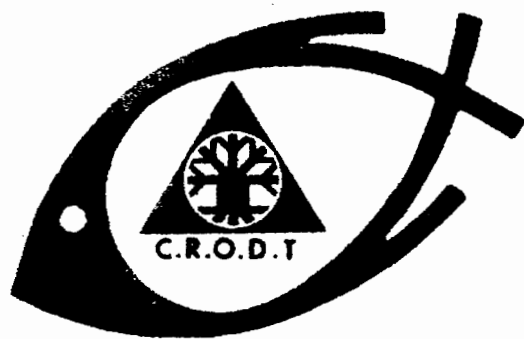


P. FRÉON

J. LOPEZ

LES POISSONS PELAGIQUES COTIERS
AU SENEGAL :
STRUCTURES DÉMOGRAPHIQUES DES CAPTURES
DES SARDINIERS DAKAROIS
EN 1979



CENTRE DE RECHERCHES OcéANOGRAPHIQUES DE DAKAR - THIAROYE

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STRUCTURE DEMOGRAPHIQUE
DES CAPTURES DES SARDINIERS DAKAROIS
EN 1979

par

P. FREON et J. LOPEZ

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INTRODUCTION

Ce document de travail présente la structure démographique des captures des sardiniers dakarois en 1979.

Les sardiniers basés à Dakar en 1979 étaient au nombre de 15, ils n'ont pas tous travaillé de façon continue. Les noms de ces bateaux sont les suivants :

FILS DE LA VIERGE (en janvier et d'octobre à décembre), JANICK DANIELE, SARENE (en janvier seulement), PENDA SARR (mai à décembre), FANAYE TORO, BOUSSOYA FOUTA, (1^{er} semestre), ALOUAR, KHADIM, BAHILLA, AMADY DIOUM, GOUYE BENNEU, DOUCHADARY et TENGEEJ (à partir d'octobre), IBRAHIMA BA et BAROBE (à partir de mai et avril respectivement).

Pour les principales espèces débarquées, les distributions de fréquences de tailles sont présentées mensuellement.

Le poids des captures par espèce, les efforts de pêche et les rendements de ces sardiniers ont fait l'objet d'un autre document (FREON et LOPEZ, 1980).

Les résultats obtenus sont exploités pour les études de biologie et de dynamique des populations. ils ont fait ou feront l'objet de publications.

PRESENTATION DES DONNEES

Les tableaux présentés correspondent aux tableaux "secteur total" du programme "FRESAR", dont la description détaillée est faite dans une autre archive (FREON et NDIAYE, 1979), aussi nous ne reppelerons ici que les points principaux.

Le programme extrapole les fréquences de tailles des échantillons à l'ensemble des captures des sardinières. Chaque capture et chaque échantillon sont associés à une zone de pêche et à un numéro de moule. Le moule correspond à une indication de taille donnée, aussi bien par les patrons pêcheurs que par l'enquêteur lorsqu'il assiste au débarquement (voir tabl. ci-dessous). Pour chaque mois, le programme fait une première tentative d'extrapolation effectuée à partir des échantillons et des captures ayant le même moule et provenant de la même zone de pêche. En cas d'échec, une deuxième tentative est entreprise à partir des échantillons et des captures ayant le même moule, mais pouvant provenir de zones de pêche différentes. Lorsque cette deuxième tentative échoue, un message est généré par le programme. Les fréquences de tailles des différents moules sont ensuite cumulées pour les différentes zones de pêche.

Ces résultats par zone de pêche sont imprimés sur listing, mais nous ne les avons pas présentés ici en raison du volume qu'ils représentent. Ils sont disponibles à la section "poissons pélagiques côtiers" du Centre de Recherches océanographiques de Dakar-Thiaroye, ainsi que les autres sorties du programme (tableaux par moule et tableaux "tous moules").

Les fréquences obtenues par zone de pêche sont ensuite cumulées par le programme et éditées dans un tableau "secteur total". Nous avons présenté ici ces tableaux sur lesquels figurent :

- le nom de l'espèce,
- la variance de la distribution des fréquences de tailles extrapolées,
- son écart type,
- sa moyenne,
- la fraction échantillonnée exprimée en pour mille (PPM),
- le poids total des captures de cette espèce (y compris éventuellement la fraction non extrapolée), exprimé en quintaux (Q_x),
- la liste des 44 classes centimétriques de tailles : la valeur indiquée correspond à la borne inférieure de chaque classe (exemple : classe 7 cm, intervalle 7,00 à 7,99 cm ; les mensurations sont effectuées de la pointe du museau au centre de la fourche caudale (L.F.),
- les fréquences en nombre de l'ensemble des échantillons (F),
- les mêmes fréquences exprimées en pourcentages (% F),
- les fréquences en nombre des captures (FREQ),
- les mêmes fréquences exprimées en pourcentages (% FREQ).

En raison du mode de calcul que nous avons exposé, on comprendra que les pourcentages des fréquences des échantillons peuvent différer de ceux des captures. Ces pourcentages ne seront rigoureusement identiques qu'à condition que les volumes des échantillons par zone et par moule soient exactement proportionnels aux prises qui leur correspondent.

Sur les pages titres en couleur, nous indiquerons mensuellement pour l'espèce considérée :

- le poids total des captures exprimé en quintaux (Q_x),
- le poids des captures n'ayant pu être associées à un échantillon,
- le pourcentage de ce poids par rapport à la capture totale,
- le ou les moules de ces captures et les poids correspondants.

A l'aide du tableau ci-dessous, il est toujours possible d'estimer grossièrement la structure démographique de ces captures non échantillonnées.

Tableau présentant les caractéristiques des différents moules des captures

MOULE	MOYENNE (cm)	ETENDUE (écart type X 2)	TYPE DE DISTRIBUTION DES FREQUENCES DE TAILLES
0	inconnue	inconnue	inconnu
1	14,0 à 16,0	8 cm	unimodal
2	16,5 à 18,5	7 cm	unimodal
3	17,0 à 25,0	20 cm	plurimodal
4	18,5 à 22,5	9 cm	unimodal
5	23,0 à 25,5	8 cm	unimodal
6	24,0 à 27,0	12 cm	bimodal
7	27,0 à 30,5	10 cm	unimodal
8	23,0 à 29,0	18 cm	plurimodal
9	> 35 cm	10 cm	unimodal ou plurimodal

AVERTISSEMENT

Les fréquences centimétriques extrapolées sont des nombres fractionnaires mais nous avons jugé préférable de les présenter sans décimale. Ceci explique les infimes différences pouvant exister entre la somme des fréquences extrapolées imprimées et le total indiqué en bas de tableau.

ARCHIVES CITEES

- FREON (P.) et NDIAYE (M.), 1979.- Les poissons pélagiques côtiers au Sénégal : chaîne des programmes de traitement informatique des données statistiques et démographiques issues de la pêche sardinière dakaroise, archive n° 74.
- LOPEZ (J.) et FREON (P.), 1980.- Les poissons pélagiques côtiers au Sénégal : Recueil de statistiques de la pêche sardinière dakaroise en 1979, archive n°

the following: (1) the number of observations, (2) the number of variables, (3) the number of missing values, (4) the number of observations with missing values, (5) the number of observations with missing values for each variable, (6) the number of observations with missing values for each variable, (7) the number of observations with missing values for each variable, (8) the number of observations with missing values for each variable, (9) the number of observations with missing values for each variable, (10) the number of observations with missing values for each variable.

The following table shows the results of the analysis. The first column shows the number of observations, the second column shows the number of variables, the third column shows the number of missing values, the fourth column shows the number of observations with missing values, the fifth column shows the number of observations with missing values for each variable, the sixth column shows the number of observations with missing values for each variable, the seventh column shows the number of observations with missing values for each variable, the eighth column shows the number of observations with missing values for each variable, the ninth column shows the number of observations with missing values for each variable, and the tenth column shows the number of observations with missing values for each variable.

Variable	Number of Observations	Number of Variables	Number of Missing Values	Number of Observations with Missing Values	Number of Observations with Missing Values for Each Variable	Number of Observations with Missing Values for Each Variable	Number of Observations with Missing Values for Each Variable	Number of Observations with Missing Values for Each Variable	Number of Observations with Missing Values for Each Variable
Variable 1	100	10	5	5	5	5	5	5	5
Variable 2	100	10	5	5	5	5	5	5	5
Variable 3	100	10	5	5	5	5	5	5	5
Variable 4	100	10	5	5	5	5	5	5	5
Variable 5	100	10	5	5	5	5	5	5	5
Variable 6	100	10	5	5	5	5	5	5	5
Variable 7	100	10	5	5	5	5	5	5	5
Variable 8	100	10	5	5	5	5	5	5	5
Variable 9	100	10	5	5	5	5	5	5	5
Variable 10	100	10	5	5	5	5	5	5	5

References

1. [Reference 1]
2. [Reference 2]
3. [Reference 3]
4. [Reference 4]
5. [Reference 5]
6. [Reference 6]
7. [Reference 7]
8. [Reference 8]
9. [Reference 9]
10. [Reference 10]

Sardinella aurita (S. ronde)

MOIS	PRISES (QUINTAUX)	DES ECHANTILLONNES.		
		Poids (Qx)	%	Moules
JANVIER	7 510	0	0	-
FEVRIER	11 462	0	0	-
MARS	10 936	0	0	-
AVRIL	3 799	0	0	-
MAI	14 584	0	0	-
JUIN	18 316	0	0	-
JUILLET	14 094	0	0	-
AOUT	1 516	0	0	-
SEPTEMBRE	3 922	0	0	-
OCTOBRE	8 680	0	0	-
NOVEMBRE	12 485	0	0	-
DECEMBRE	28 663	0	0	-
TOTAL	135 967	0	0	-

MOIS JANVIER 79

SARDINELLA AURITA

TOTAL

VARIANCE = 11.14 ECART-TYPE = 3.34 MOYENNE = 24.0

PPM MENSURATION = 0.89 PRISE = 7510. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	3	0.1	6502.	0.20
16	8	0.3	17339.	0.53
17	32	1.1	67972.	2.09
18	37	1.3	71560.	2.20
19	87	3.0	141954.	4.37
20	191	6.6	265523.	8.18
21	226	7.8	292502.	9.01
22	336	11.6	463180.	14.27
23	378	13.1	554598.	17.08
24	267	9.2	419195.	12.91
25	161	5.6	219051.	6.75
26	69	2.4	67737.	2.09
27	108	3.7	65372.	2.01
28	279	9.6	167660.	5.16
29	413	14.3	247416.	7.62
30	238	8.2	141876.	4.37
31	58	2.0	35791.	1.10
32	2	0.1	1232.	0.04
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	2893	100.0	3246466.	100.00

SARDINELLA AURITA

TOTAL

VARIANCE = 3.82 ECART-TYPE = 1.96 MOYENNE = 28.5

PPM MENSURATION = 0.64 PRISE = 11462.0X

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	0	0.0	0.	0.0
18	0	0.0	0.	0.0
19	0	0.0	0.	0.0
20	0	0.0	0.	0.0
21	0	0.0	0.	0.0
22	1	0.1	6872.	0.23
23	15	0.8	49479.	1.67
24	42	2.2	140379.	4.73
25	113	5.9	271574.	9.14
26	130	6.8	228233.	7.68
27	191	10.0	286860.	9.66
28	344	18.1	490781.	16.52
29	624	32.8	871342.	29.34
30	326	17.1	462999.	15.59
31	111	5.8	154733.	5.21
32	6	0.3	6839.	0.23
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	1903	100.0	2970095.	100.00

SARDINELLA AURITA

TOTAL

VARIANCE = 2.03 ECART-TYPE = 1.43 MOYENNE = 29.4

PPM MENSURATION = 0.75 PRISE = 10936. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	0	0.0	0.	0.0
18	0	0.0	0.	0.0
19	0	0.0	0.	0.0
20	0	0.0	0.	0.0
21	0	0.0	0.	0.0
22	0	0.0	0.	0.0
23	1	0.1	1390.	0.05
24	11	0.6	15292.	0.60
25	36	1.9	50047.	1.96
26	60	3.1	83412.	3.26
27	174	9.0	240954.	9.42
28	341	17.7	457082.	17.87
29	536	27.8	701758.	27.44
30	556	28.9	733336.	28.67
31	183	9.5	237427.	9.28
32	28	1.5	37039.	1.45
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	1926	100.0	2557739.	100.00

SARDINELLA AURITA

TOTAL

VARIANCE = 1.54 ECART-TYPE = 1.24 MOYENNE = 30.1

PPM MENSURATION = 0.78 PRISE = 3799. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	0	0.0	0.	0.0
18	0	0.0	0.	0.0
19	0	0.0	0.	0.0
20	0	0.0	0.	0.0
21	4	0.6	111.	0.01
22	40	6.2	1111.	0.13
23	83	12.8	2305.	0.28
24	48	7.4	3067.	0.37
25	7	1.1	3663.	0.44
26	8	1.2	14098.	1.70
27	13	2.0	22910.	2.76
28	33	5.1	58156.	7.01
29	120	18.5	211478.	25.49
30	207	32.0	364801.	43.97
31	72	11.1	126887.	15.29
32	12	1.9	21147.	2.55
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	647	100.0	829740.	100.00

SARDINELLA AURITA

TOTAL

VARIANCE = 7.22 ECART-TYPE = 2.69 MOYENNE = 22.8

PPM MENSURATION = 0.39 PRISE = 14584. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	1	0.0	3355.	0.04
17	26	0.9	86045.	1.12
18	96	3.2	312542.	4.07
19	219	7.3	700098.	9.11
20	254	8.5	788082.	10.25
21	334	11.2	947735.	12.33
22	616	20.6	1695157.	22.05
23	544	18.2	1579184.	20.55
24	238	8.0	631761.	8.22
25	114	3.8	207447.	2.70
26	59	2.0	100511.	1.31
27	56	1.9	84901.	1.10
28	103	3.5	127807.	1.66
29	182	6.1	196930.	2.56
30	119	4.0	188033.	2.45
31	22	0.7	35244.	0.46
32	1	0.0	1211.	0.02
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	2984	100.0	7686056.	100.00

SARDINELLA AURITA

TOTAL

VARIANCE = 4.96 ECART-TYPE = 2.23 MOYENNE = 22.3

PPM MENSURATION = 0.36 PRISE = 18316.0X

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	2	0.1	2072.	0.02
16	79	2.1	161975.	1.54
17	152	4.0	337413.	3.20
18	192	5.1	532029.	5.05
19	239	6.3	894474.	8.49
20	195	5.1	695552.	6.60
21	290	7.7	903927.	8.58
22	790	20.9	2457267.	23.32
23	939	24.8	2853341.	27.08
24	438	11.6	1195408.	11.35
25	131	3.5	261792.	2.48
26	57	1.5	61729.	0.59
27	44	1.2	32296.	0.31
28	64	1.7	44005.	0.42
29	114	3.0	67445.	0.64
30	54	1.4	32316.	0.31
31	6	0.2	2812.	0.03
32	1	0.0	468.	0.00
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	3787	100.0	10536337.	100.00

MOISJUILLET 79

SARDINELLA AURITA

TOTAL

VARIANCE = 1.81 ECART-TYPE = 1.35 MOYENNE = 22.5

PPM MENSURATION = 0.28 PRISE = 14094. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	0	0.0	0.	0.0
18	13	0.6	52076.	0.65
19	73	3.3	301277.	3.76
20	204	9.2	828202.	10.34
21	337	15.2	1323392.	16.53
22	628	28.4	2287917.	28.58
23	684	31.0	2333248.	29.14
24	209	9.5	692118.	8.64
25	53	2.4	163246.	2.04
26	8	0.4	21889.	0.27
27	1	0.0	2736.	0.03
28	0	0.0	0.	0.0
29	0	0.0	0.	0.0
30	0	0.0	0.	0.0
31	0	0.0	0.	0.0
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	2210	100.0	8006106.	100.00

SARDINELLA AURITA

TOTAL

VARIANCE = 2.06 ECART-TYPE = 1.44 MOYENNE = 23.4

PPM MENSURATION = 0.92 PRISE = 1516. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	0	0.0	0.	0.0
18	0	0.0	0.	0.0
19	7	1.0	9297.	1.23
20	34	4.9	44440.	5.86
21	68	9.7	82773.	10.91
22	126	18.0	145797.	19.22
23	189	27.0	198936.	26.23
24	194	27.8	196595.	25.92
25	65	9.3	64776.	8.54
26	14	2.0	13924.	1.84
27	2	0.3	1937.	0.26
28	0	0.0	0.	0.0
29	0	0.0	0.	0.0
30	0	0.0	0.	0.0
31	0	0.0	0.	0.0
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	699	100.0	758478.	100.00

MOIS SEPTEMBRE 79

SARDINELLA AURITA

TOTAL

VARIANCE = 1.81 ECART-TYPE = 1.35 MOYENNE = 22.3

PPM MENSURATION = 0.36 PRISE = 3922. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	0	0.0	0.	0.0
18	0	0.0	0.	0.0
19	15	1.8	42268.	1.86
20	129	15.8	386761.	16.99
21	210	25.8	618538.	27.17
22	226	27.7	574424.	25.23
23	144	17.7	390465.	17.15
24	69	8.5	194704.	8.55
25	19	2.3	57674.	2.53
26	3	0.4	11757.	0.52
27	0	0.0	0.	0.0
28	0	0.0	0.	0.0
29	0	0.0	0.	0.0
30	0	0.0	0.	0.0
31	0	0.0	0.	0.0
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	815	100.0	2276595.	100.00

SARDINELLA AURITA

TOTAL

VARIANCE = 1.82 ECART-TYPE = 1.35 MOYENNE = 21.8
 PPM MENSURATION = 0.41 PRISE = 8680. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	1	0.0	2744.	0.05
18	20	0.9	54885.	1.00
19	163	7.2	442759.	8.03
20	432	19.2	1165009.	21.14
21	539	23.9	1397071.	25.35
22	614	27.3	1456931.	26.43
23	329	14.6	695334.	12.62
24	112	5.0	220696.	4.00
25	38	1.7	70073.	1.27
26	3	0.1	5952.	0.11
27	0	0.0	0.	0.0
28	0	0.0	0.	0.0
29	0	0.0	0.	0.0
30	0	0.0	0.	0.0
31	0	0.0	0.	0.0
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	2251	100.0	5511462.	100.00

SARDINELLA AURITA

TOTAL

VARIANCE = 2.56 ECART-TYPE = 1.60 MOYENNE = 22.3

PPN MENSURATION = 0.20 PRISE = 12485. GX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	2	0.1	11897.	0.16
18	28	1.9	166570.	2.28
19	56	3.8	337188.	4.62
20	148	10.1	880899.	12.08
21	285	19.4	1649284.	22.62
22	402	27.4	1989781.	27.29
23	329	22.4	1395472.	19.14
24	134	9.1	533306.	7.31
25	53	3.6	226360.	3.10
26	15	1.0	50737.	0.70
27	3	0.2	13254.	0.18
28	7	0.5	18167.	0.25
29	3	0.2	7705.	0.11
30	4	0.3	10180.	0.14
31	0	0.0	0.	0.0
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	1469	100.0	7290811.	100.00

SARDINELLA AURITA

TOTAL

VARIANCE = 13.24 ECART-TYPE = 3.64 MOYENNE = 24.9

PPM MENSURATION = 0.33 PRISE = 28663- QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	2	0.1	15855.	0.15
18	12	0.3	77192.	0.71
19	97	2.7	407942.	3.75
20	269	7.6	890519.	8.18
21	394	11.1	1272740.	11.70
22	555	15.6	1843720.	16.94
23	433	12.2	1469519.	13.50
24	189	5.3	616358.	5.66
25	72	2.0	198334.	1.82
26	66	1.9	175315.	1.61
27	198	5.6	525750.	4.83
28	358	10.1	980692.	9.01
29	443	12.5	1252154.	11.51
30	341	9.6	869472.	7.99
31	103	2.9	252112.	2.32
32	16	0.5	34577.	0.32
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	3548	100.0	10882268.	100.00

Table 1

continued

Variable	Mean	Standard deviation	Minimum	Maximum
Age	38.5	10.2	21	65
Gender	0.48	0.50	0	1
Marital status	0.65	0.48	0	1
Education	12.5	1.8	9	16
Income	45,000	15,000	20,000	80,000
Health status	0.75	0.42	0	1
Employment status	0.85	0.35	0	1
Home ownership	0.60	0.49	0	1
Auto ownership	0.70	0.46	0	1
Life insurance	0.55	0.50	0	1
Retirement savings	0.40	0.50	0	1
Charitable contributions	0.15	0.35	0	1
Debt-to-income ratio	0.25	0.15	0	0.5
Net worth	100,000	50,000	0	200,000
Life expectancy	78	5	70	85
Healthcare costs	1,500	500	0	3,000
Disability risk	0.10	0.30	0	1
Long-term care needs	0.05	0.20	0	1
Family size	2.5	1.0	1	5
Geographic location	0.50	0.50	0	1
Time to retirement	15	5	0	30
Current assets	50,000	20,000	0	100,000
Current liabilities	20,000	10,000	0	40,000
Net assets	30,000	10,000	0	60,000
Overall financial health	0.60	0.40	0	1

Sardinella eba (= S. maderensis) (S. plate)

MOIS	PRISES (QUINTAUX)	NO. ECHANTILLONNÉS		
		Poids (Qx)	%	Moules
JANVIER	217	0	0	-
FEVRIER	0	-	-	-
MARS	0	-	-	-
AVRIL	95	0	0	-
MAI	2 202	0	0	-
JUIN	15 065	0	0	-
JUILLET	25 720	0	0	-
AOUT	11 580	0	0	-
SEPTEMBRE	12 453	0	0	-
OCTOBRE	8 759	0	0	-
NOVEMBRE	8 826	0	0	-
DECEMBRE	2 241	0	0	-
TOTAL	87 158	0	0	-

NOISJANVIER 79

SARDINELLA EBA

TOTAL

VARIANCE = 11.65 ECART-TYPE = 3.41 MOYENNE = 20.3

PPM MENSURATION = 2.57 PRISE = 217. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	4	1.0	911.	0.61
12	34	8.8	7744.	5.15
13	31	8.0	7061.	4.69
14	24	6.2	5466.	3.63
15	17	4.4	3872.	2.57
16	6	1.6	1745.	1.16
17	11	2.8	2505.	1.66
18	26	6.7	7817.	5.19
19	34	8.8	10777.	7.16
20	41	10.6	18058.	12.00
21	47	12.2	23595.	15.68
22	55	14.2	29967.	19.91
23	44	11.4	24807.	16.49
24	11	2.8	5917.	3.93
25	1	0.3	227.	0.15
26	0	0.0	0.	0.0
27	0	0.0	0.	0.0
28	0	0.0	0.	0.0
29	0	0.0	0.	0.0
30	0	0.0	0.	0.0
31	0	0.0	0.	0.0
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	386	100.0	150476.	100.00

SARDINELLA EBA

TOTAL

VARIANCE = 1.27 ECART-TYPE = 1.13 MOYENNE = 26.5

PPM MENSURATION = 4.21 PRISE = 95. GX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	0	0.0	0.	0.0
18	0	0.0	0.	0.0
19	0	0.0	0.	0.0
20	0	0.0	0.	0.0
21	0	0.0	0.	0.0
22	0	0.0	0.	0.0
23	0	0.0	0.	0.0
24	10	7.7	2375.	7.69
25	31	23.8	7362.	23.84
26	49	37.7	11637.	37.69
27	27	20.8	6412.	20.77
28	9	6.9	2137.	6.92
29	4	3.1	950.	3.08
30	0	0.0	0.	0.0
31	0	0.0	0.	0.0
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	130	100.0	30875.	99.99

SARDINELLA EBA

TOTAL

VARIANCE = 3.64 ECART-TYPE = 1.91 MOYENNE = 23.1

PPM MENSURATION = 0.91 PRISE = 2202. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	2	0.2	1181.	0.11
17	3	0.3	2918.	0.27
18	5	0.5	4863.	0.45
19	7	0.7	6809.	0.63
20	47	4.8	48648.	4.47
21	211	21.3	257482.	23.67
22	287	29.0	344329.	31.65
23	165	16.7	182017.	16.73
24	71	7.2	58970.	5.42
25	70	7.1	55619.	5.11
26	64	6.5	67935.	6.24
27	39	3.9	38978.	3.58
28	12	1.2	12529.	1.15
29	6	0.6	5707.	0.52
30	0	0.0	0.	0.0
31	0	0.0	0.	0.0
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	989	100.0	1087991.	100.00

SARDINELLA EBA

TOTAL

VARIANCE = 5.02 ECART-TYPE = 2.24 MOYENNE = 22.7

PPM MENSURATION = 0.49 PRISE = 15065. GX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	1	0.0	891.	0.01
14	5	0.1	4457.	0.06
15	20	0.5	17831.	0.23
16	16	0.4	15409.	0.20
17	30	0.8	57339.	0.74
18	38	1.0	60675.	0.79
19	125	3.3	311331.	4.03
20	523	13.8	1255862.	16.26
21	692	18.2	1890352.	24.48
22	497	13.1	1199651.	15.54
23	396	10.4	746059.	9.66
24	440	11.6	679501.	8.80
25	516	13.6	746399.	9.67
26	298	7.9	438497.	5.68
27	138	3.6	222099.	2.88
28	39	1.0	51043.	0.66
29	18	0.5	21120.	0.27
30	3	0.1	3240.	0.04
31	0	0.0	0.	0.0
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	3795	100.0	7721770.	100.00

MOISJUILLET 79

SARDINELLA EBA

TOTAL

VARIANCE = 4.10 ECART-TYPE = 2.02 MOYENNE = 22.2

PPM MENSURATION = 0.27 PRISE = 25720 QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	2	0.1	6628.	0.05
16	5	0.1	18190.	0.13
17	20	0.5	77623.	0.55
18	85	2.2	366522.	2.58
19	322	8.5	1415611.	9.98
20	678	17.9	2876458.	20.28
21	556	14.7	2151547.	15.17
22	624	16.5	2246862.	15.84
23	614	16.2	2114979.	14.91
24	444	11.7	1484356.	10.47
25	283	7.5	940293.	6.63
26	122	3.2	384254.	2.71
27	26	0.7	83761.	0.59
28	3	0.1	9662.	0.07
29	1	0.0	3651.	0.03
30	0	0.0	0.	0.0
31	0	0.0	0.	0.0
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	3785	100.0	14180414.	100.00

SARDINELLA EBA

TOTAL

VARIANCE = 3.45 ECART-TYPE = 1.86 MOYENNE = 22.3

PPM MENSURATION = 0.29 PRISE = 11580. GX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	6	0.3	9848.	0.15
18	97	5.2	202301.	3.18
19	192	10.4	520496.	8.17
20	269	14.5	943770.	14.81
21	331	17.9	1235527.	19.39
22	356	19.2	1326104.	20.81
23	263	14.2	942994.	14.80
24	190	10.2	673431.	10.57
25	104	5.6	366446.	5.75
26	35	1.9	110169.	1.73
27	11	0.6	40453.	0.63
28	0	0.0	0.	0.0
29	0	0.0	0.	0.0
30	0	0.0	0.	0.0
31	0	0.0	0.	0.0
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	1854	100.0	6371542.	100.00

MOIS SEPTEMBRE 79

SARDINELLA EBA

TOTAL

VARIANCE = 3.11 ECART-TYPE = 1.76 MOYENNE = 20.8

PPM MENSURATION = 0.29 PRISE = 12453. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	25	1.0	89592.	1.06
18	254	10.5	890303.	10.50
19	638	26.3	2227243.	26.27
20	616	25.4	2131678.	25.15
21	327	13.5	1127432.	13.30
22	269	11.1	940182.	11.09
23	161	6.6	573198.	6.76
24	73	3.0	264510.	3.12
25	40	1.6	146747.	1.73
26	16	0.7	61793.	0.73
27	6	0.2	24696.	0.29
28	0	0.0	0.	0.0
29	0	0.0	0.	0.0
30	0	0.0	0.	0.0
31	0	0.0	0.	0.0
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	2425	100.0	8477384.	100.00

SARDINELLA EBA

TOTAL

VARIANCE = 1.75 ECART-TYPE = 1.32 MOYENNE = 19.8

PPM MENSURATION = 0.38 PRISE = 8759.0X

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	32	1.2	87650.	1.25
17	169	6.4	462905.	6.58
18	476	18.0	1303804.	18.54
19	803	30.3	2198042.	31.26
20	663	25.0	1782828.	25.36
21	304	11.5	766314.	10.90
22	145	5.5	319256.	4.54
23	50	1.9	96556.	1.37
24	6	0.2	10663.	0.15
25	1	0.0	2739.	0.04
26	0	0.0	0.	0.0
27	0	0.0	0.	0.0
28	0	0.0	0.	0.0
29	0	0.0	0.	0.0
30	0	0.0	0.	0.0
31	0	0.0	0.	0.0
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	2649	100.0	7030766.	100.00

MOIS NOVEMBRE 79

SARDINELLA EBA

TOTAL

VARIANCE = 1.70 * ECART-TYPE = 1.30 MOYENNE = 20.4

PPM MENSURATION = 0.27 PRISE = 8826. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	1	0.1	3892.	0.06
16	22	1.2	83746.	1.28
17	61	3.5	231398.	3.54
18	153	8.7	563824.	8.62
19	377	21.4	1392684.	21.29
20	613	34.8	2281096.	34.88
21	364	20.6	1352657.	20.68
22	136	7.7	500673.	7.65
23	34	1.9	123657.	1.89
24	2	0.1	7029.	0.11
25	0	0.0	0.	0.0
26	0	0.0	0.	0.0
27	0	0.0	0.	0.0
28	0	0.0	0.	0.0
29	0	0.0	0.	0.0
30	0	0.0	0.	0.0
31	0	0.0	0.	0.0
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	1763	100.0	6540661.	100.00

SARDINELLA EBA

TOTAL

VARIANCE = 10.45 ECART-TYPE = 3.23 MOYENNE = 19.2

PPM MENSURATION = 0.44 PRISE = 2241. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	5	0.6	8657.	0.48
11	26	3.3	45021.	2.48
12	67	8.5	116015.	6.40
13	35	4.4	92823.	5.12
14	6	0.8	10505.	0.58
15	9	1.1	16393.	0.90
16	41	5.2	75619.	4.17
17	59	7.5	108753.	6.00
18	69	8.7	126532.	6.98
19	125	15.8	228009.	12.58
20	163	20.7	351091.	19.37
21	115	14.6	347647.	19.18
22	55	7.0	227809.	12.57
23	11	1.4	41335.	2.28
24	3	0.4	16165.	0.89
25	0	0.0	0.	0.0
26	0	0.0	0.	0.0
27	0	0.0	0.	0.0
28	0	0.0	0.	0.0
29	0	0.0	0.	0.0
30	0	0.0	0.	0.0
31	0	0.0	0.	0.0
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	789	100.0	1812381.	100.00

Caranx rhonchus (Chinchard jaune)

MOIS	PRISES (QUINTAUX)	NON ECHANTILLONNEES		
		Poids (Qx)	%	Moules
JANVIER	1 119	0	0	-
FEVRIER	4 892	0	0	-
MARS	5 567	0	0	-
AVRIL	918	0	0	-
MAI	540	150	28	4
JUIN	83	0	0	-
JUILLET	0	-	-	-
AOUT	0	-	-	-
SEPTEMBRE	0	-	-	-
OCTOBRE	9	9	100	5
NOVEMBRE	199	1	0,5	5
DECEMBRE	3 582	0	0	-
TOTAL	16 909	160	0,94	4 (150 Qx) 5 (10 Qx)

MOIS JANVIER 79

CARANX RHONCHUS

TOTAL

VARIANCE = 7.10 ECART-TYPE = 2.67 MOYENNE = 27.2

PPM MENSURATION = 1.70 PRISE = 1119. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	1	0.2	3000.	0.81
18	0	0.0	0.	0.0
19	1	0.2	3000.	0.81
20	2	0.3	3211.	0.87
21	12	1.9	8117.	2.20
22	30	4.8	9139.	2.47
23	54	8.6	29251.	7.91
24	40	6.4	26832.	7.26
25	42	6.7	13155.	3.56
26	65	10.3	31074.	8.41
27	116	18.4	71703.	19.40
28	128	20.3	79588.	21.53
29	84	13.4	59873.	16.20
30	35	5.6	20734.	5.61
31	14	2.2	7760.	2.10
32	3	0.5	1701.	0.46
33	2	0.3	1489.	0.40
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	629	100.0	369632.	100.00

CARANX RHONCHUS

TOTAL

VARIANCE = 2.56 ECART-TYPE = 1.60 MOYENNE = 27.9

PPM MENSURATION = 0-90 PRISE = 4892 QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	0	0.0	0.	0.0
18	0	0.0	0.	0.0
19	0	0.0	0.	0.0
20	0	0.0	0.	0.0
21	0	0.0	0.	0.0
22	1	0.1	1128.	0.08
23	3	0.2	3384.	0.23
24	31	2.3	34113.	2.30
25	119	8.9	133394.	8.99
26	242	18.1	271302.	18.28
27	327	24.4	365478.	24.63
28	313	23.4	347963.	23.45
29	175	13.1	189693.	12.78
30	72	5.4	77789.	5.24
31	46	3.4	48456.	3.27
32	6	0.4	6769.	0.46
33	3	0.2	3384.	0.23
34	1	0.1	1128.	0.08
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	1339	100.0	1483984.	100.00

CARANX RHUNCHUS

TOTAL

VARIANCE = 4.23 ECART-TYPE = 2.06 MOYENNE = 29.6

PPM MENSURATION = 0.65 PRISE = 5567. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	0	0.0	0.	0.0
18	0	0.0	0.	0.0
19	0	0.0	0.	0.0
20	0	0.0	0.	0.0
21	0	0.0	0.	0.0
22	0	0.0	0.	0.0
23	1	0.1	1484.	0.11
24	6	0.7	11025.	0.79
25	22	2.4	38308.	2.74
26	46	5.1	76055.	5.45
27	115	12.7	183434.	13.14
28	143	15.7	222884.	15.96
29	192	21.1	292806.	20.97
30	181	19.9	268711.	19.25
31	85	9.4	126190.	9.04
32	53	5.8	78683.	5.64
33	41	4.5	60868.	4.36
34	18	2.0	26722.	1.91
35	6	0.7	8907.	0.64
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	909	100.0	1396081.	100.00

CARANX RHONCHUS

TOTAL

VARIANCE = 5.52 ECART-TYPE = 2.35 MOYENNE = 30.2

PPM MENSURATION = 1.64 PRISE = 918.00

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	0	0.0	0.	0.0
18	0	0.0	0.	0.0
19	0	0.0	0.	0.0
20	0	0.0	0.	0.0
21	0	0.0	0.	0.0
22	0	0.0	0.	0.0
23	0	0.0	0.	0.0
24	0	0.0	0.	0.0
25	0	0.0	0.	0.0
26	11	3.1	10560.	4.88
27	30	8.4	28800.	13.30
28	48	13.5	46080.	21.28
29	43	12.1	32835.	15.17
30	34	9.6	19972.	9.23
31	47	13.2	22600.	10.44
32	46	12.9	19528.	9.02
33	51	14.3	20810.	9.61
34	30	8.4	11206.	5.18
35	11	3.1	2818.	1.30
36	5	1.4	1281.	0.59
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	356	100.0	216492.	100.00

CARANX RHONGNUS

TOTAL

VARIANCE = 14.22 ECART-TYPE = 2.05 MOYENNE = 30.9

PPM MENSURATION = 30.77

PRISE = 540. QX

LF	FREQ	Z F	FREQ	Z FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	0	0.0	0.	0.0
18	0	0.0	0.	0.0
19	0	0.0	0.	0.0
20	0	0.0	0.	0.0
21	0	0.0	0.	0.0
22	0	0.0	0.	0.0
23	0	0.0	0.	0.0
24	0	0.0	0.	0.0
25	0	0.0	0.	0.0
26	0	0.0	0.	0.0
27	1	1.5	1388.	1.57
28	12	17.6	14888.	16.88
29	15	22.1	19055.	21.60
30	16	23.5	22222.	25.19
31	4	5.9	4666.	5.29
32	4	5.9	5555.	6.30
33	6	8.8	8333.	9.45
34	9	13.2	11611.	13.16
35	1	1.5	500.	0.57
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	68	100.0	88222.	100.00

MOISJUN 79

37

CARANX RHONCHUS

TOTAL

VARIANCE = 1.32 ECART-TYPE = 1.15 MOYENNE = 29.4

PPM MENSURATION = 0.60 PRISE = 83. GX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	0	0.0	0.	0.0
18	0	0.0	0.	0.0
19	0	0.0	0.	0.0
20	0	0.0	0.	0.0
21	0	0.0	0.	0.0
22	0	0.0	0.	0.0
23	0	0.0	0.	0.0
24	0	0.0	0.	0.0
25	0	0.0	0.	0.0
26	0	0.0	0.	0.0
27	1	7.1	1660.	7.14
28	6	42.9	9960.	42.86
29	3	21.4	4980.	21.43
30	2	14.3	3320.	14.29
31	2	14.3	3320.	14.29
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	14	100.0	23240.	100.00

MOIS NOVEMBRE 79

CARANX RHONCHUS

TOTAL

VARIANCE = 7.96 ECART-TYPE = 2.82 MOYENNE = 26.3

PPM MENSURATION = 1.65 PRISE = 199. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	0	0.0	0.	0.0
18	2	1.9	460.	0.73
19	5	4.8	1150.	1.82
20	7	6.7	1610.	2.55
21	8	7.7	1840.	2.91
22	10	9.6	2300.	3.64
23	18	17.3	4140.	6.55
24	11	10.6	2530.	4.00
25	10	9.6	9440.	14.94
26	12	11.5	20610.	32.62
27	7	6.7	5180.	8.20
28	7	6.7	5180.	8.20
29	5	4.8	1150.	1.82
30	0	0.0	0.	0.0
31	2	1.9	7600.	12.03
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	104	100.0	63190.	100.00

CARANX RHONCHUS

TOTAL

VARIANCE = 6.97 ECART-TYPE = 2.64 MOYENNE = 25.1
 PPM MENSURATION = 0.44 PRISE = 3582. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	1	0.2	525.	0.04
12	0	0.0	0.	0.0
13	1	0.2	525.	0.04
14	0	0.0	0.	0.0
15	4	0.6	2100.	0.14
16	32	5.0	16800.	1.15
17	69	10.7	38918.	2.66
18	38	5.9	22643.	1.55
19	13	2.0	14905.	1.02
20	19	3.0	28829.	1.97
21	13	2.0	31066.	2.13
22	19	3.0	50376.	3.45
23	41	6.4	107715.	7.38
24	80	12.5	227847.	15.60
25	123	19.2	363110.	24.86
26	98	15.3	287381.	19.68
27	61	9.5	179946.	12.32
28	16	2.5	45889.	3.14
29	7	1.1	19835.	1.36
30	5	0.8	16092.	1.10
31	2	0.3	6000.	0.41
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	642	100.0	1460506.	100.00

Pomadasya jubelini (Sompatt)

MOIS	PRISES (QUINTAUX)	NON ECHANTILLONNÉES		
		Poids (Qx)	%	Moules
JANVIER	49	0	0	-
FÉVRIER	0	-	-	-
MARS	0	-	-	-
AVRIL	0	-	-	-
MAI	73	73	100	7
JUIN	94	94	100	5(41 Qx) et 7(53 Qx)
JUILLET	0	-	-	-
AOUT	8	8	100	5
SEPTEMBRE	84	24	28	5(22 Qx) et 7(2 Qx)
OCTOBRE	156	57	36	7
NOVEMBRE	1 255	2	0,16	5
DECEMBRE	805	0	0	-
TOTAL	2 524	258	10	5(73 Qx) et 7(185 Qx)

MOIS JANVIER 79

POMADASY'S JUBELINI

TOTAL

VARIANCE = 6.84 ECART-TYPE = 2.62 MOYENNE = 27.6

PPM MENSURATION = 7.14 PRISE = 49. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	0	0.0	0.	0.0
18	0	0.0	0.	0.0
19	0	0.0	0.	0.0
20	0	0.0	0.	0.0
21	0	0.0	0.	0.0
22	0	0.0	0.	0.0
23	5	5.1	700.	5.10
24	6	6.1	840.	6.12
25	12	12.2	1680.	12.24
26	22	22.4	3080.	22.45
27	18	18.4	2520.	18.37
28	15	15.3	2100.	15.31
29	13	13.3	1820.	13.27
30	2	2.0	280.	2.04
31	0	0.0	0.	0.0
32	1	1.0	140.	1.02
33	1	1.0	140.	1.02
34	0	0.0	0.	0.0
35	1	1.0	140.	1.02
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	1	1.0	140.	1.02
39	1	1.0	140.	1.02
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	98	100.0	13720.	100.00

POMADASYB JUBELINI

TOTAL

VARIANCE = 18.48 ECART-TYPE = 4.30 MOYENNE = 31.9

PPM MENSURATION = 10.33 PRISE = 84.0X

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	0	0.0	0.	0.0
18	0	0.0	0.	0.0
19	0	0.0	0.	0.0
20	0	0.0	0.	0.0
21	0	0.0	0.	0.0
22	1	0.9	96.	0.91
23	1	0.9	96.	0.91
24	1	0.9	96.	0.91
25	5	4.6	483.	4.58
26	6	5.5	580.	5.50
27	5	4.6	483.	4.58
28	11	10.1	1064.	10.09
29	15	13.8	1451.	13.76
30	6	5.5	580.	5.50
31	5	4.6	483.	4.58
32	8	7.3	774.	7.34
33	7	6.4	677.	6.42
34	6	5.5	580.	5.50
35	12	11.0	1161.	11.01
36	9	8.3	870.	8.25
37	5	4.6	483.	4.58
38	2	1.8	193.	1.83
39	1	0.9	96.	0.91
40	0	0.0	0.	0.0
41	3	2.8	290.	2.75
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	109	100.0	10548.	99.89

MOIS OCTOBRE 79

POMADASYA JUBELINI

TOTAL

VARIANCE = 5.97 ECART-TYPE = 2.44 MOYENNE = 26.8

PPH MENSURATION = 3.74 PRISE = 156 QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	0	0.0	0.	0.0
18	0	0.0	0.	0.0
19	0	0.0	0.	0.0
20	0	0.0	0.	0.0
21	0	0.0	0.	0.0
22	6	5.4	1605.	5.40
23	11	9.9	2943.	9.91
24	10	9.0	2675.	9.01
25	14	12.6	3745.	12.61
26	14	12.6	3745.	12.61
27	25	22.5	6689.	22.52
28	12	10.8	3210.	10.81
29	9	8.1	2408.	8.11
30	3	2.7	802.	2.70
31	3	2.7	802.	2.70
32	4	3.6	1070.	3.60
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	111	100.0	29699.	99.98

POMADASYA JUBELINI

TOTAL

VARIANCE = 3.82 ECART-TYPE = 1.95 MOYENNE = 27.5

PPM MENSURATION = 2.83

PRISE = 1255.00X

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	0	0.0	0.	0.0
18	0	0.0	0.	0.0
19	0	0.0	0.	0.0
20	0	0.0	0.	0.0
21	2	0.2	331.	0.09
22	18	1.8	3969.	1.12
23	44	4.4	14016.	3.96
24	64	6.4	21172.	5.97
25	89	8.9	31158.	8.79
26	165	16.5	61546.	17.37
27	225	22.5	86184.	24.32
28	190	19.0	67524.	19.06
29	113	11.3	37555.	10.60
30	56	5.6	20375.	5.75
31	21	2.1	6599.	1.86
32	9	0.9	2130.	0.60
33	3	0.3	816.	0.23
34	1	0.1	325.	0.09
35	0	0.0	0.	0.0
36	1	0.1	325.	0.09
37	1	0.1	325.	0.09
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	1002	100.0	354359.	100.00

MOIS DECEMBRE 79

POMADASY'S JUBELINI

TOTAL

VARIANCE = 3.50 ECART-TYPE = 1.87 MOYENNE = 27.1

PPM MENSURATION = 1.33 PRISE = 805.0X

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	0	0.0	0.	0.0
18	0	0.0	0.	0.0
19	0	0.0	0.	0.0
20	0	0.0	0.	0.0
21	1	0.3	464.	0.20
22	4	1.3	2197.	0.93
23	22	7.0	14295.	6.02
24	28	8.9	19121.	8.05
25	37	11.7	26360.	11.10
26	60	19.0	45540.	19.17
27	72	22.8	56892.	23.95
28	50	15.8	39877.	16.79
29	22	7.0	17695.	7.45
30	16	5.1	12189.	5.13
31	3	0.9	2413.	1.02
32	1	0.3	464.	0.20
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	316	100.0	237510.	100.00

Chloroscombrus chrysurus (Plat-plat)

MOIS	PRISES (QUINTAUX)	NON ECHANTILLONNEES		
		Poids (Qx)	%	Moules
JANVIER	0	-	-	-
FEVRIER	0	-	-	-
MARS	0	-	-	-
AVRIL	15	15	100	4
MAI	53	0	0	-
JUIN	183	0	0	-
JUILLET	42	0	0	-
AOUT	203	0	0	-
SEPTEMBRE	296	0	0	-
OCTOBRE	851	97	11	2
NOVEMBRE	633	0	0	0
DECEMBRE	3	1	33	2
TOTAL	2 279	113	5	2(98 Qx) et 4(15 Qx)

CHLOROSCOMBRUS CHRYSURUS

TOTAL

VARIANCE = 2.53 ECART-TYPE = 1.59 MOYENNE = 19.7

PPM MENSURATION = 0.38 PRISE = 53. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	2	11.1	5300.	11.11
17	1	5.6	2650.	5.56
18	2	11.1	5300.	11.11
19	3	16.7	7950.	16.67
20	7	38.9	18550.	38.89
21	2	11.1	5300.	11.11
22	1	5.6	2650.	5.56
23	0	0.0	0.	0.0
24	0	0.0	0.	0.0
25	0	0.0	0.	0.0
26	0	0.0	0.	0.0
27	0	0.0	0.	0.0
28	0	0.0	0.	0.0
29	0	0.0	0.	0.0
30	0	0.0	0.	0.0
31	0	0.0	0.	0.0
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	18	100.0	47700.	100.00

MOISJUN 79

49

CHLOROSCOMBRUS CHRYSURUS

TOTAL

VARIANCE = 3.09 ECART-TYPE = 1.76 MOYENNE = 19.6

PPM MENSURATION = 0.22

PRISE = 183.00

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	6	16.2	1800.	1.07
15	11	29.7	3300.	1.97
16	3	8.1	18300.	10.91
17	1	2.7	9000.	5.37
18	3	8.1	18300.	10.91
19	3	8.1	27000.	16.10
20	7	18.9	63000.	37.57
21	2	5.4	18000.	10.73
22	1	2.7	9000.	5.37
23	0	0.0	0.	0.0
24	0	0.0	0.	0.0
25	0	0.0	0.	0.0
26	0	0.0	0.	0.0
27	0	0.0	0.	0.0
28	0	0.0	0.	0.0
29	0	0.0	0.	0.0
30	0	0.0	0.	0.0
31	0	0.0	0.	0.0
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	37	100.0	167700.	100.00

MOIS JUILLET 79

CHLOROSCOMBRUS CHRYSURUS

TOTAL

VARIANCE = 3.93 ECART-TYPE = 1.98 MOYENNE = 18.4

PPM MENSURATION = 1.18 PRISE = 42- QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	1	1.9	1200.	2.73
15	4	7.7	4800.	10.92
16	6	11.5	6300.	14.33
17	6	11.5	4500.	10.24
18	12	23.1	9900.	22.53
19	13	25.0	9750.	22.18
20	4	7.7	3000.	6.83
21	3	5.8	2250.	5.12
22	2	3.8	1500.	3.41
23	1	1.9	750.	1.71
24	0	0.0	0.	0.0
25	0	0.0	0.	0.0
26	0	0.0	0.	0.0
27	0	0.0	0.	0.0
28	0	0.0	0.	0.0
29	0	0.0	0.	0.0
30	0	0.0	0.	0.0
31	0	0.0	0.	0.0
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	52	100.0	43950.	100.00

CHLOROSCOMBRUS CHRYSURUS

TOTAL

VARIANCE = 2.37 ECART-TYPE = 1.54 MOYENNE = 19.3

PPM MENSURATION = 0.20 PRISE = 203. QX

LF	F	Z F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	2	4.9	10150.	4.88
17	6	14.6	30450.	14.63
18	10	24.4	50750.	24.39
19	13	31.7	65975.	31.71
20	4	9.8	20300.	9.76
21	3	7.3	15225.	7.32
22	2	4.9	10150.	4.88
23	1	2.4	5075.	2.44
24	0	0.0	0.	0.0
25	0	0.0	0.	0.0
26	0	0.0	0.	0.0
27	0	0.0	0.	0.0
28	0	0.0	0.	0.0
29	0	0.0	0.	0.0
30	0	0.0	0.	0.0
31	0	0.0	0.	0.0
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	41	100.0	208075.	100.00

MOIS SEPTEMBRE 79

CHLOROSCOMBRUS CHRYSURUS

TOTAL

VARIANCE = 1.97 ECART-TYPE = 1.40 MOYENNE = 19.7

PPM MENSURATION = 0.57 PRISE = 296. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	4	2.6	6964.	2.65
17	13	8.6	22635.	8.61
18	27	17.9	47011.	17.88
19	49	32.5	85317.	32.45
20	36	23.8	62682.	23.84
21	11	7.3	19152.	7.28
22	8	5.3	13929.	5.30
23	3	2.0	5223.	1.99
24	0	0.0	0.	0.0
25	0	0.0	0.	0.0
26	0	0.0	0.	0.0
27	0	0.0	0.	0.0
28	0	0.0	0.	0.0
29	0	0.0	0.	0.0
30	0	0.0	0.	0.0
31	0	0.0	0.	0.0
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	151	100.0	262917.	100.00

CHLOROSCOMBRUS CHRYSURUS

TOTAL

VARIANCE = 3.28 ECART-TYPE = 1.81 MOYENNE = 18.5

PPM MENSURATION = 0.25 PRISE = 851-QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	1	0.5	3968.	0.51
15	17	8.7	67463.	8.72
16	31	15.9	123021.	15.90
17	28	14.4	111115.	14.36
18	39	20.0	154768.	20.00
19	42	21.5	166673.	21.54
20	20	10.3	79368.	10.26
21	11	5.6	43652.	5.64
22	4	2.1	15873.	2.05
23	2	1.0	7936.	1.03
24	0	0.0	0.	0.0
25	0	0.0	0.	0.0
26	0	0.0	0.	0.0
27	0	0.0	0.	0.0
28	0	0.0	0.	0.0
29	0	0.0	0.	0.0
30	0	0.0	0.	0.0
31	0	0.0	0.	0.0
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	195	100.0	773842.	100.00

MOIS NOVEMBRE 79

CHLOROSCOMBRUS CHRYSURUS

TOTAL

VARIANCE = 2.48 ECART-TYPE = 1.57 MOYENNE = 19.5

PPM MENSURATION = 0.32 PRISE = 633. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	1	0.5	3165.	0.54
16	6	3.2	18990.	3.23
17	29	15.6	91785.	15.59
18	36	19.4	113940.	19.35
19	52	28.0	164580.	27.96
20	34	18.3	107610.	18.28
21	12	6.5	37980.	6.45
22	12	6.5	37980.	6.45
23	4	2.2	12660.	2.15
24	0	0.0	0.	0.0
25	0	0.0	0.	0.0
26	0	0.0	0.	0.0
27	0	0.0	0.	0.0
28	0	0.0	0.	0.0
29	0	0.0	0.	0.0
30	0	0.0	0.	0.0
31	0	0.0	0.	0.0
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	186	100.0	588690.	100.00

CHLOROSCOMBRUS CHRYSURUS

TOTAL

VARIANCE = 3.53 ECART-TYPE = 1.88 MOYENNE = 18.4

PPM MENSURATION = 5.00 PRISE = 3. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	1	7.7	200.	7.69
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	1	7.7	200.	7.69
17	2	15.4	400.	15.38
18	4	30.8	800.	30.77
19	3	23.1	600.	23.08
20	1	7.7	200.	7.69
21	1	7.7	200.	7.69
22	0	0.0	0.	0.0
23	0	0.0	0.	0.0
24	0	0.0	0.	0.0
25	0	0.0	0.	0.0
26	0	0.0	0.	0.0
27	0	0.0	0.	0.0
28	0	0.0	0.	0.0
29	0	0.0	0.	0.0
30	0	0.0	0.	0.0
31	0	0.0	0.	0.0
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	13	100.0	2600.	100.00

1. *Phragmites australis* (Common Reed) - Wetlands, marshes, coastal areas.

2. *Spartina patens* (Cordgrass) - Wetlands, coastal plain, salt marshes.

3. *Spartina alterniflora* (Salt Marsh Cordgrass) - Coastal salt marshes, wetlands.

4. *Distichlis spicata* (Spartan Grass) - Coastal salt marshes, wetlands.

5. *Scirpus americanus* (Sedges) - Wetlands, marshes, coastal areas.

6. *Scirpus setaceus* (Sedges) - Wetlands, marshes, coastal areas.

7. *Scirpus olneyi* (Sedges) - Wetlands, marshes, coastal areas.

8. *Scirpus torreyana* (Sedges) - Wetlands, marshes, coastal areas.

9. *Scirpus eriopodus* (Sedges) - Wetlands, marshes, coastal areas.

10. *Scirpus americanus* (Sedges) - Wetlands, marshes, coastal areas.

11. *Scirpus americanus* (Sedges) - Wetlands, marshes, coastal areas.

12. *Scirpus americanus* (Sedges) - Wetlands, marshes, coastal areas.

13. *Scirpus americanus* (Sedges) - Wetlands, marshes, coastal areas.

14. *Scirpus americanus* (Sedges) - Wetlands, marshes, coastal areas.

15. *Scirpus americanus* (Sedges) - Wetlands, marshes, coastal areas.

Trachurus trerac (Chinchard noir)

MOIS	PRISES (QUINTAUX)	NON ECHANTILLONNEES		
		Poids (kg)	%	Moules
Janvier	0	-	-	-
FEVRIER	353	30	8,5	5
MARS	550	0	0	-
AVRIL	281	0	0	-
MAI	82	0	0	-
JUIN	0	-	-	-
JUILLET	0	-	-	-
AOUT	0	-	-	-
SEPTEMBRE	0	-	-	-
OCTOBRE	0	0	-	-
NOVEMBRE	0	-	-	-
DECEMBRE	0	-	-	-
TOTAL	1 266	30	2,4	5

TRACHURUS TRECAE

TOTAL

VARIANCE = 2.67 ECART-TYPE = 1.63 MOYENNE = 29.7

PPM MENSURATION = 1.30 PRISE = 353. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	0	0.0	0.	0.0
18	0	0.0	0.	0.0
19	0	0.0	0.	0.0
20	0	0.0	0.	0.0
21	0	0.0	0.	0.0
22	0	0.0	0.	0.0
23	1	0.8	769.	0.81
24	0	0.0	0.	0.0
25	0	0.0	0.	0.0
26	3	2.4	2307.	2.42
27	11	8.9	8459.	8.87
28	22	17.7	16919.	17.74
29	42	33.9	32299.	33.87
30	19	15.3	14611.	15.32
31	13	10.5	9997.	10.48
32	9	7.3	6921.	7.26
33	4	3.2	3076.	3.23
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	124	100.0	95361.	100.00

TRACHURUS TRECAE

TOTAL

VARIANCE = 2.75 ECART-TYPE = 1.66 MOYENNE = 29.3

PPM MENSURATION = 1.13 PRISE = 550. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	0	0.0	0.	0.0
18	0	0.0	0.	0.0
19	0	0.0	0.	0.0
20	0	0.0	0.	0.0
21	0	0.0	0.	0.0
22	0	0.0	0.	0.0
23	0	0.0	0.	0.0
24	0	0.0	0.	0.0
25	2	1.0	1774.	1.05
26	14	7.3	12419.	7.33
27	27	14.1	23951.	14.14
28	41	21.5	36370.	21.47
29	34	17.8	30161.	17.80
30	48	25.1	42580.	25.13
31	15	7.9	13306.	7.85
32	6	3.1	5322.	3.14
33	3	1.6	2661.	1.57
34	1	0.5	887.	0.52
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	191	100.0	169435.	100.00

MOIS AVRIL 79

TRACHURUS TRECAE

TOTAL

VARIANCE = 1.60 ECART-TYPE = 1.27 MOYENNE = 28.8

PPM MENSURATION = 0.18 PRISE = 281.0X

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	0	0.0	0.	0.0
18	0	0.0	0.	0.0
19	0	0.0	0.	0.0
20	0	0.0	0.	0.0
21	0	0.0	0.	0.0
22	0	0.0	0.	0.0
23	0	0.0	0.	0.0
24	0	0.0	0.	0.0
25	0	0.0	0.	0.0
26	1	6.3	5620.	6.25
27	4	25.0	22480.	25.00
28	5	31.3	28100.	31.25
29	3	18.8	16860.	18.75
30	2	12.5	11240.	12.50
31	1	6.3	5620.	6.25
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	16	100.0	89920.	100.00

TRACHURUS TRECAE

TOTAL

VARIANCE = 46.69 ECART-TYPE = 6.83 MOYENNE = 24.7

PPM MENSURATION = 5.62 PRISE = 82. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	6	3.1	821.	2.40
16	71	37.0	8249.	24.16
17	28	14.6	3199.	9.37
18	2	1.0	228.	0.67
19	1	0.5	250.	0.73
20	5	2.6	1250.	3.66
21	5	2.6	1250.	3.66
22	2	1.0	500.	1.46
23	1	0.5	250.	0.73
24	0	0.0	0.	0.0
25	0	0.0	0.	0.0
26	0	0.0	0.	0.0
27	4	2.1	1022.	2.99
28	10	5.2	2555.	7.48
29	15	7.8	3833.	11.23
30	11	5.7	2811.	8.23
31	11	5.7	2811.	8.23
32	13	6.8	3322.	9.73
33	2	1.0	511.	1.50
34	3	1.6	766.	2.24
35	0	0.0	0.	0.0
36	1	0.5	255.	0.75
37	1	0.5	255.	0.75
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	192	100.0	34144.	99.98

Date	Description	Debit	Credit	Balance
1907				
Jan 1	Balance forward			100.00
Jan 5	Received from A	50.00		150.00
Jan 10	Received from B	25.00		175.00
Jan 15	Received from C	25.00		200.00
Jan 20	Received from D	25.00		225.00
Jan 25	Received from E	25.00		250.00
Jan 30	Received from F	25.00		275.00
Feb 1	Received from G	25.00		300.00
Feb 5	Received from H	25.00		325.00
Feb 10	Received from I	25.00		350.00
Feb 15	Received from J	25.00		375.00
Feb 20	Received from K	25.00		400.00
Feb 25	Received from L	25.00		425.00
Feb 30	Received from M	25.00		450.00
Mar 1	Received from N	25.00		475.00
Mar 5	Received from O	25.00		500.00
Mar 10	Received from P	25.00		525.00
Mar 15	Received from Q	25.00		550.00
Mar 20	Received from R	25.00		575.00
Mar 25	Received from S	25.00		600.00
Mar 30	Received from T	25.00		625.00
Apr 1	Received from U	25.00		650.00
Apr 5	Received from V	25.00		675.00
Apr 10	Received from W	25.00		700.00
Apr 15	Received from X	25.00		725.00
Apr 20	Received from Y	25.00		750.00
Apr 25	Received from Z	25.00		775.00
Apr 30	Received from AA	25.00		800.00
May 1	Received from AB	25.00		825.00
May 5	Received from AC	25.00		850.00
May 10	Received from AD	25.00		875.00
May 15	Received from AE	25.00		900.00
May 20	Received from AF	25.00		925.00
May 25	Received from AG	25.00		950.00
May 30	Received from AH	25.00		975.00
Jun 1	Received from AI	25.00		1000.00
Jun 5	Received from AJ	25.00		1025.00
Jun 10	Received from AK	25.00		1050.00
Jun 15	Received from AL	25.00		1075.00
Jun 20	Received from AM	25.00		1100.00
Jun 25	Received from AN	25.00		1125.00
Jun 30	Received from AO	25.00		1150.00
Jul 1	Received from AP	25.00		1175.00
Jul 5	Received from AQ	25.00		1200.00
Jul 10	Received from AR	25.00		1225.00
Jul 15	Received from AS	25.00		1250.00
Jul 20	Received from AT	25.00		1275.00
Jul 25	Received from AU	25.00		1300.00
Jul 30	Received from AV	25.00		1325.00
Aug 1	Received from AW	25.00		1350.00
Aug 5	Received from AX	25.00		1375.00
Aug 10	Received from AY	25.00		1400.00
Aug 15	Received from AZ	25.00		1425.00
Aug 20	Received from BA	25.00		1450.00
Aug 25	Received from BB	25.00		1475.00
Aug 30	Received from BC	25.00		1500.00
Sep 1	Received from BD	25.00		1525.00
Sep 5	Received from BE	25.00		1550.00
Sep 10	Received from BF	25.00		1575.00
Sep 15	Received from BG	25.00		1600.00
Sep 20	Received from BH	25.00		1625.00
Sep 25	Received from BI	25.00		1650.00
Sep 30	Received from BJ	25.00		1675.00
Oct 1	Received from BK	25.00		1700.00
Oct 5	Received from BL	25.00		1725.00
Oct 10	Received from BM	25.00		1750.00
Oct 15	Received from BN	25.00		1775.00
Oct 20	Received from BO	25.00		1800.00
Oct 25	Received from BP	25.00		1825.00
Oct 30	Received from BQ	25.00		1850.00
Nov 1	Received from BR	25.00		1875.00
Nov 5	Received from BS	25.00		1900.00
Nov 10	Received from BT	25.00		1925.00
Nov 15	Received from BU	25.00		1950.00
Nov 20	Received from BV	25.00		1975.00
Nov 25	Received from BW	25.00		2000.00
Nov 30	Received from BX	25.00		2025.00
Dec 1	Received from BY	25.00		2050.00
Dec 5	Received from BZ	25.00		2075.00
Dec 10	Received from CA	25.00		2100.00
Dec 15	Received from CB	25.00		2125.00
Dec 20	Received from CC	25.00		2150.00
Dec 25	Received from CD	25.00		2175.00
Dec 30	Received from CE	25.00		2200.00
Total				2200.00

Trachurus trachurus (Chinchard noir)

MOIS	PRISES (QUINTAUX)	NON ECHANTILLONNEES		
		Poids (Qt)	%	Moules
JANVIER	0	-	-	-
FEVRIER	0	-	-	-
MARS	0	-	-	-
AVRIL	0	-	-	-
MAI	104	0	0	-
JUIN	0	-	-	-
JUILLET	0	-	-	-
AOUT	0	-	-	-
SEPTEMBRE	0	-	-	-
OCTOBRE	0	-	-	-
NOVEMBRE	0	-	-	-
DECEMBRE	0	-	-	-
TOTAL	104	0	0	-

MOISNAI 79

TRACHURUS TRACHURUS

TOTAL

VARIANCE = 2.76 ECART-TYPE = 1.66 MOYENNE = 33.1

PPM MENSURATION = 0.58 PRISE = 104. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	0	0.0	0.	0.0
18	0	0.0	0.	0.0
19	0	0.0	0.	0.0
20	0	0.0	0.	0.0
21	0	0.0	0.	0.0
22	0	0.0	0.	0.0
23	0	0.0	0.	0.0
24	0	0.0	0.	0.0
25	0	0.0	0.	0.0
26	0	0.0	0.	0.0
27	0	0.0	0.	0.0
28	0	0.0	0.	0.0
29	1	8.3	1733.	8.33
30	1	8.3	1733.	8.33
31	1	8.3	1733.	8.33
32	1	8.3	1733.	8.33
33	3	25.0	5199.	25.00
34	5	41.7	8666.	41.67
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	12	100.0	20799.	99.99

Scomer scolias (= S. japonicus) (Haquereau)

MOIS	PRISES (QUINTAUX)	NON ECHANTILLONNEES		
		Poids (Qx)	%	Moules
JANVIER	0	-	-	-
FEVRIER	25	0	0	-
MARS	760	0	0	-
AVRIL	242	0	0	-
MAI	470	0	0	-
JUIN	0	-	-	-
JUILLET	0	-	-	-
AOÛT	0	-	-	-
SEPTEMBRE	0	-	-	-
OCTOBRE	0	-	-	-
NOVEMBRE	0	-	-	-
DECEMBRE	0	-	-	-
TOTAL	1 497	0	0	-

SCOMBER COLIAS

TOTAL

VARIANCE = 1.49 ECART-TYPE = 1.22 MOYENNE = 37.6

PPM MENSURATION = 6.40 PRISE = 25. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	0	0.0	0.	0.0
18	0	0.0	0.	0.0
19	0	0.0	0.	0.0
20	0	0.0	0.	0.0
21	0	0.0	0.	0.0
22	0	0.0	0.	0.0
23	0	0.0	0.	0.0
24	0	0.0	0.	0.0
25	0	0.0	0.	0.0
26	0	0.0	0.	0.0
27	0	0.0	0.	0.0
28	0	0.0	0.	0.0
29	0	0.0	0.	0.0
30	0	0.0	0.	0.0
31	0	0.0	0.	0.0
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	1	4.5	156.	4.54
36	3	13.6	468.	13.62
37	11	50.0	1718.	49.99
38	6	27.3	937.	27.26
39	1	4.5	156.	4.54
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	22	100.0	3437.	99.94

SCOMBER COLIAS

TOTAL

VARIANCE = 4.09 ECART-TYPE = 2.02 MOYENNE = 38.3

PPM MENSURATION = 1.01 PRISE = 760. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	0	0.0	0.	0.0
18	0	0.0	0.	0.0
19	0	0.0	0.	0.0
20	0	0.0	0.	0.0
21	0	0.0	0.	0.0
22	0	0.0	0.	0.0
23	0	0.0	0.	0.0
24	0	0.0	0.	0.0
25	0	0.0	0.	0.0
26	0	0.0	0.	0.0
27	0	0.0	0.	0.0
28	0	0.0	0.	0.0
29	0	0.0	0.	0.0
30	0	0.0	0.	0.0
31	1	1.0	987.	0.99
32	0	0.0	0.	0.0
33	3	3.0	2961.	2.97
34	4	4.0	3948.	3.96
35	5	5.0	4935.	4.95
36	7	6.9	6909.	6.93
37	16	15.8	15792.	15.84
38	34	33.7	33558.	33.66
39	14	13.9	13818.	13.86
40	8	7.9	7896.	7.92
41	6	5.9	5922.	5.94
42	3	3.0	2961.	2.97
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	101	100.0	99688.	100.00

SCOMBER COLIAS

TOTAL

VARIANCE = 0.70 ECART-TYPE = 0.84 MOYENNE = 39.8

PPM MENSURATION = 0.45 PRISE = 242. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	0	0.0	0.	0.0
18	0	0.0	0.	0.0
19	0	0.0	0.	0.0
20	0	0.0	0.	0.0
21	0	0.0	0.	0.0
22	0	0.0	0.	0.0
23	0	0.0	0.	0.0
24	0	0.0	0.	0.0
25	0	0.0	0.	0.0
26	0	0.0	0.	0.0
27	0	0.0	0.	0.0
28	0	0.0	0.	0.0
29	0	0.0	0.	0.0
30	0	0.0	0.	0.0
31	0	0.0	0.	0.0
32	0	0.0	0.	0.0
33	0	0.0	0.	0.0
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	1	7.7	2199.	7.69
38	0	0.0	0.	0.0
39	6	46.2	13199.	46.15
40	6	46.2	13199.	46.15
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	13	100.0	28599.	99.99

SCOMBER COLIAS

TOTAL

VARIANCE = 2.35 ECART-TYPE = 1.53 MOYENNE = 28.8

PPM MENSURATION = 0.94 PRISE = 470. QX

LF	F	% F	FREQ	% FREQ
7	0	0.0	0.	0.0
8	0	0.0	0.	0.0
9	0	0.0	0.	0.0
10	0	0.0	0.	0.0
11	0	0.0	0.	0.0
12	0	0.0	0.	0.0
13	0	0.0	0.	0.0
14	0	0.0	0.	0.0
15	0	0.0	0.	0.0
16	0	0.0	0.	0.0
17	0	0.0	0.	0.0
18	0	0.0	0.	0.0
19	0	0.0	0.	0.0
20	0	0.0	0.	0.0
21	0	0.0	0.	0.0
22	0	0.0	0.	0.0
23	0	0.0	0.	0.0
24	0	0.0	0.	0.0
25	5	3.3	1452.	0.91
26	22	14.7	11654.	7.31
27	42	28.0	31499.	19.76
28	43	28.7	58108.	36.46
29	23	15.3	27735.	17.40
30	7	4.7	12560.	7.88
31	3	2.0	6135.	3.85
32	4	2.7	8180.	5.13
33	1	0.7	2045.	1.28
34	0	0.0	0.	0.0
35	0	0.0	0.	0.0
36	0	0.0	0.	0.0
37	0	0.0	0.	0.0
38	0	0.0	0.	0.0
39	0	0.0	0.	0.0
40	0	0.0	0.	0.0
41	0	0.0	0.	0.0
42	0	0.0	0.	0.0
43	0	0.0	0.	0.0
44	0	0.0	0.	0.0
45	0	0.0	0.	0.0
46	0	0.0	0.	0.0
47	0	0.0	0.	0.0
48	0	0.0	0.	0.0
49	0	0.0	0.	0.0
50	0	0.0	0.	0.0
TOTAL	150	100.0	159369.	100.00