



CZECH FISH FARMING РЫБОВОДСТВО ЧЕШСКОЙ РЕСПУБЛИКИ

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Carp History

Carp farming in czech countries has a long history.

First report about ponds and carp farming reach until 12th. and 13th. centuries.

The best period carp farming was since 14th until the end 16th century.

This period was „Golden Age”
czech fish farming.



Many ponds was built in this time. The area of ponds had almost **180** thousands hectars.

End of Gold Age period brouhgt 30years war in 17th century.

Since this time many ponds became extinct.

Now, we have **52** thousands hectars of fish ponds area.



POND CULTURE

First fishponds on Czech territory
12th/13th centuries

production 10 - 20 kg/ha

14th century

75,000 ha

≈ 30 kg/ha

16th/17th century 180,000 ha

≈ 30 kg/ha

1930's

45,000 ha

≈ 80 kg/ha

2000's

51,000 ha

≈ 450 kg/ha
(100-800 kg/ha)

Sorts of ponds

Carp was always main fish in Czech republic.

Almost 90% of whole production is carp.

Every pond has a different importance.

In carp farming we have 3-years or 4-years cycle.

In 3-years cycle is

production of market
carp about 1,5-2 kg.

In 4-years cycle we

produce market carp
over 2 kg.





Rozmberk - The Largest pond in the Czech republic 489 ha



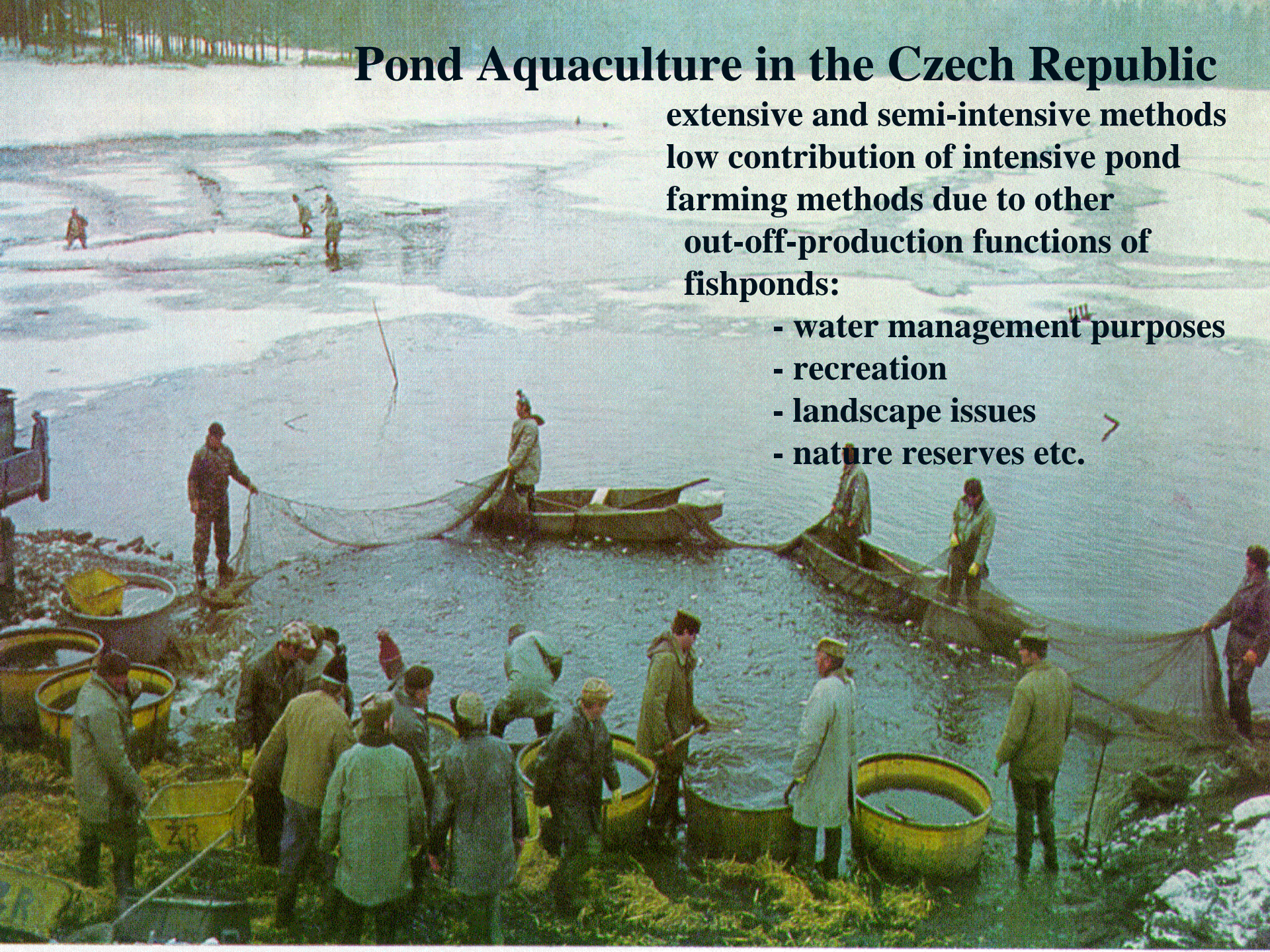
FISHERIES AND AQUACULTURE IN CZECH REPUBLIC (year production)

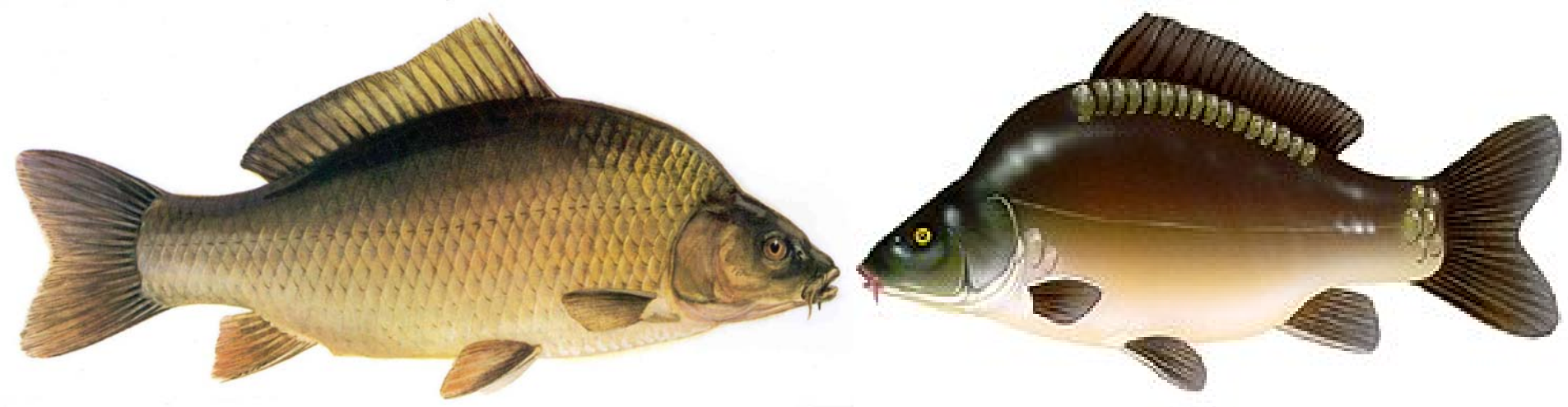
	ton/year	EUR
- GAME-FISHING	4 500	10 000 000
- COMERCIAL FISHERIES	0	0
- AQUACULTURE	20 000	40 000 000
- POND CULTURE	19 000	
- INTENSIVE AQUACULTURE	1 000	
- TROUT CULTURE	800	
- WARMWATER AQUACULTURE	100	
- ORNAMENTAL FISH CULTURE		100 000 000

Pond Aquaculture in the Czech Republic

extensive and semi-intensive methods
low contribution of intensive pond
farming methods due to other
out-of-production functions of
fishponds:

- water management purposes
- recreation
- landscape issues
- nature reserves etc.





Common carp (*Cyprinus carpio*)

- $\approx 88\%$
- marketable size 1.5 - 3 kg
- (2)3 - 4(5) year-old fish
- 80% of carp are sold during December as a traditional Christmas Eve dish (carp soup and fried steak)

POND POLY CULTURES

Herbivorous fish

- grass carp (*Ctenopharyngodon idella*)
- silver carp (*Hypophthalmichthys molitrix*)
- bighead carp (*Aristichthys nobilis*)

Predatory fish

- pike (*Esox lucius*)
- zander (*Stizostedion lucioperca*)
- wels (*Silurus glanis*)
- perch (*Perca fluviatilis*)

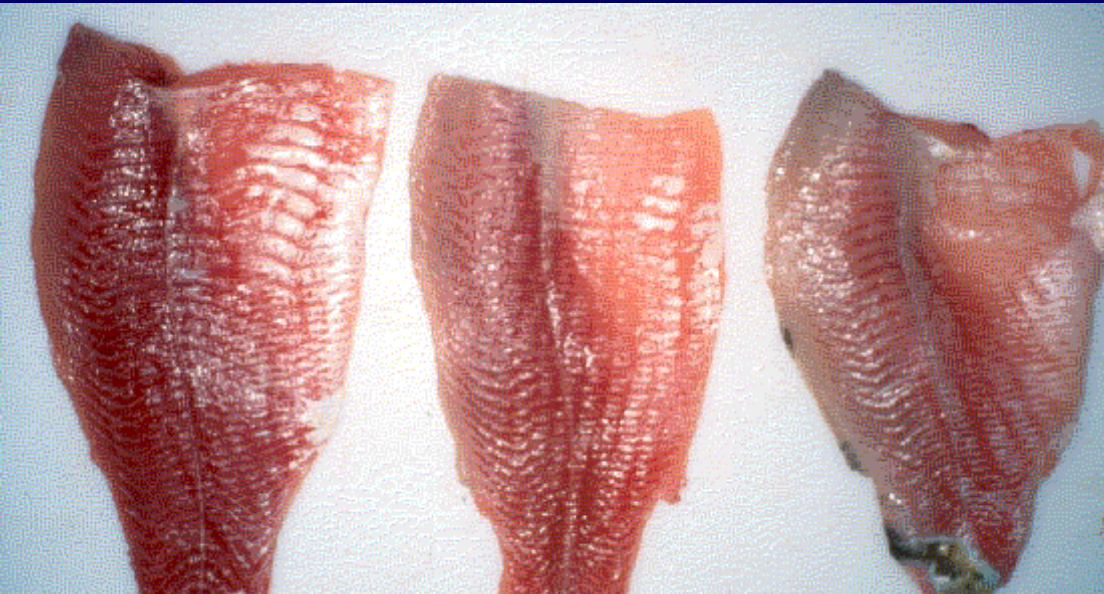
Other

- tench (*Tinca tinca*)
- coregonids (*Coregonus lavaretus*, *C. peled*)



The tendencies of final products from marketable fish in the Czech Republic (10³ t)

Year	Total production of marketable fish	Sale of life fish on local market	Processed fish in life weight	Life fish on export
1990	19.3	9.1	<u>3.8</u>	2.7
1992	<u>20.8</u>	<u>9.9</u>	2.3	4.6
1997	17.6	7.6	1.4	7.0
1998	17.2	7.5	1.6	8.8
1999	18.8	8.5	1.8	8.0
2001	20.1	7.8	2.1	<u>10.0</u>
2002	19.2	7.6	1.6	9.7
2003	19.7	7.8	1.8	9.4
2004	19.4	8.2	1.7	9.5
2005	<u>20.5</u>	8.6	2.2	9.3
2006	20.4	8.5	1.9	<u>10.0</u>
2007	20.4	8.6	1.9	9.6
2008	20.4	8.4	1.7	9.0



The composition of Czech marketable fish production (t)

	1998	1999	2000	2001	2002	2003	2004
Carp	15,061	16,448	17,106	<u>17,421</u>	16,596	16,935	16,996
Salmonids	651	842	<u>815</u>	796	743	711	694
Tench	<u>450</u>	401	300	212	228	215	184
Herbivorous fish	528	492	709	<u>1,151</u>	1,041	1,026	850
Carnivorous fish	176	170	180	170	218	<u>232</u>	194
Coregonids	<u>108</u>	69	52	30	42	26	19
Others	365	422	365	348	384	<u>523</u>	437
TOTAL	17,231	18,775	19,475	20,098	19,210	19,670	19,384





Modern recirculation systems for trout culture









GAME-FISHING





Salmo salar





Anguilla anguilla





THANK YOU FOR YOUR ATTENTION
СПАСИБО ЗА ВНИМАНИЕ



Карп

Guinot