

[illegible]

SD-4.12	1/137	A	C	T	C	T	A	A	G	C	G	-	A	A	A	C	T	T	T	-	C	-	C	G	T	T	C	G	C	T	G	T	T	A	C	G	T	C	A	G	G	T	G	A	G	C	C	G	A	C	A	C	A	T	T	C	C	A	A	C	C	G	C	G	A	A	T	A	T	T	-	-	A	T	T	T	G	G	C	G	C	T	C	T	C	G	T	T	T
SD-4.13	1/137	A	C	C	C	T	A	A	G	C	G	C	A	A	-	C	T	T	T	T	G	C	G	T	T	C	G	C	T	G	T	T	A	C	G	T	C	A	G	G	T	G	A	G	C	C	G	C	A	C	A	T	T	C	C	A	A	C	C	G	C	G	A	A	T	A	T	T	-	-	A	T	T	T	G	G	C	G	C	T	C	T	C	G	T	T	T		
SD-4.14	1/137	A	C	T	C	T	A	A	-	-	T	C	A	-	-	T	T	T	T	T	C	G	C	G	T	T	C	G	C	T	G	T	T	A	C	G	T	C	A	G	G	T	G	A	G	C	C	G	C	A	C	A	T	T	C	C	A	A	C	C	G	C	G	A	A	T	A	T	T	-	-	A	T	T	T	G	G	C	G	C	T	C	T	C	G	T	T	T	
SD-4.15	1/137	A	C	T	C	T	A	A	G	C	G	C	A	A	-	C	T	T	T	T	C	G	C	G	T	T	C	G	C	T	G	T	T	A	C	G	T	C	A	G	G	T	G	A	G	C	C	G	C	A	C	A	T	T	C	C	A	A	C	C	G	C	G	A	A	T	A	T	T	-	-	A	T	T	T	G	G	C	G	C	T	C	C	C	G	T	T	T	
SD-4.16	1/137	A	C	T	C	T	A	A	G	C	G	-	A	A	A	C	T	T	T	-	C	-	C	A	T	T	C	G	C	T	G	T	T	A	C	G	T	C	A	G	G	T	G	A	G	C	C	G	C	A	C	A	T	T	C	C	A	A	C	C	G	C	G	A	A	T	A	T	T	-	-	A	T	T	T	G	G	C	G	C	T	C	C	C	G	T	T	T	
SD-4.17	1/137	A	C	T	C	T	A	A	G	C	G	-	A	A	A	C	T	T	T	-	C	-	C	G	T	T	C	G	C	T	G	T	T	A	C	G	T	C	A	G	G	T	G	A	G	C	C	G	C	A	C	A	T	T	C	C	A	A	C	C	G	C	G	A	A	T	A	T	T	-	-	A	T	T	T	G	G	C	G	C	T	C	C	C	G	T	T	T	
SD*	6/137	A	C	T	C	T	A	A	G	C	G	-	A	A	A	C	T	T	T	T	C	G	C	G	T	T	C	G	C	T	G	T	T	A	C	G	T	C	A	T	G	T	G	A	G	C	C	G	C	A	C	A	T	T	C	C	A	A	C	C	G	C	G	A	A	T	A	T	T	-	-	A	T	T	T	G	G	C	G	C	T	C	C	C	G	T	T	T	
SD**	3/137	A	C	T	C	T	A	A	G	C	G	T	A	A	A	C	T	T	T	-	C	-	C	G	T	T	C	G	C	T	G	T	T	A	C	G	T	C	A	G	G	T	G	A	G	C	C	G	C	A	C	A	T	T	C	C	A	A	C	C	G	C	G	A	A	T	A	T	T	-	-	A	T	T	T	G	G	C	G	C	T	C	C	C	G	T	T	T	
SD***	15/137	A	C	T	C	T	A	A	G	C	G	-	A	A	A	C	T	T	T	-	C	-	C	G	T	T	C	G	C	T	G	T	T	A	C	G	T	C	A	G	G	T	G	A	G	C	C	G	C	A	C	A	T	T	C	C	A	A	C	C	G	C	G	A	A	T	A	T	T	-	-	A	T	T	T	G	G	C	G	C	T	C	T	C	G	T	T	T	
SD****	14/137	A	C	T	C	T	A	A	G	C	G	C	A	A	-	C	T	T	T	T	C	G	C	G	T	T	C	G	C	T	G	T	T	A	C	G	T	C	A	G	G	T	G	A	G	C	C	G	C	A	C	A	T	T	C	C	A	A	C	C	G	C	G	A	A	T	A	T	T	-	-	A	T	T	T	G	G	C	G	C	T	C	C	C	G	T	T	T	

*Shared haplotype

***Scirtothrips dorsalis* - CO1**

No. of clone/Total clone		Nucleotide Position																																											
Specimen	Ratio	22	24	31	34	40	62	81	88	120	142	160	193	195	214	236	241	249	279	293	309	326	331	332	336	343	375	406	432	435	467	475	491	497	519	545	556	576	578	601	613	616	628		
SD-1.1	1/132	G	T	T	T	T	A	T	A	G	C	T	A	A	A	T	T	A	C	A	A	A	A	A	T	A	C	T	C	T	A	T	A	T	T	T	A	T	T	T	A	T	A	T	
SD-1.2	1/132	G	T	T	T	T	A	T	A	A	T	T	A	A	A	T	T	A	C	A	A	A	A	A	T	A	C	T	C	T	A	T	A	G	T	T	T	A	T	T	C	T	A	T	
SD-1.3	1/132	G	T	T	T	T	A	T	G	A	T	T	A	A	A	T	T	A	C	A	A	A	A	A	T	A	C	T	C	T	A	T	A	T	T	T	A	T	T	T	C	T	A	T	
SD-2.1	1/132	G	T	T	C	T	G	T	A	A	T	T	A	A	A	T	T	A	C	A	A	A	A	A	T	A	C	T	C	T	A	T	A	T	T	T	A	T	T	T	T	A	T		
SD-2.2	1/132	G	T	T	T	T	A	T	A	A	T	T	A	G	A	T	T	A	C	A	G	A	A	A	T	A	C	T	C	T	A	T	A	T	T	T	A	T	T	T	T	A	T		
SD-2.3	1/132	G	T	T	T	C	A	T	A	A	T	T	A	A	A	T	T	A	C	A	A	A	G	A	T	A	C	T	C	T	A	T	A	T	T	T	A	T	T	T	T	A	T		
SD-2.4	1/132	G	T	T	T	T	A	T	A	A	T	T	A	A	A	C	T	A	C	A	A	A	A	A	T	A	C	T	C	T	A	T	A	T	T	T	A	T	C	T	T	A	T		
SD-2.5	1/132	G	T	T	T	T	A	T	A	A	T	T	A	A	A	T	T	A	C	A	A	A	A	A	T	A	C	T	C	T	A	C	A	T	T	T	A	T	T	T	A	T	A	T	
SD-2.6	1/132	G	C	T	T	T	A	T	A	A	T	T	A	A	A	T	T	A	C	A	A	A	A	A	T	A	C	T	C	C	A	T	A	T	T	T	A	T	T	T	T	G	T		
SD-2.7	1/132	G	T	T	T	T	A	T	A	A	T	T	A	A	A	T	T	A	C	A	A	A	A	A	T	A	C	T	C	T	T	G	T	A	T	T	T	A	T	T	T	A	T		
SD-2.8	1/132	A	T	T	T	T	A	T	A	A	T	T	A	A	A	T	T	A	C	A	A	A	A	A	T	A	C	T	C	T	A	T	A	C	T	T	A	T	T	T	A	T	A	T	
SD-2.9	1/132	G	T	T	T	T	A	T	A	A	T	T	G	A	A	T	C	A	C	A	A	A	A	A	T	A	C	T	T	T	A	T	A	T	T	T	A	T	T	T	A	T	A	T	
SD-2.10	1/132	G	T	T	T	T	A	T	A	A	T	T	A	A	A	T	T	A	C	G	A	A	A	A	T	A	C	T	C	T	A	A	A	T	C	T	A	T	T	T	A	T	A	T	
SD-3.1	1/132	G	T	C	T	T	A	T	A	A	T	T	A	A	A	T	T	A	C	A	A	A	A	G	T	A	C	T	C	T	A	T	A	T	T	T	A	T	T	T	A	T	A	T	
SD-3.2	1/132	G	T	T	T	T	A	T	A	A	T	T	A	A	A	T	T	G	A	C	A	A	A	A	T	A	C	T	C	T	A	T	A	T	T	T	A	T	T	T	A	T	A	T	
SD-3.3	1/132	G	T	T	T	T	A	T	A	A	T	T	A	A	G	T	T	A	C	A	A	A	A	A	T	A	C	-	C	T	A	T	A	T	T	T	A	T	T	T	A	T	A	T	
SD-4.1	1/132	G	T	T	T	T	A	T	A	A	T	T	A	A	A	T	T	A	C	A	A	A	A	A	T	A	C	T	C	T	A	T	A	T	T	T	G	T	T	T	T	A	T		
SD-4.2	1/132	G	T	T	T	T	A	C	A	A	T	T	A	A	A	T	T	A	C	A	A	A	A	A	T	A	C	T	C	T	A	T	A	T	T	T	A	T	T	T	A	C	T		
SD-4.3	1/132	G	T	T	T	T	A	T	A	A	T	-	A	A	A	T	T	A	C	A	A	A	A	A	T	A	C	T	C	T	A	T	A	T	T	T	G	T	T	T	T	A	T		
SD-4.4	1/132	G	T	T	T	T	A	T	A	A	T	T	A	A	A	C	T	A	C	A	A	G	A	A	T	A	C	T	C	T	A	T	A	T	T	T	C	A	T	T	T	A	T		
SD*	110/132	G	T	T	T	T	A	T	A	A	T	T	A	A	A	T	T	A	C	A	A	A	A	A	T	A	C	T	C	T	A	T	A	T	T	T	A	T	T	T	T	A	T	A	T

*Shared haplotype

Thrips palmi - ITS

[illegible]

TP-4.15	1/149	A	A	A	T	G	T	C	T	C	T	C	A	A	T	T	A	A	A	T	G	A	T	T	G	A	T	T	G	A	C	C	C	A	A	T	C	A	T	C	T	T	G	T	T	G	G	T	T	T	G	A	T	C	T	G	C	A	T	G	C	C	A	G	T	T	T	T	T	T	A	C	C	A	C	T	G
TP-4.16	1/149	A	A	A	T	G	T	C	T	C	T	T	A	A	T	T	A	A	A	T	G	A	T	T	G	A	C	C	C	A	A	T	C	A	T	C	T	C	T	G	T	T	G	G	T	T	T	G	G	A	T	C	T	G	C	A	T	G	C	C	A	G	T	T	T	T	T	T	A	C	C	A	C	T	G		
TP-4.17	1/149	A	A	A	T	G	T	C	T	C	T	T	A	A	T	T	A	A	A	T	G	A	T	T	G	A	C	C	C	A	A	T	C	A	T	C	T	C	T	G	T	T	G	G	T	T	T	G	G	A	T	C	T	G	C	A	T	G	C	C	A	G	T	T	T	T	T	T	A	C	C	A	C	T	G		
TP-4.18	1/149	A	A	A	T	G	A	T	T	C	T	T	A	A	T	T	A	A	A	T	G	A	T	T	G	A	C	C	C	A	A	T	C	A	T	C	T	C	T	G	G	C	T	T	G	G	T	T	T	G	G	A	T	C	T	G	C	A	T	G	T	C	A	G	T	T	T	T	T	T	A	C	C	A	C	T	G
TP-4.19	1/149	A	A	A	T	G	A	T	T	C	T	T	A	A	T	T	A	A	A	T	G	A	C	T	G	G	T	T	G	A	C	C	A	A	T	C	A	T	C	T	G	G	T	T	T	G	G	A	T	C	T	G	C	A	T	G	C	C	A	G	T	T	T	T	T	T	A	C	C	A	C	T	G				
TP-4.20	1/149	A	A	A	T	G	A	T	T	C	T	T	A	A	T	T	A	A	A	T	G	A	T	T	G	A	C	C	C	A	A	T	C	A	T	C	T	C	T	G	G	T	T	G	G	T	T	T	G	G	A	T	C	T	G	C	A	T	G	C	C	A	G	T	T	T	T	T	T	A	C	C	A	C	T	G	
TP-4.21	1/149	A	A	A	T	G	T	C	T	T	T	T	A	A	T	T	A	A	A	T	G	A	T	T	G	A	C	C	C	A	A	T	C	A	T	C	T	C	T	G	T	T	G	G	T	T	T	G	G	A	T	C	T	G	C	A	T	G	C	C	A	G	T	T	T	T	T	T	A	C	C	A	C	T	G		
TP-4.22	1/149	A	A	A	T	G	T	C	T	C	T	T	A	A	T	T	A	A	A	T	G	A	T	T	A	C	C	C	A	A	T	C	A	T	C	T	C	T	G	G	C	T	T	T	G	G	T	T	T	G	G	A	T	C	T	G	C	A	C	G	T	T	A	A	T	T	T	T	A	C	C	A	T	T	G		
TP-4.23	1/149	A	A	A	T	G	T	C	T	C	C	T	A	A	T	T	A	A	A	T	G	A	T	T	G	A	C	C	C	A	A	T	C	A	T	C	T	G	G	T	T	T	G	G	T	T	T	G	G	A	T	C	T	G	C	A	T	G	C	C	A	G	T	T	T	T	T	T	A	C	C	A	T	T	G		
TP-4.24	1/149	A	A	A	T	G	A	T	C	C	T	T	A	A	T	T	A	A	A	T	G	A	T	T	G	A	C	C	C	A	A	T	C	A	T	C	T	C	T	G	G	T	T	T	G	G	T	T	T	G	G	A	C	T	T	G	C	A	T	G	C	T	A	G	T	T	T	T	T	T	A	T	T	G	T	T	G
TP-4.25	1/149	A	A	A	T	G	A	T	T	C	T	T	A	A	T	T	A	A	A	T	G	A	T	T	G	A	C	C	C	A	A	C	C	A	T	C	T	T	G	G	T	T	T	G	G	T	T	T	G	G	A	T	C	T	G	C	A	T	G	T	C	A	G	T	T	T	T	T	T	A	C	C	A	C	T	G	
TP-4.26	1/149	A	A	A	T	G	A	T	T	C	T	T	A	A	T	T	A	A	A	T	G	A	T	T	G	A	C	C	C	A	A	T	C	A	T	C	T	C	T	G	T	T	G	G	T	T	T	G	G	A	T	C	T	G	C	A	T	G	C	C	A	G	T	T	T	T	T	T	A	C	C	A	C	T	G		
TP*	22/149	A	A	A	T	G	A	T	T	C	T	T	A	A	T	T	A	A	A	T	G	A	T	T	G	A	C	C	C	A	A	T	C	A	T	C	T	C	T	G	T	T	T	G	G	T	T	T	G	G	A	T	C	T	G	C	A	T	G	C	C	A	G	T	T	T	T	T	T	A	C	C	A	C	T	G	
TP**	17/149	A	A	A	T	G	A	T	T	C	T	T	A	A	T	T	A	A	A	T	G	A	T	T	G	A	C	C	C	A	A	T	C	A	T	C	T	G	T	T	G	G	T	T	T	G	G	A	T	C	T	G	C	A	T	G	C	C	A	G	T	T	T	T	T	T	A	C	C	A	C	T	G				
TP***	2/149	A	A	A	T	G	A	T	T	C	T	T	A	A	T	T	A	A	A	T	G	A	T	T	G	A	C	C	C	A	A	C	C	A	T	C	T	C	T	G	G	T	T	T	G	G	A	T	C	T	G	C	A	T	G	T	C	A	G	T	T	T	T	T	T	A	C	C	A	C	T	G					
TP****	6/149	A	A	A	T	G	T	C	T	C	T	T	A	A	T	T	A	A	A	T	G	A	T	T	G	A	C	C	C	A	A	T	C	A	T	C	T	C	T	T	G	G	T	T	T	G	G	A	T	C	T	G	C	A	C	G	T	T	A	G	T	T	T	T	T	T	A	C	C	A	C	T	G				
TP*****	10/149	A	A	A	T	G	T	C	T	C	T	T	A	A	T	T	A	A	A	T	G	A	T	T	G	A	C	C	C	A	A	T	C	A	T	C	T	C	T	G	T	T	T	G	G	T	T	T	G	G	A	T	C	T	G	C	A	T	G	C	C	A	G	T	T	T	T	T	T	A	C	C	A	C	T	G	
TP*****	9/149	A	A	A	T	G	A	T	T	C	T	T	A	A	T	T	A	A	A	T	G	A	T	T	G	A	C	C	C	A	A	C	C	A	T	C	T	C	T	G	T	T	G	G	T	T	T	G	G	A	T	C	T	G	C	A	T	G	T	C	A	G	T	T	T	T	T	T	A	T	T	G	T	T	G		

*Shared haplotype

***Thrips palmi* -CO1**

No.of clone/Total Clone		Nucleotide Position																			
Specimen	Ratio	30	44	79	160	187	267	270	280	308	313	328	339	363	386	408	572	578	598	601	643
TP-1.1	38/120	C	T	A	T	T	T	T	T	A	A	A	A	A	A	C	A	T	T	A	C
TP-1.2	1/120	C	T	A	T	T	T	T	T	A	A	A	A	A	A	A	A	C	T	A	C
TP-1.3	1/120	C	T	A	T	T	T	C	T	G	A	A	A	A	A	C	A	T	T	A	C
TP-1.4	1/120	C	T	G	T	T	T	T	T	A	A	A	A	A	A	C	A	T	T	A	T
TP-1.5	1/120	T	T	A	T	T	T	T	T	A	A	A	A	A	A	C	G	T	T	A	C
TP-2.1	1/120	C	C	A	-	C	T	T	T	A	G	A	A	A	A	C	A	T	C	A	C
TP-2.2	1/120	C	C	A	T	C	C	T	T	A	A	A	A	G	A	C	A	T	C	A	C
TP-4.1	1/120	C	C	A	T	C	T	T	C	A	A	G	A	A	A	C	A	T	C	A	C
TP-4.2	1/120	C	C	A	T	C	T	T	T	A	A	A	G	A	A	C	A	T	C	G	C
TP-4.3	1/120	C	C	A	T	C	T	T	T	A	A	A	A	A	G	C	A	T	C	G	C
TP*	73/120	C	C	A	T	C	T	T	T	A	A	A	A	A	A	C	A	T	C	A	C

*Shared haplotype

Frankliniella occidentalis -ITS

No.of clone/Total Clone		Nucleotide Position																									
Specimen	Ratio	34	37	70	92	127	149	158	169	173	179	237	240	246	252	258	264	289	291	295	299	313	328	386	387	416	432
FO-1.1	17/105	A	A	G	A	T	T	C	T	T	G	G	A	C	C	A	T	G	T	T	G	A	T	-	-	G	A
FO-1.2	1/105	A	G	G	A	T	T	T	T	T	G	G	A	C	C	A	T	G	T	T	G	A	T	-	-	G	A
FO-1.3	1/105	A	A	G	G	T	T	C	T	T	G	G	A	C	C	A	T	G	T	T	G	G	T	-	-	G	A
FO-1.4	1/105	A	A	G	A	T	T	C	T	T	G	G	A	C	C	A	T	G	T	T	G	G	C	-	-	G	A
FO-2.1	1/105	G	A	G	A	T	T	C	T	C	G	G	A	C	C	A	T	G	T	T	G	G	C	T	T	G	A
FO-3.1	1/105	A	A	G	A	C	T	C	T	T	G	A	A	C	C	A	T	G	T	T	G	G	C	T	T	G	A
FO-3.2	1/105	A	A	G	A	T	T	C	T	T	G	G	A	C	C	G	T	G	T	T	A	G	C	T	T	G	A
FO-3.3	1/105	A	A	G	A	T	T	C	C	T	G	G	A	C	T	A	T	G	T	T	G	G	C	T	T	G	A
FO-3.4	1/105	A	A	G	A	T	T	C	T	T	A	G	A	T	C	A	T	G	T	T	G	G	C	T	T	G	A
FO-3.5	1/105	A	A	G	A	T	C	C	T	T	G	G	A	C	C	A	C	G	T	T	G	G	C	T	T	T	A
FO-3.6	1/105	A	A	G	A	T	T	C	T	T	G	G	A	C	C	A	T	G	T	C	G	G	C	T	T	G	G
FO-4.1	1/105	A	A	G	A	T	T	C	T	T	G	G	A	C	C	A	T	T	A	T	G	G	C	T	T	G	A
FO-4.2	1/105	A	A	A	A	T	T	C	T	T	G	G	G	C	C	A	T	G	T	T	G	G	C	T	T	G	A
FO*	76/105	A	A	G	A	T	T	C	T	T	G	G	A	C	C	A	T	G	T	T	G	G	C	T	T	G	A

*Shared haplotype

***Frankliniella occidentalis* CO1**

No.of clone/Total Clone		Nucleotide Position																							
Specimen	Ratio	30	31	34	41	48	88	113	114	133	137	158	189	190	216	252	268	297	303	321	352	383	399	414	
FO-1.1	1/150	T	T	T	T	T	A	T	C	A	T	T	T	A	T	A	T	C	T	C	A	G	T	T	
FO-1.2	1/150	T	T	T	T	C	A	T	T	A	T	T	T	A	T	A	T	T	T	C	G	G	T	T	
FO-1.3	1/150	T	T	T	T	C	A	T	C	A	T	T	T	G	T	A	T	T	T	C	A	G	C	T	
FO-1.4	2/150	T	T	T	T	C	G	T	C	A	T	T	T	A	T	A	T	T	T	C	A	G	T	T	
FO-1.5	1/150	C	T	T	T	C	A	T	C	A	T	T	T	A	T	A	T	T	C	C	A	G	T	T	
FO-2.1	2/150	T	T	T	T	C	A	C	C	A	T	T	T	A	T	A	T	T	T	C	A	G	T	T	
FO-2.2	1/150	T	T	T	T	C	A	T	C	A	T	T	T	A	C	A	T	T	T	C	A	G	T	C	
FO-2.3	1/150	T	T	C	T	C	A	C	C	A	C	T	T	A	T	A	T	T	T	C	A	G	T	T	
FO-3.1	2/150	T	T	T	T	C	A	T	C	A	T	T	T	A	T	A	T	T	T	T	A	G	T	T	
FO-3.2	2/150	T	T	T	T	C	A	T	C	G	T	T	T	A	T	A	T	T	T	C	A	G	T	T	
FO-3.3	1/150	T	C	T	T	C	A	T	C	A	T	T	T	A	T	A	C	T	T	C	A	G	T	T	
FO-3.4	1/150	T	T	T	T	C	A	T	C	A	T	A	T	A	T	G	T	T	T	C	A	A	T	T	
FO-4.1	1/150	T	T	T	C	C	A	T	C	A	T	T	C	A	T	A	T	T	T	C	A	G	T	T	
FO*	133/150	T	T	T	T	C	A	T	C	A	T	T	T	A	T	A	T	T	T	C	A	G	T	T	

*Shared haplotype