

Jean-Noël PANSERA, Secretariat of the
International Meuse Commission



INTERNATIONAL MEUSE SYMPOSIUM

21 September 2021

Plan of approach for the
management of exceptional low
water events in the Meuse
catchment area – December 2020



Presentation of the International Meuse Commission

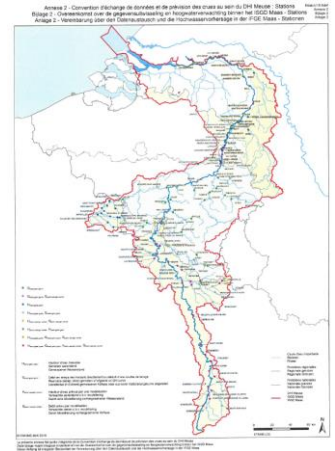
- **International Meuse Agreement - Ghent 3 Dec. 2002** - International Meuse Commission (FR, BE, NL, LU, DE)
- 5 countries / 8 delegations (3 Regions for Belgium)
- 3 official languages (FR, NL, DE)
- Coordination of the obligations of the Water Framework Directive and the flood risks Directive
- Advice and recommendations to the Parties for the prevention and control of accidental pollution (warning and alert system)
- Permanent secretariat in Liège, 3 employees

<http://www.meuse-maas.be/>



From Floods...

Important floods in 1993 and 1995 100 year return period



Data Exchange and
Flood Forecasting
Agreement - 2017



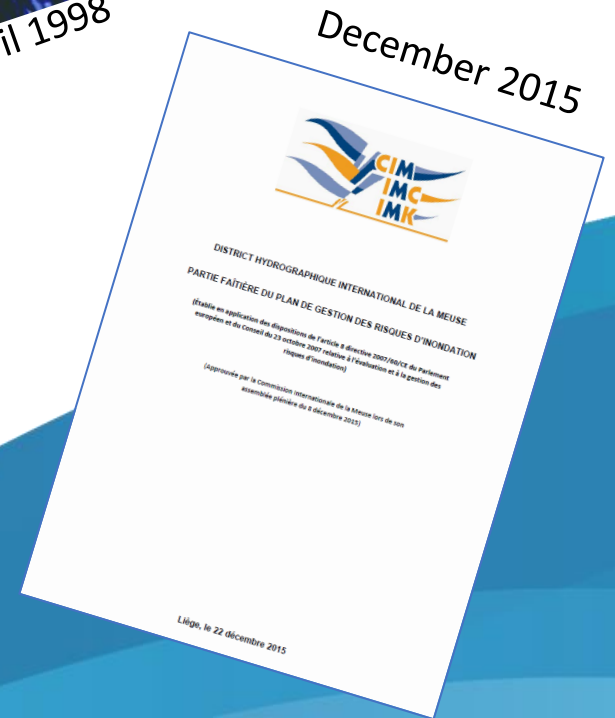
Source: L1.nl



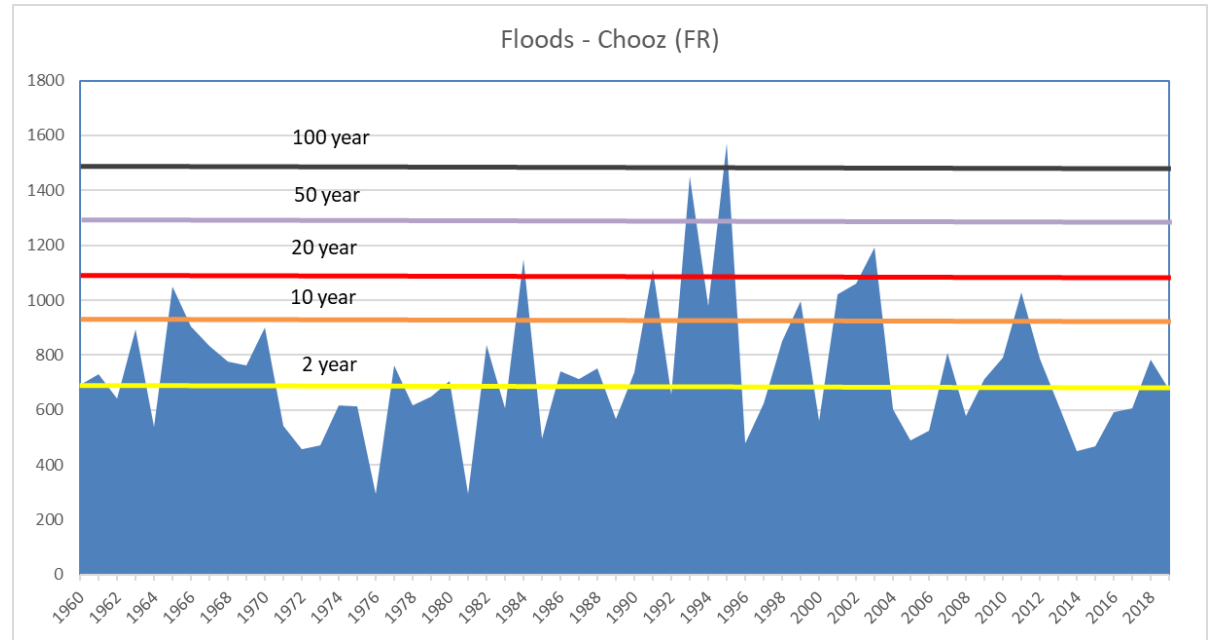
Source: ANP



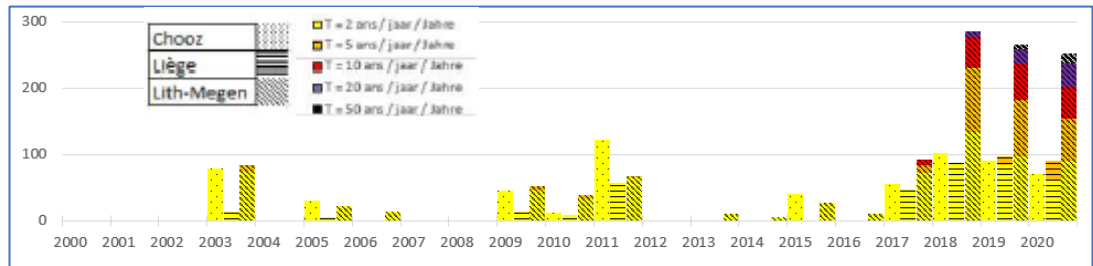
Source: rws.nl



From Floods...



...to Droughts



CIM-Avis d'étiage Meuse Semaine 43				semaine 31	semaine 32	semaine 33	semaine 34
Station située en :		Rivière	Station hydrométrique de référence	m³/s	m³/s	m³/s	m³/s
France	Mouzon	Meuse	Villers (08)	0,07	0,06	0,06	0,05
France	Val	Meuse	Soulsoise (08)	0,25	0,23	0,19	0,18
France	Heuse	Meuse	Châlaines (55)	0,45	0,63	0,54	0,51
France	Heuse	Meuse	Saint-Mihiel (55)	2,7	2,4	2,1	2,0
France	Meuse	Meuse	Stenay (55)	7,35	6,95	5,12	4,90
France	Chêrs	Meuse	Montigny-Chêrs (54)	1,53	1,39	1,12	1,03
Wallonie	Chêrs	Meuse	Torgny	3,23	2,99	2,62	2,61
France	Chêrs	Meuse	Chauveney-le-Château (55)	8,0	7,5	7,1	8,0
Wallonie	Senob	Meuse	Membré	1,88	1,74	1,53	1,10
France	Senoy	Meuse	Haulme (08)	1,9	1,7	1,4	1,2
France	Meuse	Meuse	Chooz (08)	26,91	25,02	23,19	21,59
Wallonie	Lesse	Meuse	Gendron	1,58	1,39	1,27	1,00
Wallonie	Sambre	Meuse	Namur	5,63	4,60	4,21	4,63
Wallonie	Heuse	Meuse	Amay	43,39	38,44	36,84	38,88
Wallonie	Ouarthe	Meuse	Tabreux	2,20	2,10	1,79	1,51
Wallonie	Meuse	Meuse	Liège (station calculée) ¹	50,48	45,30	43,02	34,80
Wallonie	Meuse	Meuse	Monsin (station calculée) ²	56	55	45	52
Pays-Bas	Meuse	Meuse	St. Pieter	39	39	31	37
Pays-Bas	Meuse	Meuse	Borgharen-dorp ³	17	20	15	20
Pays-Bas	Roer	Meuse	Roermond	9	9	8	13
Pays-Bas	Heuse	Meuse	LiH boven	41	36	23	29

Low-water notice since 2017

...to Droughts

Plan of approach for the management of exceptional low water events in the Meuse catchment area – 2020



Plan d'approche pour la gestion des étiages exceptionnels dans le bassin versant de la Meuse

Décembre 2020

3 questions:

- What is an exceptional low-water event in the Meuse basin?
- What are their concrete consequences?
- How can we deal with such a situation?

Frequent low-water level T > 2 ans	Less frequent low-water level T > 5 ans	Rare low-water level T > 10 ans	Very rare low-water level T > 20 ans	Extremely rare low-water level T > 50 ans
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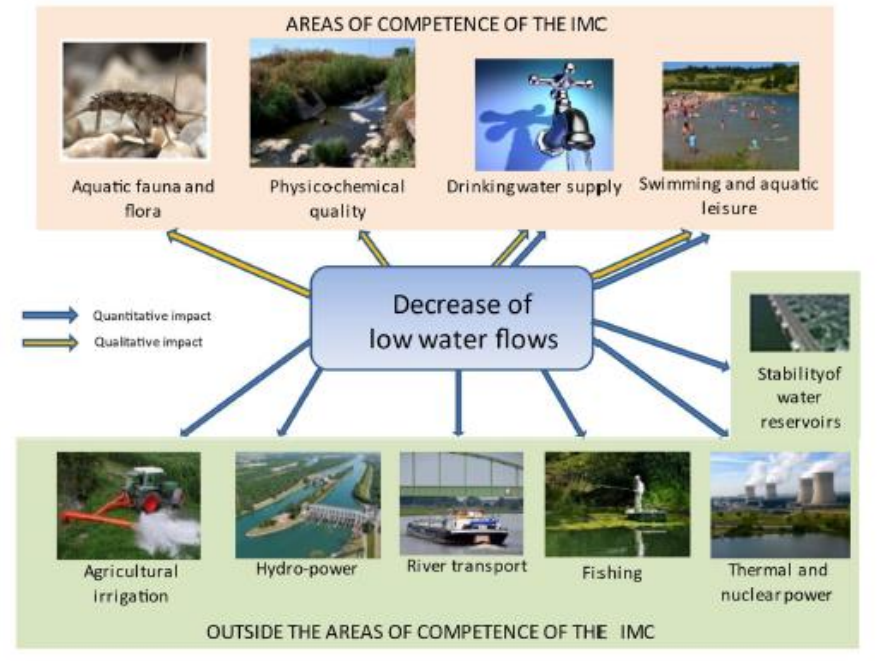
Data from 1960 to 2018

...to Droughts

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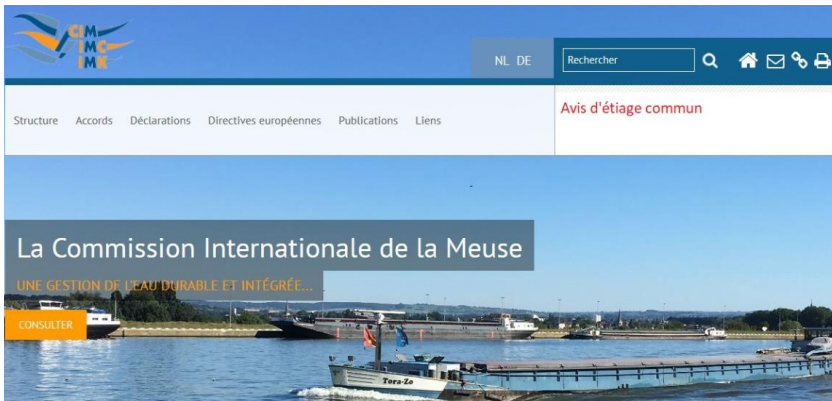
+ Potential effects of climate change on the evolution of low water flows



...to Droughts

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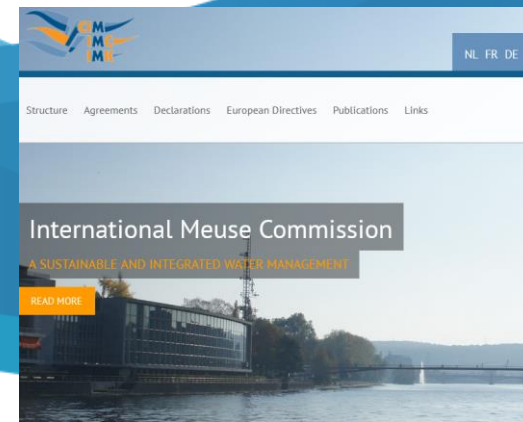


...to Droughts

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Thank you for your attention

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