



Joint management of Latvian – Lithuanian transboundary river and lake water bodies (TRANSWAT)

Results of fish data collection and analysis

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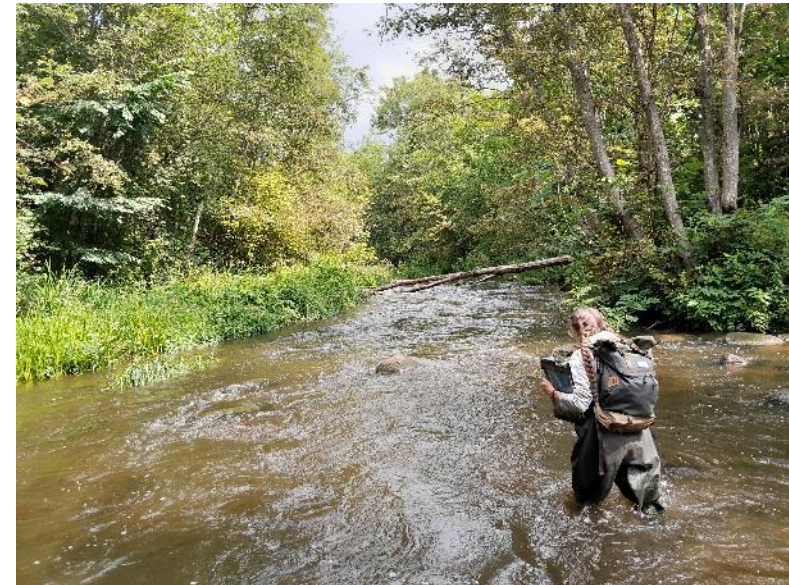
Fieldworks

Fish fauna (both countries):

- electrofishing
- Lithuania – August 2021
- Latvia – July 2021 and July 2022 (Ciecere only)

Mapping of fish habitats (Latvia only):

- July 2022
- RHS, THS and riffles
- potential salmonid spawning sites



Lithuania

5 sites (downstream each HPP)

19 fish species

Migratory species present
(including salmon!)

8–15 fish species in one site



	Kulšėnai HPP	Renavas HPP	Vadagiai HPP	Ukrinai HPP	Juodeikiai HPP
Spined loach					0.2
Bitterling	0.1		0.3		0.3
Bullhead	1.0		0.4	0.9	0.2
Salmon					0.05
Spirlin	5.1		0.6		0.2
Trout					0.2
Vimba					0.3
Burbot				0.03	
Chub	0.4	0.1	0.05	0.03	1.8
Dace		0.3	0.4		0.05
Minnow	8.6		7.7		1.5
Stone loach	0.4	0.2	1.8	0.03	1.4
Gudgeon	9.0	7.1	4.3	2.4	2.9
Pike			0.0		0.1
Ruff		0.1			
Bleak	4.4	16.7	11.7	0.03	
Perch		0.3		4.5	0.6
Roach	0.7	25.2	3.0	0.4	1.8
Tench	0.03	0.03			
LFI VALUE	0.70	0.24	0.59	0.54	0.75
QUALITY	Moderate	Bad	Moderate	Moderate	Good

For modelling:

Salmon

Trout

Vimba

Spirlin

Bullhead



Losis – fish fauna

Two sites (one site downstream
each HPP)

15 fish species

6 and 15 fish species in one site

No migratory species



For modelling:

Chub

Dace

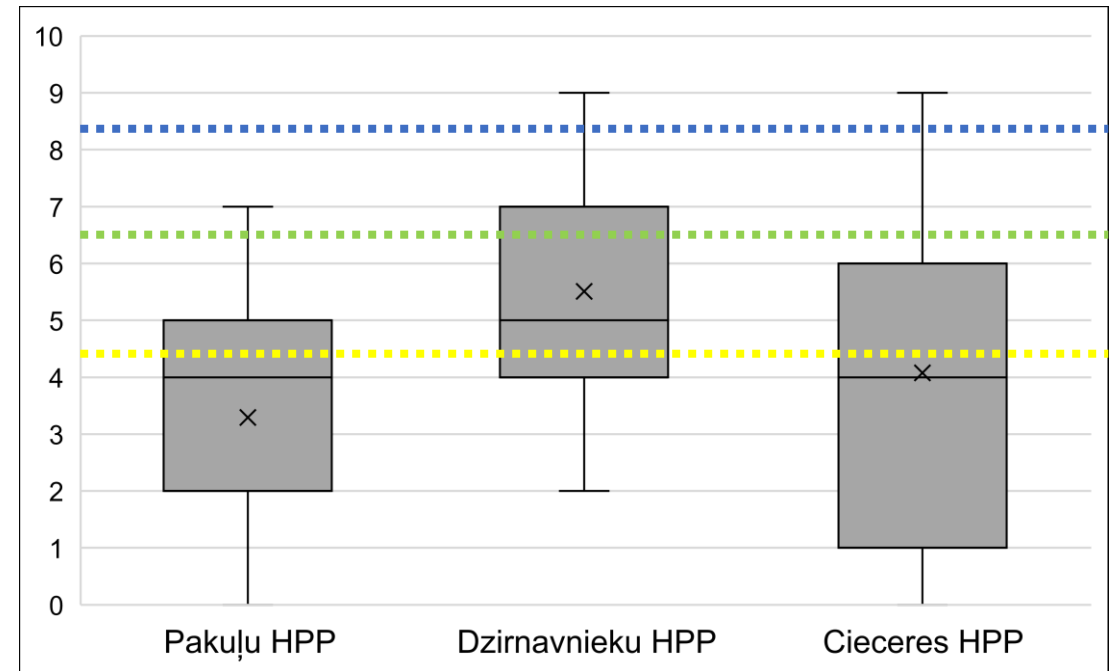
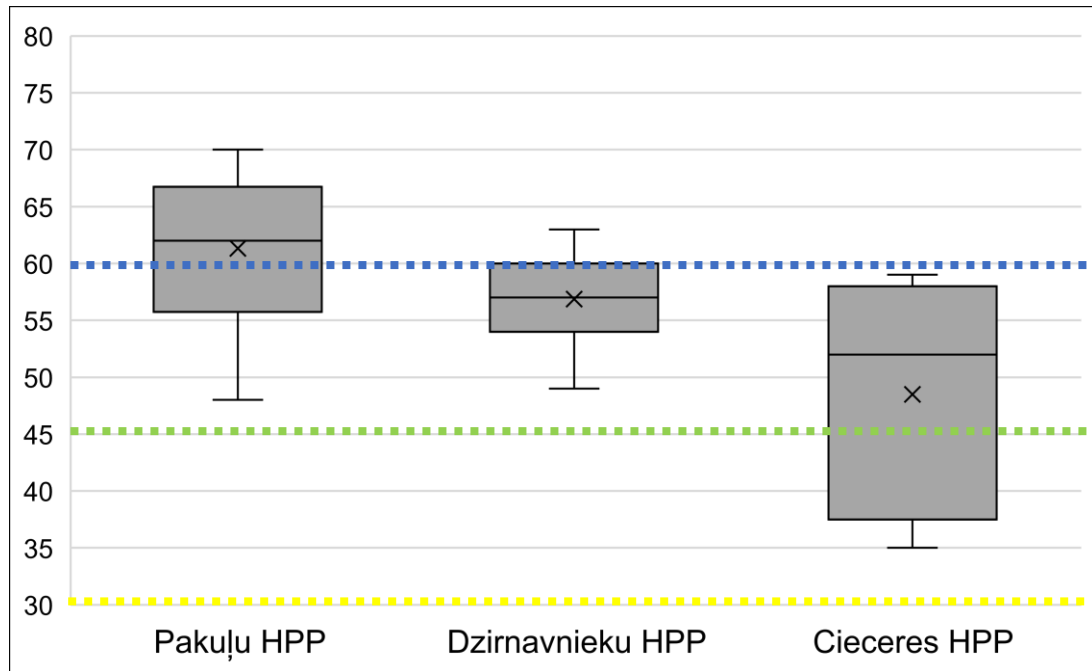
Trout

Spined loach

Bullhead

	Lejnieku HPP	Grantiņu HPP
Bullhead	0.5	3.8
Stone loach	51.1	1.5
Gudgeon	2.2	0.8
Minnow	29.3	
Chub	2.7	3.8
Bitterling	8.7	
Spined loach	41.8	
Stickleback (3sp)	1.6	
Eel	0.5	
Pearch	9.2	0.8
Pike	0.5	
Bleak	1.1	
Tench	0.5	
Sunbleak	3.3	
Roach	6.5	3.0
LFI VALUE	0.29	0.19
QUALITY CLASS	Bad	Bad

Ciecere RHS & THS



Ciecere – fish fauna

Six sites (two sites downstream each HPP)

Sites located in reaches suitable for intolerant species

6 and 15 fish species in one site

No migratory species



	Pakuļu 1	Pakuļu 2	Dzirnavnieku 1	Dzirnavnieku 2	Cieceres 1	Cieceres 2
Trout	0.4					
Spirlin			0.4			
Bullhead	3.2	1.6			3.2	4.3
Stone loach	12.3		1.6	0.4		0.4
Gudgeon	2.8	5.6	4.0	14.6	0.8	0.8
Minnow	15.4					
Dace			0.8	0.4		
Chub		2.0			0.4	
Bitterling	0.8	0.4	1.2			
Spined loach	0.8	0.8		0.4		0.4
Pearch					2.4	5.1
Tench			4.0			
Roach		3.2	8.3	10.3	6.3	14.8
LFI VALUE	0.29	0.14	0.22	0.17	0.14	0.14
QUALITY CLASS	Bad	Bad	Bad	Bad	Bad	Bad

For modelling:

Trout

Dace

Chub

Spirlin

Bullhead

Spined loach



Thank you!

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