

Table S1. Collection information for birds in Manitoba, Canada (one bird from British Columbia, Canada) with nasal mites (Rhinonyssidae, Turbinoptidae, and Ereynetidae).

Host identifier	Host order	Host family	Host species	Host collection date	Locality	Collector information ¹	Mite species	Voucher number
WK 554	Accipitriformes	Accipitridae	<i>Buteo jamaicensis</i>	27.viii.2012	Manitoba; Oak Bluff	WHV, TDG, DRD	<i>Schoutedenocoptes</i> species 1	CNC535645
WK 623			<i>Buteo jamaicensis</i>	20.viii.2012	Manitoba; Winnipeg	PWRC, ENM	<i>Schoutedenocoptes</i> species 1	
WK 657			<i>Buteo jamaicensis</i>	26.ix.2013	Manitoba; Steinbach	WHV, TDG, ENM	<i>Schoutedenocoptes</i> species 1	
WK 658			<i>Buteo jamaicensis</i>	19.x.2013	Manitoba; Rosenfeld	WHV, TDG, ENM	<i>Schoutedenocoptes</i> species 1	
WK 542			<i>Buteo swainsoni</i>	17.viii.2012	Manitoba; Oakbank	WHV, TDG, LEP	<i>Schoutedenocoptes</i> species 1	
WK 543			<i>Buteo swainsoni</i>	17.vi.2012	Manitoba; Winnipeg	WHV, TDG, LEP	<i>Schoutedenocoptes</i> species 1	
WK 577			<i>Buteo swainsoni</i>	19.viii.2013	Manitoba; Winnipeg	PWRC, TDG, DH	<i>Schoutedenocoptes</i> species 1	
WK 232	Anseriformes	Anatidae	<i>Anas clypeata</i>	5.viii.2011	Manitoba; Winnipeg	WHV, AG	<i>Rhinonyssus rhinolethrum</i>	CNC535646
WK 164			<i>Anas discors</i>	12.viii.2005	Manitoba; Winnipeg	WHV, TDG, CD	<i>Rhinonyssus rhinolethrum</i>	
WK 591			<i>Aythya affinis</i>	6.vii.2013	Manitoba; Winnipeg	WHV, TDG, LEP	<i>Rhinonyssus rhinolethrum</i>	
WK 377			<i>Branta hutchinsii</i>	22.ix.2011	Manitoba; Dauphin	WHV, AG	<i>Rhinonyssus rhinolethrum</i>	
WK 538			<i>Bucephala albeola</i>	26.vii.2011	Manitoba; Winnipeg, Riverside	WHV, AG	<i>Rhinonyssus rhinolethrum</i>	
WK 273	Caprimulgiformes	Caprimulgidae	<i>Chordeiles minor</i>	4.ix.2010	Manitoba; Winnipeg	WHV, TDG, SMI	<i>Ptilonyssus</i> species 1	CNC535647
WK 517	Charadriiformes	Charadriidae	<i>Charadrius vociferus</i>	9.viii.2012	Manitoba	WHV, TDG, DRD	<i>Rhinonyssus strandtmanni</i>	
WK 679			<i>Charadrius vociferus</i>	24.vii.2015	Manitoba; Cook's Creek	PWRC, TDG	<i>Rhinonyssus strandtmanni</i>	CNC535648
WK 661			<i>Pluvialis dominica</i>	12.x.2014	Manitoba; Brunkild	WHV, TDG	<i>Rhinonyssus pluvialis</i>	CNC535649
WK 318	Charadriiformes	Laridae	<i>Larus delawarensis</i>	24.x.2009	Manitoba; Winnipeg	PWRC, TDG, CD	<i>Sternostoma boydi</i>	
WK 407			<i>Larus delawarensis</i>	2.ix.2009	Manitoba; Winnipeg	PWRC, ZDLR	<i>Sternostoma boydi</i>	CNC535650
WK 419			<i>Larus delawarensis</i>	9.v.2012	Manitoba; Winnipeg	WHV, TDG, SRR	<i>Turbinoptes strandtmanni</i>	CNC535651
WK 427			<i>Larus delawarensis</i>	8.v.2012	Manitoba; Winnipeg	WHV, TDG, DRD	<i>Turbinoptes strandtmanni</i>	
WK 456			<i>Larus delawarensis</i>	21.iv.2012	Manitoba; Winnipeg	WHV, TDG, SRR	<i>Turbinoptes strandtmanni</i>	
WK 583			<i>Larus delawarensis</i>	5.viii.2012	Manitoba; Lockport	WHV, TDG, LEP	<i>Turbinoptes strandtmanni</i>	
WK 578			<i>Leucophaeus pipixcan</i>	21.v.2013	Manitoba; Winnipeg	WHV, TDG, LEP	<i>Turbinoptes strandtmanni</i>	
WK 165			Falconiformes	Falconidae	<i>Falco sparverius</i>	12.vii.2007	Manitoba; Winnipeg	WHV, TDG, TMW
WK 587	<i>Falco sparverius</i>	19.vii.2013			Manitoba; Winnipeg	WHV, TDG, LEP	<i>Ptilonyssus cerchneis</i>	
WK 605	<i>Falco sparverius</i>	5.viii.2013			Manitoba; Winnipeg	PWRC, TDG	<i>Ptilonyssus cerchneis</i>	CNC535657
WK 665	<i>Falco sparverius</i>	26.vii.2014			Manitoba; Winnipeg	PWRC, TDG	<i>Ptilonyssus cerchneis</i>	
WK 656	Galliformes	Phasianidae	<i>Perdix perdix</i>	v-vi.2014	Manitoba	PWRC, TDG, ENM	<i>Sternostoma guevarai</i>	CNC535679
WK 580	Gruiformes	Rallidae	<i>Fulica americana</i>	29.vii.2013	Manitoba; Winnipeg	PWRC, TDG, LEP	<i>Neoboydaia lateralli</i>	CNC535652
WK 580			<i>Fulica americana</i>	29.vii.2013	Manitoba; Winnipeg	PWRC, TDG, LEP	<i>Rallinyssus caudistigmus</i>	CNC535671
WK 581			<i>Fulica americana</i>	29.iv.2013	Manitoba; Winnipeg	PWRC, TDG, LEP	<i>Rhinonyssus rhinolethrum</i>	
WK 376			<i>Porzana carolina</i>	24.viii.2010	Manitoba; Winnipeg	WHV, TDG, SMI	<i>Rallinyssus sorae</i>	CNC535672

WK 569			<i>Rallus limicola</i>	20.v.2013	Manitoba; Winnipeg	WHV, TDG, LEP	<i>Rallinyssus verheyeni</i>	CNC535673
WK 357	Passeriformes	Alaudidae	<i>Eremophila alpestris</i>	22.x.2011	Manitoba; Winnipeg	PWRC, TDG, PGS	<i>Sternostoma</i> species 1	CNC535681
WK 625			<i>Eremophila alpestris</i>	5.viii.2014	Manitoba; Winnipeg	PWRC, TDG, ENM	<i>Sternostoma</i> species 1	
WK 317	Passeriformes	Bombycillidae	<i>Bombycilla cedrorum</i>	9.iv.2011	Manitoba; Winnipeg	WHV, TDG, DH	<i>Ptilonyssus bombycillae</i>	CNC535654
WK 331			<i>Bombycilla cedrorum</i>	10.viii.2010	Manitoba; Winnipeg	PWRC, TDG, SMI	<i>Ptilonyssus bombycillae</i>	
WK 331			<i>Bombycilla cedrorum</i>	10.viii.2010	Manitoba; Winnipeg	PWRC, TDG, SMI	<i>Ptilonyssus icteridius</i>	
WK 154			<i>Bombycilla garrulus</i>	19.v.2005	Manitoba; Winnipeg	TDG, TMW	<i>Ptilonyssus bombycillae</i>	
WK 160			<i>Bombycilla garrulus</i>	19.v.2005	Manitoba; Winnipeg	TDG, TMW	<i>Ptilonyssus bombycillae</i>	
WK 156	Passeriformes	Emberizidae	<i>Junco hyemalis</i>	2007	Manitoba	TDG, TMW	<i>Ptilonyssus japuibensis</i>	
WK 493			<i>Melospiza georgiana</i>	14.ix.2010	Manitoba; Oak Hammock Marsh	TDG, DRD	<i>Ptilonyssus morofskyi</i>	CNC535662
WK 507			<i>Melospiza lincolni</i>	17.ix.2010	Manitoba; Oak Hammock Marsh	TDG, DRD	<i>Ptilonyssus morofskyi</i>	
WK 489			<i>Melospiza melodia</i>	3.vi.2011	Manitoba; Oak Hammock Marsh	TDG, DRD	<i>Ptilonyssus morofskyi</i>	
WK 157			<i>Passerculus sandwichensis</i>	17.v.2005	Manitoba; Oak Hammock Marsh	TDG, TMW	<i>Ptilonyssus calvaria</i>	CNC535655
WK 153			<i>Passerina cyanea</i>	19.vi.2007	Manitoba; Winnipeg	WHV	<i>Ptilonyssus ludovicianus</i>	
WK 159			<i>Plectrophenax nivalis</i>	24.xi.2006	Manitoba; High 678 Oak Hammock Marsh	TDG, TMW	<i>Ptilonyssus morofskyi</i>	
WK 286	Passeriformes	Fringillidae	<i>Carpodacus mexicanus</i>	4.viii.2010	Manitoba; Winnipeg	WHV, TDG, CB	<i>Ptilonyssus icteridius</i>	CNC535659
WK 589			<i>Carpodacus mexicanus</i>	3.vii.2013	Manitoba; Winnipeg	WHV, TDG, LEP	<i>Ptilonyssus</i> species 3	
WK 652			<i>Carpodacus mexicanus</i>	8.i.2014	Manitoba; Winnipeg	WHV, TDG, DRD	<i>Ptilonyssus</i> species 3	CNC535664
WK 546			<i>Loxia curvirostra</i>	29.x.2012	Manitoba; Winnipeg	PWRC, TDG, DH	<i>Ptilonyssus morofskyi</i>	
WK 546			<i>Loxia curvirostra</i>	29.x.2012	Manitoba; Winnipeg	PWRC, TDG, DH	<i>Sternostoma loxiae</i>	CNC535680
WK 565			<i>Loxia leucoptera</i>	26.xi.2012	Manitoba; Winnipeg	WHV, TDG, LEP	<i>Ptilonyssus carduelis</i>	CNC535656
WK 565			<i>Loxia leucoptera</i>	26.xi.2012	Manitoba; Winnipeg	WHV, TDG, LEP	<i>Sternostoma cryptorhynchum</i>	CNC535678
WK 420			<i>Spinus pinus</i>	15.v.2009	Manitoba; Beausejour	MCV, TDG, DRD	<i>Ptilonyssus</i> species 2	CNC535663
WK161.2			<i>Spinus pinus</i>	2.vi.2009	Manitoba; Winnipeg	WHV, TDG, SMI	<i>Ptilonyssus</i> species 2	
WK 694			<i>Spinus tristis</i>	7.viii.2015	Manitoba; Winnipeg	PWRC, TDG	<i>Ptilonyssus spini</i>	CNC535666
WK 675	Passeriformes	Hirundinidae	<i>Riparia riparia</i>	15.viii.2014	Manitoba; Ste. Anne	PWRC, TDG, ENM	<i>Sternostoma tracheacolum</i>	CNC535684
WK 264	Passeriformes	Icteridae	<i>Euphagus carolinus</i>	26.xi.2010	Manitoba; Winnipeg	WHV, TDG, DH	<i>Ptilonyssus icteridius</i>	
WK 158			<i>Quiscalus quiscula</i>	15.ix.2006	Manitoba; Oak Hammock Marsh	TDG, TMW	<i>Ptilonyssus japuibensis</i>	CNC535660
WK 375			<i>Sturnella neglecta</i>	12.ix.2011	Manitoba; Dugald	PWRC, TDG, DH	<i>Ptilonyssus icteridius</i>	
WK 649	Passeriformes	Mimidae	<i>Dumetella carolinensis</i>	20.v.2014	Manitoba; Winnipeg	TDG, ENM	<i>Ptilonyssus euroturdi</i>	CNC535658
WK 230			<i>Toxostoma rufum</i>	15.ix.2010	Manitoba; Winnipeg	PVH, TDG, DH	<i>Ptilonyssus toxostomae</i>	CNC535668
WK 600			<i>Toxostoma rufum</i>	6.v.2014	Manitoba; Winnipeg	TDG, ENM	<i>Ptilonyssus toxostomae</i>	
WK 514	Passeriformes	Parulidae	<i>Geothlypis philadelphia</i>	3.vi.2011	Manitoba; Oak Hammock Marsh	TDG, DRD	<i>Ptilonyssus sairae</i>	
WK 582			<i>Mniotilta varia</i>	25.ix.2013	Manitoba; Winnipeg	WHV, TDG	<i>Ptilonyssus sairae</i>	CNC535665
WK 161			<i>Oreothlypis peregrina</i>	2006	Manitoba; Oak Hammock Marsh	TDG, TMW	<i>Ptilonyssus sairae</i>	
WK 162			<i>Oreothlypis peregrina</i>	11.viii.2006	Manitoba	TDG, TMW	<i>Ptilonyssus sairae</i>	

WK 673			<i>Oreothlypis ruficapilla</i>	7.x.2014	Manitoba; Winnipeg	PWRC, TDG	<i>Ptilonyssus sairae</i>	
WK 155			<i>Seiurus noveboracensis</i>	15.v.2004	Manitoba; Oak Hammock Marsh	TDG, TMW	<i>Ptilonyssus ludovicianus</i>	
WK 617			<i>Setophaga fusca</i>	27.viii.2013	Manitoba; Winnipeg	WHV, TDG, ENM	<i>Ptilonyssus ludovicianus</i>	CNC535661
WK 167			<i>Setophaga pensylvanica</i>	17.ix.2009	Manitoba; Winnipeg	WHV, TDG, LEP	<i>Ptilonyssus sairae</i>	
WK 684			<i>Vermivora chrysoptera</i>	25.viii.2015	Manitoba; Winnipeg	PWRC, TDG	<i>Ptilonyssus sairae</i>	
WK 270	Passeriformes	Regulidae	<i>Regulus calendula</i>	9.v.2010	Manitoba; Winnipeg	WHV, TDG, CB	<i>Ptilonyssusacrocephali</i>	CNC535653
WK 405	Passeriformes	Turdidae	<i>Catharus minimus</i>	24.v.2011	Manitoba; Winnipeg	WHV, ZDLR	<i>Sternostoma spatulatum</i>	CNC535683
WK 483			<i>Catharus ustulatus</i>	21.ix.2010	Manitoba; Oak Hammock Marsh	TDG, DRD	<i>Ptilonyssus icteridius</i>	
WK 626			<i>Catharus ustulatus</i>	22.v.2014	Manitoba; Winnipeg	WHV, TDG, ENM	<i>Sternostoma spatulatum</i>	
WK 152			<i>Ixoreus naevius</i>	2007	British Columbia; Vancouver	RKN, TDG, TMW	<i>Tinaminyssus ixoreus</i>	CNC535685
WK 590			<i>Turdus migratorius</i>	20.vii.2013	Manitoba; Winnipeg	WHV, TDG, LEP	<i>Ptilonyssus cerchneis</i>	
WK 178	Passeriformes	Tyrannidae	<i>Empidonax flaviventris</i>	5.vi.2009	Manitoba; Winnipeg	WHV, TDG, JAM	<i>Ptilonyssus tyrannus</i>	CNC535669
WK 259			<i>Empidonax minimus</i>	1.vi.2011	Manitoba	WHV, TDG, ZDLR	<i>Ptilonyssus tyrannus</i>	
WK 257			<i>Tyrannus tyrannus</i>	vi.2011	Manitoba	TDG, ZDLR	<i>Ptilonyssus spinosus</i>	CNC535667
WK 677	Passeriformes	Vireonidae	<i>Vireo olivaceus</i>	16.viii.2014	Manitoba; Winnipeg	PWRC, TDG	<i>Ptilonyssus vireonis</i>	CNC535670
WK 163			<i>Vireo solitarius</i>	1.ix.2008	Manitoba; Winnipeg	TDG, DH	<i>Ptilonyssus vireonis</i>	
WK 688	Piciformes	Picidae	<i>Picoides pubescens</i>	1.viii.2015	Manitoba; Winnipeg	WHV, TDG	<i>Sternostoma porteri</i>	CNC535682
WK 382			<i>Picoides villosus</i>	22.v.2011	Manitoba; Winnipeg	WHV, TDG, ZDLR	<i>Sternostoma porteri</i>	
WK 559			<i>Sphyrapicus varius</i>	4.v.2013	Manitoba; Winnipeg	WHV, TDG, LEP	<i>Sternostoma porteri</i>	
WK 168	Podicipediformes	Podicipedidae	<i>Podiceps nigricollis</i>	18.xi.2008	Manitoba; Starbuck	WHV, TDG, DH	<i>Rhinoeyssus colymbicola</i>	CNC535677
WK 549	Strigiformes	Strigidae	<i>Aegolius funereus</i>	4.iii.2013	Manitoba; 3 miles west of MacGregor	WHV, TDG, DH	<i>Rhinoecius aegolii</i>	
WK 556			<i>Aegolius funereus</i>	2.i.2013	Manitoba; Winnipeg	WHV, TDG, DH	<i>Rhinoecius aegolii</i>	
WK 614			<i>Aegolius funereus</i>	11.iv.2014	Manitoba; Pine Falls	WHV, TDG, ENM	<i>Rhinoecius aegolii</i>	CNC535674
WK 229			<i>Asio otus</i>	4.x.2008	Manitoba; Hazelridge	WHV, TDG, JAM	<i>Rhinoecius brikinboricus</i>	CNC535675
WK 347			<i>Asio otus</i>	9.ix.2010	Manitoba; Winnipeg	MCV, TDG, SMI	<i>Rhinoecius brikinboricus</i>	
WK 67.2			<i>Asio otus</i>	22.viii.2006	Manitoba; Clearwater Lake	WHV, TDG, DH	<i>Rhinoecius brikinboricus</i>	
WK 647			<i>Strix nebulosa</i>	27.i.2014	Manitoba	PWRC, ENM	<i>Rhinoecius cooremani</i>	CNC535676
WK 431			<i>Surnia ulula</i>	14.iv.2012	Manitoba; South Junction	WHV, TDG, DRD	<i>Rhinoecius aegolii</i>	

¹AG - Andrew Galloway, CB - Cherilynne Babel, CD - Chérie Dugal, DH - Dave Holder, DRD - Diana R. Dunlop, ENM - Erin Natalie McNally, JAM - Jennifer A. McLeod, LEP - Leanne Elizabeth Peixoto, MCV - Manitoba Conservation, PGS - Phil G. Snarr, PVH - Pembina Veterinary Hospital, PWRC - Prairie Wildlife Rehabilitation Centre, RKN - R. Kenner, SMI - Solomon M. Iasu, SRR - Samantha R. Repa, TDG - Terry D. Galloway, TMW - Todd Magnus Wicklow, WHV - Wildlife Haven, ZDLR - Zoe D.L. Rempel.