



CONSEIL CONSULTATIF POUR  
LES EAUX OCCIDENTALES  
SEPTENTRIONALES

NORTH WESTERN  
WATERS  
ADVISORY COUNCIL

CONSEJO CONSULTIVO PARA  
LAS AGUAS  
NOROCCIDENTALES

## **NWWAC ADVICE**

### **Addressing Choke Risk in NWW after exemptions**

**22 November 2022**

## **ANNEX - choke analysis via Choke Mitigation Tool**

PLEASE NOTE THAT THE DISCARD RATE USED FOR THE ANALYSIS  
IN THE FOLLOWING SHEETS IS AN AVERAGE VALUE

<b>HAD/7X7A34</b>	Haddock / VIIb-k, VIII, IX and X; Union waters of CECAF 34.1.1 / Celtic Sea	<b>Ireland</b>	<b>2021</b>	Level of Risk Advice 2017 for TAC 2018	Level of Risk Advice 2018 for TAC 2019	Level of Risk Advice 2019 for TAC 2020	Level of Risk Advice 2020 for TAC 2021	Level of Risk Advice 2021 for TAC 2022	Predicted choke risk 2023
				<b>High</b>	<b>High</b>	<b>High</b>	<b>High</b>	<b>Moderate</b>	<b>High</b>

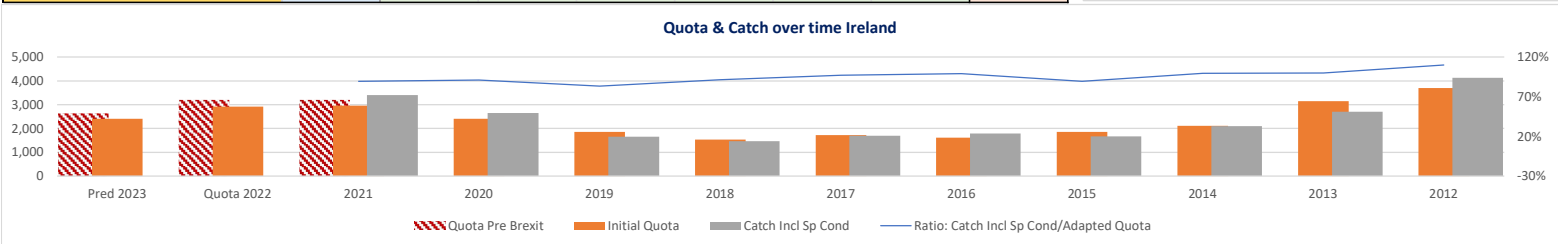
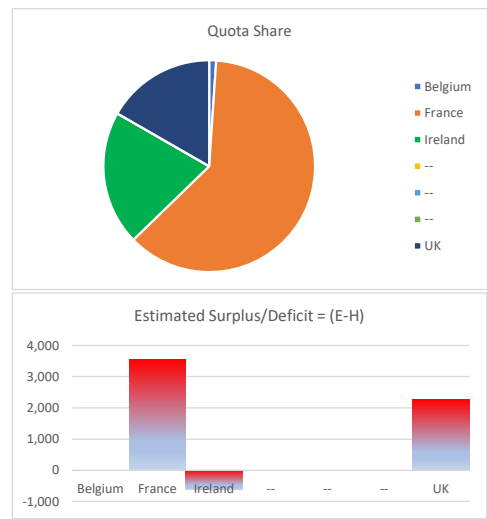
<b>HAGUE AGREEMENT</b>			
Hague Applies			
HAGUE Applies to:	UK & IRELAND		
Ireland's Hague Preference	1,361	Ir Hague Applied	1
UK's Hague Preference	20	UK Hague Applied	0
Union Share	100%		

<b>TRADE AND COOPERATION AGREEMENT</b>							
TABLE	TCA	UK2020	UK2021	UK2022	UK2023	UK2024	UK2025
Fish 1	UK Increase	10.00%	16.00%	17.00%	18.00%	19.20%	20.00%
<b>ICES ADVICE FOR THE COMING YEAR</b>							
ICES Advice 2022 for TAC 2023				TAC advice ≤ 11901			

Member State	KEY 2020	QUOTA 2020	Calculated	Diff	QUOTA 2021	Pre Brexit	Post Brexit	QUOTA 2022	Pre Brexit	Post Brexit	QUOTA 2023	Pre Brexit	Post Brexit
Belgium	1.1%	121	121	0	148	160	148	146	160	146	0	133	121
France	66.7%	7,239	7,239	0	8,876	9,588	8,876	8,762	9,585	8,761	0	7,934	7,228
Ireland	22.2%	2,413	2,413	0	2,959	3,196	2,959	2,920	3,195	2,920	0	2,645	2,409
EU		10,859			11,983			11,828			0		
UK	10.0%	1,086	1,086	0	2,400	1,438	2,400	2,550	1,438	2,550	0	1,190	2,142
LO	0.0%	0	0	0	617	617	617	622	622	622	0	0	0
TAC		10,859			15,000			15,000			11,901		
<b>TOTAL</b>			10,859			15,000	15,000		15,000	15,000		11,901	11,901

EU Brexit losses	-962	13,562	12,600	-1,112	13,562	12,450	-952	10,711	9,759
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	EU	Belgium	France	Ireland	--	--	--	UK
<b>2021</b>								
EU Quota	11,983							
Quota Share	100%	1%	74%	25%				20%
Initial Quota	14,383	148	8,876	2,959				2,400
Difference (Adapted - Initial)	996	38	235	847				-123
Adapted Quota	15,379	186	9,111	3,806				2,277
Catch	7,837	153	4,281	3,403				0
Catch/Initial Quota = F/C	54.5%	103.3%	48.2%	115.0%				0.0%
Catch/Adapted Quota = F/E	51.0%	82.3%	47.0%	89.4%				0.0%
<b>Discard Estimate (%)</b>	<b>30%</b>	<<<< Enter the known or predicted level of unwanted catch here and see impact below						
Discards	2,351	46	1,284	1,021				0
Total catch (F+G)	10,188	199	5,565	4,424				0
Total catch (F+G)/Initial Quota = H/C	70.8%	134.2%	62.7%	149.5%				0%
Total catch (F+G)/Adapted Quota = H/E	66.2%	106.9%	61.1%	116.3%				0%
Estimated Surplus/Deficit = (E-H)	5,191	-13	3,545	-618				2,277
Estimated Surplus/Deficit %	33.8%	-6.9%	38.9%	-16.3%				100%



Quota & Catch over time	Ireland	Pred 2023	Quota 2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
<b>Quota Pre Brexit</b>		<b>2,645</b>	<b>3,195</b>	<b>3,196</b>									
Initial Quota		2,409	2,920	2,959	2,413	1,851	1,536	1,722	1,613	1,854	2,106	3,144	3,699
Adapted Quota % Change				29%	21%	7%	3%	1%	12%	0%	0%	-14%	1%
Adapted Quota	2,424			3,806	2,918	1,984	1,588	1,732	1,799	1,862	2,106	2,697	3,745
Catch Incl Sp Cond	2,322			3,403	2,652	1,651	1,455	1,684	1,785	1,663	2,097	2,699	4,126
Ratio: Catch Incl Sp Cond/Adapted Quota	96%			89.4%	90.9%	83.2%	91.7%	97.2%	99.2%	89.3%	99.6%	100.1%	110.2%

WHG/7X7A-C	Whiting / VIIB, VIIC, VIID, VILE, VIIF, VIIG, VIH, VIJ and VIK / Celtic Sea	Ireland	2021	Level of Risk Advice 2017 for TAC 2018	Level of Risk Advice 2018 for TAC 2019	Level of Risk Advice 2019 for TAC 2020	Level of Risk Advice 2020 for TAC 2021	Level of Risk Advice 2021 for TAC 2022	Predicted choke risk 2023
				High	Moderate	Moderate	High	High	High

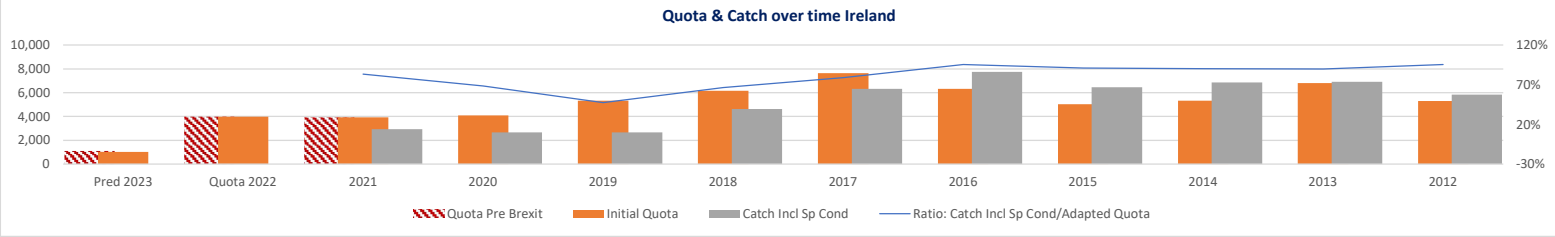
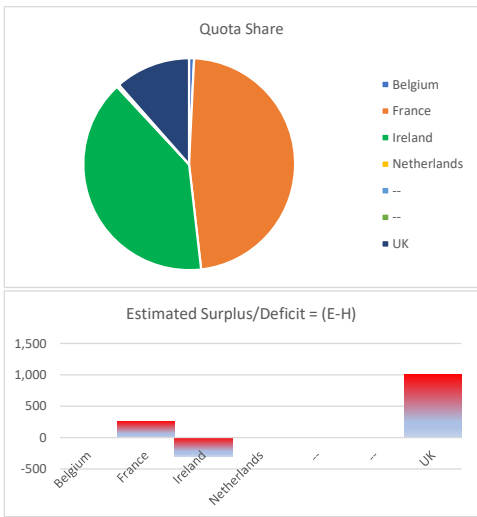
HAGUE AGREEMENT			
Hague Applies			
HAGUE Applies to:	Irl Only		
Ireland's Hague Preference	5,125	Ir Hague Applied	1
UK's Hague Preference	0	UK Hague Applied	0
Union Share	100%		

TRADE AND COOPERATION AGREEMENT							
TABLE	TCA	UK2020	UK2021	UK2022	UK2023	UK2024	UK2025
Fish 1	UK Increase	10.72%	11.05%	11.11%	11.16%	11.23%	11.27%
ICES ADVICE FOR THE COMING YEAR							
ICES Advice 2022 for TAC 2023				TAC advice ≤ 1715			

Member State	KEY 2020	QUOTA 2020	Calculated	Diff	QUOTA 2021	Pre Brexit	Post Brexit	QUOTA 2022	Pre Brexit	Post Brexit	QUOTA 2023	Pre Brexit	Post Brexit
Belgium	1.0%	92	89	-3	74	77	76	79	82	81	0	7	8
France	60.0%	5,644	5,491	-153	4,663	4,728	4,661	4,960	5,032	4,958	0	425	512
Ireland	27.8%	4,072	4,073	1	3,916	3,929	3,916	3,972	3,986	3,972	0	1,096	999
Netherlands	0.5%	46	45	-1	39	38	38	41	41	40	0	3	4
EU		10,863			8,692			9,052			0		
UK	10.7%	1,009	1,165	156	1,134	1,053	1,134	1,188	1,098	1,188	0	184	191
LO	0.0%	0	0	0	433	433	433	456	456	456	0	0	0
TAC		10,863			10,259			10,696			1,715		
<b>TOTAL</b>			10,862			10,258	10,258		10,695	10,695		1,715	1,715

EU Brexit losses	-81	9,205	9,124	-90	9,597	9,507	-8	1,531	1,524
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	EU	Belgium	France	Ireland	Netherlands	--	--	UK
<b>2021</b>								
EU Quota	8,692							
Quota Share	100%	1%	54%	45%	0%			13%
Initial Quota	9,826	74	4,663	3,916	39			1,134
Difference (Adapted - Initial)	1,210	106	1,301	-412	342			-128
Adapted Quota	11,036	180	5,964	3,504	381			1,006
Catch	7,747	137	4,391	2,925	294			0
Catch/Initial Quota = F/C	78.8%	185.6%	94.2%	74.7%	754.0%			0.0%
Catch/Adapted Quota = F/E	70.2%	76.2%	73.6%	83.5%	77.2%			0.0%
<b>Discard Estimate (%)</b>	<b>30%</b>	<<<< Enter the known or predicted level of unwanted catch here and see impact below						
Discards	2,324	41	1,317	877	88			0
Total catch (F+G)	10,070	179	5,708	3,802	382			0
Total catch (F+G)/Initial Quota = H/C	102.5%	241.3%	122.4%	97.1%	980.2%			0%
Total catch (F+G)/Adapted Quota = H/E	91.3%	99.1%	95.7%	108.5%	100.4%			0%
Estimated Surplus/Deficit = (E-H)	965	2	257	-298	-1			1,006
Estimated Surplus/Deficit %	8.7%	0.9%	4.3%	-8.5%	-0.4%			100%



Quota & Catch over time	Ireland	Pred 2023	Quota 2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Quota Pre Brexit		1,096	3,986	3,929									
Initial Quota		999	3,972	3,916	4,072	5,334	6,176	7,646	6,333	5,029	5,328	6,812	5,298
Adapted Quota % Change				-11%	-5%	5%	13%	5%	28%	40%	43%	13%	15%
Adapted Quota	6,456			3,504	3,883	5,612	6,977	8,013	8,116	7,060	7,624	7,669	6,102
Catch Incl Sp Cond	5,301			2,925	2,658	2,662	4,634	6,335	7,749	6,437	6,873	6,902	5,836
Ratio: Catch Incl Sp Cond/Adapted Quota	82%			83.5%	68.4%	47.4%	66.4%	79.1%	95.5%	91.2%	90.1%	90.0%	95.6%

<b>PLE/7FG.</b>	European plaice / VIlf and VIlg / Celtic Sea	<b>Belgium</b>	<b>2021</b>	Level of Risk Advice 2017 for TAC 2018	Level of Risk Advice 2018 for TAC 2019	Level of Risk Advice 2019 for TAC 2020	Level of Risk Advice 2020 for TAC 2021	Level of Risk Advice 2021 for TAC 2022	Predicted choke risk 2023
				High	Low	Low	Moderate	Moderate	High

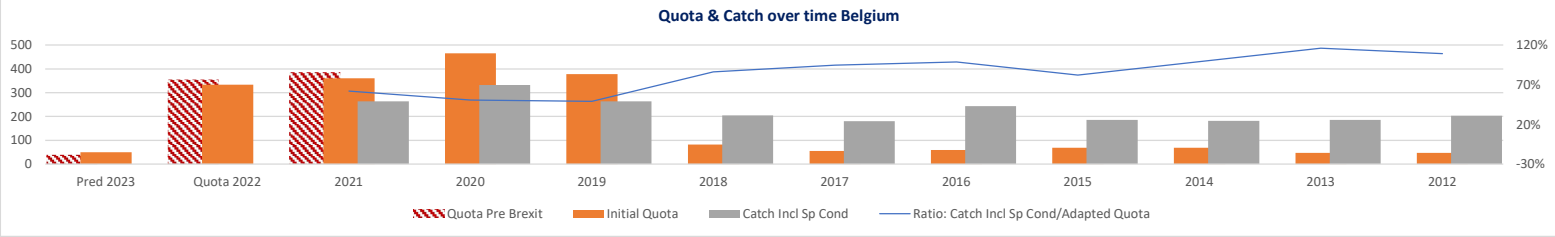
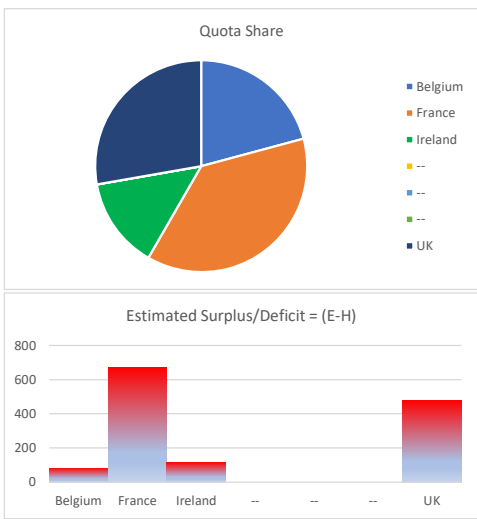
<b>HAGUE AGREEMENT</b>			
Hague Applies			
HAGUE Applies to:	Irl Only		
Ireland's Hague Preference	372	Ir Hague Applied	1
UK's Hague Preference	0	UK Hague Applied	0
Union Share	100%		

<b>TRADE AND COOPERATION AGREEMENT</b>							
TABLE	TCA	UK2020	UK2021	UK2022	UK2023	UK2024	UK2025
Fish 1	UK Increase	23.46%	25.14%	25.42%	25.70%	26.04%	26.26%
<b>ICES ADVICE FOR THE COMING YEAR</b>							
ICES Advice 2022 for TAC 2023				TAC advice ≤ 402			

Member State	KEY 2020	QUOTA 2020	Calculated	Diff	QUOTA 2021	Pre Brexit	Post Brexit	QUOTA 2022	Pre Brexit	Post Brexit	QUOTA 2023	Pre Brexit	Post Brexit
Belgium	25.0%	466	458	-8	360	386	361	333	355	334	0	39	49
France	45.0%	842	825	-17	648	695	650	600	640	601	0	70	88
Ireland	6.7%	255	253	-2	240	244	240	237	240	237	0	199	162
EU		2,003			1,249			1,170			0		
UK	23.5%	440	470	30	480	406	480	441	378	441	0	94	103
LO	0.0%	0	0	0	182	182	182	124	124	124	0	0	0
TAC		2,003			1,911			1,735			402		
<b>TOTAL</b>			2,005			1,913	1,913		1,737	1,737		402	402

EU Brexit losses	-75	1,507	1,433	-63	1,359	1,296	-9	308	299
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	EU	Belgium	France	Ireland	--	--	--	UK
<b>2021</b>								
EU Quota	1,249							
Quota Share	100%	29%	52%	19%				38%
Initial Quota	1,728	360	648	240				480
Difference (Adapted - Initial)	170	65	91	13				0
Adapted Quota	1,898	425	739	253				480
Catch	422	264	51	107				0
Catch/Initial Quota = F/C	24.4%	73.4%	7.8%	44.4%				0.0%
Catch/Adapted Quota = F/E	22.2%	62.1%	6.9%	42.1%				0.0%
<b>Discard Estimate (%)</b>	<b>30%</b>	<<<< Enter the known or predicted level of unwanted catch here and see impact below						
Discards	126	79	15	32				0
Total catch (F+G)	548	343	66	139				0
Total catch (F+G)/Initial Quota = H/C	31.7%	95.4%	10.2%	57.7%				0%
Total catch (F+G)/Adapted Quota = H/E	28.9%	80.7%	8.9%	54.7%				0%
Estimated Surplus/Deficit = (E-H)	1,350	82	673	115				480
Estimated Surplus/Deficit %	71.1%	19.3%	91.1%	45.3%				100%



Quota & Catch over time	Belgium	Pred 2023	Quota 2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Quota Pre Brexit		39	355	386									
Initial Quota		49	333	360	466	378	82	55	59	69	69	46	46
Adapted Quota % Change				18%	40%	41%	189%	245%	318%	227%	165%	248%	304%
Adapted Quota	304			425	654	535	237	190	247	226	183	160	186
Catch Incl Sp Cond	224			264	332	263	205	180	244	185	181	186	203
Ratio: Catch Incl Sp Cond/Adapted Quota	74%			62.1%	50.7%	49.2%	86.2%	94.5%	98.8%	82.1%	99.1%	116.1%	109.1%



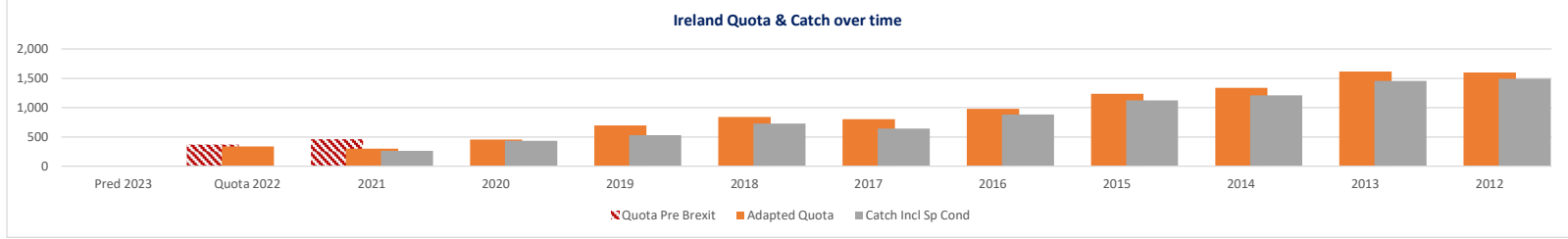
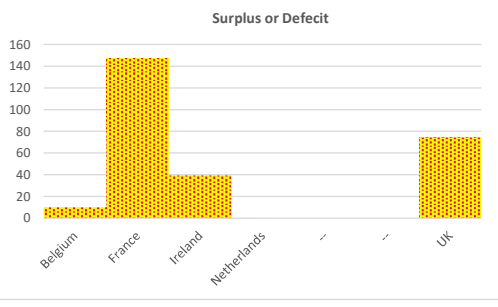
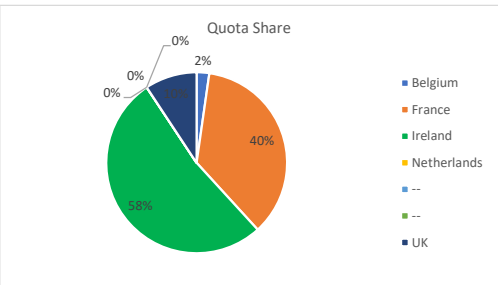
<b>COD/7XAD34</b>	Atlantic cod / VIIb, VIIc, VIIe-k, VIII, IX and X; Union waters of CECAF 34.1.1 / Celtic Sea	<b>Ireland</b>	<b>2021</b>	Level of Risk Advice 2017 for TAC 2018	Level of Risk Advice 2018 for TAC 2019	Level of Risk Advice 2019 for TAC 2020	Level of Risk Advice 2020 for TAC 2021	Level of Risk Advice 2021 for TAC 2022	Predicted choke risk 2023
				Moderate	High	High	High	High	High

<b>HAGUE AGREEMENT</b>			
Hague Applies			
HAGUE Applies to:	Irl Only		
Ireland's Hague Preference	1,067	Ir Hague Applied	1
UK's Hague Preference	0	UK Hague Applied	0
Union Share	100%		

<b>TRADE AND COOPERATION AGREEMENT</b>							
TABLE	TCA	UK2020	UK2021	UK2022	UK2023	UK2024	UK2025
Fish 1	UK Increase	7.89%	9.30%	9.54%	9.77%	10.05%	10.24%
<b>ICES ADVICE FOR THE COMING YEAR</b>							
ICES Advice 2022 for TAC 2023				TAC advice = 0			

Member State	KEY 2020	QUOTA 2020	Calculated	Diff	QUOTA 2021	Pre Brexit	Post Brexit	QUOTA 2022	Pre Brexit	Post Brexit	QUOTA 2023	Pre Brexit	Post Brexit
Belgium	4.5%	18	16	-2	18	16	18	14	13	14	0	0	0
France	73.2%	294	265	-29	290	265	290	231	212	231	0	0	0
Ireland	14.5%	461	461	0	422	461	422	338	369	337	0	0	0
Netherlands	0.0%	0	0	0	0	0	0	0	0	0	0	0	0
EU		805			730			583			0		
UK	7.9%	32	64	32	75	64	75	61	51	61	0	0	0
TAC		805			805			644			0		
<b>TOTAL</b>			805			805	805		644	644		0	0
			EU Brexit losses		-11	741	730	-10	593	583	0	0	0

	EU	Belgium	France	Ireland	Netherlands	--	--	UK
<b>2021</b>								
A EU Quota	730							
B Quota Share	100%	2%	40%	58%				10%
C Initial Quota	805	18	290	422	0			75
D Difference (Adapted - Initial)	6	3	123	-119	0			0
E Adapted Quota	811	21	413	303	0			75
F Catch	540	11	266	264	0			0
<b>Discard Estimate (%)</b>	<b>0%</b>							
G Discards	0	0	0	0	0			0
H Reported discards (t)	0							
Total catch (t)	540	11	266	264	0			0
Catch/Initial Quota F/C	67.1%	59.4%	91.6%	62.5%				0.0%
Catch/Adapted Quota F/E	66.6%	51.9%	64.4%	87.1%	99.3%			0.0%
Total catch (t) /Initial Quota H/C	67.1%	59.4%	91.6%	62.5%				0.0%
Total catch (t) /Adapted Quota H/E	66.6%	51.9%	64.4%	87.1%	99.3%			0.0%
Total catch (t) /Adapted Quota H/E	66.6%	51.9%	64.4%	87.1%	99.3%			0.0%
Adapted Quota	811	21	413	303	0			75
Total catch (t)	540	11	266	264	0			0
Surplus or Deficit	271	10	147	39	0			75

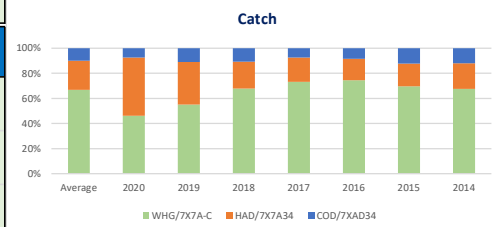
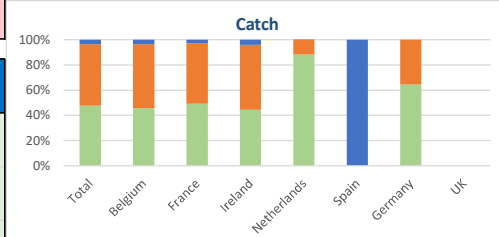


Ireland Quota & Catch over time	Average	Pred 2023	Quota 2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Quota Pre Brexit		0	369	461									
Adapted Quota	985	0	338	303	452	695	837	801	979	1,237	1,335	1,612	1,597

Catch Incl Sp Cond	876		264	435	531	729	642	881	1,124	1,207	1,452	1,490
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### MIXED FISHERY ANALYSIS

Catch	Total	Belgium	France	Ireland	Netherlands	Spain	Germany	UK
COD/7XAD34	567	11	266	264	0	27	0	0
HAD/7X7A34	7,878	153	4,281	3,403	39	0	2	0
WHG/7X7A-C	7,751	137	4,391	2,925	294	0	4	0
Ireland	Average	2020	2019	2018	2017	2016	2015	2014
Atlantic cod VIIb, VIIc, VIIe-k, VIII, IX and X; Union waters of CECAF 34.1.1/ Celtic Sea	793	435	531	729	642	881	1,124	1,207
Haddock VIIb-k, VIII, IX and X; Union waters of CECAF 34.1.1/ Celtic Sea	1,855	2,652	1,651	1,455	1,684	1,785	1,663	2,097
Whiting VIIb, VIIc, VIId, VIIe, VIIf, VIIg, VIIh, VIIj and VIIk/ Celtic Sea	5,335	2,658	2,662	4,634	6,335	7,749	6,437	6,873



<b>SOL/7HJK.</b>	Common sole / Vilh, Vilj and Viik / Celtic Sea	<b>France</b>	<b>2021</b>	Level of Risk Advice 2017 for TAC 2018	Level of Risk Advice 2018 for TAC 2019	Level of Risk Advice 2019 for TAC 2020	Level of Risk Advice 2020 for TAC 2021	Level of Risk Advice 2021 for TAC 2022	Predicted choke risk 2023
				Moderate	Moderate	High	Moderate	High	High

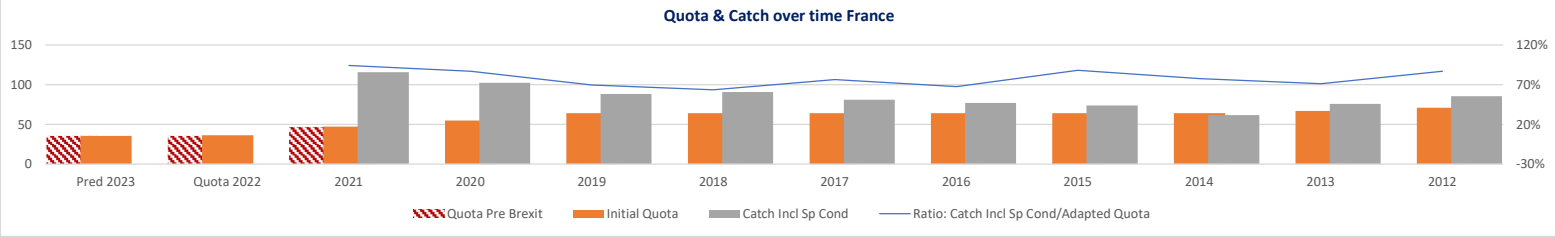
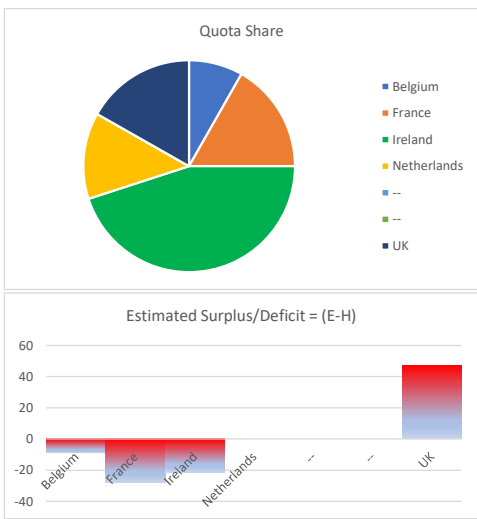
<b>HAGUE AGREEMENT</b>			
Hague does not Apply			
HAGUE Applies to:	No Hague for this stock		
Ireland's Hague Preference	0	Ir Hague Applied	0
UK's Hague Preference	0	UK Hague Applied	0
Union Share	100%		

<b>TRADE AND COOPERATION AGREEMENT</b>							
TABLE	TCA	UK2020	UK2021	UK2022	UK2023	UK2024	UK2025
Fish 1	No Change	16.67%	16.67%	16.67%	16.67%	16.67%	16.67%
<b>ICES ADVICE FOR THE COMING YEAR</b>							
ICES Advice 2022 for TAC 2023				TAC advice ≤ 213			

Member State	KEY 2020	QUOTA 2020	Calculated	Diff	QUOTA 2021	Pre Brexit	Post Brexit	QUOTA 2022	Pre Brexit	Post Brexit	QUOTA 2023	Pre Brexit	Post Brexit
Belgium	8.2%	27	27	0	23	23	23	18	17	17	0	17	17
France	16.7%	55	55	0	47	47	47	36	36	36	0	36	36
Ireland	45.0%	148	148	0	126	126	126	95	96	96	0	96	96
Netherlands	13.4%	44	44	0	37	37	37	28	28	28	0	28	28
EU		329			233			177			0		
UK	16.7%	55	55	0	47	47	47	36	36	36	0	36	36
TAC		329			280			213			213		
<b>TOTAL</b>			329			280	280		213	212		213	213

EU Brexit losses	0	233	233	0	177	177	0	177	177
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	EU	Belgium	France	Ireland	Netherlands	--	--	UK
<b>2021</b>								
EU Quota	233							
Quota Share	100%	10%	20%	54%	16%			20%
Initial Quota	280	23	47	126	37			47
Difference (Adapted - Initial)	22	31	76	-48	-37			0
Adapted Quota	302	54	123	78	0			47
Catch	240	48	116	76	0			0
Catch/Initial Quota = F/C	85.8%	209.1%	246.5%	60.5%	0.0%			0.0%
Catch/Adapted Quota = F/E	79.6%	89.3%	94.1%	98.0%	0.0%			0.0%
<b>Discard Estimate (%)</b>	<b>30%</b>	<<<< Enter the known or predicted level of unwanted catch here and see impact below						
Discards	72	14	35	23	0			0
Total catch (F+G)	312	63	151	99	0			0
Total catch (F+G)/Initial Quota = H/C	111.5%	271.9%	320.4%	78.7%	0.0%			0%
Total catch (F+G)/Adapted Quota = H/E	103.5%	116.1%	122.4%	127.3%	0.0%			0%
Estimated Surplus/Deficit = (E-H)	-10	-9	-28	-21	0			47
Estimated Surplus/Deficit %	-3.5%	-16.1%	-22.4%	-27.3%	100.0%			100%



Quota & Catch over time	France	Pred 2023	Quota 2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Quota Pre Brexit		36	36	47									
Initial Quota		36	36	47	55	64	64	64	64	64	64	67	71
Adapted Quota % Change				162%	114%	97%	123%	65%	77%	31%	25%	59%	38%
Adapted Quota	110			123	118	126	143	105	113	84	80	107	98
Catch Incl Sp Cond	85			116	103	88	91	81	77	74	62	76	86
Ratio: Catch Incl Sp Cond/Adapted Quota	78%			94.1%	87.2%	69.8%	63.7%	76.8%	67.8%	88.1%	77.6%	71.2%	87.2%

<b>POL/07.</b>	Pollack / VII / Celtic Sea	<b>Ireland</b>	<b>2021</b>	Level of Risk Advice 2017 for TAC 2018	Level of Risk Advice 2018 for TAC 2019	Level of Risk Advice 2019 for TAC 2020	Level of Risk Advice 2020 for TAC 2021	Level of Risk Advice 2021 for TAC 2022	Predicted choke risk 2023
				Low	Low	Low	Low	Moderate	High

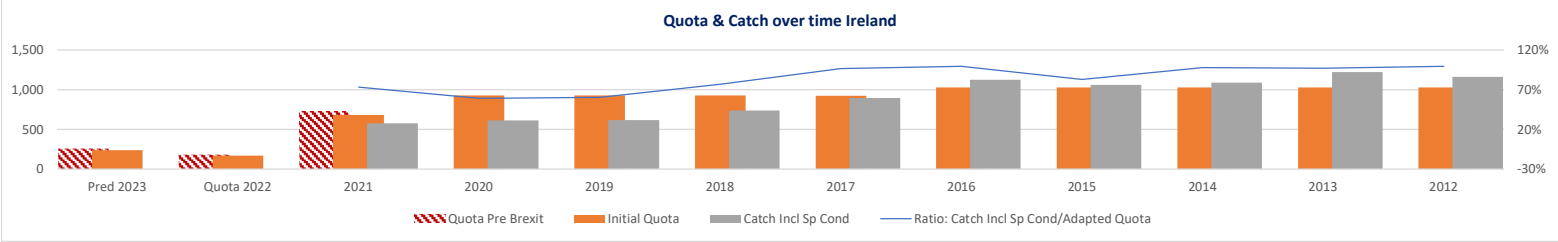
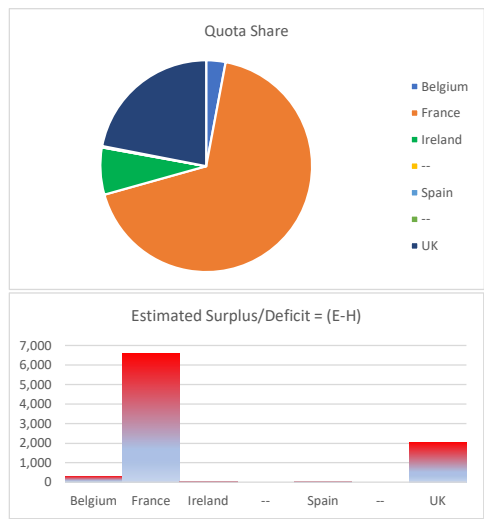
<b>HAGUE AGREEMENT</b>			
Hague does not Apply			
HAGUE Applies to:	No Hague for this stock		
Ireland's Hague Preference	0	Ir Hague Applied	0
UK's Hague Preference	0	UK Hague Applied	0
Union Share	100%		

<b>TRADE AND COOPERATION AGREEMENT</b>							
TABLE	TCA	UK2020	UK2021	UK2022	UK2023	UK2024	UK2025
Fish 1	UK Increase	17.43%	21.97%	22.73%	23.49%	24.39%	25.00%
<b>ICES ADVICE FOR THE COMING YEAR</b>							
ICES Advice 2022 for TAC 2023				TAC advice ≤ 3360 (also including subarea 6)			

Member State	KEY 2020	QUOTA 2020	Calculated	Diff	QUOTA 2021	Pre Brexit	Post Brexit	QUOTA 2022	Pre Brexit	Post Brexit	QUOTA 2023	Pre Brexit	Post Brexit
Belgium	3.1%	378	378	0	277	293	277	69	73	69	0	104	97
Spain	0.2%	23	23	0	17	18	17	4	4	4	0	6	6
France	71.6%	8,712	8,712	0	6,381	6,752	6,380	1,580	1,688	1,580	0	2,407	2,230
Ireland	7.6%	929	929	0	680	720	680	168	180	168	0	257	238
EU		12,163			7,355			1,821			0		
UK	17.4%	2,121	2,119	-2	2,071	1,642	2,071	536	411	536	0	585	789
TAC		12,163			9,426			2,357			3,360		
<b>TOTAL</b>			12,161			9,425	9,425		2,357	2,356		3,360	3,360

EU Brexit losses	-428	7,782	7,354	-125	1,946	1,821	-204	2,774	2,570
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	EU	Belgium	France	Ireland	--	Spain	--	UK
<b>2021</b>								
EU Quota	7,355							
Quota Share	100%	4%	87%	9%		0%		28%
Initial Quota	9,426	277	6,381	680		17		2,071
Difference (Adapted - Initial)	1,119	39	968	103		44		-35
Adapted Quota	10,545	316	7,349	783		61		2,036
Catch	1,170	7	588	575		1		0
Catch/Initial Quota = F/C	12.4%	2.5%	9.2%	84.5%		7.4%		0.0%
Catch/Adapted Quota = F/E	11.1%	2.2%	8.0%	73.4%		2.1%		0.0%
<b>Discard Estimate (%)</b>	<b>30%</b>	<<<< Enter the known or predicted level of unwanted catch here and see impact below						
Discards	351	2	176	172		0		0
Total catch (F+G)	1,521	9	764	747		2		0
Total catch (F+G)/Initial Quota = H/C	16.1%	3.2%	12.0%	109.8%		9.7%		0%
Total catch (F+G)/Adapted Quota = H/E	14.4%	2.8%	10.4%	95.4%		2.7%		0%
Estimated Surplus/Deficit = (E-H)	9,023	307	6,585	36		59		2,036
Estimated Surplus/Deficit %	85.6%	97.2%	89.6%	4.6%		97.3%		100%



Quota & Catch over time	Ireland	Pred 2023	Quota 2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
<b>Quota Pre Brexit</b>		257	180	720									
Initial Quota		238	168	680	929	929	929	927	1,030	1,030	1,030	1,030	1,030
Adapted Quota % Change				15%	11%	10%	3%	0%	10%	24%	8%	22%	13%
Adapted Quota	1,066			783	1,031	1,025	959	927	1,130	1,275	1,110	1,259	1,165
Catch Incl Sp Cond	910			575	610	619	739	897	1,126	1,060	1,088	1,223	1,161
Ratio: Catch Incl Sp Cond/Adapted Quota	85%			73.4%	59.1%	60.4%	77.0%	96.7%	99.6%	83.2%	98.0%	97.1%	99.6%

<b>COD/SBE6A</b>	Atlantic cod / VIa; Union and international waters of Vb east of 12° 00' W / West of Scotland	<b>Ireland</b>	<b>2021</b>	Level of Risk Advice 2017 for TAC 2018	Level of Risk Advice 2018 for TAC 2019	Level of Risk Advice 2020 for TAC 2020	Level of Risk Advice 2021 for TAC 2021	Level of Risk Advice 2021 for TAC 2022	Predicted choke risk 2023
				High	High	High	High	High	High

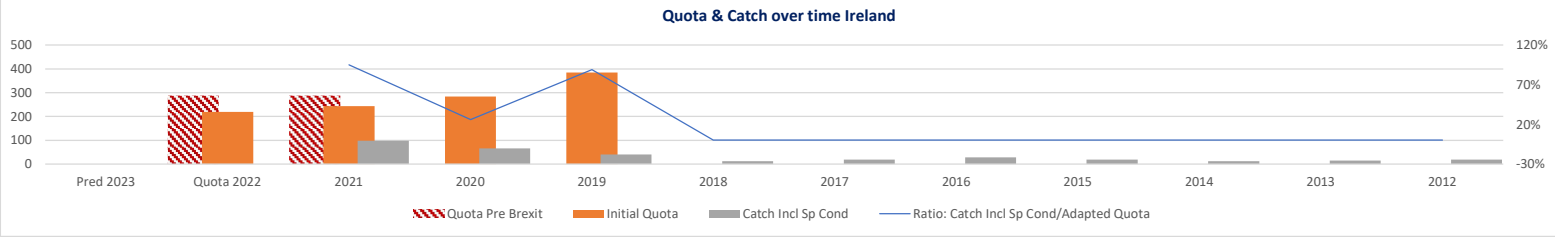
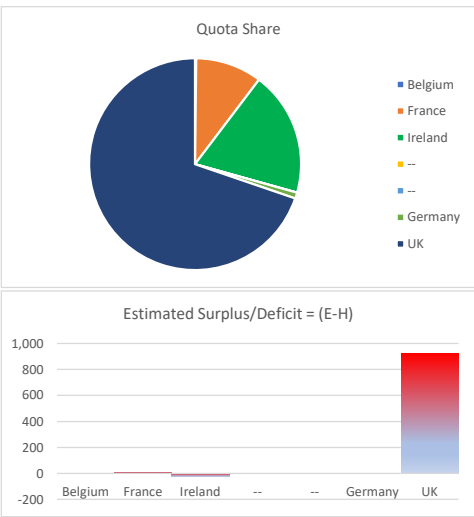
<b>HAGUE AGREEMENT</b>			
Hague Applies			
HAGUE Applies to:	UK & IRELAND		
Ireland's Hague Preference	2,282	Ir Hague Applied	1
UK's Hague Preference	4,710	UK Hague Applied	1
Union Share	100%		

<b>TRADE AND COOPERATION AGREEMENT</b>							
TABLE	TCA	UK2020	UK2021	UK2022	UK2023	UK2024	UK2025
Fish 1	UK Increase	52.61%	69.77%	72.63%	75.49%	78.92%	81.21%
<b>ICES ADVICE FOR THE COMING YEAR</b>							
ICES Advice 2022 for TAC 2023				TAC advice = 0			

Member State	KEY 2020	QUOTA 2020	Calculated	Diff	QUOTA 2021	Pre Brexit	Post Brexit	QUOTA 2022	Pre Brexit	Post Brexit	QUOTA 2023	Pre Brexit	Post Brexit
Belgium	0.3%	2	2	0	2	2	1	2	2	1	0	0	0
Germany	2.9%	19	19	0	12	19	12	11	19	11	0	0	0
France	31.7%	203	203	0	130	203	130	117	203	117	0	0	0
Ireland	12.4%	284	288	4	243	288	244	219	288	220	0	0	0
EU		1,279			387			349			0		
UK	52.6%	771	767	-4	892	767	892	930	767	929	0	0	0
TAC		1,279			1,279			1,279			0		
<b>TOTAL</b>			1,278			1,278	1,279		1,278	1,277		0	0

EU Brexit losses	-124	511	387	-162	511	349	0	0	0
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	EU	Belgium	France	Ireland	--	--	Germany	UK
<b>2021</b>								
EU Quota	387							
Quota Share	100%	1%	34%	63%			3%	230%
Initial Quota	1,279	2	130	243			12	892
Difference (Adapted - Initial)	-28	0	92	-140			-11	30
Adapted Quota	1,251	2	222	103			1	922
Catch	263	0	165	98			0	0
Catch/Initial Quota = F/C	20.6%	0.0%	126.6%	40.5%			0.0%	0.0%
Catch/Adapted Quota = F/E	21.0%	0.0%	74.1%	95.1%			0.0%	0.0%
<b>Discard Estimate (%)</b>	<b>30%</b>	<<<< Enter the known or predicted level of unwanted catch here and see impact below						
Discards	79	0	49	29			0	0
Total catch (F+G)	342	0	214	128			0	0
Total catch (F+G)/Initial Quota = H/C	26.7%	0.0%	164.6%	52.6%			0.0%	0%
Total catch (F+G)/Adapted Quota = H/E	27.3%	0.0%	96.3%	123.6%			0.0%	0%
Estimated Surplus/Deficit = (E-H)	909	2	8	-24			1	922
Estimated Surplus/Deficit %	72.7%	100.0%	3.7%	-23.6%			100.0%	100%



Quota & Catch over time	Ireland	Pred 2023	Quota 2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
<b>Quota Pre Brexit</b>		0	288	288									
Initial Quota		0	219	243	284	385	0	0	0	0	0	0	0
Adapted Quota % Change				-57%	-12%	-88%							
Adapted Quota	40			103	250	45	0	0	0	0	0	0	0
Catch Incl Sp Cond	32			98	65	40	12	19	28	18	11	14	18
Ratio: Catch Incl Sp Cond/Adapted Quota	81%			95.1%	26.0%	88.9%							

COD/SW6-14	Atlantic cod / Vlb; Union and international waters of Vb west of 12° 00' W and of XII and XIV / West of Scotland	Ireland	2021	Level of Risk Advice 2017 for TAC 2018	Level of Risk Advice 2018 for TAC 2019	Level of Risk Advice 2020 for TAC 2020	Level of Risk Advice 2021 for TAC 2021	Level of Risk Advice 2021 for TAC 2022	Predicted choke risk 2023
				Low	Low	High	High	High	

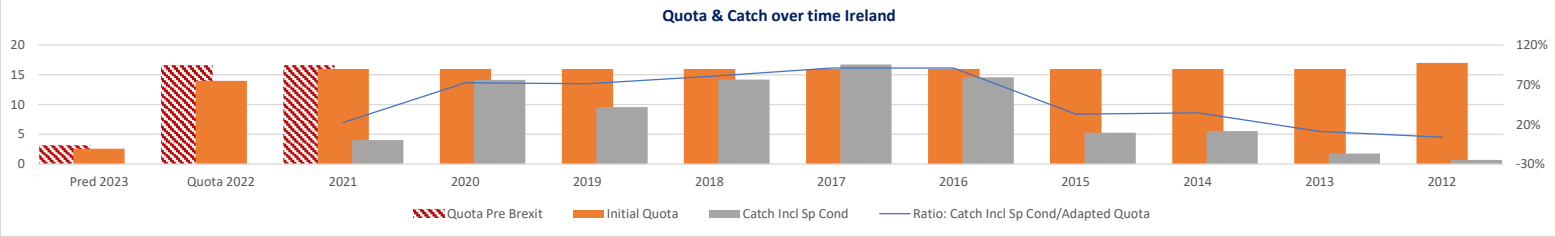
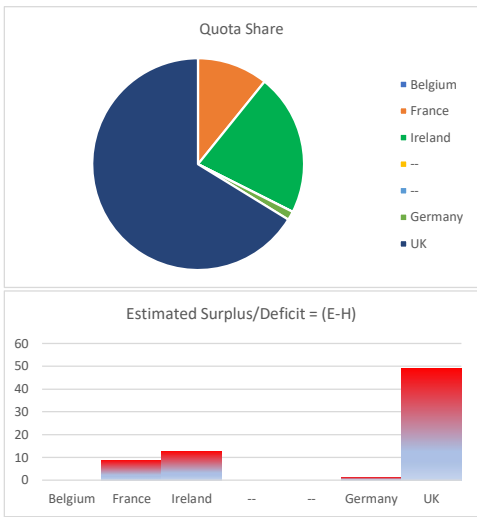
HAGUE AGREEMENT			
Hague Applies			
HAGUE Applies to:	UK & IRELAND		
Ireland's Hague Preference	2,282	Ir Hague Applied	1
UK's Hague Preference	4,710	UK Hague Applied	1
Union Share	100%		

TRADE AND COOPERATION AGREEMENT							
TABLE	TCA	UK2020	UK2021	UK2022	UK2023	UK2024	UK2025
Fish 1	UK Increase	52.61%	66.05%	68.29%	70.53%	73.22%	75.01%
ICES ADVICE FOR THE COMING YEAR							
ICES Advice 2022 for TAC 2023				TAC advice ≤ 14			

Member State	KEY 2020	QUOTA 2020	Calculated	Diff	QUOTA 2021	Pre Brexit	Post Brexit	QUOTA 2022	Pre Brexit	Post Brexit	QUOTA 2023	Pre Brexit	Post Brexit
Belgium	0.3%	0	0	0	0	0	0	0	0	0	0	0	0
Germany	2.9%	1	1	0	1	1	1	1	1	1	0	0	0
France	31.7%	12	12	0	8	12	8	8	12	8	0	2	1
Ireland	12.4%	16	17	1	16	17	16	14	17	14	0	3	3
EU		74			25			23			0		
UK	52.6%	45	44	-1	49	44	49	51	44	51	0	8	10
TAC		74			74			74			14		
<b>TOTAL</b>			74			74	74		74	74		14	14

EU Brexit losses	-5	30	25	-7	30	23	-1	6	4
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	EU	Belgium	France	Ireland	--	--	Germany	UK
<b>2021</b>								
EU Quota	25							
Quota Share	100%		32%	64%			4%	196%
Initial Quota	74	0	8	16			1	49
Difference (Adapted - Initial)	3	0	1	2			0	0
Adapted Quota	77	0	9	18			1	49
Catch	4	0	0	4			0	0
Catch/Initial Quota = F/C	5.5%		0.0%	25.4%			0.0%	0.0%
Catch/Adapted Quota = F/E	5.3%		0.0%	22.6%			0.0%	0.0%
<b>Discard Estimate (%)</b>	<b>30%</b>	<<<< Enter the known or predicted level of unwanted catch here and see impact below						
Discards	1	0	0	1			0	0
Total catch (F+G)	5	0	0	5			0	0
Total catch (F+G)/Initial Quota = H/C	7.1%		0.0%	33.0%			0.0%	0%
Total catch (F+G)/Adapted Quota = H/E	6.9%		0.0%	29.4%			0.0%	0%
Estimated Surplus/Deficit = (E-H)	72	0	9	13			1	49
Estimated Surplus/Deficit %	93.1%		100.0%	70.6%			100.0%	100%



Quota & Catch over time	Ireland	Pred 2023	Quota 2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Quota Pre Brexit		3	17	17									
Initial Quota		3	14	16	16	16	16	16	16	16	16	16	17
Adapted Quota % Change				12%	22%	-16%	10%	15%	0%	0%	0%	0%	0%
Adapted Quota	17			18	20	13	18	18	16	16	16	16	17
Catch Incl Sp Cond	9			4	14	10	14	17	15	5	6	2	1
Ratio: Catch Incl Sp Cond/Adapted Quota	52%			22.6%	72.5%	71.4%	80.5%	90.9%	91.1%	32.9%	34.7%	11.1%	4.0%

<b>COD/07A.</b>	Atlantic cod / Vila / Irish Sea	<b>Ireland</b>	<b>2021</b>	Level of Risk Advice 2017 for TAC 2018	Level of Risk Advice 2018 for TAC 2019	Level of Risk Advice 2019 for TAC 2020	Level of Risk Advice 2020 for TAC 2021	Level of Risk Advice 2021 for TAC 2022	Predicted choke risk 2023
				Moderate	Moderate	High	Moderate	High	High

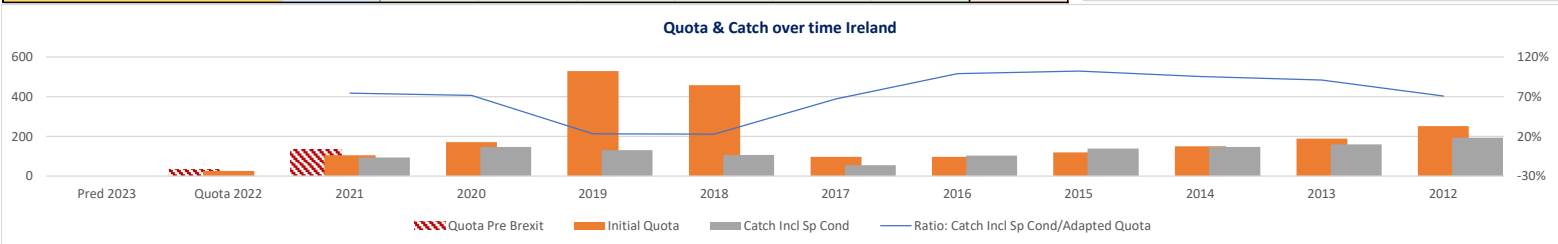
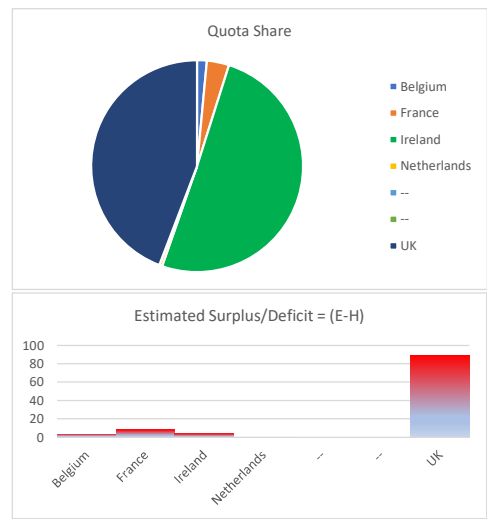
<b>HAGUE AGREEMENT</b>			
Hague Applies			
HAGUE Applies to:	UK & IRELAND		
Ireland's Hague Preference	6,954	Ir Hague Applied	1
UK's Hague Preference	1,223	UK Hague Applied	1
Union Share	100%		

<b>TRADE AND COOPERATION AGREEMENT</b>							
TABLE	TCA	UK2020	UK2021	UK2022	UK2023	UK2024	UK2025
Fish 1	UK Increase	42.68%	43.95%	44.16%	44.38%	44.63%	44.80%
<b>ICES ADVICE FOR THE COMING YEAR</b>							
ICES Advice 2022 for TAC 2023				TAC advice = 0			

Member State	KEY 2020	QUOTA 2020	Calculated	Diff	QUOTA 2021	Pre Brexit	Post Brexit	QUOTA 2022	Pre Brexit	Post Brexit	QUOTA 2023	Pre Brexit	Post Brexit
Belgium	2.7%	3	3	0	3	3	3	1	1	1	0	0	0
France	7.3%	9	9	0	7	8	7	2	2	2	0	0	0
Ireland	46.8%	170	169	-1	104	136	104	26	34	26	0	0	0
Netherlands	0.5%	1	1	0	1	1	1	0	0	0	0	0	0
EU		257			115			29			0		
UK	42.7%	74	74	0	91	59	91	23	15	23	0	0	0
TAC		257			206			52			0		
<b>TOTAL</b>			257			206	206		52	52		0	0

EU Brexit losses	-32	147	115	-8	37	29	0	0	0
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	EU	Belgium	France	Ireland	Netherlands	--	--	UK
<b>2021</b>								
EU Quota	115							
Quota Share	100%	3%	6%	90%	1%			79%
Initial Quota	206	3	7	104	1			91
Difference (Adapted - Initial)	23	4	1	21	-1			-2
Adapted Quota	229	7	8	125	0			89
Catch	96	3	0	93	0			0
Catch/Initial Quota = F/C	46.5%	92.7%	0.0%	89.4%	0.0%			0.0%
Catch/Adapted Quota = F/E	41.9%	41.0%	0.0%	74.6%	0.0%			0.0%
<b>Discard Estimate (%)</b>	<b>30%</b>	<<<< Enter the known or predicted level of unwanted catch here and see impact below						
Discards	29	1	0	28	0			0
Total catch (F+G)	124	4	0	121	0			0
Total catch (F+G)/Initial Quota = H/C	60.4%	120.5%	0.0%	116.2%	0.0%			0%
Total catch (F+G)/Adapted Quota = H/E	54.5%	53.4%	0.0%	97.0%	0.0%			0%
Estimated Surplus/Deficit = (E-H)	104	3	8	4	0			89
Estimated Surplus/Deficit %	45.5%	46.6%	100.0%	3.0%	100.0%			100%



Quota & Catch over time	Ireland	Pred 2023	Quota 2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
<b>Quota Pre Brexit</b>		0	34	136									
Initial Quota		0	26	104	170	530	459	97	97	120	150	188	251
Adapted Quota % Change				20%	21%	6%	2%	-17%	6%	12%	3%	-7%	8%
Adapted Quota	228			125	206	562	467	81	103	135	154	175	271
Catch Incl Sp Cond	127			93	148	130	106	54	102	138	148	160	193
Ratio: Catch Incl Sp Cond/Adapted Quota	56%			74.6%	71.6%	23.1%	22.8%	67.3%	99.3%	102.5%	95.6%	91.2%	71.0%

WHG/7X7A-C	Whiting / VIIB, VIIC, VIID, VILE, VIIF, VIIG, VIH, VIJ and VIK / Celtic Sea	Ireland	2021	Level of Risk Advice 2017 for TAC 2018	Level of Risk Advice 2018 for TAC 2019	Level of Risk Advice 2019 for TAC 2020	Level of Risk Advice 2020 for TAC 2021	Level of Risk Advice 2021 for TAC 2022	Predicted choke risk 2023
				High	Moderate	Moderate	High	High	High

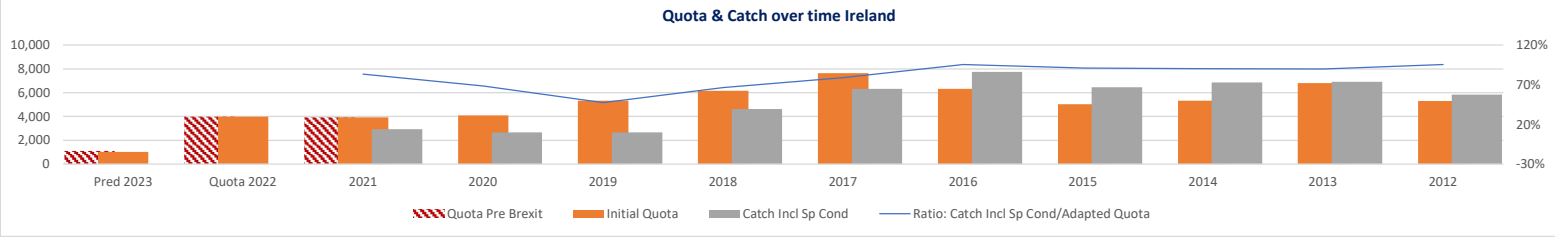
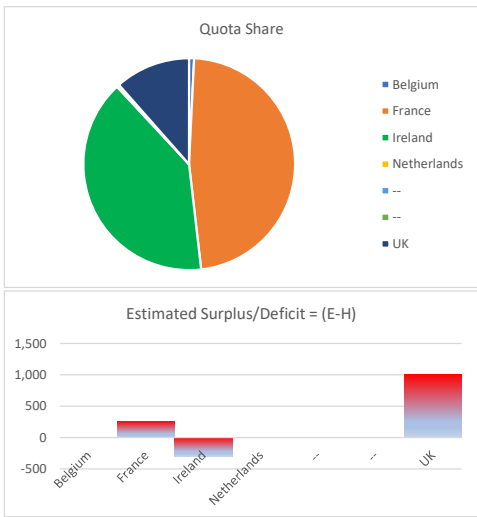
HAGUE AGREEMENT			
Hague Applies			
HAGUE Applies to:	Irl Only		
Ireland's Hague Preference	5,125	Ir Hague Applied	1
UK's Hague Preference	0	UK Hague Applied	0
Union Share	100%		

TRADE AND COOPERATION AGREEMENT							
TABLE	TCA	UK2020	UK2021	UK2022	UK2023	UK2024	UK2025
Fish 1	UK Increase	10.72%	11.05%	11.11%	11.16%	11.23%	11.27%
ICES ADVICE FOR THE COMING YEAR							
ICES Advice 2022 for TAC 2023				TAC advice ≤ 1715			

Member State	KEY 2020	QUOTA 2020	Calculated	Diff	QUOTA 2021	Pre Brexit	Post Brexit	QUOTA 2022	Pre Brexit	Post Brexit	QUOTA 2023	Pre Brexit	Post Brexit
Belgium	1.0%	92	89	-3	74	77	76	79	82	81	0	7	8
France	60.0%	5,644	5,491	-153	4,663	4,728	4,661	4,960	5,032	4,958	0	425	512
Ireland	27.8%	4,072	4,073	1	3,916	3,929	3,916	3,972	3,986	3,972	0	1,096	999
Netherlands	0.5%	46	45	-1	39	38	38	41	41	40	0	3	4
EU		10,863			8,692			9,052			0		
UK	10.7%	1,009	1,165	156	1,134	1,053	1,134	1,188	1,098	1,188	0	184	191
LO	0.0%	0	0	0	433	433	433	456	456	456	0	0	0
TAC		10,863			10,259			10,696			1,715		
<b>TOTAL</b>			10,862			10,258	10,258		10,695	10,695		1,715	1,715

EU Brexit losses	-81	9,205	9,124	-90	9,597	9,507	-8	1,531	1,524
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	EU	Belgium	France	Ireland	Netherlands	--	--	UK
<b>2021</b>								
EU Quota	8,692							
Quota Share	100%	1%	54%	45%	0%			13%
Initial Quota	9,826	74	4,663	3,916	39			1,134
Difference (Adapted - Initial)	1,210	106	1,301	-412	342			-128
Adapted Quota	11,036	180	5,964	3,504	381			1,006
Catch	7,747	137	4,391	2,925	294			0
Catch/Initial Quota = F/C	78.8%	185.6%	94.2%	74.7%	754.0%			0.0%
Catch/Adapted Quota = F/E	70.2%	76.2%	73.6%	83.5%	77.2%			0.0%
<b>Discard Estimate (%)</b>	<b>30%</b>	<<<< Enter the known or predicted level of unwanted catch here and see impact below						
Discards	2,324	41	1,317	877	88			0
Total catch (F+G)	10,070	179	5,708	3,802	382			0
Total catch (F+G)/Initial Quota = H/C	102.5%	241.3%	122.4%	97.1%	980.2%			0%
Total catch (F+G)/Adapted Quota = H/E	91.3%	99.1%	95.7%	108.5%	100.4%			0%
Estimated Surplus/Deficit = (E-H)	965	2	257	-298	-1			1,006
Estimated Surplus/Deficit %	8.7%	0.9%	4.3%	-8.5%	-0.4%			100%



Quota & Catch over time	Ireland	Pred 2023	Quota 2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Quota Pre Brexit		1,096	3,986	3,929									
Initial Quota		999	3,972	3,916	4,072	5,334	6,176	7,646	6,333	5,029	5,328	6,812	5,298
Adapted Quota % Change				-11%	-5%	5%	13%	5%	28%	40%	43%	13%	15%
Adapted Quota	6,456			3,504	3,883	5,612	6,977	8,013	8,116	7,060	7,624	7,669	6,102
Catch Incl Sp Cond	5,301			2,925	2,658	2,662	4,634	6,335	7,749	6,437	6,873	6,902	5,836
Ratio: Catch Incl Sp Cond/Adapted Quota	82%			83.5%	68.4%	47.4%	66.4%	79.1%	95.5%	91.2%	90.1%	90.0%	95.6%