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General Secretariat

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LIMITE

PECHE

WORKING PAPER

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INFORMATION

From:	General Secretariat of the Council
To:	Delegations
Subject:	Proposal for a Council Regulation fixing for 2020 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 (13438/19+ADD1, ADD2) - Calculation Tables for 2020 Discard Plan Exemptions and Deductions.

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

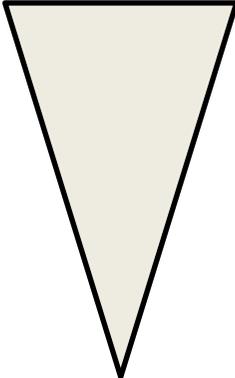
Proposal for Atlantic and North Sea Fishing Opportunities 2020 :

Calculation Tables for 2020 Discard Plan Exemptions and Deductions

24 October 2019

Generalised Exemption Wording and Structure

n% of Σ 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 relevant in combined deminimis (sum annual catches of several species)	ICES or STECF	
x	Area or ICES division	ICES advice	
y	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)	
c	80-100mm or >110mm etc...	FDI/STECF (if useable)	
d	using Grid or other special sorting device	? SEPCON Used?	

NS	10i	de minimis	plaice<MCRS	4	Nephrops trawls	80-99mm with SEPNEP	TR2 with SepNep	saithe, plaice, haddock, whiting, cod, Northern prawn, common sole and Norway lobster;				PLE/2A3AX4							
NS	10j	de minimis	All Species	4b and 4c	brown shrimp beam trawls	all	BT1 and BT2	all species				n/a							
NS	10k	de minimis	horse mackerel	4	bottom trawls (OTB, OTT, PTB, TBB)	80-99mm	TR2	7%				JAX/4BC7D	JAX/2A-14						
NS	10l	de minimis	Mackerel	4	bottom trawls (OTB, OTT, PTB, TBB)	80-99mm	TR3	7%				MAC/2A34							
NS	10m	de minimis	combined sprat, sandeel, norway pout and blue whiting	3a and 4	trawls and seines (OTB OTM OTT PTB PTM SDN SPR SSC TB TBN)	>80mm (Northern Prawn fishery+ also selectivity devices)	TR1 and TR2	combined sprat, sandeel, norway pout and blue whiting as 1% of all total annual catches in demersal fisheries and fishery Northern Prawn				?							
NS	10n	de minimis	ling<MCRS	4	long lines	LLS	LLS	3% Total Annual Catches of Ling in hake LLS fishery				LIN/04-C							
SWW	3	Survival	Nephrops	8 and 9	bottom trawls (OTB, OTT, PTB, TBN, TBS, TB, TBB, OT, PT and TX)	all	all												
SWW	4	Survival	Skates and Rays	8 and 9	all	all	all												
SWW	5	Survival	Red Seabream	9a (voracera) and 10 (hooks and lines)	9a (voracera) and 9a 8 and 10 (hooks and lines)	9a (voracera) and 9a 8 and 10 (hooks and lines)	9a (voracera) and 9a 8 and 10 (hooks and lines)												
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	5%				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	6d	de minimis	Alfonsinos	10	hooks and lines (gear codes: LHP, LHM, LLS, LLD)			5%				DS							
SWW	6e	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	6f	de minimis	Horse Mackerel	8, 9 and 10 and and CEECAF 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	NB delegated TACs? Demersal trawls in those areas unlikely?	

2020 Deductions			
TAC	Pre-deduction	Deduction (rounded) %	COM Proposed TAC
Plaice PLE/03AS	1607	-29.00%	1141
Plaice PLE/07A.	3299	-15.42%	2790
Plaice PLE/7DE.	11529	-20.60%	9154
Plaice PLE/7FG.	2295	-12.71%	2003
Sole SOL/3ABC24	539	-1.15%	533
Sole 7FG	1559	-2.02%	1528
Sole Bay of Biscay 8AB	3768	-2.71%	3666
Haddock HAD/7X7A34	11418	-4.90%	10859
Northern Hake HKE/8ABDE	42235	-1.65%	41538
Southern Hake HKE/8C3411	7406	-2.66%	7209
Megrims LEZ/07.	19093	-1.89%	18732
Megrims LEZ/8ABDE	1888	-4.98%	1794
Megrims LEZ/8C3411	2176	-4.00%	2089
Anglerfish ANF/8ABDE	9458	-4.76%	9008
Anglerfish ANF/8C3411	4196	-4.12%	4023
Whiting WHG/08.	2276	-3.22%	2203
Horse Mackerel JAX/4BC7D	14014	-1.79%	13763
Horse Mackerel JAX08c	11474	-2.57%	11179
Horse Mackerel JAX2A-14	72480	-2.57%	70617
Turbot TB/2AC4-C	6208	-5.34%	5876

ICES data	Sole Bay of Biscay 8AB
ICES Total catch TAC	3768
ICES Wanted TAC	3645
ICES Unwanted	123

Step 1	Deduct <i>de minimis</i> from ICES total catch figure	TAC before deductions	3768	Comments
		<i>de minimis</i> A Contribution (article 6b)	5% 23%	<i>de minimis</i> amount Beam Trawls and Bottom Trawls contribution
		<i>de minimis</i> B Contribution (article 6c)	3% 51%	<i>de minimis</i> amount trammel and gillnet contribution
		Contr. to total catches	2.71%	
		<i>de minimis</i> deduction	102.0	
		Total deduction *	102	
		Proposed TAC	3666	
		TAC deduction % relative to ICES catch TAC	-2.71%	

2018 catches

		landings	discards	coverage	raised discards	catches
Art 6b	8a	270.9	4.25	10.87%	39.10	310.00
	8b	451.4	38.27	58.80%	65.09	516.49
	sum	722.3	42.52	0.6967	104.18347	826.48
Art 6c	8a	1301.9	not provided	unknown	n/a	?
	8b	1535.1	38	17%	223.529412	1796.799
	Total estimated discards in t				327.71	2623.28

reported 2018 quota	3467.33	proportion	
2019 FDI			
Total landings	3476.20		
Total discards	42.50		
Total catches	3518.70		
6b catches	826.48	23.49%	
6c catches	1796.80	51.06%	
	2623.28		

ICES data	Southern Hake HKE/8C3411	Relevant Articles:
MSY Upper	7406	
ICES Total catch TAC	6615	
ICES Wanted TAC	5679	
ICES Unwanted	936	

Step 1	Deduct <i>de minimis</i> from ICES total catch figure	TAC before deductions	7406	Comments
		<i>de minimis</i>	5%	de minimis amount
		<i>Contribution (Art. 6a)</i>	53.27%	Trawls and seines
		Contr. to total catches	2.66%	
		de minimis deduction	197.3	
		Total deduction	197	
		Proposed TAC	7209	
		TAC deduction % relative to ICES catch TAC	-2.66%	

		2018 catches (declared)		8267.234			
		landings	discards	coverage	raised disc: catches	2018 discard rate	
Art 6a	8c	2077.59	1349.68	99.94%	1350.49	3428.08	39.39%
	9a	1832.36	579.44	99.30%	583.52	2415.88	24.15%
	sum	3909.95	1929.12		1934.01	5843.96	33.09%

reported 2018 quota	8267.23	proportion	
2019 FDI			
Total landings	8141.71		
Total raised discards	2828.90		
Total catches	10970.61		
6a catches	5843.96		53.27%

ICES data	Northern Hake HKE/SABDE
MSY Upper	42235
ICES Total catch TAC	39181
ICES Wanted TAC	
ICES Unwanted	

Relevant Articles:

Step 1	Deduct <i>de minimis</i> from ICES total catch figure	TAC before deductions	42235	Comments
		<i>de minimis</i> Art.6a Contribution	5% 32.99%	<i>de minimis</i> amount Trawls and Seines
		Contr. to total catches <i>de minimis</i> deduction	1.65% 696.6	
		Total deduction	697	
		Proposed TAC	41538	
		TAC deduction % relative to ICES catch TAC	-1.65%	

2018 catches (declared) 25304.69

		landings	discards	coverage	raised disc	catches	2018 discard rate
Art 6a	8a	3056.7	499.79	51.82%	964.47	4021.17	23.98%
	8b	4300.1	662.18	79.77%	830.11	5130.21	16.18%
	8d	95.2	3.69	65%	5.65	100.85	5.60%
	sum	7356.80	1161.97		1794.58	9151.38	19.61%

exempted fleet contribution to catches from 2018 data (2019 FDI)
36.16%

reported 2018 quota	25304.69	proportion
2019 FDI		
Total landings	25759.70	
Total raised discards	1981.98	
Total catches	27741.68	
6a catches	9151.38	32.99%

ICES data	Megrims LEZ/07.
ICES Total catch TAC	19093
ICES Wanted TAC	
ICES Unwanted	

Relevant Articles:

Step 1	Deduct <i>de minimis</i> from ICES total catch figure	TAC before deductions	19093	Comments
		<i>de minimis 8h Contribution</i>	5% 37.86%	<i>de minimis</i> amount Exempted vessels contribution to catches from FDI 2019
		Contr. to total catches <i>de minimis</i> deduction	1.89% 361.4	
		Total deduction	361	
		Proposed TAC	18732	
		TAC deduction % relative to ICES catch TAC	-1.89%	

reported 2018	10939.52	proportion
Total landings all 7	10924.60	
raised discards all 7	1094.90	
total catches all 7	12019.50	

Landings Art 8h	4266.83	
Discards Art 8h	284.25	
catches Art 8h	4551.08	37.86%

ICES data	Mergrims LEZ/8ABDE
ICES Total catch TAC	1888
ICES Wanted TAC	
ICES Unwanted	

Relevant Articles:

Step 1	Deduct <i>de minimis</i> from ICES total catch figure			Comments
		TAC before deductions	1888	
		<i>de minimis</i> 6i Contribution	5%	<i>de minimis</i> amount
			99%	beam trawl, bottom trawls and seines
		<i>de minimis</i> 6j Contribution	4%	<i>de minimis</i> amount
			1%	gillnets and trammels
		Contr. to total catches	4.98%	
		<i>de minimis</i> deduction	94.0	
		Total deduction	94	
		Proposed TAC	1794	
		TAC deduction % relative to ICES catch TAC	-4.98%	

reported 2018 quota	1224.87		
2019 FDI			
Total landings	1968.17		
Total raised discards	154.82		
Total catches	2122.99		
6i catches	2092.06	98.54%	
6j catches	26.56	1.25%	

8c 9 10 and cecaf 34.1.1

ICES data	Mergrims LEZ/8C3411
ICES Total catch TAC	2176
ICES Wanted TAC	
ICES Unwanted	

Relevant Articles:

Step 1	Deduct <i>de minimis</i> from ICES total catch figure			Comments
		TAC before deductions	2176	
		<i>de minimis</i> 6i Contribution	5% 78.9%	de minimis amount beam trawl, bottom trawls and seines
		<i>de minimis</i> 6j Contribution	4% 1.4%	de minimis amount gillnets and trammels
		Contr. to total catches	4.00%	
		<i>de minimis</i> deduction	87.1	
		Total deduction	87	
		Proposed TAC	2089	
		TAC deduction % relative to ICES catch TAC	-4.00%	

reported 2018 quota	939		
2019 FDI			
Total landings	935.479		
Total raised discards	397.8921		
Total catches	1333.3711		
6i catches	1051.97	78.90%	
6j catches	18.5	1.39%	

ICES data	Anglerfish ANF/8ABDE
ICES Total catch TAC	9458
ICES Wanted TAC	
ICES Unwanted	

Relevant Articles:

Step 1	Deduct <i>de minimis</i> from ICES total catch figure			Comments
		TAC before deductions	9458	
		<i>de minimis</i> 6m Contribution	5%	<i>de minimis</i> amount
			77%	beam trawl, bottom trawls and seines
		<i>de minimis</i> 6n Contribution	4%	<i>de minimis</i> amount
			23%	gillnets and trammels
		Contr. to total catches	4.76%	
		<i>de minimis</i> deduction	449.8	
		Total deduction	450	
		Proposed TAC	9008	
		TAC deduction % relative to ICES catch TAC	-4.76%	

reported 2018 quota	6603.26	
2019 FDI		
Total landings	6788.2491	
Total raised discards	18.091	
Total catches	6806.3401	
6m catches	5217.829	76.66%
6n catches	1570	23.07%

8c 9 10 and cecaf 34.1.1

ICES data	Anglerfish ANF/8C3411
ICES Total catch TAC	4196
ICES Wanted TAC	
ICES Unwanted	

Relevant Articles:

Step 1	Deduct <i>de minimis</i> from ICES total catch figure			Comments
		TAC before deductions	4196	
		<i>de minimis 6m</i> Contribution	5% 39.8%	<i>de minimis</i> amount beam trawl, bottom trawls and seines
		<i>de minimis 6n</i> Contribution	4% 53.3%	<i>de minimis</i> amount gillnets and trammels FDI
		Contr. to total catches	4.12%	
		<i>de minimis</i> deduction	173.0	
		Total deduction	173	
		Proposed TAC	4023	
		TAC deduction % relative to ICES catch TAC	-4.12%	

reported 2018 quota	2001.45	proportion	
2019 FDI			
Total landings	1922.00		
Total raised discards	105.71		
Total catches	2027.71		
6m catches	807.37		39.82%
6n catches	1080.36		53.28%

ICES data	Whiting WHG/08.
ICES Total catch TAC	2276
ICES Wanted TAC	1593
ICES Unwanted	683

Relevant Articles:

Step 1	Deduct <i>de minimis</i> from ICES total catch figure			Comments
		TAC before deductions	2276	
		<i>de minimis</i> 6o Contribution	5% 33.99%	<i>de minimis</i> amount beam trawl, bottom trawls and seines
		<i>de minimis</i> 6p Contribution	4% 38.03%	<i>de minimis</i> amount gillnets and trammels FDI
		Contr. to total catches	3.22%	
		<i>de minimis</i> deduction	73.3	
		Total deduction	73	
		Proposed TAC	2203	
		TAC deduction % relative to ICES catch TAC	-3.22%	

reported 2018 quota 2019 FDI	proportion	
Total landings	1547.42	
Total raised discards	1329.50	
Total catches	2876.92	
6o catches	977.96	33.99%
6p catches	1094.15	38.03%
	2072.10	

7b-k, 8, 9 and 10; Union waters of CECAF 34.1.1

ICES data	Haddock HAD/7X7A34
ICES MSY lower	11418
ICES Total catch TAC	
ICES Wanted TAC	
ICES Unwanted	

Relevant Articles:

Step 1	Deduct <i>de minimis</i> from ICES total catch figure			Comments
		TAC before deductions	11418	
		<i>de minimis</i> 8d Contribution	5% 98%	de minimis amount Bottom Trawls Seines and beam trawls 2019 ICES Table 8*
		Contr. to total catches <i>de minimis</i> deduction	4.90% 559.5	
		Total deduction	559	
		Proposed TAC	10859	
		TAC deduction % relative to ICES catch TAC	-4.90%	

	t	%
* ICES		
Gill nets	213.27	3%
removed from total catches	12331.73	98%
total catches	12545	

Reported 2018 Catches 12886.42 proportion
 2019 FDI 7b-k
 Total landings 6609.2501
 Total discards 12039.30281
 Total catches 18648.55
 Art 8d catches 18793.14

100.78% <--- ! use ICES fleet / catches

ICES data	Sole 7FG
ICES Total catch TAC	1559
ICES Wanted TAC	
ICES Unwanted	

Relevant Articles:

Step 1	Deduct <i>de minimis</i> from ICES total catch figure			Comments
		TAC before deductions	1559	
		<i>de minimis 8b</i>	3%	de minimis amount
		<i>Contribution</i>	0.31%	
		<i>de minimis 8c</i>	3%	de minimis amount
		<i>Contribution</i>	67.08%	Beam Trawls contribution FDI 2019
		Contr. to total catches	2.02%	
		de minimis deduction	31.5	
		Total deduction	32	
		Proposed TAC	1527	
		TAC deduction % relative to ICES catch TAC	-2.02%	

2019 FDI		proportion	
Total landings 7f	494.11		
Total discards	42.55		
coverage	90.46%		
raised discards	47.04		
total catches	541.15		
Total landings 7g	356.62		
Total discards	28.95		
coverage	70.74%		
raised discards	40.92		
total catches	397.54		
Total Catches 7fg	938.69		
catches Art 8b	2.90		0.31%
catches Art 8c	629.71		67.08%

ICES data	Turbot (and Brill) T/B/2AC4-C
ICES Total catch Turbot only	3649
ICES Wanted	3138
ICES Unwanted	511

Article 8

Step 1	Deduct dead discards from ICES total catch figure			Comments
		(Turbot component)	3649	
		(Brill component)	2559	
		TAC before deductions (Turbot+Brill)	6208	
		Contribution to catches	94.02%	Beam trawl FDI 2019
		discard rate	12.07%	Discard rate FDI 2018
		dead discards	80%	dead discards 80%**
		Contr. to dead discards	9.08%	
		Contr. to total dead discards	9.08%	
		dead discard deduction	331.3	
		New Turbot part of TAC	3318	
		Addition of Brill component	2559	
		Proposed TAC	5876	
		TAC deduction % relative to ICES catch TAC	-5.34%	

**From North Sea Joint recommendation
No data on distribution of survival range?
Most cases will be closer to 20 or 43%?
30% was for pulse trawls - not beam

2018 ICES Turbot catches		3626	
2018 ICES Turbot landings	3140		
2018 ICES Turbot discards		486 <-- all gears (not just beams)	20-43% survival
discard rate		13% <-- all gears (not just beams)	80-57% dead discards
2019 Fdi		proportion	
Total Turbot landings		3160.44	
Total Turbot discards		397.19	
Total Turbot catches		3557.63	
landings Art.8 exemption		2941.09	
discards Art.8 exemption		403.69	12.07%
catches Art.8 exemption		3344.78	94.02%

ICES data	Plaice PLE/7DE
ICES Total catch TAC*	11529
ICES Wanted TAC	6419
ICES Unwanted	

7d
9073
4697

7e
2456
1722

Step 1	Deduct dead discards from ICES total catch figure	TAC before deductions	11529	Comments	
	Article 6.1.a ->	Contribution		Trammel contrib to catches	
		discard rate	5%	7D+7E	
		dead discards	34.8%	discard rate	
		Contr. to total dead discards	51%	dead discards	
			Contr. to total dead discards	0.90%	
			dead discard deduction	104.1	
	Article 6.1.b->	Contribution		35%	Otter trawls contrib to catches
		discard rate		38.9%	7D+7E
		dead discards		36%	discard rate
		Contr. to total dead discards		4.93%	dead discards
			dead discard deduction	568.6	
	Article 6.1.c and d ->	Contribution		48%	Beam Trawls contrib to catches
discard rate			35.5%	7D+7E	
dead discards			87%	discard rate	
Contr. to total dead discards			14.77%	dead discards 87%**	
		dead discard deduction	1702.3		
Article 6.1.e->	Contribution		n/a	Danish Seines contrib to catches 7D+7E is 42t therfore not significant and not used	
	discard rate		n/a		
	dead discards		n/a		
	Contr. to total dead discards		n/a		
		dead discard deduction	n/a		
		SUM dead discard deduction	2375.0		
		Total deduction	2375		
		Proposed TAC	9154		
		TAC deduction % relative to ICES catch TAC	-20.60%		

** 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 93% mortality as tows of >221 KW
not limited in time

ILVO report page 15, 50% of fleet survival 12-35%,
corresponds to 19% in other studies. Therefore
20% survival 80% dead discard for 50% fleet. Other
50% at STECF max range of 93%

93 % fleet
80 50% fleet
86.5 average

STECF / FDI 2019 unable to calculate Art. 6 c and d as no data available at appropriate level of disaggregation
ICES 7d - unwanted catches not disaggregated

ICES 2018 TOTAL CATCHES 7DE 8960
ICES 2018 TOTAL DISCARDS 7DE

2018 FIXED NETS catches ICES

	landings	discards	catches	as % of total catch (all gears)
7d assumptions*	214.92		153.68	368.60 5%
7e assumptions	82.20		4.90	87.10 4%
7de	297.12		158.58	455.70 5%

* assumes same proportion of discards as landings

ICES 2018 landings 7de	297.12			
ICES 2018 discards 7de	158.58		35% <- discard rate (of this gear)	
ICES 2018 Catches 7de	455.70		5% <- of Total catches (all gears)	

2018 OTTER trawl catches ICES

	landings	discards	catches	as % of total catch (all gears)
7d assumptions*	1552.20		1109.94	2662.14 39%
7e assumptions	378.12		117.60	495.72 23%
7de	1930.32		1227.54	3157.86 35%

* assumes same proportion of discards as landings

ICES 2018 landings 7de	1930.32			
ICES 2018 discards 7de	1227.54		39% <- discard rate (of this gear)	
ICES 2018 Catches 7de	3157.86		35% <- of Total catches (all gears)	

2018 beam trawl catches ICES

	landings	discards	catches	as % of total catch (all gears)
7d assumptions*	1631.80		1166.86	2798.66 41%
7e assumptions	1150.80		362.60	1513.40 71%
7de	2782.60		1529.46	4312.06 48%

* assumes same proportion of discards as landings

ICES 2018 landings 7de	2782.60			
ICES 2018 discards 7de	1529.46		35% <- discard rate (of this gear)	
ICES 2018 Catches 7de	4312.06		48% <- of Total catches (all gears)	

2018 "other gears" catches ICES

	landings	discards	catches	as % of total catch (all gears)
7d assumptions*	581.08		415.52	996.60 15%
7e assumptions	32.88		9.80	42.68 2%
7de	613.96		425.32	1039.28 12%

* assumes same proportion of discards as landings

ICES 2018 landings 7de	613.96			
ICES 2018 discards 7de	425.32			
ICES 2018 Catches 7de	1039.28		12% <- of Total catches (all gears)	

ICES data	Plaice PLE/7FG.
ICES Total catch TAC*	2295
ICES Wanted TAC	
ICES Unwanted	

Step 1	Deduct dead discards from ICES total catch figure	TAC before deductions	2295	Comments
	Article 6.1.a ->	Contribution	n/a	Trammel contrib to catches not applicable <1% discard rate dead discards
		discard rate	n/a	
		dead discards	n/a	
		Contr. to total dead discards dead discard deduction	n/a n/a	
	Article 6.1.b->	Contribution	29%	Otter trawls contrib to catches discard rate dead discards
		discard rate	35.3%	
		dead discards	36%	
		Contr. to total dead discards dead discard deduction	3.74% 85.7	
	Article 6.1.c and d ->	Contribution	34%	Beam Trawls contrib to catches discard rate dead discards 87%**
		discard rate	30.1%	
		dead discards	87%	
		Contr. to total dead discards dead discard deduction	8.98% 206.0	
SUM dead discard deduction			291.8	
Total deduction			292	
Proposed TAC			2003	
TAC deduction % relative to ICES catch TAC			-12.71%	

** 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 93% mortality as tows of >221 KW not limited in
time

ILVO report page 15, 50% of fleet survival 12-35%,
corresponds to 19% in other studies. Therefore 20%
survival 80% dead discard for 50% fleet. Other 50%
at STECF max range of 93%

93 % fleet
80 50% fleet
86.5 average

STECF / FDI 2019 unable to calculate Art. 6 c and d as no data available at appropriate level of disaggregation

ICES 2018 TOTAL CATCHES 7FG 930

2018 OTTER trawl catches ICES	landings	discards	catches
7fg	177.24	96.52	273.76

* assumes same proportion of discards as landings

ICES 2018 landings 7de	177.24	
ICES 2018 discards 7de	96.52	35% <- discard rate (of this gear)
ICES 2018 Catches 7de	273.76	29% <- of Total catches (all gears)

2018 beam trawl catches ICES	landings	discards	catches
7fg	223.66	96.52	320.18

* assumes same proportion of discards as landings

ICES 2018 landings 7de	223.66	
ICES 2018 discards 7de	96.52	30% <- discard rate (of this gear)
ICES 2018 Catches 7de	320.18	34% <- of Total catches (all gears)

ICES data	Plaice PLE/07A.	Relevant Articles:
ICES Total catch TAC*	3299	3299
ICES Wanted TAC	1931	Not like nephrops, not higher
ICES Unwanted	1368	SD+DD Together 40:60

*2018 TAC of 1793t

Step 1	Deduct dead discards from ICES total catch figure			Comments
		TAC before deductions	3299	
		<i>Contribution (% of Catches)</i>	43.0%	Beam trawl ICES
		<i>discard rate</i>	60%	Discard rate of Beam trawls ICES
		<i>dead discards</i>	60%	max dead discards 60% in ICES assumptions in forecast
		Contr. to total dead discards	15.42%	
		dead discard deduction	508.7	
		Total deduction	509	
		Proposed TAC	2790	
		TAC deduction % relative to ICES catch TAC	-15.42%	

<- similar to % Table 8 in ICES advice

From ICES

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

STECF / FDI 2019 unable to calculate Art. 6 c and d as no data available at appropriate level of disaggregation

ICES:	Proportion	
Catch all gears	830	
landings beam trawls	143.55	
discards beam trawls	213.3	60% <- discard rate (of this gear)
total catches beam trawls	356.85	43% <- of Total catches (all gears)

ICES data	Horse Mackerel JAX08c
ICES Total catch TAC 8c only	11474
ICES Wanted TAC	
ICES Unwanted	

Relevant Articles:

Step 1	Deduct <i>de minimis</i> from ICES total catch figure		11474	Comments
		TAC before deductions		
				de minimis amount
				beam trawl, bottom trawls and seines
				de minimis amount
				Gill nets
		<i>de minimis</i> C	Err!	de minimis amount
		<i>Contribution</i>	Err!	Pelagic discard plans
		Contr. to total catches	2.57%	
		de minimis deduction	294.4	
		Total deduction	294	
		Proposed TAC	11180	
		TAC deduction % relative to ICES catch TAC	-2.57%	

* Insufficient data provided to STECF data call therefore ICES 2018 discard rate used

NB. No data provided for pelagic vessels

ICES advice:

landings	99072	
discards	2609	
catches	101681	2.57%

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	72480
ICES Wanted TAC	
ICES Unwanted	

Step 1 SWW	Deduct de minimis from ICES total catch figure	TAC before deductions	72480	Comments
				de minimis amount
				beam trawl, bottom trawls and seines
				de minimis amount
Step 2 NWW	Deduct de minimis from ICES total catch figure			Comments
				de minimis amount
				beam trawl, bottom trawls and seines
Step 3 NS	Deduct de minimis from ICES total catch figure			Comments
				de minimis amount
				TR2 Trawls only
Step 4 Pelagic		<i>de minimis C Contribution</i>	Err!	de minimis amount
			Err!	Pelagic discard plans
TOTAL		Contr. to total catches de minimis deduction	2.57% 1859.7	TOTAL*
		Total deduction	1860	
		Proposed TAC	70620	
		TAC deduction % relative to ICES catch TAC	-2.57%	

* Insufficient data provided to STECF data call therefore ICES 2018 discard rate used

NB. No data provided for pelagic vessels

ICES 2018

Total Catch 101682

landings 99072

discards 2609

discard rate 2.57%

Union Waters 4b, 4c and 7d

ICES data	Horse Mackerel JAX/4BC7D
ICES Total catch	14014
ICES Wanted TAC	
ICES Unwanted	

Step 1	Deduct <i>de minimis</i> from ICES total catch figure	TAC before deductions	14014	Comments
		Contr. to total catches <i>de minimis</i> deduction	1.79% 251	
		Total deduction	251	
		Proposed TAC	13763	
		TAC deduction % relative to ICES catch TAC	-1.79%	

*** Insufficient data provided to STECF data call therefore ICES 2018 discard rate used**

NB. No data provided for pelagic vessels

ICES 2018

Total Catch 14773

landings 14508

discards 265

discard rate 1.79%

3a Union waters of Sub divisions 22-24

ICES data	Sole SOL/3A/BC24
ICES Total catch TAC	539
ICES Wanted TAC	
ICES Unwanted	

Relevant Articles:

Step 1	Deduct <i>de minimis</i> from ICES total catch figure		539	Comments
		TAC before deductions		
		<i>de minimis</i> A	4%	Nephrops trawls* (OTB TBN)
		Contribution	3%	
		<i>de minimis</i> B	5%	Northern Prawn trawls** (OTB)
		Contribution	1%	
		<i>de minimis</i> C	3%	<i>de minimis</i> amount
		Contribution	33%	Trammels and Gill nets
		Contr. to total catches	1.2%	
		<i>de minimis</i> deduction	6.2	
		Total deduction	6	
		Proposed TAC	533	
		TAC deduction % relative to ICES catch TAC	-1.15%	

* ≥70mm with grid max 35mm from STECF 18-06 and NS JR

** ≥35 mm mesh wth grid bar spacing max 19mm from STECF 18-06 and NS JR

FDI 2019		
landings	366.7	
discards	9.524686	
catches	376.2247	
exemption	123.4	33%

NB Provisional figures as uses 2017 data at this time - subject to update by nonpaper

ICES data	Plaice 03AS
ICES Total catch TAC	1607
ICES Wanted TAC	
ICES Unwanted	

Relevant Articles:
10d (Pandulus)

Step 1	Deduct <i>de minimis</i> from ICES total catch figure	TAC before deductions	1607	Comments
		<i>de minimis</i> B		Northern Prawn trawls** (OTB)
		Contribution	5%	
		Contribution	0%	Art 6.1
		Contr. to total catches	29%	
		<i>de minimis</i> deduction	466.0	ICES Discard rate*
		Total deduction	466	
		Proposed TAC	1141	
		TAC deduction % relative to ICES catch TAC	-29.00%	

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

6.1.c survival 8-44%
22-54% discards

* ICES discard rate used at this time - provisional and subject to change

ICES 2018 Catches	4846	
ICES 2018 Landings	3459	
ICES 2018 Discards	1387	29%