

**Brussels, 09 November 2018** 

WK 13666/2018 INIT

**LIMITE** 

**PECHE** 

## **WORKING PAPER**

This is a paper intended for a specific community of recipients. Handling and further distribution are under the sole responsibility of community members.

### **WORKING DOCUMENT**

From: To:	General Secretariat of the Council Delegations
Subject:	Proposal for a Council Regulation fixing for 2019 the fishing opportunities for certain fish stocks and groups of fish stocks, applicable in Union waters and, for Union fishing vessels, in certain non Union waters - Calculation Tables for 2019 Discard Plan Exemptions and Deductions

Delegations will find attached a working document on the above-mentioned subject, as received from the European Commission services.

# **Proposal for Atlantic and North Sea Fishing Opportunities 2019:**

Calculation Tables for 2019 Discard Plan Exemptions and Deductions

07 November 2018

# **Generalised Exemption Wording and Structure**

n% of ∑ annual catches in area x of species y of size z of Vessels (Generic type a) of segment b of mesh size c with device d

Variable	Legend	Data Source (if available) for deduction	Size of deduction
n	% de minimis amount	JR / Delegated act	
Σ	only releveant in combined deminimis (sum annual catches of several species)	ICES or STECF	
х	Area or ICES division	ICES advice	\ /
у	Species (or group of species)	ICES advice	\ /
Z	< or > MCRS? Or all sizes	ICES advice	\ /
a	"Trawlers" or "Beam Trawlers" or "Gill netters" etc	ICES advice	\ /
b	TR1 or BT2 etc	FDI/STECF (if useable)	\ /
С	80-100mm or >110mm etc	FDI/STECF (if useable)	\
d	using Grid or other special sorting device	? SEPCON Used?	V

Discard Plan	Article	Туре	Species	Area	Gear	Mesh as in	Relevant Segment	Other details					TAC un	its				
NWW	6c	Survival	Plaice	7a-7k	BT2 beam trawls with flip up or benthic release	exemption 80-119 mm	BT2	>221 kW	PLE/07A.	PLE/7BC.	PLE/7DE.	PLE/7FG.	PLE/7HJK.					
NWW	6d	Survival	Plaice	7a-7k	BT2 beam trawls within 12 nm and tow <90 mins	80-119 mm	BT2	<24m LOA and ≤221 kW	PLE/07A.	PLE/7BC.	PLE/7DE.	PLE/7FG.	PLE/7HJK.					
NWW	8c	de minimis	Sole	7d-7g	Trammels and Gill nets	All	all Trammels and GN		SOL/07D.	SOL/07E.	SOL/7FG.							
NWW	8d	de minimis	Sole	7d-7h	Beam trawls plus Flemish panel	80-199 mm	BT 2	Plus Flemish panel	SOL/07D.	SOL/07E.	SOL/7FG.	SOL/7HJK.						
NWW	8e	de minimis	Haddock	7b-7c and 7e-7k	bottom trawls and seines and beam trawls	≥80mm	TR 1, TR2, BT1, BT2		HAD/7x7A34									
NWW	8g	de minimis	Horse Mackerel	7b-k	bottom trawls and seines and beam trawls	All	All	7%	JAX/4BC7D	JAX/2A-14								
NS	9a	de minimis	Sole	2a,3a and 4	Trammels and Gill nets	all	Trammels and Gill nets	3%	SOL/3A/BCD	SOL/24-C.								
NS	9b	de minimis	Sole	4	Beam trawls with Flemish Panel	80-119 mm	BT2	<mcrs 6%="" and="" of="" sole<="" td=""><td>SOL/24-C.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></mcrs>	SOL/24-C.									
NS	9c	de minimis	sole, haddock, whiting, cod, saithe and hake <mcrs< td=""><td>За</td><td>Nephrops trawls (OTB TBN)</td><td>≥70mm with grid max 35mm</td><td>Nephrops trawls</td><td>4 % of the total annual catches of Norway lobster, common sole, haddock, whiting and Northern prawn, cod, saithe and hake</td><td>SOL/3A/BCD</td><td>HAD/3A/BCD</td><td>WHG/03A</td><td></td><td>COD/03AN</td><td>COD/03AS</td><td>POK/2A34</td><td>HKE/3A/B CD</td><td></td><td></td></mcrs<>	За	Nephrops trawls (OTB TBN)	≥70mm with grid max 35mm	Nephrops trawls	4 % of the total annual catches of Norway lobster, common sole, haddock, whiting and Northern prawn, cod, saithe and hake	SOL/3A/BCD	HAD/3A/BCD	WHG/03A		COD/03AN	COD/03AS	POK/2A34	HKE/3A/B CD		
NS	9e	de minimis	sole, haddock, whiting, cod, plaice saithe, herring, Norway pout, greater silver smelt and blue whiting, <mcrs< td=""><td>За</td><td>Northern Prawn trawls (OTB)</td><td>≥35 mm mesh wth grid bar spacing max 19mm</td><td>Northern Prawn Trawls</td><td>5 % of the total annual catches of Norway lobster, common sole, haddock, whiting, cod, saithe, plaice, Northern prawn, hake, Norway pout, greater silver smelt, herring and blue whiting</td><td></td><td>HAD/3A/BCD</td><td>WHG/03A</td><td>PLE/03AS</td><td>COD/03AN</td><td>COD/03AS</td><td>Greater silver smelt</td><td>PLE/2A3A X4 PLE/03AN</td><td>POK/2A34</td><td>Plus Herring, and WHB Norway Pout,</td></mcrs<>	За	Northern Prawn trawls (OTB)	≥35 mm mesh wth grid bar spacing max 19mm	Northern Prawn Trawls	5 % of the total annual catches of Norway lobster, common sole, haddock, whiting, cod, saithe, plaice, Northern prawn, hake, Norway pout, greater silver smelt, herring and blue whiting		HAD/3A/BCD	WHG/03A	PLE/03AS	COD/03AN	COD/03AS	Greater silver smelt	PLE/2A3A X4 PLE/03AN	POK/2A34	Plus Herring, and WHB Norway Pout,
NS	9k	de minimis	ling <mcrs< td=""><td>4</td><td>trawls OTB, OTT, PTB</td><td>100-119 mm</td><td>TR1</td><td>of ling only 3% Total Annual Catches</td><td>LIN/04-C</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></mcrs<>	4	trawls OTB, OTT, PTB	100-119 mm	TR1	of ling only 3% Total Annual Catches	LIN/04-C									
NS	91	de minimis	ling <mcrs< td=""><td>4</td><td>trawls OTB, OTT, PTB</td><td>≥120 mm</td><td>TR1</td><td>of ling only 3% Total Annual Catches</td><td>LIN/04-C</td><td></td><td></td><td></td><td></td><td></td><td></td><td>ļ</td><td></td><td><u> </u></td></mcrs<>	4	trawls OTB, OTT, PTB	≥120 mm	TR1	of ling only 3% Total Annual Catches	LIN/04-C							ļ		<u> </u>
NS	9n	de minimis	horse mackerel	4	bottom trawls (OTB, OTT, PTB, TBB)	80-99mm	TR2	horse mackerel	JAX/4BC7D	JAX/2A-14			ļ	ļ		ļ		<u> </u>
SWW	6a	de minimis	Hake	8 and 9	trawls and seines (gear codes: OTT, OTB, PTB, OT, PT, TBN, TBS, TX, SSC, SPR, TB, SDN, SX, SV)	all	all	6%	HKE/8C3411	HKE/8ABDE								
SWW	6b	de minimis	Sole	8a and 8b	beam trawl and bottom trawls (gear codes: OTB, OTT, PTB, TBN, TBS, TBB, OT, PT and TX)			5%	SOL/8AB.									
sww	6c	de minimis	Sole	8a and 8b	trammel nets and gillnets (gear codes: GNS, GN, GND, GNC, GTN, GTR and GEN)			3%	SOL/8AB.									
SWW	6f	de minimis	Horse Mackerel	8 and 9	beam trawl, bottom trawls and seines (gear codes: OTB, OTT, PTB, TBN, TBS, TBB, OT, PT, TX, SSC, SPR, SDN, SX, SV)			7%	JAX/09	JAX/2A-14	JAX/08C							
SWW	6g	de minimis	Horse Mackerel	8, 9 and 10 and and CECAF areas 34.1.1, 34.1.2, 34.2.0;	using gillnets and trammels (gear codes: GNS, GND, GNC, GTR, GTN)			3%	JAX/09	JAX/2A-14	JAX/08C	JAX/X34PRT	JAX/341PRT	JAX/341SPN				
SWW	6j	de minimis	Anchovy	8 and 9	using beam trawl, bottom trawls and seines (gear codes: OTB, OTT, PTB, TBN, TBS, TBB, OT, PT, TX, SSC, SPR, SDN, SX, SV)			7%	ANE/08	ANE/9/3411								
SWW	6k	de minimis	Boarfish	8 and 9	beam trawl, bottom trawls and seines (gear codes: OTB, OTT, PTB, TBN, TBS, TBB, OT, PT, TX, SSC, SPR, SDN, SX, SV			7%	BOR/678-									
SWW	61	de minimis	Megrim	8 and 9	beam trawl, bottom trawls and seines (gear codes: OTB, OTT, PTB, TBN, TBS, TBB, OT, PT, TX, SSC, SPR, SDN, SX, SV)			5%	LEZ/8ABDE	LEZ/8C3411								
sww	6m	de minimis	Megrim	8 and 9	gillnets (gear codes: GNS, GND, GNC, GTR, GTN)			4%	LEZ/8ABDE	LEZ/8C3411								
SWW	6р	de minimis	Anglerfish	8 and 9	beam trawl, bottom trawls and seines (gear codes: OTB, OTT, PTB, TBN, TBS, TBB, OT, PT, TX, SSC, SPR, SDN, SX, SV			5%	ANF/8ABDE	ANF/8C3411								
SWW	6q	de minimis	Anglerfish	8 and 9	gillnets and trammels (gear codes: GNS, GND, GNC, GTR, GTN)			4%	ANF/8ABDE	ANF/8C3411								

TAC	ICES MSY Total Catch	COM Proposal pre-deduction	Deduction %	New Proposed TAC
Plaice PLE/07A.	3503	3503	-12.23%	3075
Plaice PLE/7DE.	12508	12508	-19.12%	10116
Plaice PLE/7FG.	2160	2160	-25.57%	1608
COD/03AS	494	494	-3.61%	476
Sole SOL/24-C.	12801	12801	-4.33%	12247
Sole 7D	2571	2571	-2.46%	2508
Sole 7E	1272	1272	-2.32%	1242
Sole 7FG	864	864	-2.70%	841
Sole Bay of Biscay 8AB	3967	3967	-3.64%	3823
Haddock HAD/7X7A34	6317	6317	-6.02%	5937
Northern Hake HKE/8ABDE	53198	53198	-2.03%	52118
Southern Hake HKE/8C3411	8281	8281	-3.84%	7963
Mergrims LEZ/8ABDE	1793	1793	-4.99%	1704
Mergrims LEZ/8C3411	1970	1970	-4.95%	1872
Anglerfish ANF/8ABDE	8787	8787	-4.73%	8371
Anglerfish ANF/8C3411	4215	4215	-4.55%	4023
Ling LIN/04-C.	3843	3843	-2.72%	3738
Horse Mackerel JAX/4BC7D	17517	17517	-13.35%	15178
Horse Mackerel JAX08c	19850	19850	-5.00%	18858
Horse Mackerel JAX2A-14	125387	125387	-5.00%	119118

ICES data	Plaice PLE/07A.	
ICES Total catch TAC*	3503	
ICES Wanted TAC	2131	Not like nephrops, not higher
ICES Unwanted	1372	SD+DD Together 40:60

### \*2018 TAC of 1793t

Step 1 Deduct dead discards from ICES total catch figure		ICES Total catch advice 2019	3503	Comments
		discard rate	39%	Discard rate ICES
		Contribution	52.0%	Beam trawl ICES
		dead discards	60%	max dead discards 60% in
				ICES assumptions in
				forecast
		Contr. to total dead discards	12.23%	
		dead discard deduction	428.4	
		Total deduction	428	
		New catch TAC	3075	
		TAC deduction % relative to ICES catch TAC	-12.23%	

Discard values available from 2004. Estimates of modelled discards for 1981–2003 (WKIRISH3; ICES,

From ICES

2017). Only the dead fraction of discards (estimated to be 0.6) is accounted for in the model. In the forecast discard values are raised to include the live portion.

	landir	ngs discards		
		41%	59%	
	2017	586	852	
		57%	43%	
		816	608	1424
		69%	31%	
dead discards		816	364.8	

ICES data	Plaice PLE/7DE.
ICES Total catch TAC*	12508
ICES Wanted TAC	7987
ICES Unwanted	4521

\*2018 TAC of 10360t

Step 1	Deduct dead discards from	ICES Total catch advice 2019	12508	Comments	
	ICES total catch figure				
		discard rate	36%	Discard rate ICES*	*STECF was 49%
		Contribution	55.3%	Beam trawl contrib to discards	
				7D+7E	
		dead discards	96%		
				max dead discards 96% STECF**	
			40.420/		
		Contr. to total dead discards	19.12%	3	
		dead discard deduction	2390.9		
		Total deduction	2391		
		New catch TAC	10117		
		TAC deduction % relative to ICES catch TAC	-19.12%		
	·				

36.1%

ICES

7d	total 9225.00			77%
7e	3283.00	2265.00	1018.00	23%
	12508.00	7987.00	4521.00	
7d assumptions ave 2015-2017 beam = 56% of lan		4521.00	2593.00 36% discards	
% of discards unkn	-	same as la	ndings	
beam = 71% of lan	dings and 53%	6 of discards	;	
56*0.77	43.12			
53*0.23	12.19			
	55.31			
36*0.77	27.72			
53*0.23	12.19			
	39.91			

<sup>\*\*</sup> ILVO report shows 20% survival for tows of 81-121 mins Improves to 40% for tows <81 mins unable to break down contribution of KW threshold in exemption therefor precautionary STECF 18-06 of 96% mortality as tows of >221 KW not limited in time

ICES data	Plaice PLE/7FG.
ICES Total catch TAC*	2160
ICES Wanted TAC	613
ICES Unwanted	1547

\*2018 TAC of 511t

Step 1 Deduct dead discards from ICES total ICES Total catch advice 2019 2160 Comments catch figure discard rate 72% Discard rate ICES advice 37.2% Beam trawl ICES Contribution 96% max dead discards 96% STECF\* dead discards Contr. to dead discards 25.57% <1% Trammel nets\*\*\* Contribution dead discards significant Contr. to total dead discards 25.57% dead discard deduction 552.3 **Total deduction** 552 New catch TAC 1608 TAC deduction % relative to ICES catch TAC -25.57%

71.6%

	wanted	unwanted			landings	discards
	30%	70%		2013	414	1274
2017 catches	389	895			411	1158
2017 advice	511	1289			381	1159
	28%	72%		2016	431	1002
			average		409.25	1148.25
2017 advice	613.2	1546.8	2160		26%	74%

<sup>\*\*</sup> ILVO report shows 20% survival for tows of 81-121 mins Improves to 40% for tows <81 mins unable to break down contribution of KW threshold in exemption therefor precautionary STECF 18-06 of 96% mortality as tows of >221 KW not limited in time

<sup>\*</sup> Catchpole 2015 CEFAS paper was Beam trawl 7e (inside 12nm)

<sup>\*\*\*</sup>not in ICES advice so used FDI 2017 but GT1 <1%

ICES data	COD/03AS
ICES Total catch TAC	494
ICES Wanted TAC	
ICES Unwanted	

Step 1	Deduct de minimis from	ICES Total catch advice 2019	494	Comments
	ICES total catch figure			
		de minimis A	4%	
				Nephrops trawls* (OTB TBN)
		Contribution	84%	16.6 t
		de minimis B		Northern Prawn trawls**
			==:	(OTB)
		Control to the	5%	
		Contribution	5%	1.2 t
		Contr. to total catches	3.6%	
		de minimis deduction	17.8	
			47.0	
		Total deduction	17.8	
		New catch TAC	476	
		TAC deduction % relative to ICES catch TAC	-3.61%	
			<u> </u>	

\* ≥70mm with grid max 35mm not available in ICES advice or 2017 FDI. JR contains data for only one MS

\*\* ≥35 mm mesh wth grid bar spacing max 19mm not available in ICES advice or 2017 FDI. JR contains data for only one MS

STECF 18-03 accepted data and tonnages

### Union Waters of 2a and 4

ICES data	Sole SOL/24-C.
ICES Total catch TAC	12801
ICES Wanted TAC	
ICES Unwanted	

Step 1	Deduct <i>de minimis from</i> ICES total catch figure	ICES Total catch advice 2019	12801	Comments	
		de minimis A	6%	de minimis amount	
		Contribution	68.7%		* < MCRS and Flemish panel for all relevant MS not available in 2017 FDI
				BT 2 Beam trawls*	or ICES or JR
		de minimis B	3%	de minimis amount	7
		Contribution	7.1%	Trammels and Gill nets	]
		Contr. to total catches	4.33%		
		de minimis deduction	554.4		
		Total deduction	554		
		New catch TAC	12247		
		TAC deduction % relative to ICES catch TAC	-4.33%		
		-			

2017 Fdi? Yes as ICES does not provide discards by gear, which are significant

No Area 2 or 2a data in FDI

IIA 3B2 = Division 4 codes: BT2

BT 2 Beam Trawls, 68.66% of 2013-16 average catches

Gill nets and Trammels 7.05% of 2013-16 average catches codes GN1, GT1

ICES data	Sole 7D
ICES Total catch TAC	2571
ICES Wanted TAC	2266
ICES Unwanted	305

Step 1	Deduct de minimis from ICES total catch	ICES Total catch advice 2019	2571	Comments
-	figure			
		de minimis A	3%	de minimis amount
		Contribution	43%	trammel and gillnet
				contribution ICES 43%
		de minimis B	3%	de minimis amount
		Contribution	39%	Beam Trawls contribution
				ICES 39%
		Contr. to total catches	2.46%	
		de minimis deduction	63.2	
		Total deduction	63	
		New catch TAC	2508	
		TAC deduction % relative to ICES catch TAC	-2.46%	

ICES data	Sole 7E
ICES Total catch TAC	1272
ICES Wanted TAC	1237
ICES Unwanted	35

Step 1 Deduct de minimis from	ICES Total catch advice 2019	1272	Comments
ICES total catch figure			
	de minimis A	3%	de minimis amount
	Contribution	11%	gillnet contribution ICES
			11.2%
	de minimis B	3%	de minimis amount
	Contribution	66%	Beam Trawls contribution
			ICES 66%
	Contr. to total catches	2.32%	
	de minimis deduction	29.5	
	Total deduction	29	
	New catch TAC	1243	
	TAC deduction % relative to ICES catch TAC	-2.32%	
			]

ICES data	Sole 7FG
ICES Total catch TAC	864
ICES Wanted TAC	820
ICES Unwanted	44

Step 1 Deduct de minimis from IC	TES total catch ICES Total catch advice 2019	864	Comments
figure			
	de minimis A	3%	de minimis amount
	Contribution	5%	trammel and gillnet
			contribution ICES "others"
			5%
	de minimis B	3%	de minimis amount
	Contribution	85%	Beam Trawls contribution
			ICES 85%
	Contr. to total catches	2.70%	
	de minimis deduction	23.3	
	Total deduction	23	
	New catch TAC	841	
	TAC deduction % relative to ICES catch TAC	-2.70%	
	·		

ICES data	Sole Bay of Biscay 8AB
ICES Total catch TAC	3967
ICES Wanted TAC	3872
ICES Unwanted	95

Step 1	Deduct de minimis from ICES total catch	ICES Total catch advice 2019	3967	Comments
	figure			
		de minimis A	3%	de minimis amount
		Contribution	68%	trammel and gillnet
				contribution ICES 68%
		de minimis B	5%	de minimis amount
		Contribution	32%	
				Beam Trawls and Bottom
				Trawls contribution ICES 32%
		Contr. to total catches	3.64%	
		de minimis deduction	144.4	
		Total deduction	144	
		New catch TAC	3823	
		TAC deduction % relative to ICES catch TAC	-3.64%	]

ICES data	Haddock HAD/7X7A34
ICES Total catch TAC	6317
ICES Wanted TAC	3761
ICES Unwanted	2556

Deduct <i>de minimis from</i> ICES total catch figure	ICES Total catch advice 2019	6317	Comments
	de minimis A Contribution		de minimis amount Bottom Trawls (ICES 80%
			catches)
	de minimis B	7%	de minimis amount
	Contribution	6%	Beam Trawls (ICES 6% catches)
	Contr. to total catches	6.02%	
	de minimis deduction	380.3	
	Total deduction	380	
	New catch TAC	5937	
	TAC deduction % relative to ICES catch TAC	-6.02%	
	•		

2017 Fdi? CEL 1 all areas similar % contrib to catches as ICES

NB. 80mm problem for aggregation = all TR2 +TR1 checked TR 3 = not significant

ICES 2017 catches = 16072 t				
	landings	Discards	total	as % of catches
Otter	6477.6	6459.75	12937.35	80%
Beam	404.85	638	1042.85	6%

ICES data	Northern Hake HKE/8ABDE
ICES Total catch TAC	53198
ICES Wanted TAC	
ICES Unwanted	

Deduct <i>de minimis</i> from ICES total catch figure	ICES Total catch advice 2019	53198	Comments
	de minimis A	6%	de minimis amount
	Contribution	34%	Trawls and Seines
	Contr. to total catches	2.03%	
	de minimis deduction	1080.1	
	Total deduction	1080	
	New catch TAC	52118	
	TAC deduction % relative to ICES catch TAC	-2.03%	

2017 Fdi? Yes as ICES does not provide gear by area 8 (Just N Stock as whole)

Trawls, beams seines 33.84 % of 2013-16 average catches

codes: BEAM, BOTTOM TRAWLS (no Seines recorded)

ICES data	Southern Hake HKE/8C3411
ICES Total catch TAC	8281
ICES Wanted TAC	7220
ICES Unwanted	1061

Step 1	Deduct de minimis from ICES	ICES Total catch advice 2019	8281	Comments
	total catch figure			
		de minimis A	6%	de minimis amount
		Contribution	64%	Trawls and seines FDI
				Average = 64% catches
		Contr. to total catches	3.84%	
		de minimis deduction	318.0	
		Total deduction	318	
		New catch TAC	7963	
		TAC deduction % relative to ICES catch TAC	-3.84%	

2017 Fdi? Yes as ICES does not provide Seines

IIB = 8c-9a

Trawls, beams seines 64% of 2013-16 average catches

Codes: 3A, BEAM, DEM\_SEINE, OTTER

ICES data	Mergrims LEZ/8ABDE
ICES Total catch TAC	1793
ICES Wanted TAC	
ICES Unwanted	

Step 1 Deduct de minimis from ICES total cata	h ICES Total catch advice 2019	1793	Comments
figure			
	de minimis A	5%	de minimis amount
	Contribution	99%	beam trawl, bottom trawls
			and seines
	de minimis B	4%	de minimis amount
	Contribution	1%	gillnets and trammels
	Contr. to total catches	4.99%	
	de minimis deduction	89.5	
	Total deduction	89	
	New catch TAC	1704	
	TAC deduction % relative to ICES catch TAC	-4.99%	
			]

2017 Fdi? Yes as ICES 7 and 8 combined

DS = area 8 EU

Trawls, beams seines 99 % of 2013-16 average catches

codes: BEAM, BOTTOM TRAWLS (no Seines recorded)

#### 8c 9 10 and cecaf 34.1.1

ICES data	Mergrims LEZ/8C3411
ICES Total catch TAC	1970
ICES Wanted TAC	
ICES Unwanted	

Step 1	Deduct de minimis from ICES total catch	ICES Total catch advice 2019	1970	Comments
·	figure			
		de minimis A	5%	de minimis amount
		Contribution	97.0%	
				beam trawl, bottom trawls
				and seines FDI = 97%
		de minimis B	4%	de minimis amount
		Contribution	2.5%	gillnets and trammels FDI =
				2.5%
		Contr. to total catches	4.95%	4
		de minimis deduction	97.5	
		Total deduction	98	
		New catch TAC	1872	
		TAC deduction % relative to ICES catch TAC	-4.95%	
	<u> </u>	•		1

2017 Fdi? Yes as ICES does not provide gear by area

IIB = 8c-9A

Trawls, beams seines 96.4 % of 2013-16 average catches

Ave total catch (all gears)= 1090 t

DS = area 9 EU

Trawls, beams seines 99 % of 2013-16 average catches

Ave total catch (all gears) = 413 t (no Seines recorded)

Codes: 3A, BEAM, DEM SEINE, OTTER

codes: BEAM, BOTTOM TRAWLS

Codes GILL, 3B, 3T

Relative ratios of IIB vs DS catches

96.4\*0.73 70.372 99\*0.27 26.73 sum 97.102

IIB = 8c-9A

Gillnets and trammels 3.48 % of 2013-16 average catches

Relative ratios of IIB vs DS catches

3.48\*0.73 2.5404

area 9 EU <1% n/a

ICES data	Anglerfish ANF/8ABDE
ICES Total catch TAC	8787
ICES Wanted TAC	
ICES Unwanted	

Step 1	Deduct <i>de minimis from ICES total catch</i>	ICES Total catch advice 2019	8787	Comments
_	figure			
	-	de minimis A	5%	de minimis amount
		Contribution	74%	beam trawl, bottom trawls
				and seines FDI
		de minimis B	4%	de minimis amount
		Contribution	25%	gillnets and trammels Fdi
		Contr. to total catches	4.73%	
		de minimis deduction	415.7	
		Total deduction	416	
		New catch TAC	8371	
		TAC deduction % relative to ICES catch TAC	-4.73%	

2017 Fdi? Yes as ICES 7 and 8 combined

DS = area 8 EU

Trawls, beams seines 74.37% of 2013-16 average catches

codes: BEAM, BOTTOM TRAWLS

(no Seines recorded)

Gillnets and Trammels 25.32% of 2013-16 average catches

Codes GILL, TRAMMEL

### 8c 9 10 and cecaf 34.1.1

ICES data	Anglerfish ANF/8C3411
ICES Total catch TAC	4215
ICES Wanted TAC	
ICES Unwanted	

Step 1 Deduct de min	imis from ICES total catch	ICES Total catch advice 2019	4215	Comments
figure				
		de minimis A	5%	de minimis amount
		Contribution	48.7%	beam trawl, bottom trawls
				and seines
		de minimis B	4%	de minimis amount
		Contribution	53.0%	gillnets and trammels FDI
		Contr. to total catches	4.55%	
		de minimis deduction	191.9	
		Total deduction	192	
		New catch TAC	4023	
		TAC deduction % relative to ICES catch TAC	-4.55%	
				Ţ

2017 Fdi? Yes as ICES does not provide gear by area

IIB = 8c-9A

DS = area 9 EU

Trawls, beams seines 46.54% of 2013-16 average catches

Ave total catch (all gears) = 2066t

gears) = 2066t (no seines)

Codes: 3A, BEAM, OTTER

(no Seines recorded)

Codes GILL, TRAMMEL

codes: BEAM, BOTTOM TRAWLS

Trawls, beams seines 54.89 % of 2013-16 average catches

Ave total catch (all gears) =720  $\,\mathrm{t}$ 

Relative ratios of IIB vs DS catches
46.54\*0.74 34.4396
54.89\*0.26 14.2714

sum 48.711

IIB = 8c-9A

Gillnets and trammels 52.27% of 2013-16 average catches Codes GILL, 3B, 3T

DS = area 9 EU

Gillnets and trammels 43.47% of 2013-16 average catches

Relative ratios of IIB vs DS catches

52.27\*0.74 38.6798 54.89\*0.26 14.2714 sum 52.9512

## Union Waters of 4

ICES data	Ling LIN/04-C.
ICES Total catch TAC	3843
ICES Wanted TAC	
ICES Unwanted	

Step 1	Deduct de minimis from ICES total catch	ICES Total catch advice 2019	3843	Comments
	figure			
		de minimis A	3%	de minimis amount
		Contribution	90.8%	trawls OTB OTT PTB = FDI
		Contr. to total catches	2.72%	
		de minimis deduction	104.6	
		Total deduction	105	
		New catch TAC	3738	
		TAC deduction % relative to ICES catch TAC	-2.72%	
		*		

2017 Fdi? Yes as ICES does not provide gear by area

#### Union Waters 4b, 4c and 7d

ICES data	Horse Mackerel JAX/4BC7D		
ICES Total catch	17517		
ICES Wanted TAC	15179		
ICES Unwanted	2338		

13.35%

Sten 1	Deduct de minimis from ICES total catch	ICES Total catch advice 2019	17517	Comments
Jiep 1	figure	TOLD TOTAL CATCH Advice 2015	17317	Comments
	NWW (7d)	de minimis A	7%	de minimis amount
		Contribution	37%	bottom trawls and seines
				and beam trawls FDI*
	NS (4)	de minimis B	1%	de minimis amount
		Contribution	0%	TR 2 bottom trawls (OTB,
				OTT, PTB, TBB) FDI**
	Pelagic (7d+4bc)	de minimis C	err!	de minimis amount
		Contribution	err!	≤25m Pelagic Trawlers
				(OTM/PTM) FDI***
		Contr. to total catches	13.35%	
		de minimis deduction	2338	
		Total deduction	2338	
		New catch TAC	15179	
		TAC deduction % relative to ICES catch TAC	-13.35%	
				1

2.58 451.2

2017 Fdi? Yes as ICES does not provide gear mesh

\* IIA 3B3 = Division 7d

Trawls, beams seines 41.34% of 2013-16 average catches

ICES % of 4b-c vs 7d average 2013-16

11:89

41.34\*0.89 = 36.7926

Codes: BT2, DEM\_SEINE, OTTER, TR1, TR2, TR3

16.7926

Codes: TR2

7d 4b-c 4a 2013 1453 17175 17 2604 10772 2015 782 8568 644 2016 1071 11110 1629 1477.5 11906.25 573 average

\*\* IIA 3B2 = Division 4
TR2 bottom Trawls % of 2013-16 average catches
<1% not sig. not include in calcs

\*\*\* 7d 1% of mackerel. Horsemackerel, herring and whiting in pelagic vessels of <25m, using OTM and PTM 4b and c 1% of mackerel, horse mackerel herring and whiting OTM/PTM <25m LOA This level of aggregation not available in FDI

Generates >5000 t deduction! Therefore deduction capped at ICES discard rate

ICES data	Horse Mackerel JAX08c	
ICES Total catch TAC 8c only	19850	
ICES Wanted TAC	18857	
ICES Unwanted	992	5% discards for 2017 in advice

Step 1	Deduct de minimis from ICES total catch	ICES Total catch advice 2019	19850	Comments
	figure			
		de minimis A	7%	de minimis amount
		Contribution	49%	beam trawl, bottom trawls
				and seines FDI 2013-16
				Average
		de minimis B	3%	de minimis amount
		Contribution	3%	
				Gill nets FDI 2013-16 Average
		de minimis C	Err!	de minimis amount
		Contribution	Err!	Pelagic discard plans
		Contr. to total catches	5.00%	
		de minimis deduction	992.0	
		Total deduction	992	
		New catch TAC	18858	1
		TAC deduction % relative to ICES catch TAC	-5.00%	
				1
			Ì	

2017 Fdi? Yes as ICES not seperating trawl and gillnet

IIB = 8c-9a

Gill nets 2.65% of 2013-16 average catches Codes GILL, 3B, 3T

Trawls, beams seines 49 % of 2013-16 average catches Codes: 3A, BEAM, DEM\_SEINE, OTTER

-3.51%

4% anchovy, mackerel, horse mackerel catches in area 8 using OTM IIB=8c-9a
Data is incomplete

5% 79033 3928

4% of horse mackerel, jack mackerel and mackerel in 8, 9 and 10 CECAF 34.1.1, 34.1.2, 34.2.0 Purse Seines (PS) IIB=8c-9a

2013-2016 average for PEL\_SEINE = 1016 t

however this is incomplete on discards

Union waters of 2a, 4a; 6, 7a-c,7e-k, 8a, 8b, 8d and 8e; Union and international waters of 5b; international waters of 12 and 14

ICES data	Horse Mackerel JAX2A-14
ICES Total catch	125387
ICES Wanted TAC	119118
ICES Unwanted	6269

Ston 1 SMAN Dade	luct de minimis from ICES total catch	ICES Total catch advice 2019	125207	Comments
figur	•	ICES TOTAL CALCIT AUVICE 2015	123387	Comments
Jigur		de minimis A	70/	de minimis amount
		Contribution	3%	
		Contribution		beam trawl, bottom trawls
				and seines FDI 2013-16 8a8b
				= 33.6*0.0817= 2.75
		de minimis B	3%	de minimis amount
		Contribution	0%	
				Gill nets FDI 2013-16
				Average 8a8b = 3.16*0.0817
		Contr. to total catches	0.20%	
		de minimis deduction	250.8	
Step 2 NWW Dedu	luct de minimis from ICES total catch	ICES Total catch advice 2019	0	Comments
figur	=			
		de minimis A	7%	de minimis amount
		Contribution	8%	
				beam trawl, bottom trawls
				and seines FDI 2013-16
		Contr. to total catches	0.53%	
		de minimis deduction	0.0	
		ICES Total catch advice 2019	0	Comments
figur				
		de minimis A		de minimis amount
		Contribution		TR2 Trawls only
		Contr. to total catches	0.00%	
		de minimis deduction	0.0	
		Total deduction	6360	
		New catch TAC	6269	
			119118	
		TAC deduction % relative to ICES catch TAC	-5.00%	
L				

4% anchovy, mackerel, horse mackerel catches in area 8 using OTM BOB = 8A and 8B PEL Trawl

4% of Ave 2013-16 catches = 615 t

For DS 8EU

4% of ave catches 13-16 for Pelagic Trawls =6773 t Cant differentiate out OTM vessels

4% of horse mackerel, jack mackerel and mackerel in 8, 9 and 10 CECAF 34.1.1, 34.1.2, 34.2.0 Purse Seines (PS) BOB= 8A and 8B

PEL SEINE

4% of Ave 2013-16 catches = 186 t

For DS 8EU Seine unavailable

FDI catches 2016

8068 2017 Fdi? Yes as ICES not seperating trawl and gillnet

54130 124712

ICES 2016 all west stock BOB 8A and 8B only available

Gill nets 3.16% of 2013 CODE GILL, TRAMMEL 98811

Trawls, beams seines : Code BEAM, DEM\_SEINE, OTTER

8.17% 8a8b =

Area 7a-c and 7e-k excl 7d FDI CEL 1 22.74% of catches

corrected for share

of TAC 7.5042

4a only <1% not significant , not included

ICES 4a vs 4b-c 0.28

251 t

2013 83684 165258 Before Pelagic 56081 136360 41063 98419 2016 35692 98811