETE,jin=COMPLETE	4.59	0.00, 51,755,626	0.9	2.11	0.00, 977	0.8	0.40	0.00, 34,897
dfre=COMPLETE,foxX=COMPLETE,jin=COMPLETE,jet(L)=PARTIAL_END_OF_CONTIG,jet(M)=PARTIAL_END_OF_CONTIG,jet(O)=COMPLETE,jet(O)=PARTIAL_END_OF_CONTIG	1.21	0.59, 2.47	0.6	0.92	0.00, 54,389,006	>0.9	0.41	0.00, 2,222
erm(B)=PARTIAL_END_OF_CONTIG,foxX=COMPLETE,jin=COMPLETE,jet(L)=COMPLETE,jet(O)=PARTIAL_END_OF_CONTIG	1.21	0.59, 2.47	0.6	0.92	0.00, 54,389,006	>0.9	0.41	0.00, 2,222
erm(T)=PARTIAL_END_OF_CONTIG,foxX=COMPLETE,jin=COMPLETE,jet(L)=COMPLETE	1.00	1.00, 1.00	>0.9	1.00	1.00, 1.00	>0.9	1.00	1.00, 1.00
foxX=COMPLETE,foxX=COMPLETE,jin=COMPLETE	2,712	78.9, 93,249	<0.001	287	8.42, 9,815	0.002	0.61	0.00, 1,383
fosB=MISTRANSLATION,foxX=COMPLETE,jin=COMPLETE,mecA=PARTIAL_END_OF_CONTIG,mph(C)=COMPLETE,mpr(A)=COMPLETE	1.21	0.84, 1.74	0.3	1.01	0.00, 19,344,585	>0.9	0.22	0.00, 1,691
fosB=PARTIAL_END_OF_CONTIG,foxX=COMPLETE,jin=COMPLETE,mph(C)=PARTIAL_END_OF_CONTIG	1.26	1.25, 1.27	<0.001	1.03	0.36, 2.93	>0.9	0.27	0.00, 1,653
foxX=COMPLETE	0.08	0.00, 68.9	0.5	0.99	0.00, 571	>0.9	6.14	0.28, 133
foxX=COMPLETE,foxX=MISTRANSLATION,jin=COMPLETE	1.59	1.15, 2.21	0.005	1.07	0.00, 1,372,091,761	>0.9	0.14	0.00, 1,465
foxX=COMPLETE,foxX=MISTRANSLATION,jin=COMPLETE,jin=PARTIAL_END_OF_CONTIG	0.87	0.44, 1.76	0.7	0.59	0.00, 29,964	>0.9	0.79	0.00, 3,116,715
foxX=COMPLETE,foxX=PARTIAL_END_OF_CONTIG,jin=COMPLETE	3.13	0.02, 568	0.7	0.08	0.00, 19.1	0.4	15.2	0.75, 307
foxX=COMPLETE,foxX=PARTIAL,jin=COMPLETE	0.70	0.00, 6,022	>0.9	0.84	0.00, 713,306	>0.9	0.24	0.00, 2,006
foxX=COMPLETE,jin=COMPLETE	18.9	2.28, 157	0.006	2.18	0.39, 12.2	0.4	4.21	0.51, 34.5
foxX=COMPLETE,jin=COMPLETE,jin=MISTRANSLATION	0.58	0.01, 62.6	0.8	1.40	0.06, 31.5	0.8	0.44	0.03, 5.82
foxX=COMPLETE,jin=COMPLETE,jin=MISTRANSLATION,jin=PARTIAL_END_OF_CONTIG	0.44	0.00, 960	0.8	0.45	0.00, 3,640	0.9	0.43	0.00, 3,682
foxX=COMPLETE,jin=COMPLETE,jin=PARTIAL	0.50	0.00, 62.2	0.8	14.2	1.81, 111	0.012	4.20	0.40, 44.6
foxX=COMPLETE,jin=COMPLETE,jin=PARTIAL_END_OF_CONTIG	0.19	0.00, 271	0.7	0.16	0.00, 119	0.6	3.65	0.19, 69.7
foxX=COMPLETE,jin=COMPLETE,jin(A)=COMPLETE,mpr(A)=COMPLETE	0.99	0.00, 10,315,361,779	>0.9	1.00	0.45, 2.23	>0.9	0.34	0.00, 4,250
foxX=COMPLETE,jin=COMPLETE,jin(B)=COMPLETE,jin(E)=COMPLETE	1.00			1.00	1.00, 1.00	>0.9	1.00	1.00, 1.00
foxX=COMPLETE,jin=COMPLETE,qnrB=PARTIAL_END_OF_CONTIG	2.60	2.45, 2.75	<0.001	8.19	0.08, 826	0.4	0.90	0.00, 4,603,833,876
foxX=COMPLETE,jin=COMPLETE,jet(M)=COMPLETE	0.01	0.00, 111,318	0.6	13.7	2.14, 87.4	0.006	8.94	1.01, 79.3
foxX=COMPLETE,jin=COMPLETE,jet(M)=PARTIAL_END_OF_CONTIG	0.73	0.00, 75,025	>0.9	0.85	0.00, 424,484,235	>0.9	0.90	0.66, 1.22
foxX=COMPLETE,jin=COMPLETE,jet(S)=COMPLETE	7.65	6.05, 9.68	<0.001	2.46	0.00, 14,935,498	>0.9	96.7	6.09, 1,535
foxX=COMPLETE,jin=COMPLETE,vga(A)=COMPLETE,vga(A)=PARTIAL	1.00	1.00, 1.00	>0.9	1.00	1.00, 1.00	>0.9	1.00	1.00, 1.00
foxX=COMPLETE,jin=MISTRANSLATION	0.08	0.00, 399	0.6	0.02	0.00, 7.83	0.2	6.66	0.61, 72.3
foxX=COMPLETE,jin=PARTIAL	0.01	0.00, 48.6	0.3	0.06	0.00, 624	0.6	0.07	0.01, 0.78
foxX=COMPLETE,jet(M)=COMPLETE	0.07	0.00, 5,699	0.6	1.07	0.00, 11,957	>0.9	5.23	0.08, 344
foxX=HMM,jin=COMPLETE	0.33	0.00, 55.4	0.7	2.35	0.06, 85.8	0.6	0.12	0.00, 105
foxX=MISTRANSLATION,jin=COMPLETE	0.32	0.00, 529	0.8	0.06	0.00, 7.82	0.3	33.1	3.13, 351
foxX=PARTIAL_END_OF_CONTIG,jin=COMPLETE	4.70	4.25, 5.19	<0.001	0.00	0.00, 0.00	<0.001	1.85	0.00, 93,872,826
foxX=PARTIAL,jin=COMPLETE	0.00	0.00, 0.00	<0.001	83.5	1.81, 3,851	0.024	2.32	0.00, 6,826
jin=COMPLETE	0.54	0.00, 2,603	0.9	0.49	0.00, 4,669	0.9	0.36	0.00, 2,021
SNPcluster.group								
other								
PD5000000270.29	0.06	0.01, 0.25	<0.001	8.25	3.45, 19.7	<0.001	13.7	9.98, 18.9
PD5000000366.504	1.89	1.64, 2.17	<0.001	0.65	0.48, 0.87	0.004	0.53	0.45, 0.62
PD50000003277.110	0.03	0.00, 0.21	<0.001	4.74	2.12, 10.6	<0.001	0.66	0.37, 1.17
PD50000003294.17	0.04	0.01, 0.23	<0.001	0.07	0.01, 0.81	0.033	0.00	0.00, 0.19
PD5000005985.27	0.05	0.00, 5.97	0.2	0.00	0.00, 3.00	0.10	0.13	0.00, 48.2
PD5000024311.16	0.02	0.00, 0.11	<0.001	0.47	0.12, 1.85	0.3	0.16	0.11, 0.24
PD5000024349.25	0.01	0.00, 0.06	<0.001	0.08	0.03, 0.18	<0.001	1.44	1.08, 1.91
PD5000024645.152	0.64	0.45, 0.89	0.009	0.01	0.00, 0.16	0.001	0.16	0.10, 0.25
PD5000024647.66	0.01	0.00, 0.04	<0.001	0.05	0.03, 0.09	<0.001	0.27	0.17, 0.43
PD5000024856.163	0.02	0.01, 0.09	<0.001	1.40	0.83, 2.34	0.2	1.89	1.35, 2.65
PD5000024934.86	0.02	0.01, 0.04	<0.001	1.90	1.31, 2.77	<0.001	0.50	0.36, 0.68
PD5000024989.120	0.16	0.12, 0.20	<0.001	0.57	0.38, 0.84	0.004	0.61	0.51, 0.73
PD5000025154.24	0.02	0.00, 0.40	0.010	0.40	0.02, 7.26	0.5	0.00	0.00, 110
PD5000025233.7	0.56	0.16, 2.02	0.4	0.19	0.07, 0.53	0.002	20.2	12.6, 32.5
PD5000025311.254	0.58	0.40, 0.84	0.004	1.71	0.94, 3.09	0.078	1.30	0.91, 1.86
PD5000025433.69	0.00	0.00, 0.01	<0.001	0.30	0.12, 0.73	0.008	0.09	0.06, 0.15
PD5000025466.70	0.00	0.00, 0.03	<0.001	0.59	0.15, 2.31	0.5	0.93	0.59, 1.48
PD5000058419.26	0.02	0.00, 0.08	<0.001	5.59	2.62, 11.9	<0.001	0.09	0.02, 0.41
PD5000058430.33	0.01	0.00, 0.04	<0.001	0.44	0.26, 0.75	0.002	0.01	0.00, 0.09
PD5000083553.8	0.01	0.00, 0.04	<0.001	2.17	0.41, 11.4	0.4	1.18	0.75, 1.85
Min.diff	1.01	1.00, 1.01	0.071	1.04	1.03, 1.04	<0.001	0.96	0.96, 0.97

USregion * season												
midwest * summer		1.02	0.60, 1.74	>0.9	1.74	0.55, 5.47	0.3	1.05	0.76, 1.43			
west * summer		2.39	1.81, 3.14	<0.001	2.24	0.98, 5.11	0.056	1.21	0.85, 1.73			
south * summer		0.68	0.50, 0.92	0.013	0.32	0.14, 0.77	0.011	1.37	1.02, 1.84			
other * summer		0.05	0.03, 0.08	<0.001	0.58	0.31, 1.09	0.088	0.42	0.25, 0.68			
midwest * autumn		0.01	0.01, 0.03	<0.001	0.07	0.01, 0.38	0.002	2.14	1.55, 2.96			
west * autumn		0.16	0.12, 0.21	<0.001	0.25	0.11, 0.55	<0.001	2.29	1.63, 3.22			
south * autumn		0.94	0.68, 1.28	0.7	0.06	0.03, 0.14	<0.001	0.78	0.56, 1.08			
other * autumn		0.12	0.08, 0.20	<0.001	0.14	0.08, 0.26	<0.001	0.76	0.47, 1.23			
midwest * winter		0.02	0.01, 0.06	<0.001	0.67	0.17, 2.65	0.6	1.32	0.96, 1.80			
west * winter		0.43	0.32, 0.58	<0.001	0.43	0.16, 1.15	0.093	1.05	0.75, 1.47			
south * winter		0.29	0.20, 0.41	<0.001	0.13	0.04, 0.40	<0.001	1.50	1.10, 2.05			
other * winter		3.59	2.16, 5.97	<0.001	1.50	0.73, 3.07	0.3	4.15	2.52, 6.84			
USregion * collection.yr												
midwest * 2011		0.04	0.00, 1.23	0.066	0.09	0.00, 22.9	0.4	0.52	0.05, 5.19			
west * 2011		0.68	0.36, 1.28	0.2	4.34	0.39, 47.8	0.2	0.12	0.06, 0.24			
south * 2011		2.86	1.45, 5.64	0.002	0.11	0.02, 0.62	0.012	0.57	0.24, 1.31			
other * 2011		0.10	0.00, 20.4	0.4	37.9	0.75, 1.907	0.069	0.48	0.01, 15.8			
midwest * 2012		0.03	0.00, 0.67	0.026	4.22	0.10, 178	0.5	4.65	0.50, 43.1			
west * 2012		0.00	0.00, 0.01	<0.001	0.78	0.05, 11.8	0.9	0.02	0.01, 0.06			
south * 2012		0.09	0.04, 0.20	<0.001	0.16	0.02, 1.13	0.066	0.80	0.34, 1.89			
other * 2012		8.57	0.28, 260	0.2	62.0	1.49, 2.580	0.030	0.00	0.00, 0.23			
midwest * 2013		0.02	0.00, 0.31	0.005	0.03	0.00, 1.66	0.089	6.08	0.66, 56.5			
west * 2013		0.04	0.02, 0.08	<0.001	0.02	0.00, 0.20	0.001	0.04	0.01, 0.10			
south * 2013		0.35	0.16, 0.73	0.005	0.03	0.01, 0.15	<0.001	1.82	0.73, 4.55			
other * 2013		1.03	0.13, 8.03	>0.9	4.01	0.45, 35.8	0.2	0.02	0.00, 0.11			
midwest * 2014		0.04	0.00, 0.59	0.019	0.26	0.01, 10.6	0.5	1.47	0.16, 13.1			
west * 2014		0.04	0.02, 0.08	<0.001	0.21	0.02, 2.25	0.2	0.05	0.02, 0.10			
south * 2014		0.19	0.10, 0.37	<0.001	0.02	0.00, 0.09	<0.001	1.03	0.48, 2.24			
other * 2014		0.45	0.05, 4.42	0.5	83.1	7.85, 880	<0.001	0.01	0.00, 0.07			
midwest * 2015		2,978	0.05, 190,276,169	0.2	0.43	0.01, 16.6	0.7	4.53	0.52, 39.6			
west * 2015		7,212	0.14, 369,721,226	0.11	0.50	0.05, 5.30	0.6	0.26	0.13, 0.52			
south * 2015		2,287	0.04, 117,856,334	0.2	0.02	0.00, 0.11	<0.001	1.29	0.60, 2.78			
other * 2015		3,098	0.05, 184,824,057	0.2	40.3	5.25, 309	<0.001	0.01	0.00, 0.04			
midwest * 2016		39,899	877, 1,814,462	<0.001	6.25	0.10, 378	0.4	11.0	1.24, 98.1			
west * 2016		471	18.6, 11,919	<0.001	6.91	0.42, 112	0.2	0.53	0.26, 1.08			
south * 2016		689	27.1, 17,537	<0.001	0.73	0.08, 6.71	0.8	11.3	5.16, 24.7			
other * 2016		225	5.97, 8,496	0.003	40.7	3.85, 431	0.002	0.00	0.00, 0.00			
midwest * 2017		1.57	0.15, 16.4	0.7	2.76	0.07, 117	0.6	6.98	0.81, 60.4			
west * 2017		8.34	4.36, 16.0	<0.001	3.18	0.23, 44.7	0.4	0.11	0.05, 0.24			
south * 2017		2.71	1.41, 5.21	0.003	0.14	0.02, 0.86	0.034	0.53	0.25, 1.14			
other * 2017		0.23	0.03, 1.46	0.12	42.6	5.24, 346	<0.001	0.00	0.00, 0.00			
midwest * 2018		3.40	0.43, 26.9	0.2	0.67	0.02, 23.4	0.8	30.3	3.51, 262			
west * 2018		1.06	0.56, 2.01	0.9	0.50	0.03, 7.75	0.6	0.00	0.00, 0.08			
south * 2018		2.45	1.30, 4.60	0.005	0.03	0.00, 0.22	<0.001	2.93	1.35, 6.36			
other * 2018		0.52	0.08, 3.50	0.5	68.1	8.94, 519	<0.001	0.03	0.01, 0.11			
midwest * 2019		0.23	0.02, 2.26	0.2	1.30	0.04, 44.4	0.9	39.5	4.58, 340			
west * 2019		0.21	0.11, 0.40	<0.001	0.36	0.02, 5.77	0.5	0.06	0.02, 0.15			
south * 2019		0.09	0.05, 0.17	<0.001	0.01	0.00, 0.10	<0.001	0.77	0.36, 1.64			
other * 2019		1.46	0.22, 9.48	0.7	0.01	0.00, 1.71	0.082	0.00	0.00, 0.00			
midwest * 2020		0.26	0.02, 2.85	0.3	2.69	0.02, 298	0.7	0.32	0.03, 3.09			
west * 2020		2.20	0.84, 5.81	0.11	0.54	0.00, 876	0.9	0.00	0.00, 89,750			
south * 2020		0.48	0.20, 1.14	0.10	0.06	0.00, 2.15	0.12	0.01	0.00, 0.03			
other * 2020		0.88	0.14, 5.68	0.9	0.18	0.00, 6.88	0.4	0.01	0.00, 0.02			
midwest * 2021		2.23	0.16, 31.2	0.6	1.71	0.01, 289	0.8	1.48	0.15, 15.0			
west * 2021		3.39	1.62, 7.11	0.001	10.3	0.51, 210	0.13	0.77	0.36, 1.68			
south * 2021		0.01	0.00, 0.07	<0.001	0.05	0.00, 1.19	0.064	1.30	0.58, 2.92			
other * 2021		0.03	0.00, 0.30	0.003	3.07	0.23, 40.5	0.4	0.01	0.00, 0.02			
midwest * 2022		0.04	0.00, 1.48	0.081	2.73	0.02, 426	0.7	4.44	0.48, 40.7			
west * 2022		0.94	0.44, 2.01	0.9	9.37	0.39, 224	0.2	0.08	0.02, 0.27			
south * 2022		0.00	0.00, 0.02	<0.001	0.03	0.00, 1.38	0.074	0.71	0.33, 1.56			
other * 2022		0.07	0.00, 2.26	0.13	285	11.5, 7,041	<0.001	0.05	0.01, 0.43			

<sup>a</sup> Covariate SNP, cluster group and interactions USregion:season are shown

<sup>†</sup> OR = Odds Ratio, CI = Confidence Interval

<sup>‡</sup> Reference level is represented as -