

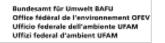
Drought Management in the Meuse Basin



Jean-Noël PANSERA International Meuse Commission



Ministry of Infrastructure and Water Management Schweizerische Eidgenössenschaft Confedération suisse Confederazione Svizzera Confederazion svizza





International Meuse Agreement 3 December 2002

Article 2

Objectives of the agreement

"The Contracting Parties (...) shall, above all, cooperate (...) in consulting each other and then coordinating preventive and protective measures against floods (...) to reduce the impact of floods and droughts"

Article 4

Functions of the Commission

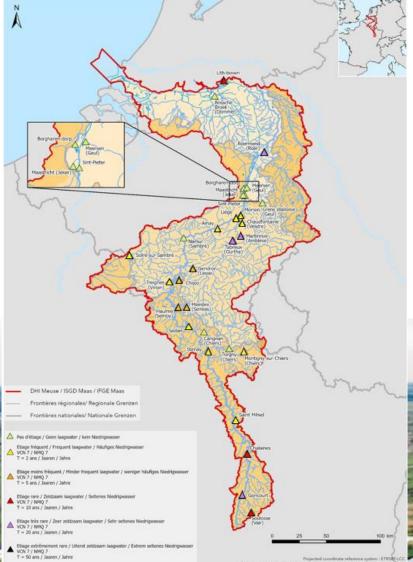
"Furthermore, the Commission shall have the following functions:

(...) the preparation of opinions or recommendations on the reduction of the impact of droughts, including preventive measures"



International Meuse Commission (FR, BE, NL, LU, DE)

Joint Low-water Notice Since 2015

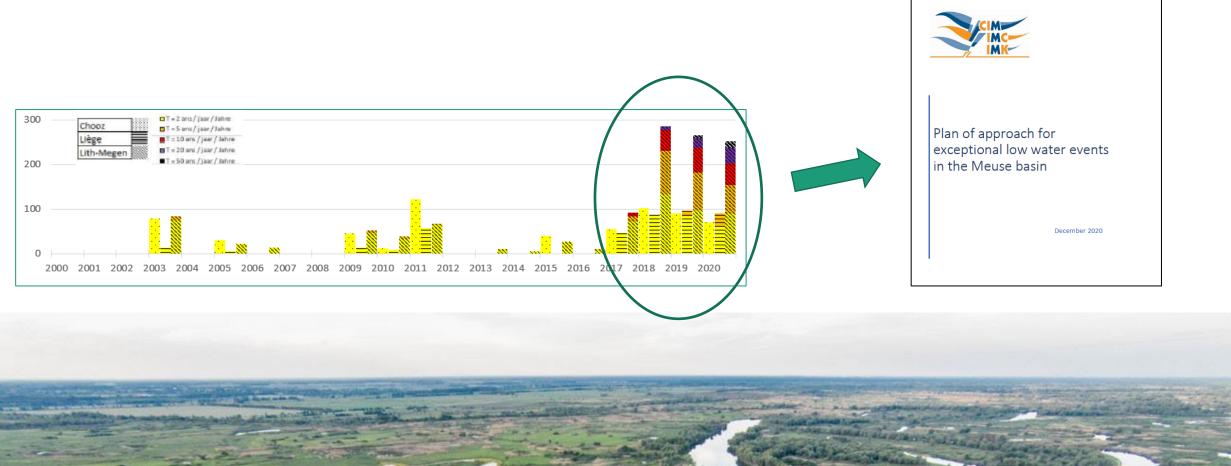


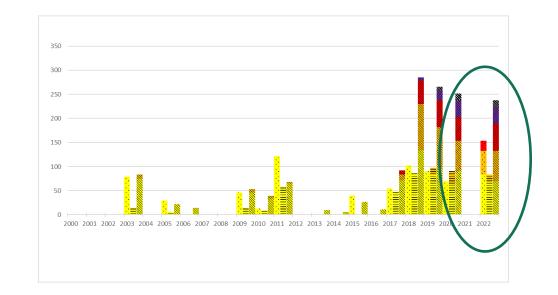
	CIM-Avis d'étiage Meus								
	46	1422							
anter Solarge Statistico et Maria A Thomps	Wallonie	1	শ্ৰন্থিত						

Station située en :	Rivière	Station hydrométrique de référence	Pas d'étiage	Etiage fréquent	Etiage moins fréquent	Etiage rare	Etiage très rare	Etiage extrêmement rare	semaine 28	semaine 29	semaine 30	semaine 31
			T < 2 ans	T = 2 ans	T = 5 ans	T = 10 ans	T = 20 ans	T = 50 ans	m3/s	m3/s	m3/s	m3/s
France	Meuse	Goncourt (52)	> 0,067	0,067	0,036	0,026	0,020	0,014	0,08	0,04	0,02	0,01
France	Vair	Soulosse (88)	> 0,365	0,365	0,264	0,223	0,194	0,166	0,39	0,21	0,22	0,22
France	Meuse	Chalaines (55)	> 1,52	1,52	1,03	0,838	0,707	0,584	1,36	0,96	0,77	0,63
France	Meuse	Saint Mihiel (55)	> 2,64	2,64	1,90	1,60	1,38	1,18	3,10	2,38	2,48	2,35
France	Meuse	Stenay (55)	> 7,86	7,86	5,71	4,83	4,21	3,60	9,42	7,83	6,14	5,99
France	Chiers	Montigny/ Chiers (54)	> 1,25	1,25	1,02	<i>0,92</i>	0,85	0,77	1,11	1,06	1,14	1,16



Plan of approach for exceptional low-water events December 2020



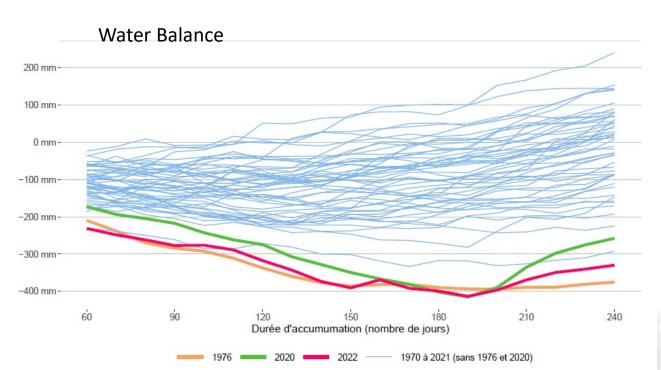


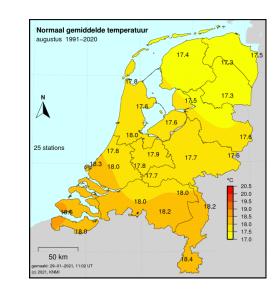


Locatie: Maas bij Borgharen Foto: Ger Hermans (Provincie Limburg)

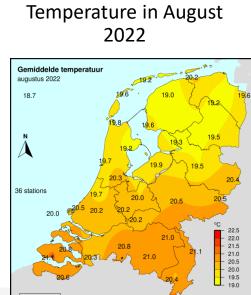


Weather





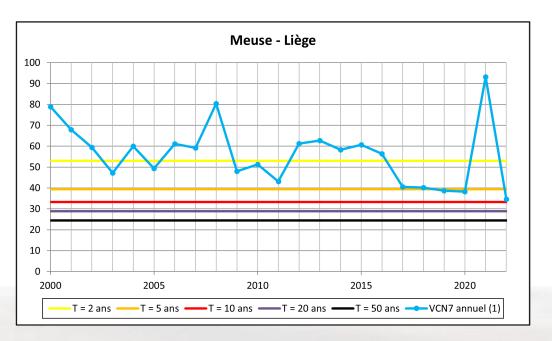
Average temperature in August 1991-2020

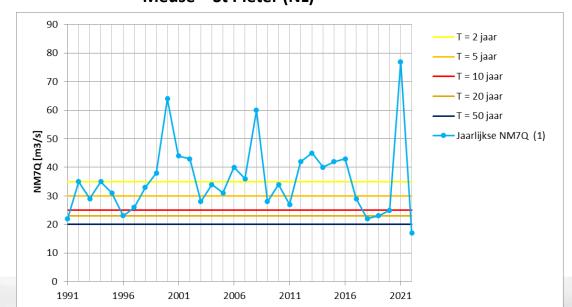


50 km maakt: 05-09-2022, 11:30 2022, KNMI +2,5 °C



Hydrology

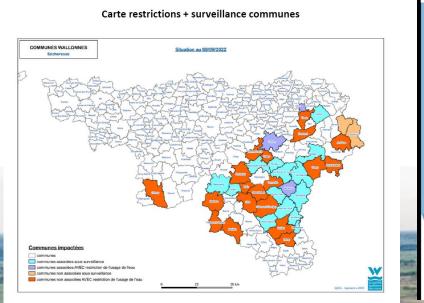




Meuse – St Pieter (NL)

Consequences

Restriction of consumption of water in Belgium and Netherlands





Navigation restrictions (grouping of vessels, waiting times, pumping at locks, etc.)



Photo : sudinfo.be

Consequences

Prohibition of swimming (cyanobacteria), fishing or leisure activities (kayaking)



O dreamstime.com



Ban on withdrawal of surface water and groundwater for irrigation



Photo : waterportaal.be

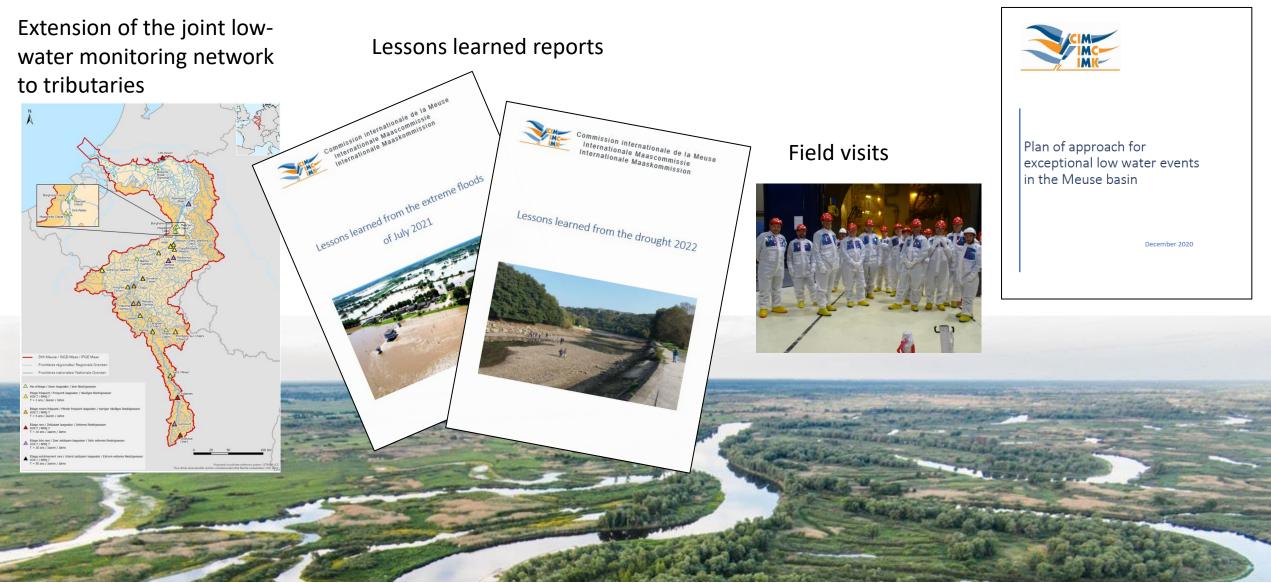
Fish mortality



https://www.groen.be/droogte-vissterfte-2022

Challenges for the IMC

Update of the plan of approach for exceptional low water events



Thank you



Email address: pansera@meuse-maas.be



in

Website: <u>www.meuse-maas.be</u>

LinkedIn: https://www.linkedin.com/company/24225716/