

Supplementary Table 2. Louse specimens used in analysis from South Texas with corresponding GenBank reference numbers for each gene. TCWC ID refers to bird voucher specimen numbers (five digits), or non-vouchers (other designations) that were ruffled and released.

Louse species	Host species	TCWC ID	COI	18S	EF-1 α
Amblycera					
<i>Hohorstiella</i> sp.	<i>Columbina passerina</i>	23941	MZ964420	–	–
<i>Menacanthus</i> sp.	<i>Cyanocorax yncas</i>	23663	MZ964427	MZ964563	MZ964517
<i>Menacanthus</i> sp.	<i>Icterus cucullatus</i>	23657	MZ964428	–	–
<i>Menacanthus</i> sp.	<i>Myiarchus tyrannulus</i>	23696	MZ964429	–	MZ964522
<i>Menacanthus</i> sp.	<i>Cardinalis cardinalis</i>	23522	MZ964430	MZ964564	MZ964523
<i>Menacanthus</i> sp.	<i>Setophaga americana</i>	23678	MZ964431	MZ964565	MZ964524
<i>Menacanthus</i> sp.	<i>Eremophila alpestris</i>	23510	MZ964432	MZ964566	–
<i>Myrsidea</i> sp.	<i>Tachycineta bicolor</i>	23669	MZ964433	MZ964567	MZ964525
<i>Myrsidea</i> sp.	<i>Chondestes grammacus</i>	23717	MZ964437	–	–
<i>Myrsidea</i> sp.	<i>Agelaius phoeniceus</i>	23520	MZ964438	MZ964568	–
<i>Myrsidea</i> sp.	<i>Thyothorus ludovicianus</i>	23546	MZ964439	MZ964569	MZ964526
<i>Myrsidea</i> sp.	<i>Agelaius phoeniceus</i>	23519	MZ964434	–	–
<i>Myrsidea</i> sp.	<i>Molothrus ater</i>	23715	MZ964435	MZ964570	MZ964527
<i>Myrsidea</i> sp.	<i>Cyanocorax yncas</i>	23619	MZ964436	–	MZ964528
<i>Myrsidea</i> sp.	<i>Parkesia motacilla</i>	23625	MZ964440	MZ964571	MZ964529
<i>Myrsidea</i> sp.	<i>Parkesia motacilla</i>	23652	MZ964441	–	–
<i>Myrsidea</i> sp.	<i>Setophaga virens</i>	23653	MZ964442	MZ964572	MZ964530
<i>Myrsidea</i> sp.	<i>Cardinalis cardinalis</i>	3933108	MZ964443	–	MZ964531
<i>Myrsidea</i> sp.	<i>Cardinalis cardinalis</i>	3933142	MZ964444	–	–
<i>Myrsidea</i> sp.	<i>Cardinalis cardinalis</i>	3933143	MZ964445	–	–
<i>Myrsidea</i> sp.	<i>Cardinalis cardinalis</i>	3933105	MZ964446	–	–
<i>Myrsidea</i> sp.	<i>Cardinalis cardinalis</i>	23557	MZ964447	–	–
<i>Myrsidea</i> sp.	<i>Mimus polyglottos</i>	23918	MZ964448	MZ964573	MZ964532
<i>Myrsidea</i> sp.	<i>Mimus polyglottos</i>	23647	MZ964449	MZ964574	–
<i>Myrsidea</i> sp.	<i>Mimus polyglottos</i>	3933126	MZ964450	–	–

<i>Myrsidea</i> sp.	<i>Mimus polyglottos</i>	3933033	MZ964451	—	—
<i>Myrsidea</i> sp.	<i>Passerina ciris</i>	23525	MZ964453	—	MZ964533
<i>Myrsidea</i> sp.	<i>Piranga rubra</i>	23705	MZ964454	—	—
<i>Ricinus</i> sp.	<i>Passerina versicolor</i>	18139	MZ964421	—	—
<i>Ricinus</i> sp.	<i>Pyrocephalus rubinus</i>	17954	MZ964422	MZ964575	—
<i>Ricinus</i> sp.	<i>Vermivora chrysoptera</i>	23706	MZ964423	MZ964576	MZ964534
<i>Ricinus</i> sp.	<i>Leiothlypis peregrina</i>	24152	MZ964424	MZ964577	MZ964535
<i>Ricinus</i> sp.	<i>Parkesia noveboracensis</i>	23704	MZ964425	—	—
<i>Ricinus</i> sp.	<i>Setophaga castanea</i>	23711	MZ964426	MZ964578	MZ964536
Ischnocera					
<i>Columbicola</i> sp.	<i>Columbina passerina</i>	23941	MZ964459	—	—
<i>Columbicola</i> sp.	<i>Zenaida macroura</i>	21669	MZ964460	MZ964540	MZ964504
<i>Anaticola</i> sp.	<i>Anas clypeata</i>	23602	MZ964462	MZ964542	MZ964506
<i>Anatoecus</i> sp.	<i>Anas clypeata</i>	23602	MZ964464	—	MZ964507
<i>Brueelia</i> sp.	<i>Molothrus aeneus</i>	18099	MZ964473	—	—
<i>Brueelia</i> sp.	<i>Agelaius phoeniceus</i>	RWBB3	MZ964474	MZ964547	—
<i>Brueelia</i> sp.	<i>Molothrus aeneus</i>	23919	MZ964475	—	—
<i>Brueelia</i> sp.	<i>Molothrus ater</i>	21687	MZ964476	—	—
<i>Brueelia</i> sp.	<i>Auriparus flaviceps</i>	18138	MZ964477	—	MZ964510
<i>Brueelia</i> sp.	<i>Toxostoma longirostre</i>	18186	MZ964478	MZ964548	—
<i>Brueelia</i> sp.	<i>Melospiza lincolni</i>	23634	MZ964484	MZ964549	—
<i>Brueelia</i> sp.	<i>Icterus graduacauda</i>	18042	MZ964485	MZ964550	MZ964511
<i>Brueelia</i> sp.	<i>Sturnella magna</i>	18056	MZ964486	MZ964551	MZ964512
<i>Brueelia</i> sp.	<i>Toxostoma curvirostre</i>	18065	MZ964479	MZ964552	MZ964513
<i>Brueelia</i> sp.	<i>Toxostoma longirostre</i>	21845	MZ964480	MZ964553	MZ964514
<i>Brueelia</i> sp.	<i>Vireo griseus</i>	23504	MZ964481	—	—
<i>Brueelia</i> sp.	<i>Toxostoma curvirostre</i>	17732	MZ964482	—	—
<i>Brueelia</i> sp.	<i>Campylorhynchus brunneicapillus</i>	18041	Pending	—	—
<i>Brueelia</i> sp.	<i>Mimus polyglottos</i>	23698	MZ964483	—	—
<i>Brueelia</i> sp.	<i>Mimus polyglottos</i>	23918	MZ964490	MZ964556	—

<i>Brueelia</i> sp.	<i>Mimus polyglottos</i>	3933130	MZ964468	—	—
<i>Brueelia</i> sp.	<i>Toxostoma longirostre</i>	23661	MZ964470	MZ964546	MZ964516
<i>Brueelia</i> sp.	<i>Mimus polyglottos</i>	3933126	MZ964471	—	—
<i>Brueelia</i> sp.	<i>Mimus polyglottos</i>	17990	MZ964472	—	—
<i>Brueelia</i> sp.	<i>Cardinalis cardinalis</i>	23635	MZ964442	MZ964544	MZ964508
<i>Goinodes</i> sp.	<i>Colinus virginianus</i>	23609	MZ964488	MZ964555	—
<i>Cuculoecus</i> sp.	<i>Coccyzus americanus</i>	18187	MZ964463	MZ964543	—
<i>Penenirmus</i> sp.	<i>Melanerpes aurifrons</i>	23527	MZ964461	MZ964541	MZ964505
<i>Lunaceps</i> sp.	<i>Calidris alba</i>	23614	MZ964487	MZ964554	—
<i>Cummingsiella</i> sp.	<i>Numenius americanus</i>	21686	MZ964458	MZ964539	MZ964503
<i>Philopterus</i> sp.	<i>Peucaea cassinii</i>	23574	MZ964489	—	—
<i>Philopterus</i> sp.	<i>Agelaius phoeniceus</i>	RWBB1	MZ964493	MZ964558	—
<i>Philopterus</i> sp.	<i>Spinus psaltria</i>	23710	MZ964494	—	—
<i>Philopterus</i> sp.	<i>Toxostoma longirostre</i>	18070	MZ964495	—	—
<i>Philopterus</i> sp.	<i>Geranoaetus albicaudatus</i>	23596	MZ964496	—	—
<i>Philopterus</i> sp.	<i>Passerina ciris</i>	23525	MZ964497	MZ964559	—
<i>Philopterus</i> sp.	<i>Piranga rubra</i>	23643	MZ964498	MZ964560	—
<i>Philopterus</i> sp.	<i>Icterus cucullatus</i>	23657	MZ964499	MZ964561	MZ964519
<i>Philopterus</i> sp.	<i>Mniotilta varia</i>	23677	MZ964500	MZ964562	MZ964520
<i>Philopterus</i> sp.	<i>Mimus polyglottos</i>	23918	MZ964469	MZ964545	MZ964515
<i>Philopterus</i> sp.	<i>Toxostoma longirostre</i>	23661	MZ964470	MZ964546	MZ964516
<i>Philopterus</i> sp.	<i>Cyanocorax yncas</i>	23663	MZ964427	MZ964563	MZ964517
<i>Picicola</i> sp.	<i>Melanerpes aurifrons</i>	23527	MZ964455	—	—
<i>Picicola</i> sp.	<i>Tyrannus forficatus</i>	23709	MZ964456	MZ964538	MZ964502
<i>Degeeriella</i> sp.	<i>Parabuteo unicinctus</i>	23595	MZ964457	MZ964537	MZ964501
