

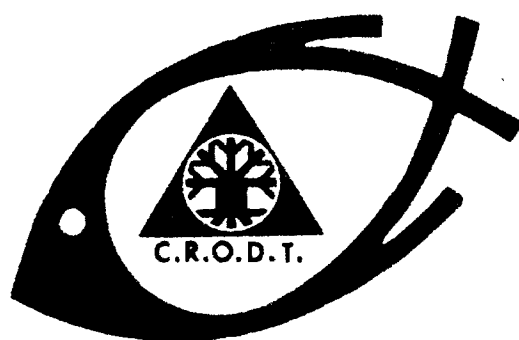
T. BOELY

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# LES POISSONS PELAGIQUES COTIERS

AU SENEGAL :

Structure démographique des captures de sardinelles et de  
chinchard jaune des sardinières dakaroises  
de 1970 à 1973



CENTRE DE RECHERCHES OcéANOGRAPHIQUES DE DAKAR - THIAROYE

\* INSTITUT SENEGALAIS DE RECHERCHES AGRICOLES \*

ARCHIVE

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INSTITUT SENEGALAIS  
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STRUCTURE DEMOGRAPHIQUE DES CAPTURES DE SARDINELLES  
ET DE CHINCHARD JAUNE DES SARDINIERS DAKAROIS DE 1970 A 1973

par

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DE DAKAR-THIAROYE  
(SENEGAL)

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## INTRODUCTION

Ce document présente la structure démographique des captures des sardiniens dakarois de 1970 à 1973 inclus. Les distributions de fréquences de taille sont présentées pour les trois espèces principales :

- Sardinelle ronde (Sardinella aurita),
- Sardinelle plate (Sardinella maderensis = S. eba),
- Chinchard jaune (Caranx rhonchus)

Les résultats obtenus sont exploités pour les études de biologie et de dynamique des populations, ils ont fait ou feront l'objet de publications. Il en est de même des données d'effort de pêche et de rendements correspondants à cette période.

## PRESENTATION DES RESULTATS.

Des mensurations ont été faites au port de Dakar lors des débarquements. Généralement plusieurs échantillons de 50 à 150 individus étaient mesurés au cours de chaque quinzaine pour les principales espèces débarquées.

L'extrapolation du nombre de poissons dans l'échantillon au nombre de poissons dans les captures a été effectuée en utilisant comme facteur d'extrapolation le rapport entre le poids des prises de la quinzaine attribuées à l'échantillon et le poids de cet échantillon (poids calculé d'après les relations tailles-poids). L'attribution des prises à un échantillon donné a été effectuée d'après le calibre ou moule du poisson tel qu'il est indiqué par les patrons de pêche lors des débarquements.

Les résultats ont été ensuite regroupés par mois pour chaque espèce et présentés sous la forme de tableaux sur lesquels figurent :

- l'écart type de la distribution de fréquences,
  - sa moyenne,
  - la liste de 44 classes centimétriques de taille :
- la valeur indiquée correspond à la borne inférieure de chaque classe (exemple : classe 7 cm, intervalle 7,00 à 7,99 cm); les mensurations ont été effectuées à la fourche (LF),
- les fréquences en nombre dans les captures,
  - les mêmes fréquences exprimées en pourcentage.

Sur les pages titres en couleur ont été indiqué pour l'espèce considérée :

- le poids total des captures mensuelles exprimé en quintaux (qx),
- 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 des captures (et les poids correspondants éventuellement).

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

MOULE	MOYENNE (cm)	ETENDUE (écart type X 2)	TYPE DE DISTRIBUTION DE FREQUENCES DE TAILLES
0	inconnue	inconnue	inconnue
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	> à 35cm	> 10 cm	unimodal ou plurimodal

- Tableau présentant les caractéristiques des différents moules des captures.

ANNEE 1970

SARDINELLE RONDE  
(Sardinella aurita)

1970

MOIS	PRISES (quintaux)	NON ECHANTILLONNEES		
		POIDS (Qx)	%	MOULES
JANVIER	6 550	0	0	
FEVRIER	14 635	0	0	
MARS	11 885	0	0	
AVRIL	9 545	0	0	
MAI	13 860	0	0	
JUIN	13 790	0	0	
JUILLET	1 500	0	0	
AOUT	650	0	0	
SEPTEMBRE	355	0	0	
OCTOBRE	4 590	0	0	
NOVEMBRE	2 450	0	0	
DECEMBRE	4 030	0	0	
TOTAL	83 840	0	0	

## SARDINELLA AUFITA

VARIANCE: 29.81 ECART TYPE: 5.46 TAILLE MOYENNE: 19.7

LF	FREQUENCE	% FFEC.
7	0	C.C
8	0	C.C
9	7500	C.17
10	13500	C.31
11	54668	1.26
12	41500	C.96
13	164669	3.80
14	332171	7.66
15	401169	9.26
16	544171	12.56
17	629168	14.52
18	679169	15.67
19	362832	8.37
20	78667	1.82
21	3500	C.C8
22	0	C.C
23	1737	C.C4
24	441	C.01
25	5681	C.13
26	71749	1.66
27	167685	3.87
28	252246	5.82
29	307088	7.09
30	158587	3.66
31	47552	1.10
32	6356	C.15
33	2366	C.C5
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	4334172	100.C

## SAFDINELLA AUFITA

VARIANCE: 12.32 ECART TYPE: 3.51 TAILLE MOYENNE: 27.9

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	24960	0.63
14	31200	0.78
15	55120	1.39
16	64480	1.62
17	69680	1.75
18	35360	0.89
19	24960	0.63
20	12606	0.32
21	2578	0.06
22	332	0.01
23	332	0.01
24	830	0.02
25	13038	0.33
26	125403	3.15
27	640480	16.10
28	1173769	29.50
29	1157663	29.10
30	451172	11.34
31	89401	2.25
32	4918	0.12
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	3978282	100.0



## SARDINELLA AURITA

VARIANCE: 21.45 ECART TYPE: 4.63 TAILLE MOYENNE: 17.2

LF	FREQUENCE	% FFEC.
7	0	C.C
8	29000	C.23
9	261000	2.05
10	365824	2.87
11	451098	3.54
12	794219	6.23
13	1330961	10.44
14	1480456	11.61
15	1335451	10.47
16	1040276	8.16
17	766742	6.01
18	1097720	8.61
19	790367	6.20
20	1012167	7.94
21	694259	5.45
22	270135	2.12
23	44023	C.35
24	21455	C.17
25	22844	C.18
26	25832	C.20
27	155436	1.22
28	308448	2.42
29	291212	2.28
30	128306	1.01
31	27091	C.21
32	5812	C.05
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	12750134	100.C

## SARDINELLA AURITA

VARIANCE: 22.41 ECART TYPE: 4.73 TAILLE MOYENNE: 18.2

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	80500	C.95
10	315880	3.73
11	403077	4.76
12	428879	5.07
13	608292	7.19
14	824407	9.74
15	698618	8.26
16	483542	5.72
17	458377	5.42
18	323705	3.83
19	363911	4.30
20	528033	6.24
21	1265459	14.96
22	778922	9.21
23	297353	3.51
24	126155	1.49
25	13683	C.16
26	31447	C.37
27	63776	C.75
28	126734	1.50
29	131610	1.56
30	68499	C.81
31	25806	C.31
32	13467	C.16
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	8460132	100.C

## SARDINELLA ALRITA

VARIANCE: 19.36 ECART TYPE: 4.40 TAILLE MOYENNE: 21.0

LF	FREQUENCE	Z FFIC.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	4054	C.05
13	182953	2.38
14	490527	6.37
15	547228	7.11
16	622429	8.08
17	529825	6.88
18	350854	4.56
19	104107	1.35
20	397875	5.17
21	1275855	16.57
22	1214161	15.77
23	611089	7.94
24	144368	1.87
25	60231	0.78
26	49915	0.65
27	263897	3.43
28	418162	5.43
29	315842	4.10
30	108716	1.41
31	8600	C.11
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TCTAL	7701088	100.C

## SARDINELLA AURITA

VARIANCE: 15.38 ECART TYPE: 3.92 TAILLE MOYENNE: 22.3

LF	FREQUENCE	% FFEC.
7	0	C.C
8	0	C.C
9	0	C.C
10	2857	C.04
11	5714	C.08
12	0	C.0
13	110285	1.53
14	363426	5.06
15	215379	3.00
16	377213	5.25
17	316398	4.40
18	84948	1.18
19	51545	C.72
20	95081	1.32
21	810034	11.27
22	1724890	24.00
23	1206887	16.79
24	499778	6.95
25	298009	4.15
26	68508	C.95
27	240562	3.35
28	501030	6.97
29	148461	2.07
30	67134	C.93
31	53	C.00
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	7188197	100.C

## SARDINELLA AURITA

VARIANCE: 1.54 ECART TYPE: 1.24 TAILLE MOYENNE: 22.4

LF	FREQUENCE	% FREC.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	0	C.C
17	6888	C.76
18	0	C.0
19	6888	C.76
20	48650	5.35
21	287931	31.67
22	292973	32.22
23	173514	19.08
24	63982	7.04
25	28360	3.12
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	909186	100.C

## SARDINELLA AUFITA

VARIANCE: 1.26 ECART TYPE: 1.12 TAILLE MOYENNE: 22.3

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	0	C.C
17	0	C.C
18	0	C.C
19	0	C.C
20	24378	5.66
21	162520	37.74
22	154394	35.85
23	48756	11.32
24	24378	5.66
25	16252	3.77
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	430678	100.0

## SARDINELLA AUFITA

VARIANCE: 0.71 ECART TYPE: 0.84 TAILLE MOYENNE: 22.0

LF	FREQUENCE	% FRIG.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	0	C.C
17	0	C.C
18	0	C.C
19	4438	2.17
20	17752	8.70
21	75446	36.96
22	90979	44.57
23	15533	7.61
24	0	C.C
25	0	C.C
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	204148	100.0

SARDINELLA AURITA

VARIANCE: 0.82 ECART TYPE: 0.91 TAILLE MOYENNE: 22.0

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	0	C.C
17	0	C.C
18	0	C.C
19	62179	2.15
20	325574	11.23
21	980185	33.82
22	1217026	41.99
23	313699	10.82
24	0	C.C
25	0	C.C
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	2898663	100.C



SARDINELLA AURITA

VARIANCE: 0.99 ECART TYPE: 1.00 TAILLE MOYENNE: 21.8

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	0	C.C
17	0	C.C
18	3167	C.18
19	52890	3.04
20	273334	15.73
21	789287	45.41
22	404509	23.27
23	205113	11.80
24	6500	C.37
25	3167	C.18
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	1737967	100.C

## SARDINELLA AURITA

VARIANCE: 11.93 ECART TYPE: 3.45 TAILLE MOYENNE: 19.7

LF	FREQUENCE	% FRIG.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	14572	C.43
13	94718	2.82
14	320584	9.53
15	495448	14.73
16	196722	5.65
17	45942	1.37
18	28771	C.86
19	76393	2.27
20	237691	7.07
21	602829	17.92
22	807126	24.00
23	362352	10.77
24	57620	1.71
25	5067	C.15
26	12500	C.37
27	5067	C.15
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	3363402	100.C

SARDINELLA AURITA

VARIANCE: 25.80 ECART TYPE: 5.08 TAILLE MOYENNE: 20.3

LF	FREQUENCE	% FFEC.
7	0	C.C
8	29000	C.05
9	349000	C.65
10	698061	1.29
11	914557	1.70
12	1283224	2.38
13	2516838	4.66
14	3842771	7.12
15	3746813	6.95
16	3328838	6.17
17	2823020	5.23
18	2603694	4.83
19	1900510	3.52
20	3051808	5.66
21	6949883	12.88
22	6955447	12.89
23	3280388	6.08
24	945507	1.75
25	466332	C.86
26	385354	C.71
27	1536903	2.85
28	2780389	5.15
29	2351876	4.36
30	982414	1.82
31	198503	C.37
32	30553	C.06
33	2366	C.00
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	53956049	100.C

SARDINELLE PLATE  
 (Sardinella maderensis = S. eba)

1970

MOIS	PRISES (quintaux)	NON ECHANTILLONNEES		
		POIDS (Qx)	%	MOULES
JANVIER	870	0	0	
FEVRIER	140	125	89	0
MARS	4 510	0	0	
AVRIL	6 030	0	0	
MAI	5 820	0	0	
JUIN	5 875	0	0	
JUILLET	5 350	0	0	
AOUT	5 540	0	0	
SEPTEMBRE	2 110	0	0	
OCTOBRE	650	0	0	
NOVEMBRE	2 380	0	0	
DECEMBRE	3 040	0	0	
<b>TOTAL</b>	<b>43 315</b>	<b>125</b>	<b>0,30</b>	

SAFDINELLA EBA

VARIANCE: 2.58 ECART TYPE: 1.61 TAILLE MOYENNE: 13.6

LF	FREQUENCE	% FRIG.
7	0	0.0
8	0	0.0
9	21000	0.86
10	89500	3.68
11	326836	13.44
12	420336	17.28
13	468172	19.25
14	541671	22.27
15	473168	19.45
16	63667	2.62
17	28000	1.15
18	0	0.0
19	0	0.0
20	0	0.0
21	0	0.0
22	0	0.0
23	0	0.0
24	0	0.0
25	0	0.0
26	0	0.0
27	0	0.0
28	0	0.0
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	2432350	100.0

SARDINELLA EBA

VARIANCE: 9.21 ECART TYPE: 3.04 TAILLE MOYENNE: 15.4

LF	FREQUENCE	% FREC.
7	0	C.C
8	2200	C.C3
9	42978	C.59
10	266052	3.66
11	468526	6.44
12	777055	10.89
13	1044720	14.37
14	950141	13.08
15	1207843	16.61
16	954429	13.13
17	548430	7.54
18	111504	1.53
19	14105	0.19
20	247335	3.40
21	335426	4.61
22	206532	2.84
23	68678	C.94
24	25000	C.34
25	0	C.C
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	7270954	100.C

## SARDINELLA EBA

VARIANCE: 18.40 ECART TYPE: 4.29 TAILLE MOYENNE: 16.2

LF	FREQUENCE	% FRÉQ.
7	0	C.C
8	79181	1.07
9	431315	5.64
10	573437	7.77
11	553857	7.50
12	464729	6.30
13	584717	7.92
14	612804	8.30
15	467567	6.33
16	391497	5.30
17	282215	3.82
18	191406	2.59
19	690812	9.47
20	934790	12.66
21	611950	8.29
22	301220	4.08
23	122247	1.66
24	49957	C.68
25	22400	C.30
26	8074	C.11
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	7382175	100.C

SARDINELLA EBA

VARIANCE: 5.77 ECART TYPE: 2.40 TAILLE MOYENNE: 20.1

LF	FREQUENCE	% FREQ.
7	0	0.0
8	750	0.12
9	375	0.01
10	0	0.0
11	7000	0.18
12	16875	0.44
13	47125	1.24
14	68638	1.80
15	83603	2.19
16	111335	2.92
17	88824	2.33
18	557574	14.63
19	956004	25.09
20	761374	19.98
21	378217	9.92
22	273301	7.17
23	249657	6.55
24	118853	3.12
25	74309	1.95
26	12992	0.34
27	4166	0.11
28	0	0.0
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	3811022	100.0



SARDINELLA EBA

VARIANCE: 16.48 ECART TYPE: 4.06 TAILLE MOYENNE: 18.1

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	6361	0.13
11	200250	4.08
12	662250	13.48
13	512250	10.43
14	301111	6.13
15	181316	3.69
16	81110	1.65
17	25807	0.53
18	89937	1.83
19	547265	11.14
20	930020	18.93
21	649941	13.23
22	359008	7.31
23	215959	4.40
24	72340	1.47
25	62432	1.27
26	2535	0.05
27	9646	0.20
28	2444	0.05
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	4911982	100.0

SARDINELLA EBA

VARIANCE: 2.22 ECART TYPE: 1.49 TAILLE MOYENNE: 20.8

LF	FREQUENCE	% FREC.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	5000	C.14
16	0	C.C
17	16850	C.48
18	174008	4.94
19	988480	28.04
20	970132	27.52
21	675660	19.16
22	419108	11.89
23	154562	4.38
24	86306	2.45
25	18578	C.53
26	17112	C.49
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	3525796	100.C

SARDINELLA EDA

VARIANCE: 1.44 ECART TYPE: 1.20 TAILLE MOYENNE: 20.2

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	0	C.C
17	0	C.C
18	448152	11.67
19	1446192	37.65
20	1145130	29.81
21	516888	13.46
22	94354	2.47
23	189708	4.94
24	0	C.C
25	0	C.C
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	3840924	100.C

SARDINELLA EBA

VARIANCE: 2.00 ECART TYPE: 1.42 TAILLE MOYENNE: 20.4

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	0	0.0
14	0	0.0
15	0	0.0
16	0	0.0
17	0	0.0
18	157304	11.02
19	499716	35.01
20	403924	28.30
21	190440	13.34
22	60368	4.23
23	88744	6.22
24	17329	1.21
25	9331	0.65
26	0	0.0
27	0	0.0
28	0	0.0
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	1427156	100.0

SARDINELLA EBA

VARIANCE: 2.60 ECART TYPE: 1.61 TAILLE MOYENNE: 22.9

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	0	C.C
17	0	C.C
18	0	C.C
19	17332	5.26
20	34664	10.53
21	34664	10.53
22	86660	26.32
23	69328	21.05
24	56329	17.11
25	30331	9.21
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
<b>TOTAL</b>	<b>329308</b>	<b>100.C</b>

SARDINELLA FBA

VARIANCE: 7.18 ECART TYPE: 2.68 TAILLE MOYENNE: 19.2

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	48400	3.09
13	121000	7.71
14	0	0.0
15	36922	2.35
16	31813	2.03
17	78489	5.01
18	202351	12.90
19	581142	37.05
20	58635	3.74
21	225620	14.38
22	129451	8.25
23	20615	1.31
24	34240	2.18
25	0	0.0
26	0	0.0
27	0	0.0
28	0	0.0
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
<b>TOTAL</b>	<b>1568683</b>	<b>100.0</b>

SARDINELLA EBA

VARIANCE: 11.83 ECART TYPE: 3.44 TAILLE MOYENNE: 19.0

LF	FREQUENCE	% FFIC.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	90000	4.59
13	106943	5.46
14	159166	8.12
15	111427	5.69
16	21990	1.12
17	30783	1.98
18	116258	5.92
19	151982	7.76
20	183136	9.35
21	356569	18.20
22	436072	22.26
23	166175	8.48
24	20831	1.06
25	0	0.0
26	0	0.0
27	0	0.0
28	0	0.0
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
<b>TOTAL</b>	<b>1959337</b>	<b>100.0</b>

RECAPITULATION

1970

SARDINELLA EB4

VARIANCE: 14.82 ECART TYPE: 3.85 TAILLE MOYENNE: 17.8

LF	FREQUENCE	% FREQ.
7	0	0.0
8	82131	0.21
9	495668	1.29
10	935357	2.43
11	1556469	4.05
12	2479645	6.45
13	2834932	7.50
14	2633581	6.85
15	2566846	6.67
16	1655846	4.31
17	1107398	2.88
18	2043494	5.33
19	5901030	15.34
20	5669141	14.74
21	3975375	10.34
22	2366574	6.15
23	1345673	3.50
24	481185	1.25
25	217381	0.57
26	40713	0.11
27	13812	0.04
28	2444	0.01
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
<b>TOTAL</b>	<b>38459687</b>	<b>100.0</b>



CHINCHARD FAUNE

(Caranx rhonchus)

1970

MOIS	PRISES (quintaux)	NON ECHANTILLONNES		
		POIDS (Qx)	%	MOULES
JANVIER	3 765			
FEVRIER	5 565			
MARS	2 730			
AVRIL	1 735			
MAI	260			
JUIN	335			
JUILLET	70	70	100	0
AOUT	105	105	100	0
SEPTEMBRE	50	50	100	0
OCTOBRE	960	960	100	0
NOVEMBRE	0	0	0	
DECEMBRE	0	0	0	
TOTAL	15 575	1 185	7,61	

CARANX RHCNCHUS

VARIANCE: 6.63 ECART TYPE: 2.58 TAILLE MOYENNE: 29.6

LF	FREQUENCE	Σ FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	0.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	0	C.C
17	329	C.C3
18	329	C.C3
19	329	C.C3
20	658	C.C6
21	6580	C.62
22	14741	1.38
23	21915	2.65
24	22937	2.15
25	20783	1.85
26	14176	1.33
27	92280	8.65
28	213994	20.66
29	213913	20.65
30	147973	13.87
31	120851	11.33
32	103594	9.71
33	38125	3.57
34	14841	1.39
35	8033	C.75
36	9110	C.85
37	1271	C.12
38	0	C.C
39	0	C.C
40	0	C.C
41	0	0.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	1066767	100.6

CARANX

RHENCHUS

VARIANCE: 3.20 ECART TYPE: 1.79 TAILLE MOYENNE: 28.3

LF	FREQUENCE	% FRIG.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	0	0.0
14	0	0.0
15	0	0.0
16	0	0.0
17	0	0.0
18	0	0.0
19	0	0.0
20	0	0.0
21	0	0.0
22	1086	0.07
23	4011	0.25
24	43397	2.72
25	75793	4.75
26	217519	13.63
27	339926	21.29
28	436546	27.35
29	225124	14.10
30	133339	8.35
31	59562	3.73
32	46978	2.94
33	9758	0.61
34	1565	0.10
35	1760	0.11
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	1596364	100.0

CARANX RHGNCHUS

VARIANCE: 3.42 ECART TYPE: 1.85 TAILLE MOYENNE: 29.0

LF	FREQUENCE	% FFEC.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	0	0.0
14	0	0.0
15	0	0.0
16	0	0.0
17	0	0.0
18	0	0.0
19	0	0.0
20	0	0.0
21	0	0.0
22	0	0.0
23	0	0.0
24	0	0.0
25	9902	1.38
26	13196	1.84
27	88530	12.37
28	210815	29.45
29	175746	24.55
30	81681	11.41
31	45736	6.39
32	44300	6.19
33	29915	4.18
34	11555	1.61
35	3035	0.42
36	1402	0.20
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	715813	100.0

CARANX RHONCHUS

VARIANCE: 6.24 ECART TYPE: 2.50 TAILLE MOYENNE: 30.1

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	0	C.C
17	0	C.C
18	0	C.C
19	0	C.C
20	0	C.C
21	0	C.C
22	7643	1.94
23	0	C.C
24	0	C.C
25	0	C.C
26	0	C.C
27	38430	9.74
28	114844	29.11
29	75458	19.13
30	26635	6.75
31	39334	9.97
32	35909	9.10
33	18770	4.76
34	16183	4.10
35	21298	5.40
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	394504	100.C

CAFANX

RHCNCHUS

VARIANCE: 3.72 ECART TYPE: 1.93 TAILLE MOYENNE: 24.00

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	0	0.0
14	0	0.0
15	0	0.0
16	0	0.0
17	0	0.0
18	0	0.0
19	0	0.0
20	0	0.0
21	0	0.0
22	0	0.0
23	0	0.0
24	1040	1.85
25	5120	9.26
26	7280	12.96
27	8240	11.11
28	13520	24.07
29	15600	27.78
30	3120	5.56
31	2080	3.70
32	0	0.0
33	1040	1.85
34	1040	1.85
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	56160	100.0

CAFANX RHCNCHUS

VARIANCE: 2.59 ECART TYPE: 1.61 TAILLE MOYENNE: 27.4

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	0	0.0
14	0	0.0
15	0	0.0
16	0	0.0
17	0	0.0
18	0	0.0
19	0	0.0
20	0	0.0
21	0	0.0
22	0	0.0
23	1000	0.90
24	2000	1.81
25	14917	13.50
26	37336	33.79
27	21668	19.61
28	16834	15.23
29	10834	9.80
30	1000	0.90
31	3917	3.54
32	1000	0.90
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	110506	100.0

CARANX PHCNCHUS

VARIANCE: 5.01 ECART TYPE: 2.24 TAILLE MOYENNE: 29.1

LF	FREQUENCE	% FREC.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	0	C.C
17	329	C.01
18	329	C.01
19	329	C.01
20	658	C.02
21	6580	C.17
22	23470	C.60
23	26926	C.68
24	69374	1.76
25	126595	3.21
26	289507	7.35
27	587074	14.90
28	1006553	25.55
29	716675	18.19
30	393748	9.99
31	271480	6.89
32	231781	5.88
33	97608	2.48
34	45184	1.15
35	34131	0.87
36	10512	0.27
37	1271	0.03
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
<b>TOTAL</b>	<b>3940114</b>	<b>100.C</b>



ANNEE 1971

SARDINELLE RONDE  
(Sardinella aurita)

1971

MOIS	PRISES (quintaux)	NON ECHANTILLONNEES		
		POIDS (Qx)	%	MOULES
JANVIER	2 850	0		
FEVRIER	7 235	0		
MARS	6 337	0		
AVRIL	9 090	0		
MAI	13 273	350	2.6	5
JUIN	8 690	0		
JUILLET	13 065	0		
AOUT	1 995	135	6.8	1
SEPTEMBRE	289	24	8.3	0
OCTOBRE	419	0		
NOVEMBRE	10 347	0		
DECEMBRE	11 834	0		
TOTAL	94 424	509	0.54	

## SARDINELLA ALBITA

VARIANCE: 15.22 ECART TYPE: 3.90 TAILLE MOYENNE: 15.8

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	23075	0.52
10	289650	6.55
11	400380	9.06
12	158480	3.59
13	289690	6.55
14	564315	12.77
15	922230	20.87
16	708410	16.03
17	400070	9.05
18	305130	6.90
19	86105	1.95
20	45000	1.02
21	0	0.0
22	7600	0.17
23	3800	0.09
24	3800	0.09
25	0	0.0
26	2552	0.06
27	15312	0.35
28	43384	0.98
29	79112	1.79
30	68904	1.56
31	2552	0.06
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	4419551	100.0

## SARDINELLA AURITA

VARIANCE: 7.60 ECART TYPE: 2.76 TAILLE MOYENNE: 28.9

LF	FREQUENCE	Σ FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	5850	0.31
14	9900	0.53
15	15300	0.82
16	14400	C.77
17	13050	C.70
18	12150	C.65
19	3600	C.19
20	2250	C.12
21	0	C.C
22	0	C.C
23	0	C.C
24	0	C.C
25	0	C.C
26	9952	C.53
27	106983	5.73
28	504621	27.03
29	690814	37.00
30	382183	20.47
31	82001	4.35
32	13952	C.75
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	1867006	100.C

## SARDINELLA AURITA

VARIANCE: 19.80 ECART TYPE: 4.45 TAILLE MOYENNE: 19.1

LF	FREQUENCE	% FFEC.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	5544	C.24
12	790	C.13
13	7914	C.35
14	37332	1.65
15	329841	14.54
16	521875	23.01
17	418905	18.47
18	263710	11.63
19	205096	9.07
20	105219	4.64
21	49722	2.19
22	14283	C.63
23	1587	C.07
24	1587	C.07
25	0	C.C
26	1714	C.08
27	18922	C.83
28	70108	3.09
29	100390	4.43
30	92692	4.19
31	15460	C.68
32	4806	C.21
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	2268097	100.C

## SARDINELLA AURITA

VARIANCE: 5.17 ECART TYPE: 2.27 TAILLE MOYENNE: 18.2

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	13058	C.14
12	32126	C.34
13	141562	1.49
14	442862	4.67
15	1436368	15.16
16	1189125	12.55
17	1074178	11.33
18	1368069	14.44
19	1539077	16.24
20	1362364	14.38
21	594222	6.27
22	221763	2.34
23	39989	C.42
24	6529	C.07
25	0	C.0
26	0	C.0
27	3200	C.03
28	4800	C.05
29	4800	C.05
30	3200	C.03
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	9477292	100.C

## SARDINELLA AURITA

VARIANCE: 1.85 ECART TYPE: 1.36 TAILLE MOYENNE: 20.4

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	0	0.0
14	0	0.0
15	2313	0.02
16	73568	0.77
17	238806	2.50
18	1014888	10.63
19	2363226	24.75
20	2534746	26.84
21	2093730	21.92
22	1053111	11.03
23	175650	1.84
24	0	0.0
25	0	0.0
26	0	0.0
27	0	0.0
28	0	0.0
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	9550038	100.0

## SARDINELLA AURITA

VARIANCE: 1.72 ECART TYPE: 1.31 TAILLE MOYENNE: 19.5

LF	FREQUENCE	X FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	27993	0.35
12	35991	0.45
13	31992	0.40
14	3599	0.05
15	0	C.C
16	0	C.C
17	146658	1.84
18	2102575	26.42
19	3329997	41.84
20	1512460	19.00
21	540651	6.79
22	188253	2.37
23	17521	0.22
24	20376	0.26
25	0	C.C
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	7958466	100.0



SARDINELLA AURITA

VARIANCE: 0.78 ECART TYPE: 0.88 TAILLE MOYENNE: 20.2

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	0	C.C
17	15294	C.15
18	571550	5.44
19	4159786	39.57
20	3975647	37.82
21	1520973	14.47
22	257475	2.45
23	11176	C.11
24	0	C.C
25	0	C.C
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
<b>TOTAL</b>	<b>10511901</b>	<b>100.C</b>

## SARDINELLA AURITA

VARIANCE: 8.74 ECART TYPE: 2.96 TAILLE MOYENNE: 21.5

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	429	C.C4
14	429	C.C4
15	0	C.C
16	1716	C.15
17	4719	C.40
18	2574	C.22
19	429	C.04
20	82685	7.04
21	541901	46.32
22	443966	37.78
23	76250	6.49
24	0	C.C
25	0	C.C
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	1175098	100.C

## SARDINELLA AURITA

VARIANCE: 0.52 ECART TYPE: 0.72 TAILLE MOYENNE: 22.0

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	0	C.C
17	0	C.C
18	0	C.C
19	0	C.C
20	11040	6.76
21	77280	47.30
22	64032	39.19
23	11040	6.76
24	0	C.C
25	0	C.C
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	163392	100.0

## SARDINELLA AURITA

VARIANCE: 2.09 ECART TYPE: 1.44 TAILLE MOYENNE: 20.7

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	44032	C.61
17	66048	C.92
18	803584	11.17
19	1297904	18.05
20	2029086	28.21
21	1522031	21.16
22	1010628	14.05
23	394392	5.48
24	22995	C.32
25	1533	C.02
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	7192233	100.C

## SARDINELLA AURITA

VARIANCE: 2.28 ECART TYPE: 1.51 TAILLE MOYENNE: 21.7

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	312	C.CC
16	1551	C.C2
17	26450	C.36
18	282376	3.88
19	667114	9.17
20	1371314	18.84
21	1590952	21.86
22	1796094	24.68
23	1209038	16.61
24	312346	4.29
25	17555	C.24
26	1677	C.C2
27	0	C.C
28	0	C.C
29	0	C.C
30	1677	C.C2
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	7278456	100.C

## SARDINELLA AURITA

VARIANCE: 2.93 ECART TYPE: 1.71 TAILLE MOYENNE: 22.2

LF	FREQUENCE	% FREC.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	713	C.C1
12	11775	C.16
13	25130	C.34
14	45115	C.61
15	22257	C.30
16	12789	C.17
17	14062	C.19
18	54502	C.74
19	230352	3.12
20	1020786	13.83
21	1348629	18.27
22	1921335	26.02
23	1949465	26.40
24	640917	8.68
25	62397	C.85
26	14545	C.20
27	4320	C.06
28	1759	C.C2
29	2387	C.C3
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	7383240	100.C

SARDINELLA AURITA

VARIANCE: 8.72 ECART TYPE: 2.95 TAILLE MOYENNE: 20.2

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	23075	C.C3
10	289650	C.42
11	447693	C.65
12	239162	C.35
13	502567	C.73
14	1103952	1.59
15	2728621	3.94
16	2567466	3.71
17	2418240	3.49
18	6781108	9.79
19	13883286	20.05
20	14052597	20.29
21	9880091	14.27
22	6978540	10.08
23	3889908	5.62
24	1008550	1.46
25	81485	C.12
26	30440	C.04
27	148737	0.21
28	624672	C.90
29	877503	1.27
30	548656	C.79
31	100013	0.14
32	18758	C.03
33	0	C.0
34	0	C.0
35	0	C.0
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	0.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	69244770	100.C

## SARDINELLE PLATE

(Sardinella maderensis = S. eba)

1971

MOIS	PRISES (quintaux)	NON ECHANTILLONNEES		
		POIDS (Qx)	%	MCULES
JANVIER	2 495	0		
FEVRIER	299	0		
MARS	334	41	12.3	0
AVRIL	1 420	0		
MAI	2 207	0		
JUIN	1 490	0		
JUILLET	935	0		
AOUT	5 040	0		
SEPTEMBRE	976	0		
OCTOBRE	2 323	0		
NOVEMBRE	1 504	0		
DECEMBRE	1 356	0		
TOTAL	20 379	41	0.20	



SAFDINELLA EBA

VARIANCE: 3.40 ECART TYPE: 1.84 TAILLE MOYENNE: 12.1

LF	FREQUENCE	% FRIC.
7	56500	0.95
8	113000	1.90
9	282500	4.74
10	1469000	24.66
11	1114625	18.71
12	1144500	19.21
13	679000	11.40
14	698250	11.72
15	293125	4.92
16	79625	1.34
17	18375	0.31
18	0	0.0
19	9625	0.16
20	0	0.0
21	0	0.0
22	0	0.0
23	0	0.0
24	0	0.0
25	0	0.0
26	0	0.0
27	0	0.0
28	0	0.0
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	5958125	100.0

## SARDINELLA EBA

VARIANCE: 1.20 ECART TYPE: 1.10 TAILLE MOYENNE: 14.6

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	7476	1.15
12	33642	5.17
13	138306	21.26
14	261660	40.23
15	149520	22.99
16	48594	7.47
17	11214	1.72
18	0	0.0
19	0	0.0
20	0	0.0
21	0	0.0
22	0	0.0
23	0	0.0
24	0	0.0
25	0	0.0
26	0	0.0
27	0	0.0
28	0	0.0
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	650412	100.0

SARDINELLA EBA

VARIANCE: 0.65 ECART TYPE: 0.80 TAILLE MOYENNE: 15.3

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	1000	C.18
12	3000	C.53
13	17767	3.12
14	143971	25.27
15	306311	53.77
16	88903	15.60
17	8767	1.54
18	0	C.C
19	0	C.C
20	0	C.C
21	0	C.C
22	0	C.C
23	0	C.C
24	0	C.C
25	0	C.C
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	569719	100.C

SARDINELLA EBA

VARIANCE: 17.08 ECART TYPE: 4.13 TAILLE MOYENNE: 14.5

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	66000	2.89
11	14250	C.62
12	182250	7.99
13	354900	15.56
14	285100	12.50
15	383700	16.82
16	372650	16.34
17	307050	13.46
18	83200	3.65
19	43300	1.90
20	41750	1.83
21	9000	C.39
22	9000	C.39
23	0	C.C
24	0	C.C
25	0	C.C
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	2281150	100.C

SARDINELLA EBA

VARIANCE: 2.57 ECART TYPE: 1.60 TAILLE MOYENNE: 18.3

LF	FREQUENCE	% FRIC.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	1287	0.06
14	17302	0.85
15	120317	5.95
16	202124	9.95
17	440852	21.71
18	747803	36.83
19	257487	12.68
20	118091	5.82
21	43129	2.12
22	60279	2.97
23	21350	1.05
24	0	0.0
25	0	0.0
26	0	0.0
27	0	0.0
28	0	0.0
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	2030521	100.0

SARDINELLA EBA

VARIANCE: 2.07 ECART TYPE: 1.44 TAILLE MOYENNE: 19.0

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	0.C
12	0	C.C
13	0	C.C
14	0	C.C
15	27090	2.CC
16	13545	1.CC
17	189630	14.CC
18	555345	41.CC
19	338625	25.CC
20	135450	10.CC
21	40635	3.CC
22	27090	2.CC
23	13545	1.CC
24	0	C.C
25	13545	1.CC
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	0.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	1354500	100.C

SARDINELLA EBA

VARIANCE: 1.06 ECART TYPE: 1.03 TAILLE MOYENNE: 19.1

LF	FREQUENCE	% FFREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	0.C
12	0	C.C
13	0	C.C
14	0	C.C
15	778	C.C9
16	10836	1.28
17	98432	11.67
18	296626	35.17
19	304212	36.07
20	103286	12.25
21	23142	2.74
22	6000	C.71
23	0	C.C
24	0	C.C
25	0	C.C
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	0.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	0.C
40	0	C.C
41	0	0.C
42	0	C.C
43	0	C.C
44	0	0.C
45	0	C.C
46	0	0.C
47	0	0.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	843312	100.C

SARDINELLA EBA

VARIANCE: 2.30 ECART TYPE: 1.52 TAILLE MOYENNE: 20.6

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	0	0.0
14	0	0.0
15	0	0.0
16	0	0.0
17	17440	0.51
18	424973	12.34
19	923138	26.81
20	801022	23.27
21	677807	19.69
22	375163	10.90
23	150390	4.37
24	34880	1.01
25	24010	0.70
26	13952	0.41
27	0	0.0
28	0	0.0
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	3442775	100.0



SARDINELLA EBA

VARIANCE: 1.98 ECART TYPE: 1.41 TAILLE MOYENNE: 21.7

LF	FREQUENCE	% FFEC.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	0	C.C
17	0	C.C
18	3559	C.63
19	32875	5.85
20	176740	31.47
21	136564	24.31
22	129629	23.08
23	53019	9.44
24	17795	3.17
25	4403	C.78
26	3559	C.63
27	3559	C.63
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	561702	100.C

SARDINELLA EBA

VARIANCE: 1.70 ECART TYPE: 1.30 TAILLE MOYENNE: 20.0

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	0	C.C
17	65137	3.80
18	314769	18.34
19	545293	31.77
20	399606	23.28
21	279213	16.27
22	85100	4.96
23	21794	1.27
24	3415	C.20
25	2000	0.12
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	1716327	100.C

SARDINELLA EBA

VARIANCE: 1.72 ECART TYPE: 1.31 TAILLE MOYENNE: 21.8

LF	FREQUENCE	% FRIC.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	0	C.C
17	2055	C.21
18	23532	2.43
19	83499	6.83
20	129799	13.41
21	273828	28.30
22	322094	33.29
23	104882	10.84
24	26312	2.72
25	841	C.09
26	841	C.09
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	967683	100.C

## SARDINELLA EBA

VARIANCE: 17.05 ECART TYPE: 4.13 TAILLE MOYENNE: 17.8

LF	FREQUENCE	% FFEC.
7	0	0.0
8	0	0.0
9	0	0.0
10	392	0.33
11	4312	3.75
12	48572	16.69
13	215976	24.12
14	312168	9.91
15	128300	2.45
16	31680	0.42
17	5476	0.0
18	0	0.0
19	1960	0.15
20	21940	1.70
21	163402	12.63
22	228000	17.62
23	91504	7.07
24	32588	2.52
25	4878	0.38
26	2918	0.23
27	0	0.0
28	0	0.0
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	1294066	100.0

RECAPITULATION 1971

SARDINELLA EBA

VARIANCE: 17.21 ECART TYPE: 4.15 TAILLE MOYENNE: 16.8

LF	FREQUENCE	% FREQ.
7	56500	0.26
8	113000	0.52
9	282500	1.30
10	1535392	7.09
11	1141663	5.27
12	1411964	6.52
13	1407236	6.49
14	1718451	7.93
15	1409641	6.50
16	847957	3.91
17	1164428	5.37
18	2449807	11.30
19	2540014	11.72
20	1927684	8.90
21	1646720	7.60
22	1242355	5.73
23	456484	2.11
24	114990	0.53
25	49677	0.23
26	21270	0.10
27	3559	0.02
28	0	0.0
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
<b>TOTAL</b>	<b>21670292</b>	<b>100.0</b>

CHINCHARD JAUNE  
(Caranx rhonchus)

1971

MOIS	PRISES (quintaux)	NON, ECHANTILLONNEES		
		POIDS (Qx)	%	MOULES
JANVIER	200	0	0	
FEVRIER	110	80	72,7	0
MARS	15	15	100	0
AVRIL	420	0	0	
MAI	0	0	0	
JUIN	90	0	0	
JUILLET	0	0	0	
AOUT	35	35	100	0
SEPTEMBRE	0	0	0	
OCTOBRE	0	0	0	
NOVEMBRE	0	0	0	
DECEMBRE	395	0	0	
TOTAL	1 265	130	10,28	

CARANX

RHCNCHUS

VARIANCE: 2.28 ECART TYPE: 1.51 TAILLE MOYENNE: 29.5

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	0	0.0
14	0	0.0
15	0	0.0
16	0	0.0
17	0	0.0
18	0	0.0
19	0	0.0
20	0	0.0
21	0	0.0
22	0	0.0
23	0	0.0
24	985	1.72
25	0	0.0
26	985	1.72
27	2955	5.17
28	16745	29.31
29	20685	36.21
30	5910	10.34
31	4925	8.62
32	2955	5.17
33	985	1.72
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	57130	100.0

CARANX

RHOCHUS

VARIANCE: 2.03 ECART TYPE: 1.43 TAILLE MOYENNE: 15.7

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	6039	11.96
14	13176	26.69
15	9882	19.57
16	11529	22.83
17	8235	16.30
18	549	1.09
19	1098	2.17
20	0	C.C
21	0	C.C
22	0	C.C
23	0	C.C
24	0	C.C
25	0	C.C
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	50508	100.C



CARANX RHCNCHUS

VARIANCE: 1.73 ECART TYPE: 1.31 TAILLE MOYENNE: 31.7

LF	FREQUENCE	Z FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	0	0.0
14	0	0.0
15	0	0.0
16	0	0.0
17	0	0.0
18	0	0.0
19	0	0.0
20	0	0.0
21	0	0.0
22	0	0.0
23	0	0.0
24	0	0.0
25	0	0.0
26	0	0.0
27	0	0.0
28	0	0.0
29	9725	11.90
30	11670	14.29
31	31120	38.10
32	17505	21.43
33	5835	7.14
34	5835	7.14
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	81690	100.0

CARANX RHENCHUS

VARIANCE: 4.06 ECART TYPE: 2.01 TAILLE MOYENNE: 27.9

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	0	0.0
14	0	0.0
15	0	0.0
16	0	0.0
17	0	0.0
18	0	0.0
19	0	0.0
20	0	0.0
21	0	0.0
22	310	1.45
23	930	4.35
24	1240	5.80
25	620	2.90
26	3410	15.94
27	3410	15.94
28	5270	24.64
29	3100	14.49
30	2480	11.59
31	620	2.90
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	21390	100.0

CARANX

RHCNCHUS

VARIANCE: 1.35 ECART TYPE: 1.16 TAILLE MOYENNE: 24.2

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	0	C.C
17	0	C.C
18	0	C.C
19	0	C.C
20	0	C.C
21	3950	2.27
22	19750	11.36
23	55300	31.82
24	55300	31.82
25	31600	18.18
26	3950	2.27
27	3950	2.27
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	173800	100.0

CARANX PHCACHUS

VARIANCE: 26.04 ECART TYPE: 5.10 TAILLE MOYENNE: 25.6

LF	FREQUENCE	% FREC.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	6039	1.57
14	13176	3.43
15	9882	2.57
16	11529	3.00
17	8235	2.14
18	549	C.14
19	1098	C.29
20	0	C.0
21	3950	1.03
22	20060	5.22
23	56230	14.62
24	57525	14.96
25	32220	8.38
26	8345	2.17
27	10315	2.68
28	22015	5.73
29	33510	8.71
30	20060	5.22
31	36665	9.54
32	20460	5.32
33	6820	1.77
34	5835	1.52
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
<b>TOTAL</b>	<b>384518</b>	<b>100.C</b>

ANNEE 1972

## SARDINELLE RONDE

(Sardinella aurita)

1972

MOIS	PRISES (quintaux)	NON ECHANTILLONNEES		
		POIDS (Qx)	%	MOULES
JANVIER	6 307	0	0	
FEVRIER	12 394	0	0	
MARS	19 340	0	0	
AVRIL	14 533	0	0	
MAI	24 102	0	0	
JUIN	15 770	0	0	
JUILLET	13 105	0	0	
AOUT	2 317	0	0	
SEPTEMBRE	10 114	0	0	
OCTOBRE	18 150	0	0	
NOVEMBRE	18 977	0	0	
DECEMBRE	17 436	0	0	
TOTAL	172 545	0	0	

## SARDINELLA AUFITA

VARIANCE: 7.59 ECART TYPE: 2.76 TAILLE MOYENNE: 22.1

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	1325	C.C3
13	59688	1.45
14	102814	2.49
15	105191	2.54
16	49774	1.20
17	29383	0.71
18	62844	1.52
19	160596	3.88
20	362117	8.76
21	484310	11.71
22	1143925	27.66
23	1030193	24.91
24	316789	7.66
25	53825	1.30
26	35305	C.85
27	50108	1.21
28	46354	1.12
29	26693	C.65
30	12599	C.30
31	1046	C.23
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	4135079	100.C

## SARDINELLA AURITA

VARIANCE: 17.52 ECART TYPE: 4.19 TAILLE MOYENNE: 24.0

LF	FREQUENCE	% FREC.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	5547	0.11
12	17833	0.34
13	9352	0.18
14	28820	0.55
15	57931	1.11
16	162562	3.12
17	232360	4.46
18	253236	4.86
19	258758	4.97
20	435426	8.36
21	344781	6.62
22	290921	5.58
23	442646	8.50
24	326884	6.27
25	241705	4.64
26	387679	7.44
27	658426	12.64
28	581762	11.17
29	299303	5.74
30	123648	2.37
31	44399	0.85
32	6600	0.13
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	5210579	100.0



## SARDINELLA AURITA

VARIANCE: 15.05 ECART TYPE: 3.88 TAILLE MOYENNE: 22.0

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	2383	0.02
12	38367	0.38
13	124661	1.24
14	194065	1.93
15	310066	3.08
16	506214	5.03
17	664097	6.60
18	576946	5.74
19	575998	5.73
20	813147	8.09
21	1097470	10.91
22	910279	9.05
23	1030716	10.25
24	1101669	10.95
25	625305	6.22
26	298315	2.97
27	509801	5.07
28	407792	4.05
29	191586	1.90
30	42377	0.42
31	22023	0.22
32	13745	0.14
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	10057022	100.0

SARDINELLA AUFITA

VARIANCE: 14.92 ECART TYPE: 3.86 TAILLE MOYENNE: 24.8

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	3923	0.07
14	27496	0.52
15	66776	1.26
16	117229	2.21
17	159215	3.00
18	166460	3.13
19	180950	3.41
20	181823	3.42
21	275302	5.18
22	351342	6.61
23	598331	11.26
24	514793	9.69
25	306009	5.76
26	319820	6.02
27	683913	12.87
28	754991	14.21
29	404176	7.61
30	154250	2.90
31	34662	0.65
32	10710	0.20
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	5312226	100.0

## SARDINELLA AURITA

VARIANCE: 7.53 ECART TYPE: 2.74 TAILLE MOYENNE: 20.7

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	8902	C.05
13	26706	C.16
14	275662	1.69
15	310050	1.90
16	611724	3.75
17	1186371	7.27
18	2426128	14.87
19	2123644	13.02
20	1399787	8.58
21	2933219	17.98
22	1856296	11.38
23	1410827	8.65
24	706166	4.33
25	499530	3.06
26	247804	1.52
27	194556	1.19
28	80142	C.49
29	14930	C.09
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	16312744	100.C

## SARDINELLA AURITA

VARIANCE: 4.35 ECART TYPE: 2.09 TAILLE MOYENNE: 20.2

LF	FREQUENCE	% FREC.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	14914	C.12
15	287030	2.34
16	684430	5.58
17	1232776	10.05
18	1200558	9.79
19	1601085	13.06
20	1754765	14.31
21	3071432	25.05
22	1760508	14.36
23	483618	3.94
24	85932	C.70
25	85334	C.70
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	12262382	100.C

## SARDINELLA AUFITA

VARIANCE: 1.81 ECART TYPE: 1.35 TAILLE MOYENNE: 25.3

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	0	0.0
14	0	0.0
15	0	0.0
16	0	0.0
17	0	0.0
18	31874	0.46
19	132619	1.92
20	291235	4.21
21	444022	6.42
22	1517379	21.95
23	2386393	34.52
24	1764113	25.52
25	250396	3.62
26	47811	0.69
27	47811	0.69
28	0	0.0
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	6913653	100.0

## SARDINELLA AURITA

VARIANCE: 0.78 ECART TYPE: 0.88 TAILLE MOYENNE: 23.0

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	0	0.0
14	0	0.0
15	0	0.0
16	0	0.0
17	0	0.0
18	0	0.0
19	0	0.0
20	0	0.0
21	196053	13.92
22	409929	29.11
23	659451	46.84
24	124761	8.86
25	17823	1.27
26	0	0.0
27	0	0.0
28	0	0.0
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	1408017	100.0

SARDINELLA AUSITA

VARIANCE: 1.39 ECART TYPE: 1.19 TAILLE MOYENNE: 21.0

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	0	C.C
17	0	C.C
18	44084	C.72
19	238504	3.89
20	765115	12.49
21	1239581	20.24
22	2489620	40.64
23	1151413	18.80
24	168565	2.75
25	28542	C.47
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
<b>TOTAL</b>	<b>6125424</b>	<b>100.C</b>

SARDINELLA AURITA

VARIANCE: 1.14 ECART TYPE: 1.07 TAILLE MOYENNE: 22.0

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	2935	C.C2
17	0	C.C
18	0	C.C
19	340017	2.88
20	1914715	16.20
21	3362969	28.46
22	4370552	36.99
23	1594413	13.49
24	224983	1.90
25	5870	0.05
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	11816454	100.C



SARDINELLA AURITA

VARIANCE: 1.81 ECART TYPE: 1.35 TAILLE MOYENNE: 22.2

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	0	0.0
14	0	0.0
15	0	0.0
16	0	0.0
17	0	0.0
18	14619	0.12
19	376049	3.17
20	2011277	16.96
21	2784894	23.48
22	3228198	27.22
23	2340437	19.74
24	873114	7.36
25	229989	1.94
26	0	0.0
27	0	0.0
28	0	0.0
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	11858577	100.0

## SARDINELLA AURITA

VARIANCE: 3.52 ECART TYPE: 1.88 TAILLE MOYENNE: 23.8

LF	FREQUENCE	% FFIC.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	0	C.C
17	0	C.C
18	12010	C.15
19	0	C.C
20	176713	2.14
21	832548	10.09
22	1998892	24.21
23	2085001	25.26
24	1335570	16.18
25	725799	8.79
26	464633	5.63
27	296178	3.59
28	198765	2.41
29	122766	1.49
30	6100	0.07
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	8254975	100.C

RECAPITULATION

72

SARDINELLA AURITA

VARIANCE: 7.86 ECART TYPE: 2.80 TAILLE MOYENNE: 22.1

LF	FREQUENCE	% FFREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	7930	C.C1
12	66427	C.07
13	224535	C.23
14	644071	C.65
15	1137044	1.14
16	2134868	2.14
17	3504202	3.52
18	4788759	4.80
19	5988220	6.01
20	10106120	10.14
21	17066581	17.12
22	20327841	20.40
23	15213489	15.26
24	7543339	7.57
25	3070127	3.08
26	1801367	1.81
27	2440793	2.45
28	2069806	2.08
29	1059454	1.06
30	338974	C.34
31	102130	C.10
32	31055	0.C3
33	0	0.C
34	0	0.C
35	0	0.C
36	0	0.C
37	0	0.C
38	0	0.C
39	0	0.C
40	0	0.C
41	0	0.C
42	0	0.C
43	0	0.C
44	0	0.C
45	0	0.C
46	0	0.C
47	0	0.C
48	0	0.C
49	0	0.C
50	0	0.C
<b>TOTAL</b>	<b>99667132</b>	<b>100.C</b>

SARDINELLE PLATE

(Sardinella maderensis = S. eba)

1972

MOIS	PRISES (quintaux)	NON ECHANTILLONNEES		
		POIDS (Qx)	%	MOULES
JANVIER	981	0	0	
FEVRIER	716	0	0	
MARS	2 065	0	0	
AVRIL	704	0	0	
MAI	6 322	0	0	
JUIN	7 916	0	0	
JUILLET	11 521	0	0	
AOUT	2 408	0	0	
SEPTEMBRE	4 588	0	0	
OCTOBRE	2 193	0	0	
NOVEMBRE	2 693	0	0	
DECEMBRE	2 568	0	0	
TOTAL	44 675	0	0	

SARDINELLA EBA

VARIANCE: 14.13 ECART TYPE: 3.76 TAILLE MOYENNE: 18.9

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	0.C
9	0	C.C
10	0	C.C
11	0	C.C
12	2170	C.28
13	57505	7.48
14	168175	21.86
15	77418	10.C6
16	25280	3.29
17	4282	C.56
18	528	C.07
19	973	C.13
20	26038	3.38
21	154985	20.15
22	203027	28.39
23	47007	6.11
24	1889	C.25
25	0	C.C
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	0.C
42	0	C.C
43	0	C.C
44	0	0.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	0.C
TOTAL	769277	100.C

SARDINELLA EBA

VARIANCE: 14.34 ECART TYPE: 3.79 TAILLE MOYENNE: 16.4

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	21622	2.42
11	95609	10.71
12	101716	11.39
13	67593	7.57
14	53219	5.96
15	108433	12.15
16	126553	14.18
17	84694	9.49
18	14740	1.65
19	9365	1.05
20	19749	2.21
21	67668	7.58
22	90779	10.17
23	26155	2.93
24	4793	0.54
25	0	0.0
26	0	0.0
27	0	0.0
28	0	0.0
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	892688	100.0

SAFDINELLA EBA

VARIANCE: 10.20 ECART TYPE: 3.19 TAILLE MOYENNE: 16.3

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	6554	0.25
11	148430	5.73
12	253642	9.79
13	274648	10.60
14	195165	7.53
15	310867	12.00
16	557200	21.51
17	372568	14.38
18	102594	3.96
19	8874	0.34
20	9855	0.38
21	58323	2.25
22	180718	6.98
23	86353	3.33
24	17546	0.68
25	4507	0.17
26	2305	0.09
27	0	0.0
28	0	0.0
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	2590149	100.0

SARDINELLA EBA

VARIANCE: 6.99 ECART TYPE: 2.64 TAILLE MOYENNE: 16.8

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	3030	0.34
11	27270	3.04
12	23320	2.60
13	48750	5.44
14	86300	9.63
15	161130	17.97
16	208420	23.25
17	100260	11.18
18	108700	12.12
19	4654	0.52
20	7308	0.82
21	63664	7.10
22	51702	5.77
23	2030	0.23
24	0	0.0
25	0	0.0
26	0	0.0
27	0	0.0
28	0	0.0
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	896538	100.0



SARDINELLA EEA

VARIANCE: 10.01 ECART TYPE: 3.16 TAILLE MOYENNE: 17.3

LF	FREQUENCE	% FFIC.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	12333	0.16
12	397029	5.13
13	1015277	13.12
14	1034149	13.37
15	769424	9.95
16	642093	8.30
17	1003324	12.97
18	574462	7.43
19	234907	3.04
20	450634	5.83
21	1000529	12.93
22	503709	6.51
23	82543	1.07
24	5955	0.08
25	0	0.0
26	6346	0.08
27	3173	0.04
28	0	0.0
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	7735887	100.0

SARDINELLA E8A

VARIANCE: 3.52 ECART TYPE: 1.88 TAILLE MOYENNE: 18.5

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	18900	0.23
14	281830	3.49
15	601856	7.46
16	982448	12.18
17	928863	11.52
18	1888192	23.41
19	1790869	22.21
20	1051490	13.04
21	374202	4.64
22	80760	1.00
23	33363	0.41
24	0	0.0
25	26625	0.33
26	4889	0.06
27	0	0.0
28	0	0.0
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	8064287	100.0

SARDINELLA EBA

VARIANCE: 4.79 ECART TYPE: 2.19 TAILLE MOYENNE: 21.2

LF	FFREQUENCE	% FRIG.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	0	0.0
14	0	0.0
15	65776	0.89
16	320072	4.31
17	345064	4.65
18	276316	3.72
19	995382	13.41
20	1341550	18.08
21	1271021	17.13
22	1463463	19.72
23	769508	10.37
24	322537	4.35
25	163747	2.21
26	59031	0.80
27	20476	0.28
28	7438	0.10
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	7421381	100.0

SARDINELLA EBA

VARIANCE: 0.70 ECART TYPE: 0.83 TAILLE MOYENNE: 21.2

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	0	0.0
14	0	0.0
15	0	0.0
16	0	0.0
17	0	0.0
18	0	0.0
19	120400	6.94
20	529760	30.56
21	963200	55.56
22	72240	4.17
23	24080	1.39
24	24080	1.39
25	0	0.0
26	0	0.0
27	0	0.0
28	0	0.0
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	1733760	100.0

SARDINELLA EBA

VARIANCE: 0.77 ECART TYPE: 0.88 TAILLE MOYENNE: 19.7

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	0.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	0	C.C
17	42188	1.06
18	491024	12.37
19	2466567	62.14
20	711657	17.93
21	156751	3.95
22	67390	1.70
23	26956	0.68
24	6739	C.17
25	0	C.C
26	0	C.C
27	0	0.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	0.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	0.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	0.C
45	0	C.C
46	0	0.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	3969272	100.C

SARDINELLA EBA

VARIANCE: 0.83 ECART TYPE: 0.91 TAILLE MOYENNE: 20.8

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	0	C.C
17	0	C.C
18	0	C.C
19	152075	11.33
20	760375	56.67
21	335205	24.98
22	36815	2.74
23	47695	3.55
24	7040	C.52
25	1280	C.10
26	1280	C.10
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	1341765	100.C

SARDINELLA E8A

VARIANCE: 4.29 ECART TYPE: 2.07 TAILLE MOYENNE: 19.8

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	39416	1.96
13	78832	3.91
14	39416	1.96
15	19708	C.98
16	0	C.0
17	0	C.0
18	78832	3.91
19	516130	25.62
20	826638	41.03
21	386582	19.19
22	24394	1.21
23	4686	C.23
24	0	C.C
25	0	C.C
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TGTAL	2014634	100.C

SARDINELLA EBA

VARIANCE: 1.03 ECART TYPE: 1.01 TAILLE MOYENNE: 22.2

LF	FREQUENCE	% FRIG.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.0
16	0	0.0
17	0	C.0
18	0	C.0
19	14885	1.09
20	111698	8.15
21	446671	32.61
22	528478	38.58
23	219595	16.03
24	33494	2.45
25	14885	1.09
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	1369706	100.C



SARDINELLA EBA

VARIANCE: 8.58 ECART TYPE: 2.93 TAILLE MOYENNE: 19.1

LF	FREQUENCE	% FRIC.
7	0	C.C
8	0	C.C
9	0	C.C
10	31206	C.08
11	283642	C.73
12	817293	2.11
13	1561505	4.02
14	1858254	4.79
15	2114612	5.45
16	2862066	7.38
17	2881243	7.43
18	3535388	9.11
19	6315081	16.28
20	5846752	15.07
21	5278801	13.61
22	3303475	8.51
23	1369971	3.53
24	424073	1.09
25	211044	C.54
26	73851	C.19
27	23649	C.C6
28	7438	C.C2
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
<b>TOTAL</b>	<b>38799344</b>	<b>100.C</b>

## CHINCHARD JAUNE

(Caranx rhonchus)

1972

MOIS	PRISES (quintaux)	NON ECHANTILLONNEES		
		POIDS (Qx)	%	MOULES
JANVIER	2 981	0	0	
FEVRIER	1 979	0	0	
MARS	0	0	0	
AVRIL	4 515	0	0	
MAI	350	210	60	0
JUIN	0	0	0	
JUILLET	0	0	0	
AOUT	10	0	0	
SEPTEMBRE	0	0	0	
OCTOBRE	281	281	100	0
NOVEMBRE	25	25	100	0
DECEMBRE	1 471	0	0	
TOTAL	11 612	516	4,44	

CARANX RHCNCHUS

VARIANCE: 7.45 ECART TYPE: 2.73 TAILLE MOYENNE: 24.4

LF	FREQUENCE	% FREC.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	0	0.0
14	0	0.0
15	1758	0.13
16	3516	0.26
17	3516	0.26
18	1758	0.13
19	37567	2.78
20	110424	8.18
21	201405	14.92
22	99552	7.38
23	63896	4.73
24	183558	13.60
25	253540	18.79
26	170829	13.25
27	113691	8.42
28	43254	3.21
29	28055	2.08
30	14444	1.07
31	8547	0.63
32	1817	0.13
33	446	0.03
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	1349573	100.0

CARANX RHCNCHUS

VARIANCE: 3.90 ECART TYPE: 1.97 TAILLE MOYENNE: 28.3

LF	FREQUENCE	% FFIG.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	0	C.C
17	0	C.C
18	0	C.C
19	0	C.C
20	0	C.C
21	0	C.C
22	0	C.C
23	10515	1.82
24	22067	3.81
25	22374	3.87
26	72259	12.49
27	137650	23.79
28	126408	21.85
29	62024	10.72
30	80748	13.96
31	24570	4.25
32	10530	1.82
33	7607	1.31
34	1755	C.30
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
<b>TOTAL</b>	<b>578507</b>	<b>100.C</b>

CARANX RHCNCHUS

VARIANCE: 3.71 ECART TYPE: 1.93 TAILLE MOYENNE: 29.8

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	0	C.C
17	0	C.C
18	0	C.C
19	0	C.C
20	0	C.C
21	0	C.C
22	0	C.C
23	0	C.C
24	0	C.C
25	1593	C.14
26	44613	3.81
27	138117	11.79
28	272511	23.26
29	210375	17.66
30	186999	15.96
31	154593	13.20
32	97755	8.35
33	40908	3.49
34	12225	1.04
35	6909	C.59
36	0	C.C
37	3186	C.27
38	1593	0.14
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	1171377	100.C

CAP ANX FONCHUS

VARIANCE: 0.93 ECART TYPE: 0.95 TAILLE MOYENNE: 26.9

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	0	0.0
14	0	0.0
15	0	0.0
16	0	0.0
17	0	0.0
18	0	0.0
19	0	0.0
20	0	0.0
21	0	0.0
22	0	0.0
23	0	0.0
24	0	0.0
25	9059	18.64
26	17706	36.44
27	16471	33.97
28	4529	9.32
29	824	1.70
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	48589	100.0

CARANX

RHCACHUS

VARIANCE: 1.91 ECART TYPE: 1.38 TAILLE MOYENNE: 27.5

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	0	C.C
17	0	C.C
18	0	C.C
19	0	C.C
20	0	C.C
21	0	C.C
22	0	C.C
23	5430	1.14
24	11028	2.31
25	27486	5.76
26	119433	25.05
27	167436	35.11
28	81591	17.11
29	42069	8.82
30	19677	4.13
31	0	C.C
32	2715	C.57
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	476865	100.C

RECAPITULATION

1972

CAF ANX RHONCHUS

VARIANCE: 10.27 ECART TYPE: 3.20 TAILLE MOYENNE: 27.2

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	0	0.0
14	0	0.0
15	1758	0.05
16	3516	0.10
17	3516	0.10
18	1758	0.05
19	37567	1.04
20	110424	3.05
21	201405	5.56
22	99552	2.75
23	79841	2.20
24	216653	5.93
25	314052	8.66
26	432840	11.94
27	573365	15.82
28	528293	14.57
29	343347	9.47
30	301868	8.33
31	187710	5.18
32	112817	3.11
33	48961	1.35
34	13980	0.39
35	6909	0.19
36	0	0.0
37	3186	0.09
38	1593	0.04
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
<b>TOTAL</b>	<b>3624911</b>	<b>100.0</b>



ANNEE 1973

SARDINELLE RONDE  
 (Sardinella aurita)

1973

MOIS	PRISES (quintaux)	NON ECHANTILLONNEES		
		POIDS (Qx)	%	MOULES
JANVIER	14 575	0	0	
FEVRIER	8 409	0	0	
MARS	10 886	0	0	
AVRIL	24 160	0	0	
MAI	25 890	100	0,38	1
JUIN	11 426	0	0	
JUILLET	1 948	0	0	
AOUT	2 504	0	0	
SEPTEMBRE	7 321	0	0	
OCTOBRE	20 305	303	1,49	0-
NOVEMBRE	22 712	0	0	
DECEMBRE	25 793	0	0	
TOTAL	175 929	403	0,23	

## SARDINELLA AURITA

VARIANCE: 14.21 ECART TYPE: 3.77 TAILLE MOYENNE: 23.2

LF	FREQUENCE	% FREC.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	6549	0.09
14	137748	1.98
15	300000	4.31
16	249927	3.59
17	133518	1.92
18	197535	2.84
19	335283	4.81
20	355574	5.11
21	378251	5.43
22	795943	11.43
23	930263	13.36
24	818413	11.75
25	627932	9.02
26	571033	8.20
27	563341	8.09
28	298013	4.28
29	186253	2.67
30	71979	1.03
31	4406	0.06
32	0	0.0
33	2364	0.03
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	6964325	100.0

## SARDINELLA AURITA

VARIANCE: 8.40 ECART TYPE: 2.90 TAILLE MOYENNE: 26.6

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	8412	C.32
17	10515	C.40
18	12618	C.48
19	25236	C.95
20	103047	3.89
21	185064	6.98
22	117768	4.44
23	57220	2.16
24	66247	2.50
25	160581	6.06
26	364948	13.77
27	607169	22.91
28	495935	18.71
29	293634	11.08
30	122319	4.61
31	17400	C.66
32	3100	C.12
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	2650703	100.C

SARDINELLA ALBITA

VARIANCE: 8.16 ECART TYPE: 2.96 TAILLE MOYENNE: 21.9

LF	FREQUENCE	% FRIC.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	0	0.0
14	0	0.0
15	0	0.0
16	121868	1.87
17	343666	5.29
18	610428	9.39
19	583044	8.97
20	761870	11.72
21	1145327	17.62
22	1027592	15.81
23	666930	10.26
24	354901	5.46
25	231866	3.57
26	201442	3.10
27	213135	3.28
28	138186	2.13
29	75477	1.16
30	19154	0.29
31	5537	0.09
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	6500423	100.0

SARDINELLA ALFITA

VARIANCE: 3.19 ECART TYPE: 1.79 TAILLE MOYENNE: 22.3

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	0	0.0
14	19393	0.14
15	28324	0.20
16	50394	0.36
17	124437	0.89
18	319265	2.28
19	708558	5.06
20	1310487	9.36
21	3007243	21.48
22	3353830	23.95
23	3012427	21.52
24	1375511	9.82
25	476049	3.40
26	135070	0.96
27	45149	0.32
28	19290	0.14
29	9645	0.07
30	6430	0.05
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	14001502	100.0

SARDINELLA AUFITA

VARIANCE: 4.80 ECART TYPE: 2.19 TAILLE MOYENNE: 20.9

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	2366	C.01
14	108211	C.57
15	384348	2.C3
16	827061	4.36
17	559726	2.95
18	1207375	6.37
19	3047256	16.07
20	3719067	19.61
21	2697928	14.23
22	3064563	16.16
23	2406023	12.69
24	778928	4.11
25	129418	C.68
26	18520	C.10
27	10452	0.06
28	4869	C.03
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	18966111	100.C

## SARDINELLA ALPITA

VARIANCE: 5.42 ECART TYPE: 2.33 TAILLE MOYENNE: 21.2

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	19048	C.24
15	67048	C.83
16	441093	5.48
17	643065	7.99
18	530670	6.60
19	543780	6.76
20	861399	10.71
21	1108709	13.78
22	1870216	23.24
23	1573112	19.55
24	358980	4.46
25	20541	C.26
26	5065	C.06
27	1702	C.C2
28	1702	C.C2
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	8046130	100.C



## SARDINELLA AURITA

VARIANCE: 0.95 ECART TYPE: 0.97 TAILLE MOYENNE: 22.7

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	0	0.0
14	0	0.0
15	0	0.0
16	0	0.0
17	0	0.0
18	618	0.05
19	6642	0.59
20	39800	3.51
21	182141	16.07
22	490804	43.30
23	341746	30.15
24	61326	5.41
25	7647	0.67
26	2137	0.19
27	618	0.05
28	0	0.0
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	1133479	100.0

SARDINELLA ALBITA

VARIANCE: 0.67 ECART TYPE: 0.82 TAILLE MOYENNE: 22.7

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	0	C.C
17	0	C.C
18	0	C.C
19	0	C.C
20	37339	2.54
21	221564	15.09
22	733127	49.94
23	423462	28.85
24	48045	3.27
25	4480	C.31
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	1468017	100.C

SARDINELLA AURITA

VARIANCE: 0.84 ECART TYPE: 0.92 TAILLE MOYENNE: 22.0

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	0	C.C
17	0	C.C
18	0	C.C
19	11745	0.27
20	51616	1.20
21	341034	19.49
22	1551057	35.94
23	1540800	35.70
24	319929	7.41
25	0	C.C
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	4316181	100.0

SARDINELLA AUSITA

VARIANCE: 1.40 ECART TYPE: 1.18 TAILLE MOYENNE: 25.0

LF	FREQUENCE	% FRQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	43444	0.34
14	0	0.0
15	0	0.0
16	0	0.0
17	0	0.0
18	49548	0.39
19	644938	5.06
20	864203	6.73
21	3452375	27.09
22	5318002	41.73
23	2102554	16.50
24	249473	1.96
25	15959	0.13
26	4119	0.03
27	0	0.0
28	0	0.0
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	12743620	100.0

## SARDINELLA AURITA

VARIANCE: 2.79 ECART TYPE: 1.67 TAILLE MOYENNE: 22.0

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	19791	0.15
11	13194	0.10
12	13194	0.10
13	0	0.0
14	0	0.0
15	0	0.0
16	0	0.0
17	0	0.0
18	10953	0.08
19	211345	1.60
20	939070	7.12
21	3151719	23.89
22	4895710	37.11
23	2071442	15.70
24	727426	5.51
25	641387	4.86
26	312453	2.37
27	89415	0.68
28	58252	0.44
29	26401	0.20
30	12326	0.09
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	13194078	100.0

## SARDINELLA ALPITA

VARIANCE: 3.51 ECART TYPE: 2.55 TAILLE MOYENNE: 25.2

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	0	0.0
14	0	0.0
15	0	0.0
16	5446	0.06
17	4642	0.05
18	24507	0.25
19	135063	1.37
20	223107	2.28
21	557158	5.71
22	1250749	12.81
23	1246683	12.77
24	1070432	10.96
25	1302774	13.34
26	1355918	13.88
27	1082000	11.08
28	806823	8.26
29	556293	5.70
30	112996	1.16
31	32676	0.33
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	9765867	100.0

RECAPITULATION

73

SARDINELLA AURITA

VARIANCE: 6.68 ECART TYPE: 2.58 TAILLE MOYENNE: 22.4

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	19791	C.02
11	13194	C.01
12	13194	C.01
13	52359	C.05
14	284400	C.29
15	779720	C.78
16	1704201	1.71
17	1819569	1.82
18	2963517	2.97
19	6251490	6.27
20	9266584	9.29
21	16928513	16.97
22	24469361	24.53
23	16372662	16.41
24	6229611	6.25
25	3618634	3.63
26	2970705	2.98
27	2612981	2.62
28	1823070	1.83
29	1147703	1.15
30	345204	C.35
31	60019	C.06
32	3100	C.00
33	2364	C.00
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	99750436	100.C

## SARDINELLE PLATE

(Sardinella maderensis = S. eba)

1973

MOIS	PRISES (quintaux)	NON ECHANTILLONNEES		
		POIDS (Qx)	%	MOULES
JANVIER	1 732	0	0	
FEVRIER	1 062	0	0	
MARS	1 602	0	0	
AVRIL	3 384	0	0	
MAI	5 337	0	0	
JUIN	11 850	35	0,30	1
JUILLET	18 495	0	0	
AOUT	13 324	0	0	
SEPTEMBRE	5 652	0	0	
OCTOBRE	5 995	193	3,22	0.
NOVEMBRE	11 672	0	0	
DECEMBRE	6 028	0	0	
TOTAL	86 133	228	0,26	



SAFDINELLA EBA

VARIANCE: 18.39 ECAERT TYPE: 4.29 TAILLE MOYENNE: 17.3

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	6230	0.36
10	12460	0.71
11	31150	1.78
12	155750	8.90
13	280350	16.02
14	323960	18.51
15	216050	12.46
16	62300	3.56
17	6230	0.36
18	0	0.0
19	6256	0.36
20	12512	0.72
21	145296	8.30
22	265564	15.18
23	183592	10.49
24	28666	1.64
25	10622	0.61
26	0	0.0
27	0	0.0
28	764	0.04
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	1749752	100.0

SARDINELLA EBA

VARIANCE: 2.49 ECART TYPE: 1.58 TAILLE MOYENNE: 20.1

LF	FREQUENCE	% FFIC.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	0	0.0
14	0	0.0
15	0	0.0
16	0	0.0
17	24916	3.18
18	174412	22.24
19	267847	34.16
20	149496	19.07
21	49254	6.28
22	62033	7.91
23	44245	5.64
24	10296	1.31
25	.792	0.10
26	.792	0.10
27	0	0.0
28	0	0.0
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	784083	100.0

SARDINELLA EBA

VARIANCE: 8.05 ECART TYPE: 2.84 TAILLE MOYENNE: 18.4

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	3180	0.21
14	74730	4.93
15	198750	13.11
16	392728	25.90
17	278247	18.35
18	93802	6.19
19	28615	1.89
20	69946	4.61
21	85606	5.64
22	144046	9.50
23	126420	8.34
24	18342	1.21
25	1044	0.07
26	1044	0.07
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	1516500	100.C

SARDINELLA EBA

VARIANCE: 4.91 ECART TYPE: 2.22 TAILLE MOYENNE: 17.7

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	2550	0.07
13	21120	0.58
14	203066	5.57
15	523848	14.36
16	714791	19.59
17	1103023	30.23
18	474269	13.00
19	82864	2.27
20	72998	2.00
21	146874	4.03
22	210580	5.77
23	74281	2.04
24	10902	0.30
25	1817	0.05
26	1817	0.05
27	1617	0.05
28	0	C.0
29	1817	0.05
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	3648434	100.0

SARDINELLA EBA

VARIANCE: 7.12 ECART TYPE: 2.67 TAILLE MOYENNE: 17.9

LF	FREQUENCE	% FFIC.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	44726	0.82
14	314416	5.76
15	1100353	20.16
16	1315643	24.10
17	725903	13.30
18	454563	8.33
19	222216	4.07
20	241391	4.42
21	404157	7.40
22	372572	6.83
23	187524	3.44
24	57726	1.06
25	6919	0.13
26	3469	0.06
27	3469	0.06
28	0	0.0
29	3469	0.06
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
<b>TOTAL</b>	<b>5458516</b>	<b>100.0</b>

SARDINELLA E8A

VARIANCE: 9.58 ECART TYPE: 3.10 TAILLE MOYENNE: 20.6

LF	FREQUENCE	% FRIG.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	1965	0.03
14	53055	0.68
15	391348	5.00
16	930842	11.90
17	1096862	14.03
18	518579	6.63
19	201754	2.58
20	499418	6.39
21	916175	11.72
22	1110952	14.21
23	1063288	13.60
24	664043	8.49
25	274107	3.51
26	81197	1.04
27	14771	0.19
28	1243	0.02
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
<b>TOTAL</b>	<b>7819599</b>	<b>100.0</b>

SARDINELLA EBA

VARIANCE: 2.03 ECART TYPE: 1.42 TAILLE MOYENNE: 21.4

LF	FREQUENCE	% FREC.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	7582	C.C7
16	13618	C.12
17	36216	C.31
18	280401	2.44
19	1180313	10.27
20	3510936	30.53
21	2983385	25.95
22	1929369	16.78
23	1067528	9.28
24	368801	3.21
25	114961	1.CC
26	2245	C.C2
27	2245	C.C2
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	11498100	100.C

SARDINELLA EBA

VARIANCE: 2.79 ECART TYPE: 1.67 TAILLE MOYENNE: 21.2

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	0	C.C
17	67112	C.79
18	720088	8.49
19	1438187	16.95
20	2050123	24.16
21	1420056	16.74
22	1457846	17.18
23	920088	10.84
24	359102	4.23
25	52487	C.62
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	8485089	100.C



SARDINELLA EBA

VARIANCE: 3.26 ECART TYPE: 1.81 TAILLE MOYENNE: 21.0

LF	FREQUENCE	% FFIC.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	212	C.C1
14	424	C.C1
15	636	C.C2
16	636	C.C2
17	2223	C.C6
18	310129	8.73
19	890652	25.07
20	858026	24.15
21	596482	16.79
22	296222	8.34
23	297834	8.38
24	202604	5.70
25	75792	2.13
26	21059	C.59
27	0	0.C
28	0	C.C
29	0	C.C
30	0	0.C
31	0	C.C
32	0	0.C
33	0	C.C
34	0	C.C
35	0	0.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	0.C
45	0	C.C
46	0	0.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	3552931	100.C

## SARDINELLA EBA

VARIANCE: 2.22 ECART TYPE: 1.49 TAILLE MOYENNE: 20.4

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	0	0.C
15	0	C.C
16	0	C.C
17	148949	3.42
18	673293	15.48
19	1191480	27.39
20	873523	20.08
21	763327	17.55
22	533973	12.28
23	146636	3.37
24	17385	C.40
25	1165	C.C3
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	0.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	0.C
TOTAL	4349731	100.C

SAFDINELLA E8A

VARIANCE: 7.56 ECART TYPE: 2.75 TAILLE MOYENNE: 20.7

LF	FREQUENCE	% FREQ.
7	0	0.0
8	4234	0.05
9	6311	0.08
10	44332	0.56
11	50041	0.63
12	155791	1.96
13	226899	2.86
14	168114	2.12
15	43769	0.55
16	28865	0.36
17	23720	0.30
18	292842	3.69
19	1131552	14.26
20	1177772	14.84
21	1877268	23.66
22	1756899	22.14
23	733556	9.24
24	185858	2.34
25	26372	0.33
26	693	0.01
27	0	0.0
28	0	0.0
29	0	0.0
30	0	0.0
31	0	0.0
32	0	0.0
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	7934878	100.0

SARDINELLA EBA

VARIANCE: 2.76 ECART TYPE: 1.66 TAILLE MOYENNE: 20.7

LF	FREQUENCE	% FREQ.
7	0	C.C
8	0	C.C
9	0	C.C
10	0	C.C
11	1718	C.04
12	7406	C.18
13	7410	C.18
14	20922	C.51
15	10850	C.26
16	5692	C.14
17	25366	C.62
18	331704	8.07
19	1049948	25.56
20	874000	21.28
21	842016	20.50
22	641076	15.81
23	213536	5.20
24	60042	1.46
25	12038	C.29
26	0	C.C
27	0	C.C
28	4170	C.10
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	4107894	100.C

SARDINELLA EBA

VARIANCE: 6.90 ECART TYPE: 2.63 TAILLE MOYENNE: 20.3

LF	FREQUENCE	% FRIG.
7	0	C.C
8	4234	C.C1
9	12541	C.C2
10	56792	C.C9
11	82909	0.14
12	321487	C.53
13	585862	C.96
14	1158687	1.90
15	2495186	4.10
16	3465115	5.69
17	3538767	5.81
18	4324082	7.10
19	7691684	12.63
20	10390141	17.06
21	10230396	16.80
22	8781132	14.42
23	5058528	8.31
24	1983767	3.26
25	578116	C.95
26	112316	C.18
27	22302	C.C4
28	6177	C.C1
29	5286	C.C1
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	60905507	100.C

CHINCHARD JAUNE  
(Caranx rhonchus)

1973

MOIS	PRISES (quintaux)	NON ECHANTILLONNEES		
		POIDS (Qx)	%	MOULES
JANVIER	1 645	0	0	
FEVRIER	3 089	0	0	
MARS	51	0	0	
AVRIL	5 712	0	0	
MAI	365	0	0	
JUIN	52	0	0	
JUILLET	2	1	50	0
AOUT	2	2	100	0
SEPTEMBRE	283	283	100	0
OCTOBRE	2	0	0	-
NOVEMBRE	654	654	100	0
DECEMBRE	735	5	0,68	0
TOTAL	12 601	945	7,50	

CARANX RHONCHUS

VARIANCE: 2.19 ECART TYPE: 1.48 TAILLE MOYENNE: 27.6

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	0	0.0
14	0	0.0
15	0	0.0
16	0	0.0
17	0	0.0
18	0	0.0
19	0	0.0
20	0	0.0
21	0	0.0
22	0	0.0
23	0	0.0
24	0	0.0
25	58137	12.29
26	127531	26.96
27	114422	24.19
28	84784	17.92
29	52723	11.14
30	31206	6.60
31	3420	0.72
32	0	0.0
33	0	0.0
34	0	0.0
35	855	0.18
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	473078	100.0

CARANX RHENCHUS

VARIANCE: 3.94 ECART TYPE: 1.99 TAILLE MOYENNE: 27.9

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	0	0.0
14	0	0.0
15	0	0.0
16	0	0.0
17	0	0.0
18	0	0.0
19	0	0.0
20	0	0.0
21	0	0.0
22	3992	0.44
23	22890	2.53
24	45518	5.03
25	65913	7.28
26	140282	15.49
27	209572	23.14
28	175584	19.39
29	132098	14.58
30	57124	6.31
31	31782	3.51
32	9527	1.05
33	8641	0.95
34	2835	0.31
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
<b>TOTAL</b>	<b>905758</b>	<b>100.0</b>



CAFANX RHCNCHUS

VARIANCE: 4.31 ECART TYPE: 2.08 TAILLE MOYENNE: 28.0

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	0	0.0
14	0	0.0
15	0	0.0
16	0	0.0
17	0	0.0
18	0	0.0
19	50	0.34
20	0	0.0
21	50	0.34
22	200	1.36
23	100	0.68
24	150	1.02
25	0	0.0
26	1755	11.98
27	3770	25.73
28	2730	18.43
29	2795	19.07
30	1365	9.31
31	975	6.65
32	195	1.33
33	455	3.10
34	65	0.44
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	14655	100.0

CARANX

FHCNCHUS

VARIANCE: 10.07 ECART TYPE: 3.17 TAILLE MOYENNE: 27.5

LF	FREQUENCE	% FREC.
7	0	C.C
8	0	0.C
9	500	C.C3
10	0	C.C
11	0	C.C
12	0	C.C
13	0	C.C
14	3500	0.21
15	7612	C.45
16	25600	1.51
17	49736	2.94
18	13726	C.81
19	3112	C.18
20	0	C.0
21	0	C.0
22	0	C.C
23	12430	C.74
24	38847	2.30
25	65080	3.85
26	283639	16.78
27	362784	21.46
28	426729	25.24
29	215940	12.77
30	72053	4.26
31	55563	3.29
32	26049	1.54
33	17063	1.01
34	5558	0.33
35	3909	0.23
36	1130	C.07
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	1690560	100.C

CARANX RHENCHUS

VARIANCE: 36.06 ECART TYPE: 6.01 TAILLE MOYENNE: 17.4

LF	FREQUENCE	% FREC.
7	0	0.0
8	18710	5.39
9	14968	4.31
10	0	0.0
11	7484	2.16
12	26194	7.54
13	0	0.0
14	14968	4.31
15	108518	31.25
16	59872	17.24
17	26194	7.54
18	0	0.0
19	233	0.07
20	233	0.07
21	0	0.0
22	233	0.07
23	699	0.20
24	699	0.20
25	1474	0.42
26	9305	2.68
27	13066	3.76
28	19152	5.52
29	17136	4.94
30	4536	1.31
31	2520	0.73
32	1008	0.29
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	347202	100.0

CAFANX

RHCNCHUS

VARIANCE: 1.97 ECART TYPE: 1.40 TAILLE MOYENNE: 28.6

LF	FREQUENCE	% FREQ.
7	0	0.0
8	0	0.0
9	0	0.0
10	0	0.0
11	0	0.0
12	0	0.0
13	0	0.0
14	0	0.0
15	0	0.0
16	0	0.0
17	0	0.0
18	0	0.0
19	0	0.0
20	0	0.0
21	0	0.0
22	0	0.0
23	0	0.0
24	0	0.0
25	232	1.50
26	2088	13.53
27	2900	18.80
28	4408	28.57
29	3944	25.56
30	1044	6.77
31	580	3.76
32	232	1.50
33	0	0.0
34	0	0.0
35	0	0.0
36	0	0.0
37	0	0.0
38	0	0.0
39	0	0.0
40	0	0.0
41	0	0.0
42	0	0.0
43	0	0.0
44	0	0.0
45	0	0.0
46	0	0.0
47	0	0.0
48	0	0.0
49	0	0.0
50	0	0.0
TOTAL	15428	100.0

CARANX RHENCHUS

VARIANCE: 4.18 ECART TYPE: 2.05 TAILLE MOYENNE: 8.5

LF	FREQUENCE	% FREQ.
7	2250	19.57
8	3500	30.43
9	3750	32.61
10	1500	13.04
11	0	C.C
12	0	C.C
13	0	C.C
14	0	C.C
15	0	C.C
16	0	C.C
17	0	C.C
18	0	C.C
19	0	C.C
20	0	C.C
21	0	C.C
22	0	C.C
23	0	C.C
24	0	C.C
25	0	C.C
26	0	C.C
27	0	C.C
28	0	C.C
29	0	C.C
30	0	C.C
31	0	C.C
32	0	C.C
33	0	C.C
34	0	C.C
35	0	C.C
36	0	C.C
37	0	C.C
38	0	C.C
39	0	C.C
40	0	C.C
41	0	C.C
42	0	C.C
43	0	C.C
44	0	C.C
45	0	C.C
46	0	C.C
47	0	C.C
48	0	C.C
49	0	C.C
50	0	C.C
TOTAL	11500	100.0

CARANX FHGNCHUS

VARIANCE: 20.41 ECART TYPE: 4.52 TAILLE MOYENNE: 26.5

LF	FREQUENCE	% FREQ.
7	2250	0.07
8	22210	0.84
9	19218	0.56
10	1500	0.04
11	7484	0.22
12	26194	0.76
13	0	0.00
14	18463	0.53
15	116130	3.36
16	85472	2.47
17	75930	2.20
18	13726	0.40
19	3395	0.10
20	233	0.01
21	50	0.00
22	4425	0.13
23	36119	1.04
24	85214	2.46
25	190836	5.52
26	564600	16.33
27	706514	20.43
28	713387	20.63
29	424636	12.28
30	167328	4.84
31	94840	2.74
32	37011	1.07
33	26159	0.76
34	8458	0.24
35	4764	0.14
36	1130	0.03
37	0	0.00
38	0	0.00
39	0	0.00
40	0	0.00
41	0	0.00
42	0	0.00
43	0	0.00
44	0	0.00
45	0	0.00
46	0	0.00
47	0	0.00
48	0	0.00
49	0	0.00
50	0	0.00
TOTAL	3458181	100.00