

-TABLE 2-

Open access levels of stock ($S^{\wedge}$) (Tm), fishing effort (number of boats) ($E^{\wedge}$) and catches ($Y^{\wedge}$) (Tm) and optimal levels of stock (S^*) (Tm), effort (E^*), catches (Y^*) (Tm) and relative shadow value (μ/p) per (Tm), Non transferable optimal quota prices (or taxes) (T_p) (€) and non transferable licenses (T_l) (€) for different anchovy per Tm prices (p). Discount rate ($r=0$).

C/P	$S^{\wedge}$	$E^{\wedge}$	$Y^{\wedge}$	S^*	NB*	Y^*	μ/p	T_p $p=1.500$	T_p $p=3.000$	T_p $p=4.500$	T_p $p=6.000$	T_l $p=1.500$	T_l $p=3.000$	T_l $p=4.500$	T_l $p=6.000$
0	-	-	-	50.095	396	27.572	1	1.503	3.000	4.500	6.000	104.661	208.970	313.456	417.941
5	2.077	1.578	7.891	55.568	354	27.470	0,9032	1.406	2.807	4.210	5.613	109.101	217.834	326.751	435.668
10	5.174	1.278	12.785	60.627	319	27.212	0,8238	1.326	2.648	3.972	5.296	113.088	225.795	338.693	451.592
15	8.680	1.093	16.393	65.343	290	26.844	0,7569	1.259	2.515	3.772	5.029	116.748	233.103	349.654	466.208
20	12.406	958	19.163	69.766	264	26.399	0,6994	1.202	2.400	3.600	4.800	120.163	239.922	359.883	479.847
25	16.253	853	21.324	73.931	242	25.899	0,6494	1.152	2.300	3.450	4.600	123.389	246.363	369.544	492.730
30	20.158	767	23.017	77.866	222	25.360	0,6052	1.108	2.212	3.318	4.423	126.467	252.508	378.762	505.022
35	24.080	695	24.341	81.592	205	24.793	0,5659	1.068	2.133	3.200	4.267	129.428	258.421	387.631	516.848
40	27.991	634	25.366	85.127	189	24.208	0,5307	1.033	2.063	3.094	4.126	132.297	264.148	396.221	528.302
45	31.869	581	26.146	88.487	175	23.613	0,4989	1.001	1.999	2.999	3.999	135.092	269.728	404.593	539.465
50	35.698	534	26.722	91.687	162	23.011	0,47	972	1.942	2.913	3.883	137.840	275.217	412.825	550.442
55	39.467	493	27.128	94.727	151	22.410	0,4436	946	1.889	2.834	3.778	140.516	280.559	420.838	561.127
60	43.167	456	27.390	97.628	140	21.810	0,4195	922	1.841	2.761	3.682	143.168	285.853	428.780	571.718
65	46.792	423	27.531	100.395	131	21.216	0,3973	900	1.797	2.695	3.593	145.793	291.096	436.644	582.203
70	50.335	394	27.572	103.036	122	20.629	0,3769	879	1.756	2.634	3.511	148.397	296.293	444.440	592.599
75	53.795	367	27.525	105.558	114	20.051	0,3579	860	1.718	2.577	3.436	150.986	301.464	452.196	602.942
80	57.169	342	27.505	107.967	107	19.433	0,3387	843	1.683	2.527	3.366	153.171	305.825	458.738	611.665
85	60.455	320	27.223	110.270	100	18.927	0,324	826	1.650	2.475	3.300	156.138	311.750	467.626	623.516
90	63.652	300	26.989	112.472	94	18.383	0,3088	811	1.620	2.430	3.240	158.710	316.885	475.327	633.786
95	66.761	281	26.712	114.578	88	17.852	0,2946	797	1.591	2.387	3.183	161.282	322.021	483.031	644.058
100	69.781	264	26.398	116.593	83	17.335	0,2814	784	1.565	2.347	3.130	163.858	327.164	490.747	654.347

-TABLE 2-

Open access level s of stock ($S^{\wedge}$) (T_m), fishing effort (number of boats) ($E^{\wedge}$) and catches ($Y^{\wedge}$) (T_m) and optimal levels of stock (S^*) (T_m), effort (E^*), catches (Y^*) (T_m) and relative shadow value (μ/p) per (T_m), Non transferable optimal quota prices (or taxes) (T_p) (€) and non transferable licenses (T_l) (€) for different anchovy per T_m prices (p). Discount rate ($r=0.05$).

C/P	$S^{\wedge}$	$NB^{\wedge}$	$Y^{\wedge}$	S^*	NB^*	Y^*	μ/p	T_p $p=1.500$	T_p $p=3.000$	T_p $p=4.500$	T_p $p=6.000$	T_l $p=1.500$	T_l $p=3.000$	T_l $p=4.500$	T_l $p=6.000$
0	-	-	-	43.662	452	27.416	1	1.500	3.000	4.500	6.000	91.014	182.028	273.042	273.042
5	2.077	1.578	7.891	49.589	400	27.571	0,891035	1.391	2.782	4.174	5.565	95.905	191.810	287.715	287.715
10	5.174	1.278	12.785	55.036	358	27.489	0,804441	1.305	2.609	3.914	5.219	100.235	200.470	300.705	300.705
15	8.680	1.093	16.393	60.097	323	27.246	0,73315	1.234	2.467	3.701	4.934	104.173	208.347	312.520	312.520
20	12.406	958	19.163	64.834	293	26.889	0,67299	1.174	2.347	3.521	4.694	107.827	215.653	323.480	323.480
25	16.253	853	21.324	69.289	267	26.452	0,621287	1.122	2.244	3.366	4.488	111.262	222.525	333.787	333.787
30	20.158	767	23.017	73.492	244	25.955	0,576222	1.077	2.154	3.231	4.308	114.531	229.063	343.594	343.594
35	24.080	695	24.341	77.469	224	25.417	0,536498	1.037	2.074	3.112	4.149	117.669	235.338	353.006	353.006
40	27.991	634	25.366	81.240	206	24.849	0,501162	1.002	2.004	3.006	4.008	120.702	241.405	362.107	362.107
45	31.869	581	26.146	84.820	190	24.261	0,46949	970	1.941	2.911	3.881	123.654	247.308	370.962	370.962
50	35.698	534	26.722	88.223	176	23.661	0,44092	942	1.884	2.825	3.767	126.539	253.078	379.617	379.617
55	39.467	493	27.128	91.462	163	23.054	0,415005	916	1.832	2.748	3.664	129.373	258.745	388.118	388.118
60	43.167	456	27.390	94.547	152	22.446	0,391388	892	1.785	2.677	3.569	132.164	264.329	396.493	396.493
65	46.792	423	27.531	97.487	141	21.840	0,369775	871	1.742	2.612	3.483	134.924	269.849	404.773	404.773
70	50.335	394	27.572	100.291	131	21.238	0,349923	851	1.702	2.553	3.404	137.660	275.320	412.980	412.980
75	53.795	367	27.525	102.967	122	20.644	0,331634	833	1.665	2.498	3.331	140.378	280.756	421.134	421.134
80	57.169	342	27.505	105.521	114	20.059	0,314726	816	1.632	2.447	3.263	143.080	286.161	429.241	429.241
85	60.455	320	27.223	107.961	107	19.485	0,299068	800	1.600	2.401	3.201	145.780	291.560	437.340	437.340
90	63.652	300	26.989	110.292	100	18.922	0,284524	786	1.571	2.357	3.143	148.473	296.946	445.419	445.419
95	66.761	281	26.712	112.519	94	18.372	0,270979	772	1.544	2.316	3.089	151.162	302.325	453.487	453.487
100	69.781	264	26.398	114.649	88	17.834	0,258359	760	1.519	2.279	3.038	153.858	307.715	461.573	461.573

-TABLE 3-

Open access level s of stock ($S^\wedge$) (Tm), fishing effort (number of boats) ($E^\wedge$) and catches ($Y^\wedge$) (Tm) and optimal levels of stock (S^*) (Tm), effort (E^*), catches (Y^*) (Tm) and relative shadow value (μ/p) per (Tm), Non transferable optimal quota prices (or taxes) (Tp) (€) and non transferable licenses (Tl) (€) for different anchovy per Tm prices (p). Discount rate ($r=0.1$).

C/P	$S^\wedge$	$NB^\wedge$	$Y^\wedge$	S^*	NB^*	Y^*	μ/p	Tp p=1.500	Tp p=3.000	Tp p=4.500	Tp p=6.000	Tl p=1.500	Tl p=3.000	Tl p=4.500	Tl p=6.000
0	-	-	-	38.300	507	27.008	1	1.500	3.000	4.500	6.000	79.962	159.925	239.887	319.850
5	2.077	1.578	7.891	44.605	443	27.459	0,878786	1.379	2.758	4.137	5.516	85.456	170.911	256.367	341.824
10	5.174	1.278	12.785	50.372	394	27.571	0,785538	1.286	2.572	3.858	5.144	90.078	180.155	270.233	360.312
15	8.680	1.093	16.393	55.717	353	27.465	0,710464	1.211	2.422	3.633	4.844	94.248	188.497	282.745	376.996
20	12.406	958	19.163	60.713	319	27.206	0,648152	1.149	2.297	3.446	4.595	98.097	196.193	294.290	392.390
25	16.253	853	21.324	65.406	289	26.839	0,595286	1.096	2.192	3.288	4.384	101.705	203.410	305.115	406.825
30	20.158	767	23.017	69.833	264	26.392	0,549684	1.050	2.101	3.151	4.202	105.130	210.259	315.389	420.524
35	24.080	695	24.341	74.018	241	25.888	0,509833	1.011	2.021	3.032	4.042	108.412	216.824	325.236	433.654
40	27.991	634	25.366	77.985	222	25.342	0,474645	975	1.951	2.926	3.902	111.582	223.163	334.745	446.333
45	31.869	581	26.146	81.749	204	24.768	0,443303	944	1.888	2.833	3.777	114.662	229.324	343.986	458.655
50	35.698	534	26.722	85.327	188	24.174	0,415189	916	1.832	2.748	3.664	117.672	235.344	353.015	470.696
55	39.467	493	27.128	88.729	174	23.568	0,389812	891	1.782	2.672	3.563	120.625	241.250	361.875	482.510
60	43.167	456	27.390	91.969	161	22.956	0,366787	868	1.736	2.603	3.471	123.533	247.067	370.600	494.145
65	46.792	423	27.531	95.055	150	22.343	0,3458	847	1.694	2.540	3.387	126.407	252.814	379.221	505.640
70	50.335	394	27.572	97.997	139	21.732	0,326388	827	1.655	2.482	3.310	129.221	258.443	387.664	516.898
75	53.795	367	27.525	100.803	130	21.126	0,308956	810	1.620	2.430	3.240	132.079	264.158	396.237	528.330
80	57.169	342	27.505	103.480	121	20.528	0,292706	794	1.588	2.381	3.175	134.891	269.781	404.672	539.577
85	60.455	320	27.223	106.035	113	19.939	0,27769	779	1.558	2.336	3.115	137.691	275.382	413.073	550.779
90	63.652	300	26.989	108.475	105	19.362	0,263786	765	1.530	2.295	3.060	140.488	280.977	421.465	561.970
95	66.761	281	26.712	110.805	99	18.796	0,250871	752	1.504	2.256	3.008	143.279	286.559	429.838	573.135
100	69.781	264	26.398	113.031	92	18.243	0,238854	740	1.480	2.220	2.960	146.071	292.142	438.213	584.302

-TABLE 4-

Open access level s of stock ($S^{\wedge}$) (Tm), fishing effort (number of boats) ($E^{\wedge}$) and catches ($Y^{\wedge}$) (Tm) and optimal levels of stock (S^*) (Tm), effort (E^*), catches (Y^*) (Tm) and relative shadow value (μ/p) per (Tm), Non transferable optimal quota prices (or taxes) (T_p) (€) and non transferable licenses (T_l) (€) for different anchovy per Tm prices (p). Discount rate ($r=0.2$).

C/P	$S^{\wedge}$	$NB^{\wedge}$	$Y^{\wedge}$	S^*	NB^*	Y^*	μ/p	T_p $p=1.500$	T_p $p=3.000$	T_p $p=4.500$	T_p $p=6.000$	T_l $p=1.500$	T_l $p=3.000$	T_l $p=4.500$	T_l $p=6.000$
0	-	-	-	29.974	606	25.792	1	1.500	3.000	4.500	6.000	63.825	127.650	191.475	255.300
5	2.077	1.578	7.891	36.854	521	26.862	0,85421	1.354	2.709	4.063	5.418	69.786	139.572	209.358	279.145
10	5.174	1.278	12.785	43.097	457	27.386	0,749205	1.250	2.499	3.749	4.998	74.855	149.711	224.566	299.423
15	8.680	1.093	16.393	48.866	406	27.566	0,66817	1.169	2.337	3.506	4.675	79.368	158.736	238.104	317.475
20	12.406	958	19.163	54.250	364	27.513	0,602902	1.104	2.207	3.311	4.414	83.500	167.000	250.500	334.004
25	16.253	853	21.324	59.307	328	27.294	0,548777	1.049	2.099	3.148	4.198	87.357	174.713	262.070	349.431
30	20.158	767	23.017	64.075	297	26.954	0,502925	1.004	2.007	3.011	4.015	91.007	182.014	273.022	364.034
35	24.080	695	24.341	68.583	271	26.527	0,463442	964	1.929	2.893	3.857	94.499	188.998	283.497	378.003
40	27.991	634	25.366	72.855	247	26.035	0,429009	930	1.860	2.790	3.720	97.868	195.736	293.604	391.479
45	31.869	581	26.146	76.908	227	25.497	0,398664	900	1.799	2.699	3.599	101.140	202.279	303.419	404.567
50	35.698	534	26.722	80.759	208	24.924	0,371691	873	1.745	2.618	3.491	104.333	208.666	312.999	417.341
55	39.467	493	27.128	84.420	192	24.329	0,347542	849	1.697	2.546	3.394	107.465	214.930	322.396	429.871
60	43.167	456	27.390	87.908	177	23.718	0,325821	827	1.654	2.481	3.308	110.558	221.116	331.674	442.243
65	46.792	423	27.531	91.223	164	23.100	0,306091	807	1.614	2.422	3.229	113.593	227.187	340.780	454.385
70	50.335	394	27.572	94.384	152	22.479	0,288171	789	1.579	2.368	3.157	116.608	233.217	349.825	466.446
75	53.795	367	27.525	97.396	141	21.859	0,271801	773	1.546	2.319	3.092	119.600	239.199	358.799	478.412
80	57.169	342	27.505	100.268	131	21.243	0,256792	758	1.516	2.274	3.032	122.574	245.147	367.721	490.308
85	60.455	320	27.223	103.007	122	20.635	0,242986	744	1.488	2.233	2.977	125.534	251.069	376.603	502.153
90	63.652	300	26.989	105.621	114	20.036	0,230263	731	1.463	2.194	2.926	128.490	256.980	385.470	513.976
95	66.761	281	26.712	108.115	106	19.448	0,218491	720	1.439	2.159	2.879	131.438	262.876	394.315	525.770
100	69.781	264	26.398	110.495	100	18.872	0,207571	709	1.418	2.126	2.835	134.383	268.766	403.148	537.600

