



SEACASE – WP1

Overview of current status of extensive and semi-intensive production practices
In france



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Seudre Estuary & wetlands

Coastal aquaculture: extensive & semi-intensive sites & productions

● Saint-Trojan-les-Bains

● Mareennes

● Luzac

● La Tremblade

● Arvert

● Les Mathes

● Saint-Sulpice-de-Royan

● Saujon

Shrimps farming



Clams farming



Oysters farming



Fish farming for leisure



Species type	System type
Fish	Lagoons
Molluscs	Constructed Earthponds
Shrimps	Natural ponds
Seawater	Brackish water
	Freshwater
Underground pumping production	

7.44 km

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Prevalling aquaculture system types and correspondent location zone, used surface, production and number of farms



System	Taxa	Environment	System	Location zones refer	Engluation % use	Production (T)	% production	% farms
Extensive	molluscs	Lagoon – tables	O	Hossegor	<5%	100 650 50	0.05 % 0.35 % 0.03 %	0.2 % 0.09 % 0.03%
		Lagoon - long li	O MU	Diana	<1%	N/A	N/A	N/A
				Urbino	<1%	N/A	N/A	N/A
				Salse-Leucate	<1%	1000	0.5 %	0.1 %
Thau	20%	15000	8 %	23 %				
Prévot	<1%	N/A	N/A	0.06 %				
Earthponds	O	Seudre	5%	N/A	N/A	N/A		
Extensive & semi-ex	shrimp	Earthponds	SH	Vendée Seudre Médoc	<1%	1 9 5	7 60 33	0.3 83 16.6
	fish	Salt marshes/ earthen ponds	SA E M	Guérande Noirmoutier island Oléron island Ré island Seudre Salse Leucate	15% 15% 15% 15% 30% <5%	N/A	N/A	N/A
Semi-intensive	fish	earthen ponds	SA DL	Noirmoutier island Oléron island Ré island	<1% <1% <1%	N/A	N/A	N/A

Legend: C – clams; O – oyster; MU – mussel; SA – seabream; E – eel; M – mullet; SS – sole; DL – seabass; SH – shrimp



Advantages, sources of failure and risks

- exposure to pollution and severe diseases in 2008 and 2009,
- urban pressure and continental runoff
- Productions in lagoons has reached a maximum level
- Extensive fish farming remains a random production
- Restrictive administratives conditions

But :

The use of earthponds can be increased on demand, to make higher quality and value products

Space is available for refining oysters, growing shrimps, extensive fish rearing

An exemple of Integrated system :
Ferme marine du Douhet

Intensive effluents are pre-purified
Then discharged into lagoons for
autoepuration



Autoépuration is oriented towards production or refining. A valuable way to add value to products and to the integration of the farm into environment :

Refine products (fish)

Grow products (oysters)

Grow intermediate food or possible recyclable food (microalgae, macroalgae)

Lower nitrogen fluxes from intensive farming to acceptable levels into natural waters