Great Lakes Worm Watch

Key to exotic earthworm species common in the Great Lakes region

This dichotomous key will lead you step by step to the identification of your earthworm. Begin at

To identify an earthworm to species you generally need and adult specimen (with a clitellum) and

	The	The earthworm is a juvenile (lacks a clitellum)								
1	GO '	O TO 2								
	The	earthworm is an adult (has a clitellum)								
	GO .	TO 7								
		The	The earthworm is pigmented							
	_		GO TO 3							
	2		The earthworm is non-pigmented							
			O TO 6							
				earth	worm has paired setae					
			GO 1		Well lide paired secue					
					worm has separate setae					
		3			aena octaedra					
				The earthworms setae are a row of bristles around each						
				Amynthus species						
			Alliy							
				The earthworm has widely paired setae						
			4	Dendrodrilus rubidus						
					earthworm has closely paired setae					
				GU	The fresh specimen has distinctive valley handing in the intersegmental					
					The fresh specimen has distinctive yellow banding in the intersegmental					
					grooves					
					Eisenia fetida					
					There is no yellow coloring in the intersegmental groves on fresh specimens					
				5	Lumbricus rubellus or Lumbricus terrestris or Eisenia eiseni or					
					Eiseniella tetraedra or Aporrectodea longa (Note: it is impossible					
					to distinguish these species when they are juveniles. Depending on					
					which of these species you have found as adults, you may be able to					
			T-1		make reasonable conclusions about the identity of the juveniles.)					
					worm has closely paired setae					
			-		rodea species or Allolobophora chlorotica (Note: if the fresh					
				specimen has a distinctive greenish color, you could conclude that it is						
		6		Allolobophora chlorotica)						
		6 The earthworm has widely paired setae								
		Octolasion tyrtaeum or Octolasion cyaneum The earthworms setae are a row of bristles around each								
					שטוווט סכנמכ מוכ מ וטש טו טווסנוכס מוטעווע כמכוו					
			segment Amynthus species							
		The			n is pigmented					
			TO 8	******	i lo pignicitoù					
	7			worm	n is non-pigmented					
			TO 1!							
					worm has paired setae					
				ГО 9						
The earthworm has separate setae					worm has separate setae					
		8 Dendrobaena octaedra								
					worms setae are a row of bristles around each					
			segment							
					is species					
					earthworm has widely paired setae					
		9 Dendrodrilus rubidus The earthworm has closely paired setae								
		GO TO 10								

		clitellum start before segment 25			
10		ТО 11			
The clitellum start after segment 25					
	GO .	TO 12			
		Male pore is on segment 13			
		Eiseniella tetraedra (Note: For this species, the clitellum starts			
		on segment 23 (or 22) and extends to segment 26 (or 27). It also			
	11	has a broad TP)			
		Male pore not on segment 13			
		Eisenia eiseni (Note: For this species, the clitellum starts on			
		segment 24 (or 23) and extends to segment 32. It has no TP)			
		l cogment a r (or asy and ortones to segment sar is mad no my			
		The clitellum starts on segment 32, or definitely after segment 30			
	12	Lumbricus terrestris			
		The clitellum starts before segment 30			
		GO TO 13			
		The clitellum starts on segments 26 or 27 and obvious yellow color			
		in the intersegmental grooves is not present.			
		GO TO 14			
	13	The clitellum starts on segments 24, 25 or 26 and obvious yellow			
		color in the intersegmental grooves is present.			
		Eisenia fetida			
		The clitellum is on segments 27 (or 26) through 32 and if GT are			
		present, they are not limited to segments 31,33 and 34.			
		Lumbricus rubellus			
	14	The clitellum is on segments 27 through 34 and if GT are present,			
	14				
		they limited to segments 31,33 and 34. Earthworms is lightly-			
		brown pigmented on head, between 15cm in length			
The earth	worm	Aporrectodea longa n has widely paired setae			
60 TO 1		i ilas widely palled setae			
		n has closely paired setae			
GO TO 1		Thas closely parred setae			
		um is on segments 30-35 (may be orangish in color) with long			
		near) TP on segments 31-34			
	_	on tyrtaeum			
		um is on segments 29-34 (usually beige or yellowish in color) with			
		n segments 30-33 that have a puckered appearance on the ventral			
	ly) ed				
•		=			
		on cyaneum worms setae are a row of bristles around each			
	nent				
		is species			
		um starts on segments 27 or later			
	TO 18				
		um is on segments 25-32 and maybe noticeable flared. The TP, if			
		s small and continuous on segments 29-31. Earthworm is <8cm in			
leng		siliali aliu continuous on segments 25-51. Larthworm is Notin in			
_		radaz racaz (Nota: this species is also referred to as Allalahanhara			
rose	orrectodea rosea (Note: this species is also referred to as Allolobophora				
		um is on segments 27-34			
	TO 19				
		um is on segments 29-37 and the TP are separate and button-like			
		es sucker-like) on segments 31, 33, 35. Earthworm is <7cm in			
		co sucher like, on segments 31, 33, 33. Lattiworin is			
liono					
leng		nhora chlorotica (Note: Fresh specimens often have a distinctive			
Allo		phora chlorotica (Note: Fresh specimens often have a distinctive			

19	The TP is distinctly notched or, when not fully developed, may appear as two triangles or circular bumps side by side GO TO 20 (Note: if identification cannot proceed beyond this step, the earthworm should be identified as Aporrectodea caliginosa complex) The TP is linear or oval, but not notched GO TO 21					
20	The GT are on alternating segments in clitellum (30,32,34) Aporrectodea tuberculata The GT are on both alternative and consecutive segments in clitellum (27,30, 32-34) Aporrectodea caliginosa					
21	The GT are on alternative and consecutive segments (28,30,32-34) and earthworm has no pigmentation Aporrectodea trapezoides The GT are on consecutive on segments (31, 33, 34) and earthworm has light brown pigmentation on the head Aporrectodea longa					