



REPUBLIC OF SERBIA

Ministry of Agriculture, Forestry and Water management
Veterinary Directorate

Aquaculture in the Republic Serbia

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**TAPAS, Workshop on identified bottlenecks in aquaculture governance and
licensing and possible solution**

5-6 March 2019

Olsztyn, Poland

Aquaculture in Serbia

1860 – first of “Fish farm” (Irig, Vojvodina)

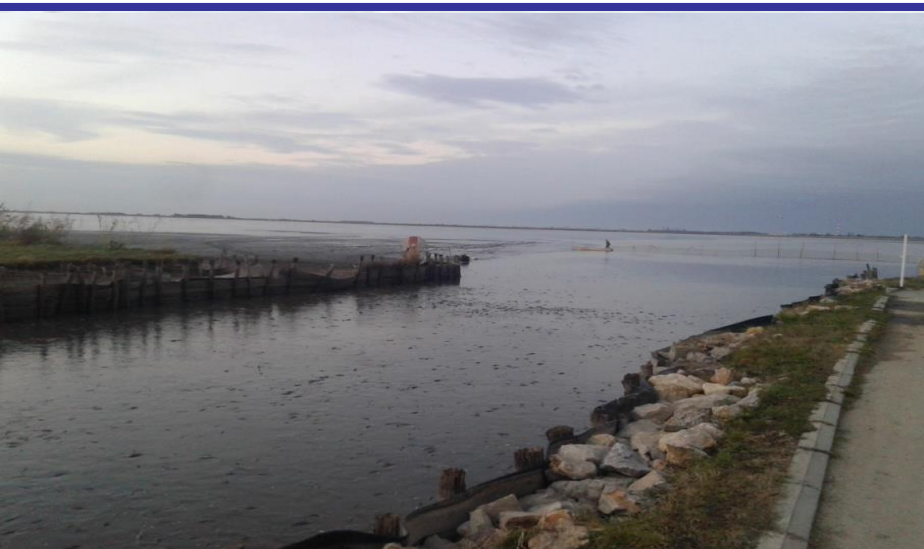
1894 – oldest and biggest fish farm Ečka was established

95% of fish farms were State owned till 2003

2003 – privatization of fish farms, more than 80% already
privatized

- Small segment of Serbian economy (1% of agricultural production)
- Most of carp fish farms is located in the Northern part of Serbia – in Vojvodina; and trout fish farm in the Southern part of Serbia
- Main species: carp, trout.

EČKA FARM, ZRENJANIN CARP FARM



Water resources of Serbia

Dunav (Danube)

Sava

Tisa

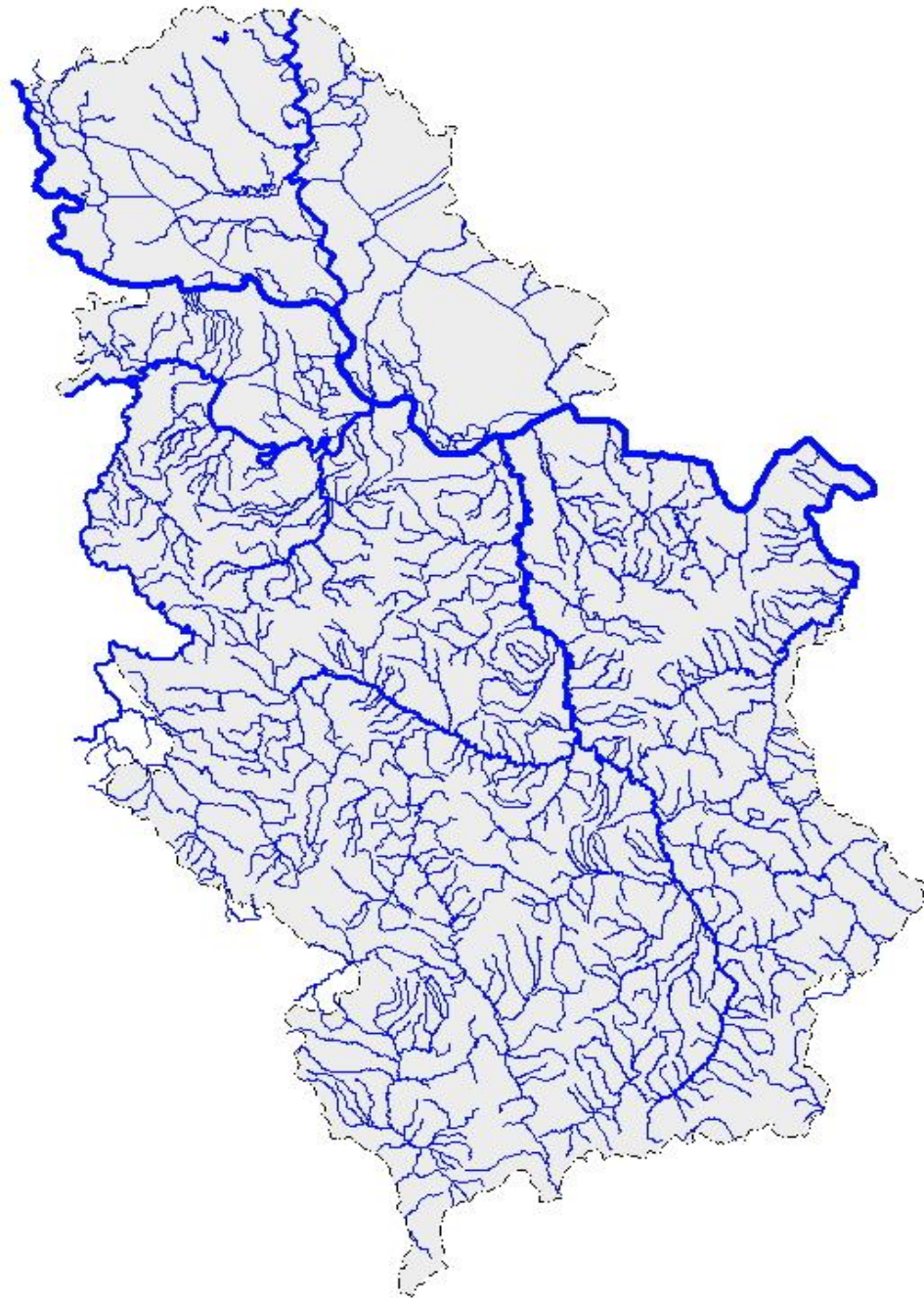
Morava (Velika, Zapadna, Južna)

Drina

Kolubara

Timok

Channel system DTD



PONDS IN SERBIA (140)



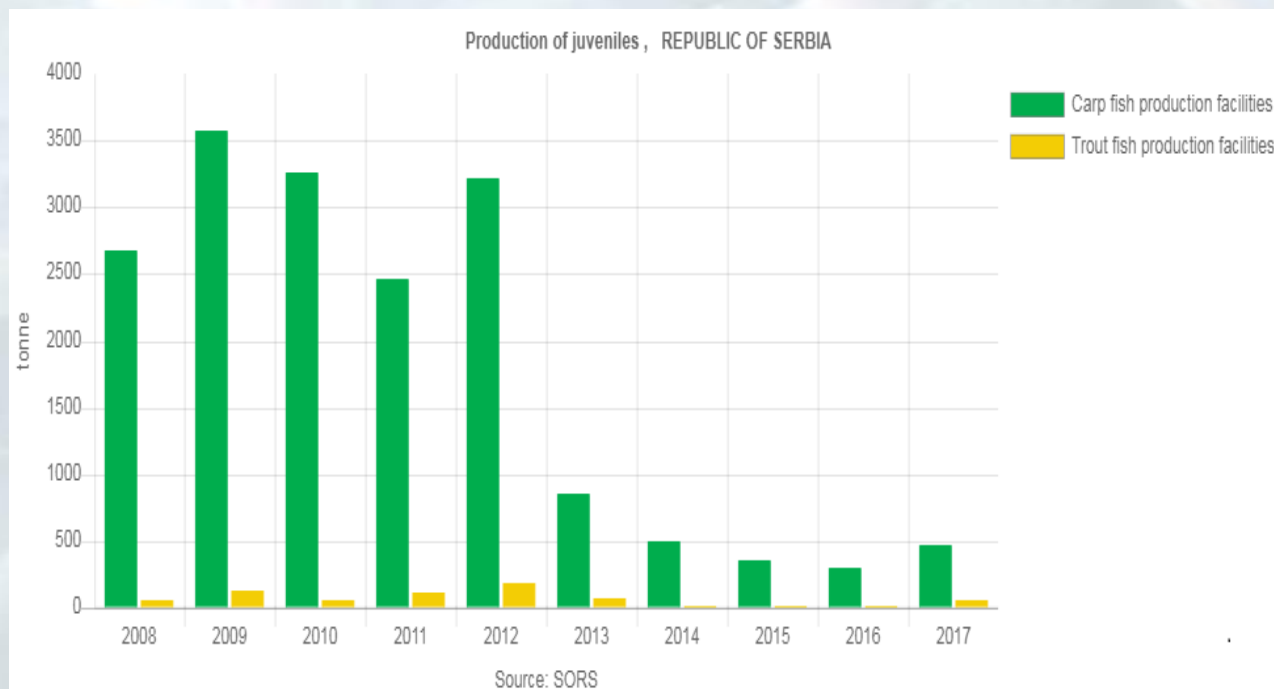
CARP PONDS (76)



TROUT PONDS (64)

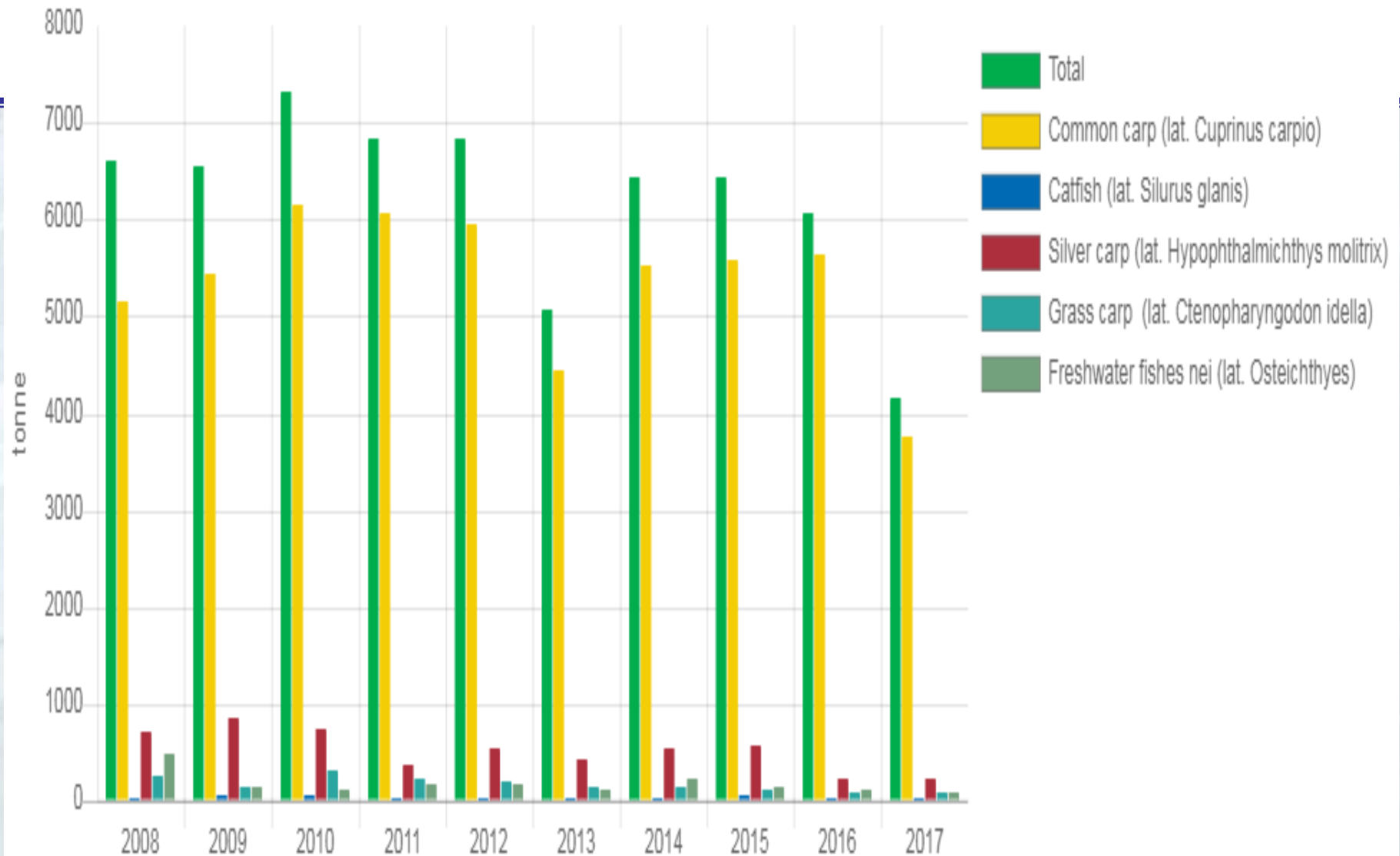


	Production of juveniles [tonne]									
	REPUBLIC OF SERBIA									
Period	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Fishponds										
Carp fish production facilities	2674	3577	3265	2457	3221	856	489	349	297	470
Trout fish production facilities	46	124	51	103	187	69	5	3	6	57



		Production of fish for consumption - Carp fish production facilities [tonne]									
		REPUBLIC OF SERBIA									
	Period	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Fishes											
Total		6605	6560	7322	6833	6853	5080	6432	6438	6081	4148
Common carp (lat. Cuprinus carpio)		5165	5428	6156	6071	5959	4435	5525	5598	5648	3761
Catfish (lat. Silurus glanis)		10	32	34	21	29	17	21	34	26	17
Silver carp (lat. Hypophthalmichthys molitrix)		710	832	724	357	534	410	533	561	213	221
Grass carp (lat. Ctenopharyngodon idella)		257	141	306	219	183	128	123	112	83	62
Freshwater fishes nei (lat. Osteichthyes)		463	127	102	165	148	90	230	133	111	87

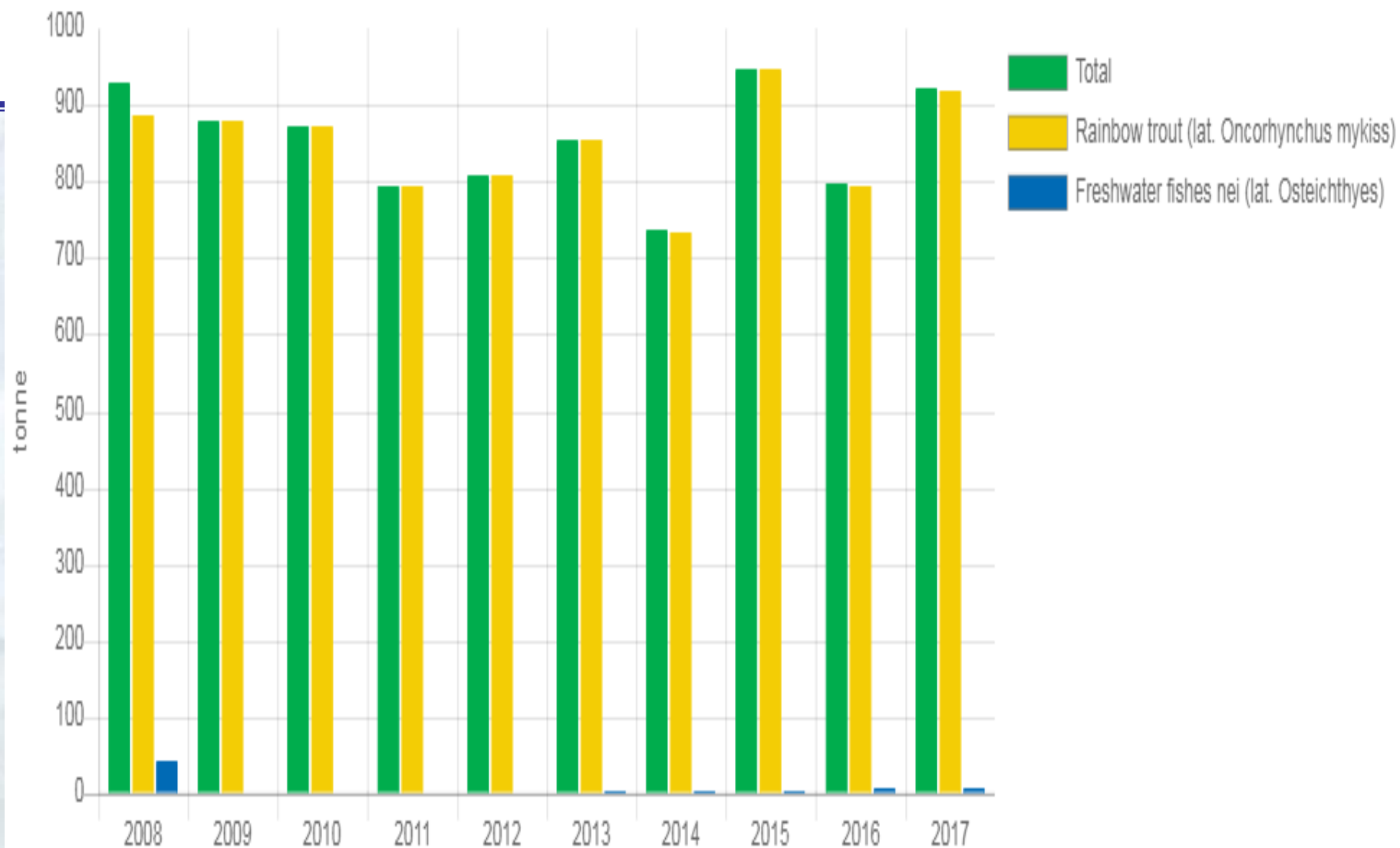
Production of fish for consumption - Carp fish production facilities , REPUBLIC OF SERBIA



Source: SORS

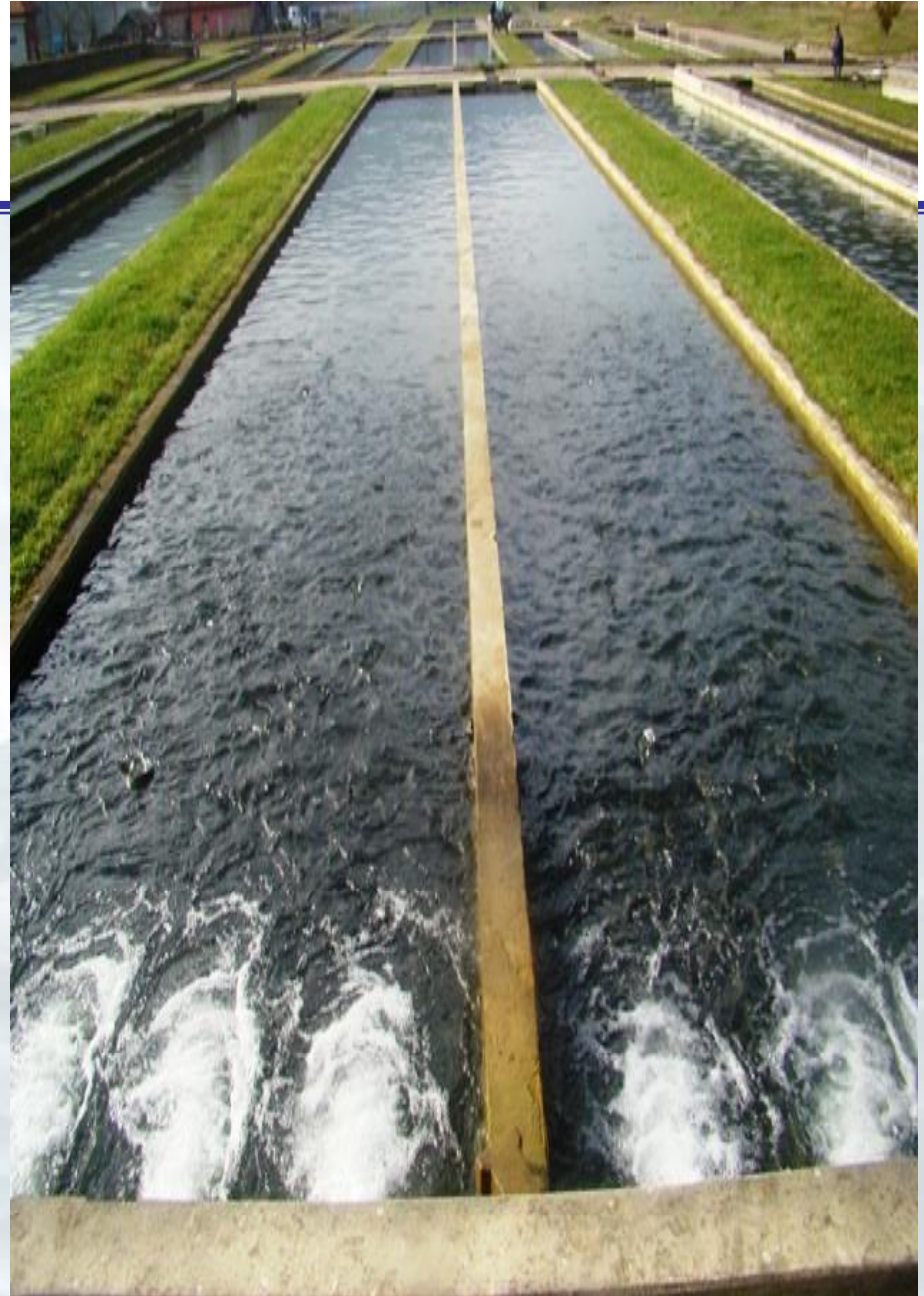
	Production of fish for consumption - Trout fish production facilities [tonne]										
		REPUBLIC OF SERBIA									
	Period	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Fishes											
Total		929	880	873	796	808	856	736	949	797	922
Rainbow trout (lat. Oncorhynchus mykiss)		889	880	873	796	808	855	734	947	793	918
Freshwater fishes nei (lat. Osteichthyes)		40	0	0	0	0	1	2	2	4	4

Production of fish for consumption - Trout fish production facilities , REPUBLIC OF SERBIA



Source: SORS

RM Stubica, Sisevac TROUT FARM





		REPUBLIC OF SERBIA									
	Period	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Employees [number]		920	878	934	798	751	948	837	910	900	730

- Sector with significant potential for growth,
- 1 % of agricultural production,
- Linked with other activities -> Development of multifunctional aquaculture units (recreational fishing, tourism, rural development...).

		REPUBLIC OF SERBIA									
	Period	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Carp fish production facilities [Hectare]		8019	8524	8940	8517	8704	8690	8724	8003	7684	7117
Trout fish production facilities [square metre]		74180	35792	36791	33255	36302	42743	49583	65526	54744	62281

		Indicator	Fish catch [tonne]									
		Territory - NSTJ	REPUBLIC OF SERBIA									
		Period	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Fishes	Type of fishing											
Total	Total		3151	3845	4807	5384	4798	5040	3591	3150	2069	2208
	Commercial fishing		1683	2112	2002	2260	1935	2235	908	851	581	590
	Recreational fishing		1468	1732	2805	3124	2863	2805	2683	2299	1488	1618
Common carp (lat. <i>Cuprinus carpio</i>)	Total		289	331	494	497	469	481	335	312	141	148
	Commercial fishing		200	208	198	201	182	200	71	58	28	23
	Recreational fishing		89	122	296	296	286	281	264	254	113	125
Catfish (lat. <i>Silurus glanis</i>)	Total		256	269	294	288	287	346	255	250	185	245
	Commercial fishing		179	183	146	151	145	171	116	113	77	100
	Recreational fishing		78	87	149	137	142	175	139	137	108	145
Pikeperch (lat. <i>Stizostedion lucioperca</i>)	Total		186	189	225	227	238	258	190	177	154	195
	Commercial fishing		129	131	116	127	120	128	84	72	54	51
	Recreational fishing		57	58	109	101	118	130	106	105	100	144
Silver carp (lat. <i>Hypophthalmichthys molitrix</i>)	Total		206	244	265	233	167	236	105	152	159	197
	Commercial fishing		172	223	256	218	158	227	94	143	119	173
	Recreational fishing		34	21	9	15	9	10	11	9	40	24
Bream (lat. <i>Abramis brama</i>)	Total		431	528	399	426	505	389	281	247	127	109
	Commercial fishing		215	279	163	246	226	180	95	72	59	40
	Recreational fishing		216	249	236	180	279	209	186	175	68	69
Prussian carp	Total		790	855	844	863	849	784	600	516	322	400
	Commercial fishing		374	306	325	387	350	347	130	82	63	58
	Recreational fishing		416	548	519	476	499	437	470	434	259	342
Freshwater fishes nei (lat. <i>Osteichthyes</i>)	Total		993	1429	2286	2850	2283	2546	1825	1496	981	914
	Commercial fishing		414	782	798	930	754	982	318	311	181	144
	Recreational fishing		578	647	1487	1919	1530	1563	1507	1185	800	770

		Period	2017			2018		
		Country	All countries	European Union (28)	CEFTA countries	All countries	European Union (28)	CEFTA countries
		Data type	Quantity, tonnes	Quantity, tonnes	Quantity, tonnes	Quantity, tonnes	Quantity, tonnes	Quantity, tonnes
Indicator	Product							
Exports, by NSFT products	03 – Fish (not marine mammals),crustaceans,molluscs and aquatic invertebrates;preparations thereof		1888.8	744.9	1098.4	2094.9	868.7	1207.2
	034 - Fish,fresh(live or dead),chilled or frozen		842.9	529.9	313.0	1077.5	549.7	527.8
	035 - Fish,dried,salted,in brine;smoked fish;flours,meals and pellets of fish,for human consumption		74.0	56.7	17.2.	118.6	99.7	18.9
	036 - Crustaceans,solluscs and aquatic invertebrates,fresh,chilled,dried,salt or in brine		68.9	17.6.	51.2	26.4	0.1	26.3
	037 - Fish,crustaceans,colluscs and other aquatic invertebrates,prepared or preserved,n.e.s.		903.0	140.6	717.0	872.3	219.1	634.2
Imports, by NSFT products	03 – Fish (not marine mammals),crustaceans,molluscs and aquatic invertebrates;preparations thereof		35957.6	16757.4	1133.9	36089.2	16119.9	1008.2
	034 - Fish,fresh(live or dead),chilled or frozen		23420.4	10849.2	1080.9	23816.3	10229.9	999.0
	035 - Fish,dried,salted,in brine;smoked fish;flours,meals and pellets of fish,for human consumption		9.9.	6.6.	1.6.	17.3	14.0	0.4
	036 - Crustaceans,solluscs and aquatic invertebrates,fresh,chilled,dried,salt or in brine		753.9	441.4	9.2.	874.8	589.7	8.7
	037 - Fish,crustaceans,colluscs and other aquatic invertebrates,prepared or preserved,n.e.s.							

Aquaculture in Serbia

Competent authority

**The Ministry of Agriculture, Forestry
and Water management**

VETERINARY DIRECTORATE

Aquaculture in Serbia

Competences

Animal Health

Veterinary Public Health and Food Safety

Animal welfare

Aquaculture in Serbia

Legislation

- Law on Veterinary matters (OG RS No. 91/05, 30/2010, 92/12)
- Law on Food Safety (OG RS No 41/09)
- Law on Animal Husbandry (OG RS 41/09, 93/12 and 14/16)
- Law on Subsidies in Agriculture and Rural Development ("Off. Gazette of RS", No. 10/13, 142/14, 103/15 and 101/16)
- Law on organic production
 - * Rulebooks, Regulations based on these laws

REGISTRATION PROCEDURE

Veterinary Directorate

NECESSARY DOCUMENTATION FOR THE REGISTRATION OF THE POND - ENTRY INTO THE REGISTER OF ESTABLISHMENTS OF AQUACULTURE- VETERINARY CONTROL NUMBER

Based on the Law on Veterinary matters

- Fulfil registration form and sent in to the Veterinary Directorate
- Fee
- Photocopy of the decision of this Ministry - Agricultural Inspection Sector, on the fulfillment of minimum conditions in terms of technical equipment and professional personnel for performing activities of the breeding of fish, younger and fertilized eggs if the pond has a spawn farm (in which case the applicant must be a legal person or an entrepreneur)

Issue of a registration act - upon receipt of the duly filled request, the act on the entry into the Register of fish establishment is issued **without** prior control by the veterinary inspection

Important note: Inspection of establishments by the veterinary inspection is done on the basis of a risk analysis, random selection of the site of control

REGISTRATION PROCEDURE

Necessary documentation for the construction of the pond

Based on the Law on Planning and Construction

1. Information on location
2. Locational conditions
3. General project (+ audit - expert control)
4. Conceptual solution
5. preliminary design (+ audit - expert control)
6. Project for building permit (+ technical control of the project + building permit)
7. Project for the execution of works
8. Building permit (for ponds larger than 12 m²)
9. Project of a derived object
10. Use permit (with technical inspection)

REGISTRATION PROCEDURE

Necessary documentation for the construction of the pond

Based on the Water Act

1. Water conditions (before Water conditions RHMZ opinion, based on which Water conditions are issued)
2. Water consent
3. Water permit

Based on the Law on Animal Husbandry

1. Inscribing to the register of organizations with special authorization (if the pond has a spawn farm)

Based on the Law on Veterinary matters

1. Entry into the register of objects, aquaculture facility - veterinary control number

Based on the Law on Environmental Impact Assessment

1. Submission of a request for the need for an environmental impact assessment
2. Development of a study on impact assessment (if the competent authority decides that a study is required)

SUPPORT TO THE PRODUCTION

- Based on Law on Subsidies in Agriculture and Rural Development
- Subsidies for quality breeding broodfish of carp – 4.2 €/head
- Subsidies for quality breeding broodfish of trout 2.5 €/head
- Subsidies for production of fish for consumption 0.08 €/kg
- Subsidizing interest rates – credit support for purchasing fish fry for breeding;
- Measures for the implementation of breeding programs in aquaculture;
- Investment support (equipments)

Aquatic animal diseases surveillance

COMPETENT AUTHORITY- Veterinary Directorate, Ministry of agriculture, Forestry and Water management

- Legislation background- Law of veterinary matters, Animal health protection measures program (issued on annual bases)
- Rullbook on the list of extremely dangerous infectious animals diseases and the list of infectious diseases that must be reported
- Data/reporting flow- according to Annual Health protection measures program
- Surveillance of pathogens according to Annual Health protection measures program

Aquatic animal diseases surveillance

Have evidence of all registered establishment for breeding and keeping fish and aquaculture animals, including those for sport fishing on who should be given a permanent veterinary supervision with regular clinical examination of animals, sampling and laboratory testing

Aquatic animal diseases surveillance

- Open water can be stocked with fish originating from a farm where they performed controls of fish disease
- Clinical examination and sampling
- Clinical examination is carried out twice a year with the intervals between the inspections shall be at least four months

Aquatic animal diseases surveillance

Control and health inspection of fish farms is done in those periods of the year when the water temperature is appropriate for the development of certain diseases

All production units

(ponds, tanks, cages etc..) are examined to determine the presence of dead fish or unusual behavior.

Aquatic animal diseases surveillance

Infectious pancreatic necrosis (IPN),
Viral haemorrhagic septicaemia (VHS)
Infectious haematopoietic necrosis (IHN) and
Bacterial kidney disease (BKD) (*Renibacterium
salmonidarum*) ,

Sprin viraemia of carp (SVC)
Koi herpesvirus disease.

Aquatic animal disease diagnostics

National reference laboratory – Scientific
Institute of Veterinary Medicine of Serbia

Prescribed methods of diagnosis for pathogens/diseases
under the National Pathogen List

All methods for isolation and identification are accredited,
and they work in accordance with OIE Manual

All disease from EU list covered by Directive 2006/88

RESTOCKING OF FISH STOCKS

- For restocking only fish from broodfish, juvenile fish and fertilized spawn farms;
- Fish with certified origin;
- With autochthonous fish species;
- Reintroduction or restocking from import only with approval of the relevant ministry.
- Nature Conservation Act
 - introduction of new species represents a risk to domestic fish species – import/cultivation is not allowed.



MOVEMENT/TRANSFERS OR IMPORT OF LIVE FISH, EGGS/FRY

Movement/transfers

- Between epizootic regions in Serbia – health certificates;

Importation of eggs/ fry/ live fish

- Import licence + quarantin in Serbia
- Veterinary certificates for import/ export with consignments
- Only from registered ponds

COUNTRY
SECTION

Serbia
Fishery products

Validity date from
27/06/2018
Date of publication
14/06/2018

00059

List in force

Approval number	Name	City	Regions	Activities	Remark	Date of request
1	Yuber AD	Jagodina	Pomoravski okrug	CS, PP	Aq	25/06/2015
64	CARNEK DOO VRBAS	Vrbas	Jutno-bodki okrug	CS, PP	Aq	25/06/2015
127	AD "NEOPLANTA" Novi Sad	Novi Sad	Jutno-bodki okrug	CS, PP	Aq	25/06/2015
1005	MATJEVIC NOVI SAD	Novi Sad	Jutno-bodki okrug	CS, PP	Aq	16/05/2018
06017	ANCORA NUOVA DOO	Dobanovci	Grad Beograd	CS, PP	Aq	12/02/2016
06019	Did Ribarstvo Doo	Badki Jarak	Jutno-bodki okrug	PP	Aq	03/02/2012
06021	Vasovic Doo Cacak	Cacak	Mornicki okrug	CS		23/09/2015
06022	LOVO PROMET DOO, CAMURLUSKI PUT BB	Nis	Nitavski okrug	CS, PP	Aq	26/12/2016
06026	KRISTAL SO DOO BEOGRAD	Krujeljevi	Srenski okrug	CS, PP	Aq	23/08/2013
06030	Tunahur Doo Beograd	Indija	Srenski okrug	CS, PP	Aq	23/09/2015
06033	BARBE SEAFOOD DOO BEOGRAD	Potaga	Zlatibanski okrug	CS, PP	Aq	16/12/2015
06036	SeriFood Doo Smederevo	Smederevo	Podunavski okrug	CS, PP	Aq	15/06/2017
06038	TAM Fish & Shrimps d.o.o.	Paracin	Pomoravski okrug	CS, PP	Aq	15/06/2017
9004	PRINCIPAL DUO CACAK	Cacak	Mornicki okrug	CS, PP	Aq	27/07/2017
20454	FREKOM DOO	Beograd (Novi Beograd)	Grad Beograd	CS	Aq	24/01/2018

List in force

Approval number	Name	City	Regions	Activities	Remark	Date of request
20514	Principal Duo DOO	Sopot	Grad Beograd	CS		24/04/2014

A large school of white fish, possibly tilapia, swimming in clear blue water. The fish are densely packed and moving in various directions, creating a dynamic background. The text "Thank you for your attention" is overlaid in a dark blue, sans-serif font.

**Thank you for your
attention**