

# 002\_data\_check

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## Checking

Stolen the check and re-coding code from Nuno

### Area 27.3.d.28

Important for herring

*Do we need to correct or can we assume?*

Guess it is only Estonia and Latvia fishing in the Gulf of Riga - *correct?*

Assuming that 28.2, when not Latvia | Estonia

Table 1: Area 27.3.d.28 with or without .1 | .2

vslFlgCtry	area	sppName	tons
DEU	27.3.d.28.2	Clupea harengus	596.259
DNK	27.3.d.28.2	Clupea harengus	5914.322
EST	27.3.d.28.1	Clupea harengus	26293.292
EST	27.3.d.28.2	Clupea harengus	4037.238
FIN	27.3.d.28.2	Clupea harengus	6507.463
LTU	27.3.d.28.2	Clupea harengus	3837.541
LVA	27.3.d.28.1	Clupea harengus	30639.191
LVA	27.3.d.28.2	Clupea harengus	13832.658
POL	27.3.d.28.2	Clupea harengus	1811.471
SWE	27.3.d.28.2	Clupea harengus	32960.890

## Landing categories

*How to group / re-code?*

Table 2: Landing categories

vslFlgCtry	sppName	landCat	tons
DEU	Clupea harengus	HCN	15458.809
DEU	Clupea harengus	IND	1.810
DEU	Clupea harengus	UKN	168.210
DEU	Sprattus sprattus	HCN	15501.965
DEU	Sprattus sprattus	UKN	0.884
DNK	Clupea harengus	HUC	35603.648
DNK	Sprattus sprattus	HUC	535.584
DNK	Sprattus sprattus	IND	56539.698
EST	Clupea harengus		7734.924
EST	Clupea harengus	HUC	62109.714

vslFlgCtry	sppName	landCat	tons
EST	Clupea harengus	IND	33.932
EST	Sprattus sprattus		5271.859
EST	Sprattus sprattus	HUC	50885.406
EST	Sprattus sprattus	IND	14.094
FIN	Clupea harengus	HUC	78014.105
FIN	Clupea harengus	IND	176283.296
FIN	Sprattus sprattus	IND	32532.596
LTU	Clupea harengus	HUC	3440.406
LTU	Clupea harengus	IND	6658.614
LTU	Sprattus sprattus	HUC	5288.786
LTU	Sprattus sprattus	IND	24149.120
LVA	Clupea harengus	WHL	47292.044
LVA	Sprattus sprattus	WHL	72839.572
POL	Clupea harengus	HUC	94135.679
POL	Sprattus sprattus	HUC	151584.166
SWE	Clupea harengus	HUC	117968.533
SWE	Clupea harengus	IND	68153.171
SWE	Sprattus sprattus	HUC	52222.587
SWE	Sprattus sprattus	IND	46482.288

## Missing dates

landDate

Table 3: Missing landDate

vslFlgCtry	sppName	tons_total	tons	pct_mis
DEU	Clupea harengus	15628.83	0.13200	0.0008446
DEU	Sprattus sprattus	15502.85	NA	NA
DNK	Clupea harengus	35603.65	NA	NA
DNK	Sprattus sprattus	57075.28	NA	NA
EST	Clupea harengus	69878.57	78.78687	0.1127483
EST	Sprattus sprattus	56171.36	0.30500	0.0005430
FIN	Clupea harengus	254297.40	NA	NA
FIN	Sprattus sprattus	32532.60	NA	NA
LTU	Clupea harengus	10099.02	NA	NA
LTU	Sprattus sprattus	29437.91	NA	NA
LVA	Clupea harengus	47292.04	3.83500	0.0081092
LVA	Sprattus sprattus	72839.57	5.83400	0.0080094
POL	Clupea harengus	94135.68	NA	NA
POL	Sprattus sprattus	151584.17	NA	NA
SWE	Clupea harengus	186121.70	NA	NA
SWE	Sprattus sprattus	98704.88	NA	NA

depDate

Table 4: Missing depDate

vslFlgCtry	sppName	tons_total	tons	pct_mis
DEU	Clupea harengus	15628.83	0.132	0.0008446
DEU	Sprattus sprattus	15502.85	NA	NA
DNK	Clupea harengus	35603.65	NA	NA
DNK	Sprattus sprattus	57075.28	NA	NA
EST	Clupea harengus	69878.57	13433.781	19.2244640
EST	Sprattus sprattus	56171.36	0.452	0.0008047
FIN	Clupea harengus	254297.40	NA	NA
FIN	Sprattus sprattus	32532.60	NA	NA
LTU	Clupea harengus	10099.02	NA	NA
LTU	Sprattus sprattus	29437.91	NA	NA
LVA	Clupea harengus	47292.04	47292.044	100.0000000
LVA	Sprattus sprattus	72839.57	72839.572	100.0000000
POL	Clupea harengus	94135.68	2056.015	2.1840971
POL	Sprattus sprattus	151584.17	0.990	0.0006531
SWE	Clupea harengus	186121.70	NA	NA
SWE	Sprattus sprattus	98704.88	NA	NA

**both dates**

Table 5: Missing both Date

vslFlgCtry	sppName	tons_total	tons	pct_mis
DEU	Clupea harengus	15628.83	0.13200	0.0008446
DEU	Sprattus sprattus	15502.85	NA	NA
DNK	Clupea harengus	35603.65	NA	NA
DNK	Sprattus sprattus	57075.28	NA	NA
EST	Clupea harengus	69878.57	78.78687	0.1127483
EST	Sprattus sprattus	56171.36	0.30500	0.0005430
FIN	Clupea harengus	254297.40	NA	NA
FIN	Sprattus sprattus	32532.60	NA	NA
LTU	Clupea harengus	10099.02	NA	NA
LTU	Sprattus sprattus	29437.91	NA	NA
LVA	Clupea harengus	47292.04	3.83500	0.0081092
LVA	Sprattus sprattus	72839.57	5.83400	0.0080094
POL	Clupea harengus	94135.68	NA	NA
POL	Sprattus sprattus	151584.17	NA	NA
SWE	Clupea harengus	186121.70	NA	NA
SWE	Sprattus sprattus	98704.88	NA	NA

**Missing or incorrect location**

**landLoc**

Table 6: Missing landLoc

vslFlgCtry	sppName	tons_total	tons	pct_mis
DEU	Clupea harengus	15628.83	4.1310	0.0264319

vslFlgCtry	sppName	tons_total	tons	pct_mis
DEU	Sprattus sprattus	15502.85	NA	NA
DNK	Clupea harengus	35603.65	0.0316	0.0000888
DNK	Sprattus sprattus	57075.28	NA	NA
EST	Clupea harengus	69878.57	557.6967	0.7980940
EST	Sprattus sprattus	56171.36	NA	NA
FIN	Clupea harengus	254297.40	NA	NA
FIN	Sprattus sprattus	32532.60	NA	NA
LTU	Clupea harengus	10099.02	NA	NA
LTU	Sprattus sprattus	29437.91	NA	NA
LVA	Clupea harengus	47292.04	3.8350	0.0081092
LVA	Sprattus sprattus	72839.57	5.8340	0.0080094
POL	Clupea harengus	94135.68	NA	NA
POL	Sprattus sprattus	151584.17	NA	NA
SWE	Clupea harengus	186121.70	NA	NA
SWE	Sprattus sprattus	98704.88	NA	NA

**depLoc**

Table 7: Missing depLoc

vslFlgCtry	sppName	tons_total	tons	pct_mis
DEU	Clupea harengus	15628.83	4.1310	0.0264319
DEU	Sprattus sprattus	15502.85	NA	NA
DNK	Clupea harengus	35603.65	1077.6501	3.0267969
DNK	Sprattus sprattus	57075.28	1922.6740	3.3686632
EST	Clupea harengus	69878.57	16437.5683	23.5230461
EST	Sprattus sprattus	56171.36	27.3648	0.0487166
FIN	Clupea harengus	254297.40	254297.4010	100.0000000
FIN	Sprattus sprattus	32532.60	32532.5960	100.0000000
LTU	Clupea harengus	10099.02	NA	NA
LTU	Sprattus sprattus	29437.91	NA	NA
LVA	Clupea harengus	47292.04	47292.0440	100.0000000
LVA	Sprattus sprattus	72839.57	72839.5720	100.0000000
POL	Clupea harengus	94135.68	NA	NA
POL	Sprattus sprattus	151584.17	NA	NA
SWE	Clupea harengus	186121.70	0.0150	0.0000081
SWE	Sprattus sprattus	98704.88	NA	NA

**Both loc**

Table 8: Missing both Loc

vslFlgCtry	sppName	tons_total	tons	pct_mis
DEU	Clupea harengus	15628.83	4.1310	0.0264319
DEU	Sprattus sprattus	15502.85	NA	NA
DNK	Clupea harengus	35603.65	0.0294	0.0000826
DNK	Sprattus sprattus	57075.28	NA	NA
EST	Clupea harengus	69878.57	557.6967	0.7980940
EST	Sprattus sprattus	56171.36	NA	NA

vslFlgCtry	sppName	tons_total	tons	pct_mis
FIN	Clupea harengus	254297.40	NA	NA
FIN	Sprattus sprattus	32532.60	NA	NA
LTU	Clupea harengus	10099.02	NA	NA
LTU	Sprattus sprattus	29437.91	NA	NA
LVA	Clupea harengus	47292.04	3.8350	0.0081092
LVA	Sprattus sprattus	72839.57	5.8340	0.0080094
POL	Clupea harengus	94135.68	NA	NA
POL	Sprattus sprattus	151584.17	NA	NA
SWE	Clupea harengus	186121.70	NA	NA
SWE	Sprattus sprattus	98704.88	NA	NA

## Overall landings

A table for checking against advice sheets

## Analyses

### Target population

*When are trip targeting sprat or herring?*

Total number of trips (all species); 68601

Total landings of herring and sprat (tons): 1226906

Total number of trips (more than 80 pct of sprat or herring); 64168

Total landings of herring and sprat (more than 80 pct of sprat or herring): 1218271

Total number of trips (more than 90 pct of sprat or herring); 61021

Total landings of herring and sprat (more than 90 pct of sprat or herring): 1205439

## Stock

year	stock	ton
2017	her.27.20-24	34379.78561
2017	her.27.25-2932	172480.32924
2017	her.27.28	29870.51090
2017	her.27.3031	101472.97310
2017	spr.27.2232	238180.10035
2017	spr.27.3a	1747.17500
2018	her.27.20-24	37944.63640
2018	her.27.25-2932	214154.58988
2018	her.27.28	27029.34640
2018	her.27.3031	95557.26620
2018	spr.27.2232	269507.66326
2018	spr.27.3a	4400.82700
2019	her.27.3031	84.70400
2019	spr.27.2232	6.70000

year	stock	ton
NA	her.27.20-24	0.13200
NA	her.27.25-2932	49.99585
NA	her.27.28	32.62602
NA	spr.27.2232	6.13900

year	vslFlgCtry	stock	ton
2017	DNK	her.27.20-24	9057.48661
2017	DNK	her.27.25-2932	9341.66099
2017	DNK	spr.27.2232	27149.09105
2017	DNK	spr.27.3a	1545.74000
2017	EST	her.27.25-2932	21347.08965
2017	EST	her.27.28	13756.04690
2017	EST	spr.27.2232	26545.87930
2017	FIN	her.27.25-2932	39824.31800
2017	FIN	her.27.3031	90677.10500
2017	FIN	spr.27.2232	16058.08400
2017	LTU	her.27.25-2932	3861.11700
2017	LTU	spr.27.2232	12493.59700
2017	LVA	her.27.25-2932	6815.38400
2017	LVA	her.27.28	16114.46400
2017	LVA	spr.27.2232	35740.44700
2017	POL	her.27.20-24	3332.96250
2017	POL	her.27.25-2932	40098.79360
2017	POL	spr.27.2232	71878.34400
2017	SWE	her.27.20-24	21989.33650
2017	SWE	her.27.25-2932	51191.96600
2017	SWE	her.27.3031	10795.86810
2017	SWE	spr.27.2232	48314.65800
2017	SWE	spr.27.3a	201.43500
2018	DEU	her.27.20-24	11603.16600
2018	DEU	her.27.25-2932	4025.53100
2018	DEU	spr.27.2232	15467.98800
2018	DEU	spr.27.3a	34.86100
2018	DNK	her.27.20-24	5836.99290
2018	DNK	her.27.25-2932	11367.50728
2018	DNK	spr.27.2232	25068.13076
2018	DNK	spr.27.3a	3312.32000
2018	EST	her.27.25-2932	22192.02745
2018	EST	her.27.28	12504.61940
2018	EST	spr.27.2232	29625.17450
2018	FIN	her.27.20-24	0.53600
2018	FIN	her.27.25-2932	44646.05300
2018	FIN	her.27.3031	79064.68500
2018	FIN	spr.27.2232	16467.81200
2018	LTU	her.27.25-2932	6237.90300
2018	LTU	spr.27.2232	16944.30900
2018	LVA	her.27.25-2932	9833.63400
2018	LVA	her.27.28	14524.72700
2018	LVA	spr.27.2232	37093.29100
2018	POL	her.27.20-24	1770.60500
2018	POL	her.27.25-2932	48933.31815

year	vslFlgCtry	stock	ton
2018	POL	spr.27.2232	79705.82200
2018	SWE	her.27.20-24	18733.33650
2018	SWE	her.27.25-2932	66918.61600
2018	SWE	her.27.3031	16492.58120
2018	SWE	spr.27.2232	49135.13600
2018	SWE	spr.27.3a	1053.64600
2019	FIN	her.27.3031	84.70400
2019	FIN	spr.27.2232	6.70000
NA	DEU	her.27.20-24	0.13200
NA	EST	her.27.25-2932	46.16085
NA	EST	her.27.28	32.62602
NA	EST	spr.27.2232	0.30500
NA	LVA	her.27.25-2932	3.83500
NA	LVA	spr.27.2232	5.83400

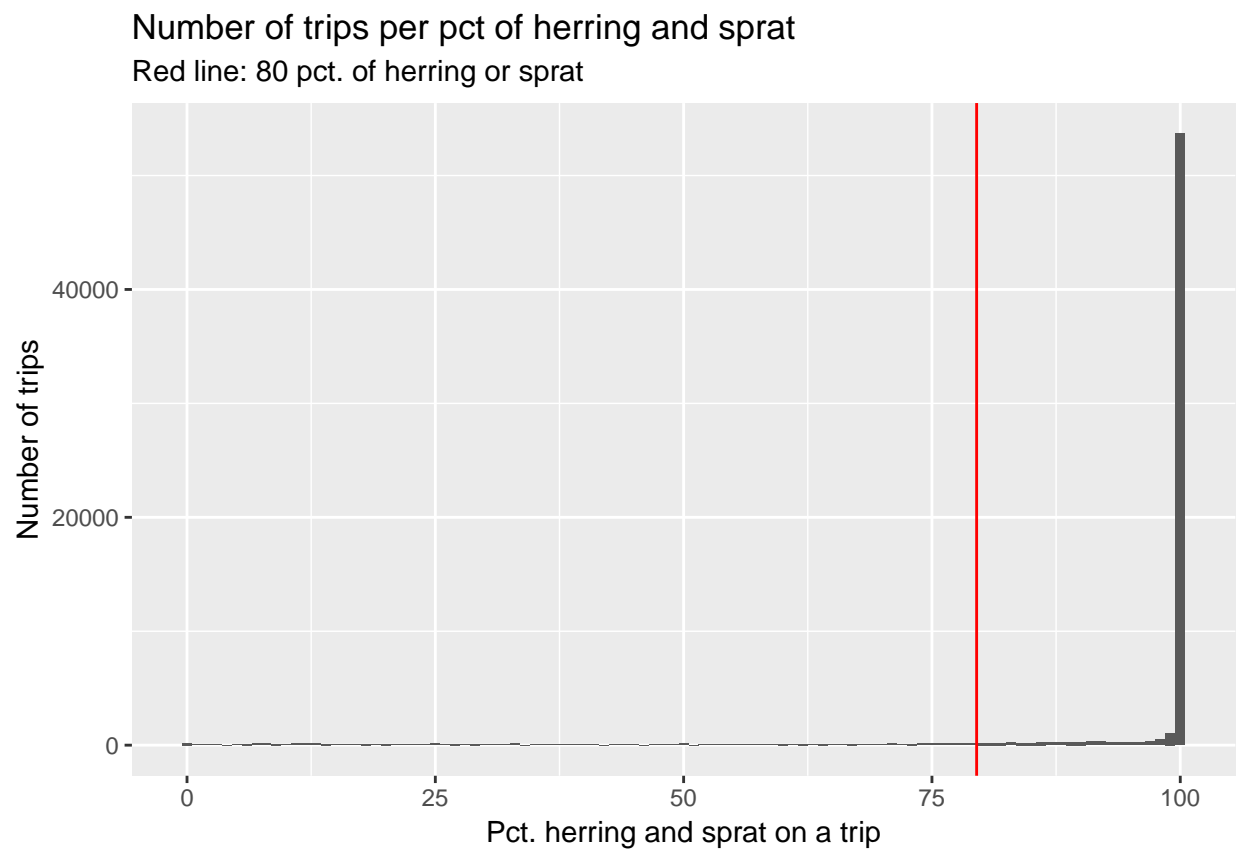


Figure 1: xx



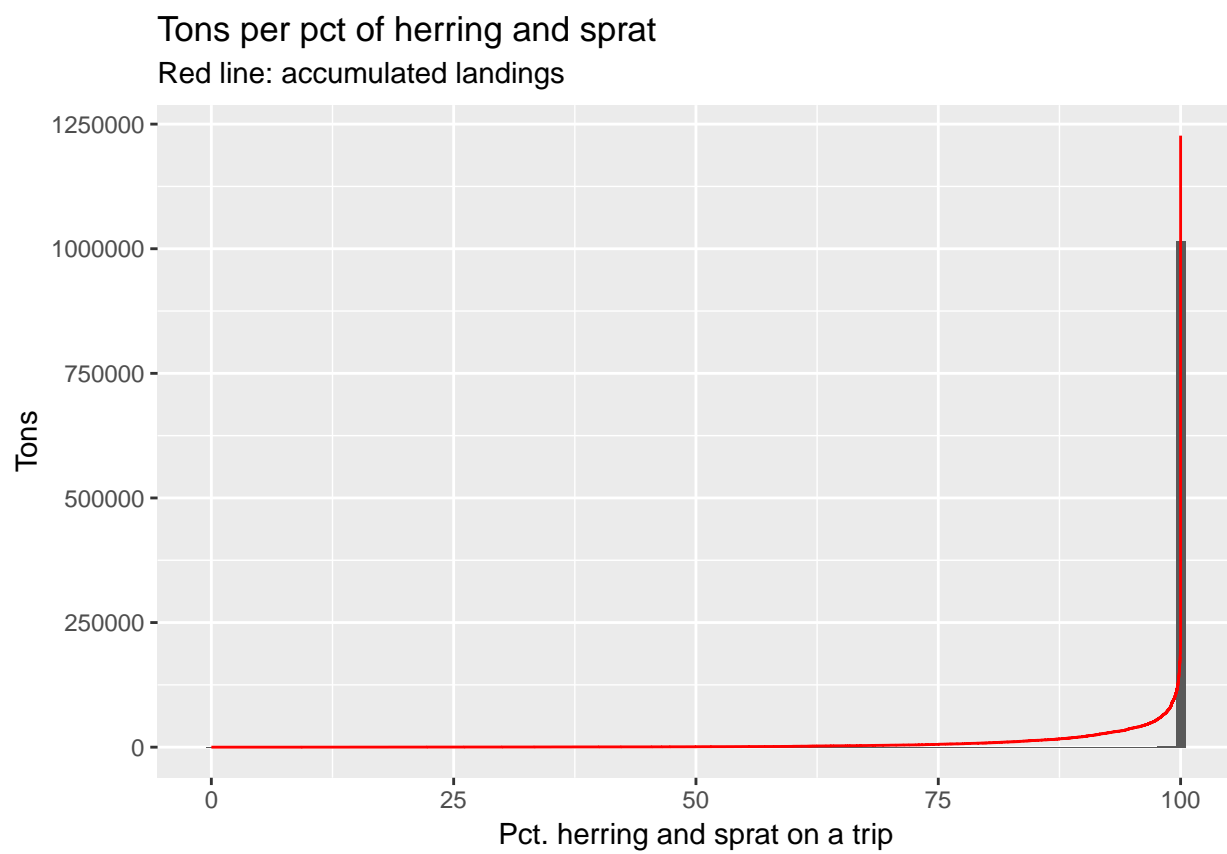


Figure 2: xx