

Janay Martinez

From: Donald, David [Reg] <David.Donald@EC.GC.CA>
Sent: Friday, March 21, 2014 10:07 AM
To: Ramlal, Patricia
Subject: FW: Parasite list
Attachments: RRDevils Lake 20111.xls

From: Terry Dick [<mailto:terrydick09@gmail.com>]
Sent: March 30, 2011 8:16 AM
To: Donald, David [Reg]
Subject: Parasite list

Hi:

Please find attached the species lists re: USA and Canada. If there is a Red River list I can add but I would not expect many additional species, if any, since rivers always have fewer parasites than small shallow lakes.

Terry

	USA			CANADA	
LOCATION	FISH SPECIES	PARASITES SPECIES	LOCATION	FISH SPECIES	PARASITE SPECIES
Devils Lake DL	Walleye		Red River Delta (RRD)	Walleye	Caprinia sp.
		Epistylis sp.			Sanguinicola occidentalis
		Apiosoma sp.			Bunoderina sacculata
		Trichodina sp			Bothriocephalus cuspidatus
		Bothriocephalus cuspidatus			Bothriocephalus acheilognathi
		Bothriocephalus sp.			Proteocephalus pinguis
		Contracaecum sp.			Proteocephalus pearsi
					Camallanus oxycephalus
L Ashtabula (LA)		Diplostomum spathaceum			Ergasilis luciopercarum
		Prohemistomulum sp.			
		Bothriocephalus cuspidatus			
		Contracaecum sp.			
Lake Traverse (LT)		Capriniana piscium			
		Trichodina sp.			
		Bothriocephalus cuspidatus			
		Contracaecum sp			
		Rhabdchona sp.			
	Northern Pike			Northern Pike	
DL		Bothriocephalus sp.	RRD		Myxosporea
		Proteocephalus pinguis			Caprinia sp.
					Trichodina sp.
					Tetraonchus monenteron
LA		Posthodiplostomum minimum			Bothriocephalus cuspidatus
		Bothriocephalus cuspidatus			Bothriocephalus acheilognathi
		Bothriocephalus sp.			Bothriocephalus sp. (immature)
		Contracaecum sp.			Proteocephalus pinguis
					Proteocephalus pearsi
					Triaenophorus nodulosus
					Spiruridae (immature)
					Raphidascaris acus

[illegible]

TL		Apiosoma sp.			
		Ambiphyra sp.			
		Trichodina sp.			
		Bothriocephalus sp.			
		Proteocephalus sp.			
		Camallanus oxycephalus			
		Contracecum sp.			
		Rhabdochona sp.			
		Spinitectus carolini			
		Spinitectus gracilis			
		Neoechinorhynchus sp.			
		Polymorphidae cystacanth			
	Yellow perch		RRD	Yellow perch	
DL		Epistylis sp.			Caprinia sp.
		Trichodina sp.			Trichodina sp.
		Bothriocephalus sp.			Myxosporea
		Gryporynchidae			Urocleidis sp.
		Ligula intestinalis			Bothriocephalus cuspidatus
		Rhabdochona sp.			Bothriocephalus claviceps
		Rapidascaris acus			Bothriocephalus sp. (immature)
		Gyrodactylus sp.			Proteocephalus pearsi
		Myzobdella lugubris			Proteocephalus pinguis.
					Proteocephalus sp. (immature)
					Ligula intestinalis
LA		Trichodina sp.			
		Crepidostomum cornutum			
TL		Apiosoma Sp.			
		Trichodina sp.			
		Bothriocephalus sp.			
		Proteocephalus sp.			
		Camallanus sp.			
		Contracaecum sp.			
		Spinitectus carolini			
		Spinitectus gracilis			

	Goldeye	no examined		Goldeye	
			RRD		Trichodina sp.
					Paurorhynchus hiodontis
					Crepidostomum illinoiense
					Bothriocephalus acheilognathi
					Bothriocephalus cuspidatus
					Camallanus oxycephallus
					Spinitectus carolini
	Fathead minnows			Fathead minnows	Myxosporea
DL		Myxobolus sp.	RRD		Trichodina sp.
		Unicauda sp.			Gyrodactylus hoffmani
		Gyrodactylus hoffmani			Ornithodiplostomum ptychocleilus
		Neascus sp.			Diplostomulum of Bolbophorus confusus
		Diplostomum sp.			Cryptogonimus sp. ?
		Bothriocephalus sp.			Centrovarium sp. metacercaria
		Proteocephalus sp. (immature)			Diplostomulum sp. metacercaria
		Ligula intestinalis			Bothriocephalus acheilognathi
		Diplostomum spathaceum			Proteocephalus sp. (immature)
		Raphidascaris sp			Contracaecum sp.
					Raphidascaris acus
LA		Hysteromorpha triloba			
		Neascus sp.			
		Neascus of Posthodiplostomum sp.			
LT		Apiosoma sp.			
		Trichodina sp.			
		Myxobolus sp.			
		Unicauda sp.			
		Gyrodactylus sp.			
		Neascus sp.			
		Neascus of Ornithodiplostomum			
		ptychocleilus			
		Ergasilis cyprinaceus			

	Emerald shiner			Emerald shiner	
LT		Myobolus sp.	RRD		Myxosporean cysts
					Myxobolus sp.
					Coccidia
					Diplostomum sp. metacercaria
					Bothriocephalus acheilognathi
					Bothriocephalus cuspidatus
					Rhabdochona sp.
	Brook stickleback	Not examined		Brook stickleback	
			RRD		Myxosporean
					Trichodina sp.
					Raphidascaris acus
					Contracaecum sp.
	Channel catfish			Channel catfish	Myxosporeans
LT		Henneguya sp.	RRD		Ichthyophthirius sp
		Trichodina sp.			Monogenean trematode?
		Myxidium sp.			
		Megalogonia ictaluri			
		Corallobothrium sp.			
		Camallanus sp.			
		Contracaecum sp.			
		Rhabdochona sp.			
		Polymorphidae cystacanth			
		Pomphorhynchus bulbicollis			

	Black crappie				not examined
DL		Trichodina sp.			
		Neascus of Posthodiplostomum			
		Bothriocephalus sp.			
		Contracaecum sp.			
		Diplostomum spathaceum			
LA		Apiosoma sp.			
		Trichodina sp.			
		Proteocephalus sp.			
		Camallanus sp.			
LT		Trichodina sp.			
		Chloromyxum sp.			
		Proteocephalus sp.			
		Camallanus oxycephalus			
		Contracaecum sp.			
		Rhabdochona sp.			
		Spinitectus gracilis			
	White sucker			White sucker	not examined
DL		zero			
LA		Clinostomum marginatus			
		Biacetabulum sp.			
		Rhabdochona sp.			
		Rhapidascaris sp.			
		Spiroxys sp.			
		Pomphorhynchus bulbicolli			
LT		Myxidium sp.			
		Hunterella nodulosa			
		Rhapidascaris sp.			
		Pomphorhynchus bulbicolli			

	Blacknose dace				not examined
LA		Epistylis sp.			
		Trichodina sp.			
		Myxobolus sp.			
		Gyrodactylus sp.			
		Contracaecum sp.			
		Pomphorhynchus bulbicollis			
		P. bulbicollis cystacanth			
	Bluegill				not examined
LA		Trichodina sp.			
		Posthodiplostomum minimum			
		Contracaecum sp.			
LT		Trichodina sp.			
		Glugea sp.			
		Chloromyxum sp.			
		Neascus sp.			
		Neascus of Posthodiplostomum			
		Neascus of Posthodiplostomum			
		minimum centrarchi			
		Gyrodactylidae			
		Spinitectus gracilis			
		Contracaecum sp.			
		Polymorphidae cystacanth			
		P. bulbicollis cystacanth			
		Myxobolus cyprinaceus			

	Black bullhead				not examined
LA		Onchocleidus sp.			
		Hysteromorpha tribola			
		Corallobothrium sp.			
		Contracaecum sp.			
		Pomphorhynchus bulbicolli			
		Myzobdella lugubris			
		Actheres pimelodi			
LT		Myxidium sp.			not examined
		Corallobothrium fimbriatum			
		Paradilepis sp.			
		Raphidascriis sp.			
		Rhabdochona sp.			
		P. bulbicolla sp.			
		Myzobella cyprinaceus			
	Yellow bullhead				not examined
LT		Myxidium sp.			
		Pomphorhynchus bulbicolli			
		Spinitectus sp.			
		Contracaecum sp			
	Smallmouth bass				
LA		Apiosoma sp.			not examined
		Trichodina			
		Contracaecum sp.			
		Camallunus sp.			
		Neoechinorhynchus sp.			

	Spottail shiner				
LA		Epistylis sp.			not examined
		Trichodina sp.			
		Myxobolus sp.			
		Neascus sp.			
		Proteocephalus sp.			
		Contracaecum sp.			
	Tadpole madtom				not examined
LA		Heterosporis sp.			
		Alloglossidium corti			
		Corallobothrium sp.			
		Pomphorhynchus bulbicolli			
	Trout perch				
LA		Epistylis sp.			not examined
		Trichodina sp.			
		Myxobolus sp.			
		Tylodelphys scheuringi			
	Bigmouth buffalo				not examined
LT		Myxidium sp.			
		Myxobolus sp.			
		Gyrorhynchidae			
		Raphidascaris sp.			
	Common carp				not examined
LT		Khawia iowensis			
		Rhabdochona sp.			
		Contracaecum sp.			
		Pomphorhynchus bulbicolli			
		P. bulbicolli cystacanth			

	Freshwater drum				not examined
LT		Trichodina sp.			
		Myxidium sp.			
		Microcotyle spinicirrus			
		Camallanus sp.			
		Contracaecum sp.			
		Rhabdochona sp.			
		Polymorphidae cystacanth			
		Pomphorhynchus bulbicollis			
	Orange spotted sunfish				not examined
LT		Trichodina sp.			
		Neascus of Ornithodiplostomum			
		Bothriocephalus sp.			
		Valipora sp.			
		Rhabdochona sp.			
		Pomphorhynchus bulbicollis			
		P. bulbicollis cystacanth			
	Rock bass				not examined
LT		Trichodina sp.			
		Unidentified monogenean			
		Clinostomum marginatum			
		Neascus sp.			
		Proteocephalus sp.			
		Camallanus sp.			
		Contracaecum sp.			
		Hysterothylacium brachyurum			
		Raphidascaris sp.			
		Rhabdochona sp.			
		Spinitectus sp.			
		Spiroxys sp.			
	Shorthead redhorse				not examined
LT		Pomphorhynchus bulbicollis cystacanth			

[illegible]

Devils Lake Parasites

Epistylis

Apiosoma

Trichodina

Bothriocephalus cuspidatus

Bothriocephalus sp.

Contracaecum

Protecephalus pinguis

Protecephalus sp.

Spiroxys sp

Onchocleidus chrysops

Gryporynchidae

Ligula intestinalis

Rhabdochona sp

Rapidascaris acus

Gyrodactylus sp.

Myzobdella lugubris

Myxobolus sp.

Unicauda sp

Gyrodactylus hoffmani

Neascus

Diplostomum sp.

Diplostomum spathaceum

Raphidascaris sp.

Posthodiplostomum (Neascus)

24 species