

MOTH MONITORING REPORT 2019 - 2020

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1. Introduction

The present report shows the results of Moth Trapping during 2019 and 2020 in Cruzinha grounds, the headquarters of A Rocha Portugal and two additional sessions (2019) in two locations of Ria de Alvor.

In 2019 the number of sessions were only **34**, given the lack of volunteers to perform this type of work and in 2020 the number of sessions was **33**, mainly because of the COVID 19 pandemic situation. In April and May of 2020 there were no trapping sessions. We used a Skinner type moth trap with a 125 mercury vapor lamp, placed in the garden area of Cruzinha, except for the two additional sessions when we used a Heath trap powered by a 15 watt actinic UV.

Most of the captures were made by Paula Banza, the person in charge of the project, with some help from a volunteer named Sara Roda. Moth identifications were done by Paula Banza and also by Sara Roda, with the supervision of Paula Banza.

The main objective of this work is to gain some knowledge of the diversity, abundance and distribution of moths in some habitats of the Algarve. At the same to use this knowledge as an environmental education tool with students, tourists and other people interested about moths.

In 2019 the total of moths caught was **4838** from **337** species belonging to **32** families. In 2020 the total of moths caught was **7718** from **357** species belonging to **34** families. The majority of the moths were identified to the species level, but in some cases the identification was done only at genus level. For some moths it wasn't possible to confirm the identification to date. They are included in the statistical report and represented on table 2 with the notation *.

2. Trap location

Table 1 register the Geographical Coordinates for the location of moth traps.

Table 1 – Geographical Coordinates (System ETRS89-PT-TM06)

Site	Coordinate X (N)	Coordinate Y (W)
1. Cruzinha	37083950	08362980
2. Western marsh	3708056	08365876
3. West Fields	4111462	29534674
4. East Fields	29534676	4111463

3. Results for 2019

The graphs of **Figures 1** and **2** represent, respectively, the total number of individuals *per* families and the number of species *per* families.

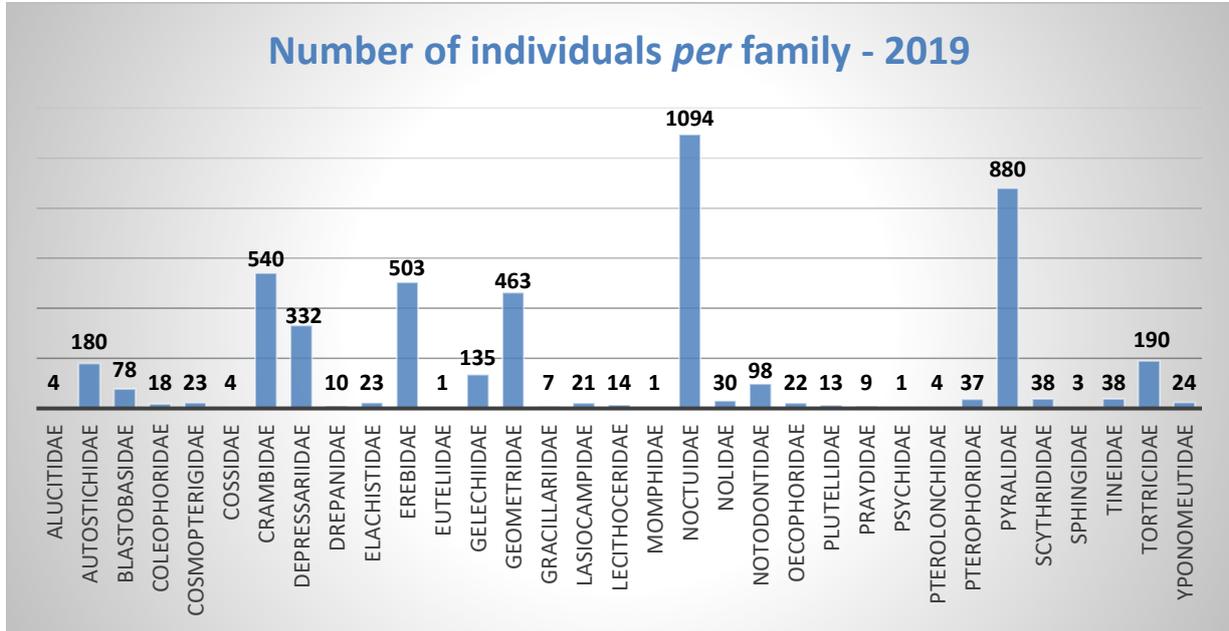


Figure 1 – Number of individuals according to families.

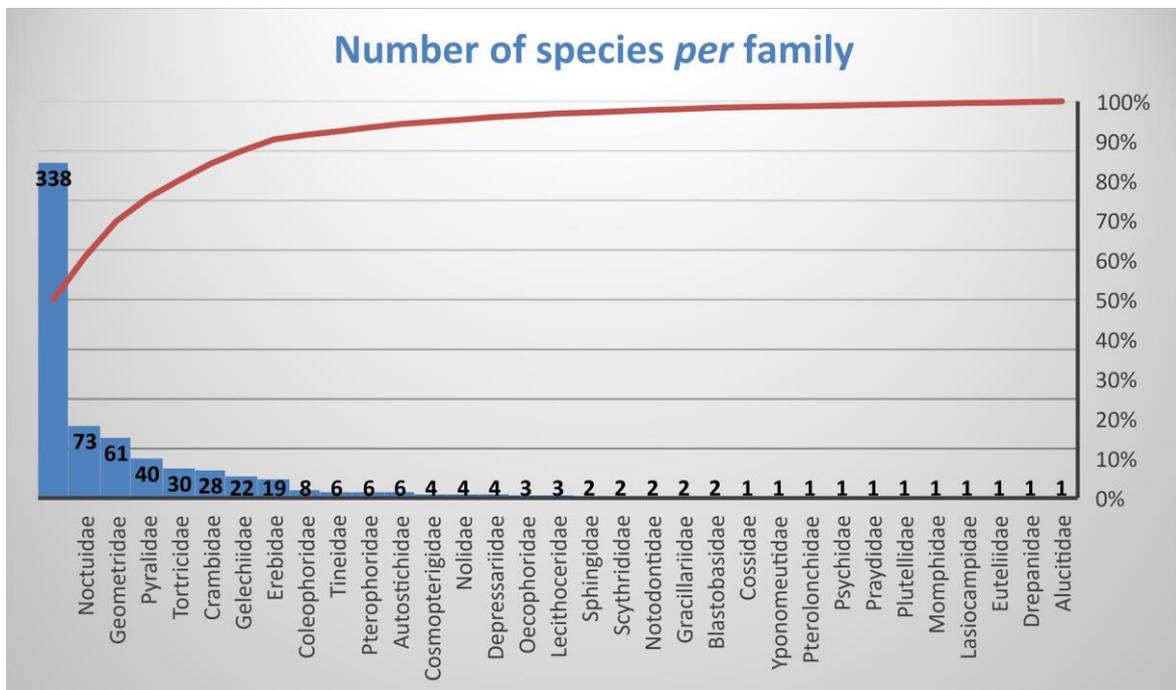


Figure 2 – Number of species for each family.

4. Results for 2020

The graphs of **Figures 3** and **4** represent, respectively, the total number of individuals *per* families and the number of species *per* families.

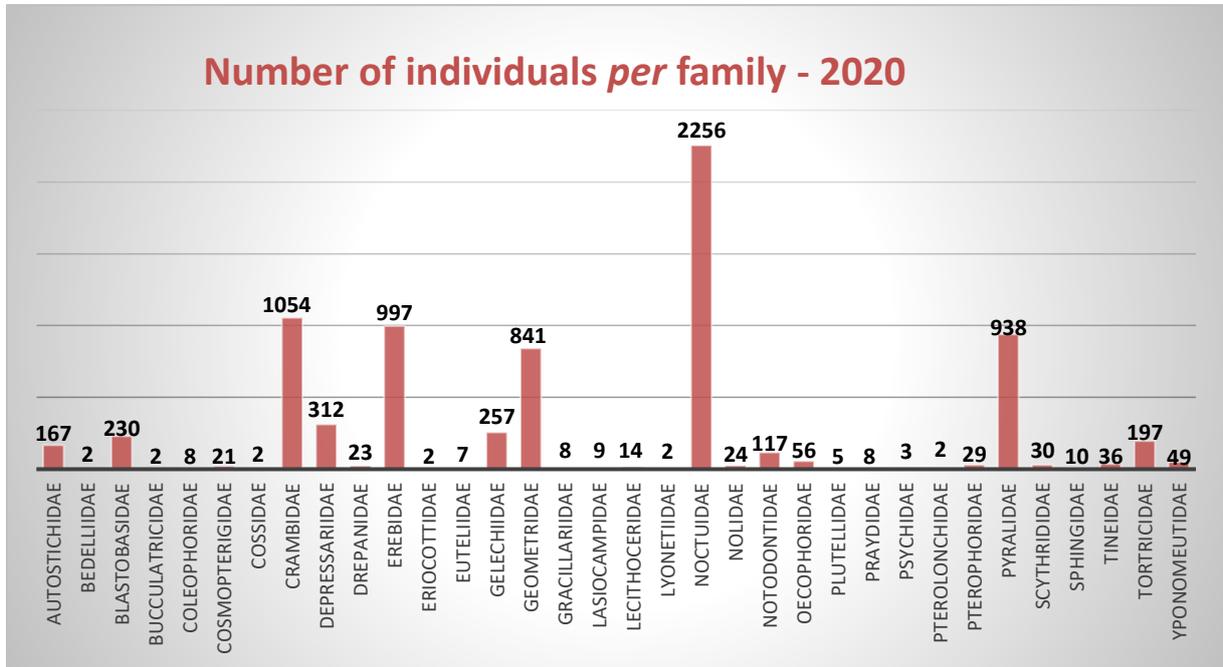


Figure 3 – Number of individuals according to families.

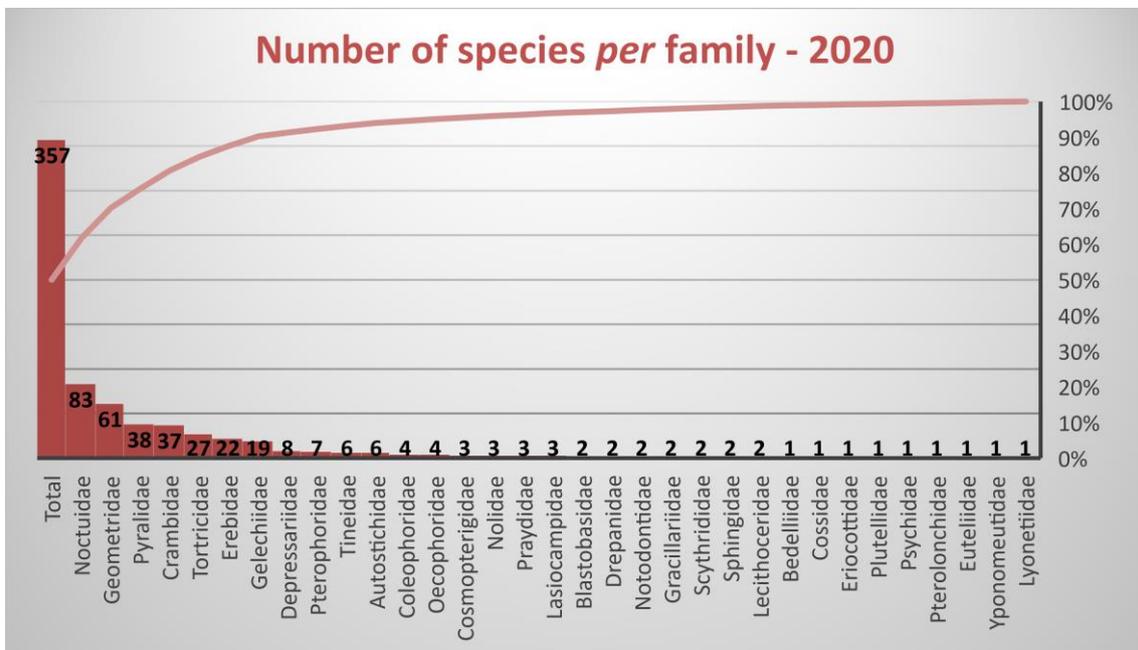


Figure 4 – Number of species for each family.

5. Results for both years: 2019 and 2020

The graph of **Figure 5** represents the total number of individuals captured throughout the years of 2019 and 2020.

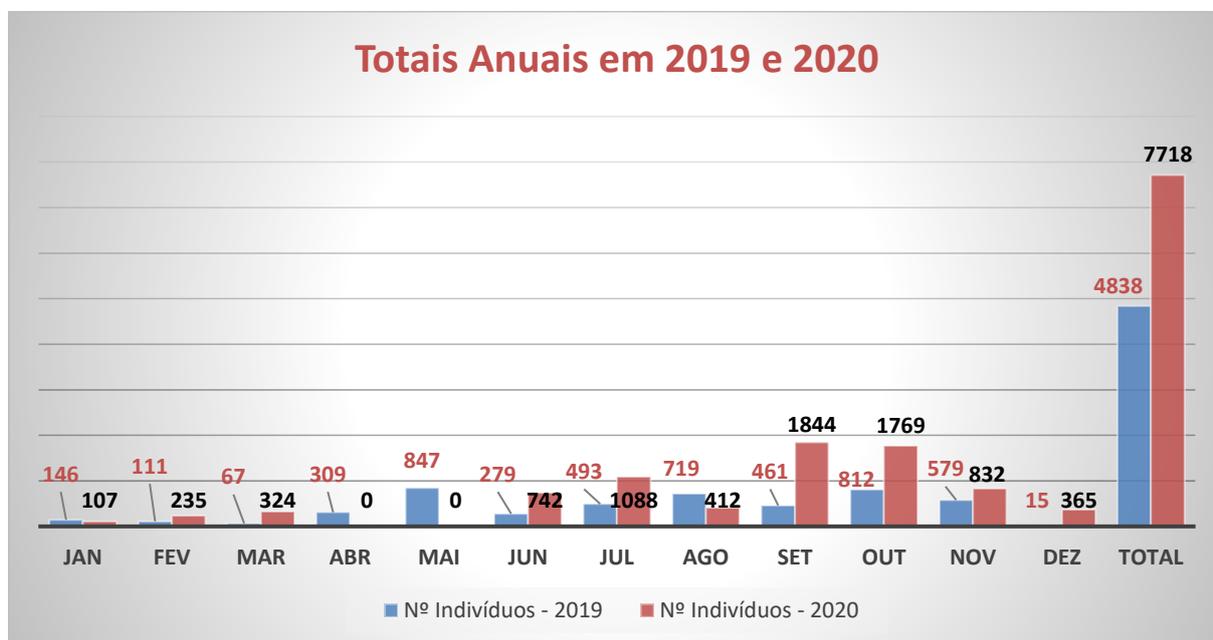


Figure 5 – Total number of individuals in 2019 and 2020.

Table 2 represents the number of trapping sessions in 2019 and 2020.

Table 2 – Number of trapping sessions in 2019 and 2020.

Number of sessions	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Year 2019	4	1	2	3	2	3	4	4	2	4	4	1	34
Year 2020	3	3	2	0	0	3	5	3	4	5	4	3	35

The tables with the total number of species and individuals captured in 2019 and 2020 are in annex. Tables are organized by families and in alphabetical order.

6. Conclusions

During 2019 and 2020 we did 69 sessions of moth trapping and we captured a total of 12 834 individuals.

There are some first records for 2019 which the identification is not confirmed (some specimens – underlined in the text - were kept for genitalia analysis): *Acrobasis consociella*, *Aristotelia mirabilis*, *Carpatolechia decorella*, *Coleophora auroguttella*, *Coleophora discordella*, *Coleophora salicorniae*, *Delplanqueia inscriptella*, *Gymnancyla ruscionella*, *Idaea fuscovenosa*, *Metacrambus pallidellus*, *Mompha epilobiella*, *Phycita diaphana*, *Phyllonorycter messaniella* and *Vulcaniella grabowiella*.

Regarding the species *Acrobasis consociella*, it is possible that there are previous records mistakenly identified as other species belonging to the genus *Acrobasis*.

Some interesting second records in 2019 are: ***Coleophora pennella***, registered in 2018 and 2019; ***Coleophora salinella***, registered in 2013 and 2019; ***Idaea sardonata***, registered in 2017 and 2019; ***Dryobotodes roboris***, registered in 2014 and 2019; ***Meganola togatulalis***, registered in 2009 and 2019; ***Drymonia querna***, registered in 2012 and 2019; ***Ematheudes punctella***, registered in 2018 and 2019 and ***Tinea basifasciella*** registered in 2017 and 2019. Another interesting record was ***Euproctis chrysorrhoea*** registered in 2013, 2016 and 2019.

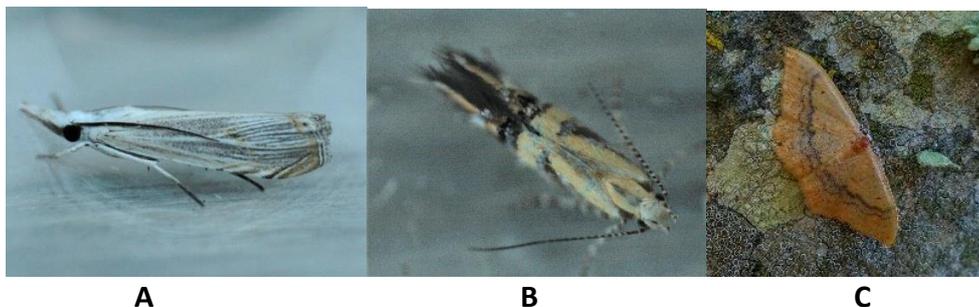


Figure 5. Photos of *Metacrambus pallidellus* (A), *Aristotelia mirabilis* (B) and *Idaea sardonata* (C) (Photos by Sara Roda).

There are some first records for 2020: *Agonopterix carduncelli*, *Alloclita recisella*, *Bedellia somnulentella*, *Cadra furcatella*, *Caloptilia coruscans*, *Coleophora brunneosignata*, *Depressaria depressana*, *Depressaria erinaceella*, *Eilema rungsi*, *Epicallima mercedella*, *Eriocottis paradoxella*, *Lyonetia clerkella*, *Parapoynx stratiotata* and *Pseudosphronia exutellus*. Some specimens – underlined in the text - were kept for

genitalia analysis and in bold are the species waiting for confirmation on the identification.



Figure 6 – Photo of *Eilema rungsi*. (Sara Roda).

Some interesting second records in 2020 are: *Abraxas pantaria*, registered in 2004 and 2020; ***Orthosia cruda***, registered in 2011 and 2020; *Streblote panda*, registered in 2011 and 2020.

Finally, with 3 records in other interesting records in 2020 are: ***Cyclophora hyponoea***, registered in 2004, 2011 and 2020; ***Ematheudes punctella***, registered in 2018, 2019 and 2020; ***Euchromius ocella***, registered in 2011, 2017 and 2020 and ***Rhizedra lutosa***, registered in 2013, 2015 and 2020.

The most abundant species in 2019 were: *Ethmia bipunctella* (325 individuals), *Eilema caniola* (316 individuals), *Cadra figulella* (286 individuals), *Palpita vitrealis* (142 individuals) and *Agrotis puta* (135 individuals).

The most abundant species in 2020 were: *Eilema caniola* (708 individuals), *Noctua pronuba* (325 individuals), *Palpita vitrealis* (322 individuals), *Ethmia bipunctella* (285 individuals) and *Cadra figulilella* (262 individuals).

ANNEXES

Table 1: Total of individuals *per* families and species captured in 2019

Family/Species	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	Total
Alucitidae					2	1	1						4
<i>Alucita palodactyla</i>					1	1							2
<i>Alucita sp.</i>					1		1						2
Autostichidae					35	21	37	50	23	11	3		180
<i>Apatema mediopallidum</i>					1	2		1		2	1		7
<i>Dysspastus fallax</i>							1						1
<i>Holcopogon bubulcellus</i>					27	4	7	8	2	1			49
<i>Stibaromacha ratella</i>							6						6
<i>Symmoca signatella</i>						2	1	13	15				31
<i>Symmocoides oxybiella</i>					7	13	22	28	6	8	2		86
Blastobasidae	21		2	5	8	4	13	8	5	8	3	1	78
<i>Blastobasis maroccanella</i>	16		2	4	4	4	3			1	3	1	38
<i>Blastobasis phycidella</i>	5			1	4		10	8	5	7			40
Coleophoridae				2	2	1	8	5					18
<i>Coleophora aurogutella</i> **								2					2
<i>Coleophora discordella</i> *							1						1
<i>Coleophora glaucicolella</i>				1									1
<i>Coleophora hieronella</i>				1									1
<i>Coleophora pennella</i>					1		1	1					3
<i>Coleophora salicorniae</i> *							2	1					3
<i>Coleophora salinella</i>					1								1
<i>Coleophora semicinerea</i>							1						1
<i>Coleophora solidaginella</i>							1						1
<i>Coleophora sp.</i>						1	2	1					4
Cosmopterigidae						1	6	13	2	1			23
<i>Anatrachyntis badia</i>						1	1			1			3
<i>Anatrachyntis sp.</i>								1					1
<i>Eteobalea dohrnii</i>							1	5	2				8
<i>Pyroderces argyrogrammos</i>							4	6					10
<i>Vulcaniella grabowiella</i> **								1					1
Cossidae							1	3					4
<i>Zeuzera pyrina</i>							1	3					4
Crambidae	46	8	4	45	34	23	30	63	34	89	159	5	540
<i>Achyra nudalis</i>							1						1
<i>Agriphila geniculea</i>										45	1		46
<i>Agriphila tersellus</i>										1			1
<i>Agriphila trabeatellus</i>							1		5	2			8
<i>Ancylis sparulana</i>				1									1
<i>Ancylolomia inornata</i>										1			1
<i>Ancylolomia sp.</i>								1					1
<i>Ancylolomia tentaculella</i>									3				3

Family/Species	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	Total
<i>Ancylosis oblitella</i>								2					2
<i>Antigastra catalaunalis</i>									4	1	8	11	24
<i>Arnia nervosalis</i>								1					1
<i>Diasemiopsis ramburialis</i>					1								1
<i>Dolicharthria punctalis</i>				1	2	1	1						5
<i>Euchromius gozmanyi</i>					1				3	1			5
<i>Eudonia angustea</i>	4		1	15							83	3	106
<i>Eudonia delunella</i>					4								4
<i>Eudonia lineola</i>	13	1		8	6	1					5		34
<i>Evergestis isatidalis</i>	1										1	1	3
<i>Hellula undalis</i>									2		3		5
<i>Herpetogramma licarsisalis</i>									1	2	9		12
<i>Mecyna asinalis</i>	5	2		1							6	1	15
<i>Metacrambus pallidellus*</i>								6	1				7
<i>Metasia cuencalis</i>								1	2				3
<i>Metasia suppandalis</i>					3	10	2	3	1	1			20
<i>Nomophila noctuella</i>		1	2		1	1		1	1		1		8
<i>Palpita vitrealis</i>	2		1	12	16	5	5	38	18	22	23		142
<i>Udea ferrugalis</i>	21	4				1	1				11		38
<i>Udea numeralis</i>				7		4	9	7	2	7	5		41
<i>Uresiphita gilvata</i>										2			2
Depressariidae			3	2	139	28		7	50	97	6		332
<i>Agonopterix sp.</i>								1					1
<i>Agonopterix subpropinquella</i>					2								2
<i>Depressaria badiella</i>											4		4
<i>Ethmia bipunctella</i>			3	2	137	28		6	50	97	2		325
Drepanidae	1				1	1	3			4			10
<i>Watsonalla uncinula</i>	1				1	1	3			4			10
Elachistidae			5	18									23
<i>Elachista nuraghella</i>			5	18									23
Erebidae	3	1	1	31	172	13	29	54	58	130	11		503
<i>Apaidia mesogona</i>				3	5				3	12			23
<i>Coscinia cribraria</i>					1			2	2				5
<i>Cymbalophora pudica</i>									4	54			58
<i>Dysgonia algira</i>								2					2
<i>Eilema caniola</i>		1	1	28	138	8	16	20	38	60	6		316
<i>Eilema marcida</i>					19	1		1	2	1	1		25
<i>Eilema uniola</i>									4				4
<i>Eublemma candidana</i>							1						1
<i>Eublemma ostrina</i>	1				7	1	1	13	3	3	1		30
<i>Eublemma parva</i>							5						5
<i>Eublemma pura</i>						1	3	3					7
<i>Eublemma scitula</i>							1	4					5
<i>Euproctis chrysorrhoea</i>						1							1
<i>Hypena lividalis</i>	2							1					3

Family/Species	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	Total
<i>Metachrostis velox</i>									1				1
<i>Ocneria atlantica</i>							1	6					7
<i>Odice pergrata</i>						1		1					2
<i>Ophiusa tirhaca</i>					1								1
<i>Zebeeba falsalis</i>					1			1	2		3		7
Euteliidae						1							1
<i>Eutelia adulatrix</i>						1							1
Gelechiidae		2		8	20	12	32	17	4	15	25		135
<i>Aproaerema anthyllidella</i>					5			1					6
<i>Aristotelia mirabilis*</i>							1						1
<i>Carpatolechia decorella**</i>									1				1
<i>Dichomeris alacella</i>								4	1				5
<i>Dichomeris lamprostoma</i>					1		5	4					10
<i>Epidola stigma</i>							6	2					8
<i>Helcystogramma lutatella</i>		1			1								2
<i>Mesophleps corsicella</i>				1	1		2	1					5
<i>Mesophleps silacella</i>				1									1
<i>Metzneria santolinella</i>				1									1
<i>Metzneria torosulella</i>				1									1
<i>Mirificarma eburnella</i>					5				1				6
<i>Nothris verbascella</i>						1		1					2
<i>Palumbina guerinii</i>								1	1	5	10		17
<i>Platyedra subcinerea</i>		1		1	2	1							5
<i>Pseudosophronia exustellus</i>								1					1
<i>Ptocheuusa paupella</i>				2		2	2	2					8
<i>Recurvaria nanella</i>						1	1						2
<i>Scrobipalpa ocellatella</i>				1	1		2			9	14		27
<i>Scrobipalpa phagnalella</i>										1	1		2
<i>Stomopteryx basalis</i>						3	10						13
<i>Stomopteryx remissella</i>					4	4	3						11
Geometridae	10	12	3	24	77	27	60	76	50	79	43	2	463
<i>Afriberina salemae</i>				1									1
<i>Aleucis distinctata</i>		2											2
<i>Aspitates ochrearia</i>										3			3
<i>Brachyglossina hispanaria</i>						1	4	2					7
<i>Catarhoe basochesiata</i>		2								1	5		8
<i>Cyclophora pupillaria</i>	1	1			11		1						14
<i>Dyscia penulataria</i>										1			1
<i>Eupithecia breviculata</i>					1								1
<i>Eupithecia centaureata</i>		3		2	3	3	1	3	4	7	1		27
<i>Eupithecia dodoneata</i>		1											1
<i>Eupithecia innotata</i>					2								2
<i>Eupithecia sp.</i>											1		1
<i>Gerinia honoraria</i>										1	2		3
<i>Gymnoscelis rufifasciata</i>	1		1		6	1	3			1			13

Family/Species	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	Total
<i>Idaea belemiata</i>					1	2	14	11	1		1		30
<i>Idaea carvalhoi</i>						1							1
<i>Idaea cervantaria</i>							1						1
<i>Idaea degeneraria</i>				10				1					11
<i>Idaea efflorata</i>					1	2		3	2				8
<i>Idaea elongaria</i>					7		6	12	1				26
<i>Idaea eugeniata</i>		1		1	2		2	3			4		13
<i>Idaea fractilineata</i>					2			1					3
<i>Idaea fuscovenosa</i>					1								1
<i>Idaea incisaria</i>							1	1		2			4
<i>Idaea longaria</i>						1		2		3			6
<i>Idaea lutulentaria</i>					1								1
<i>Idaea mediaria</i>					1				1				2
<i>Idaea minuscularia</i>					3	2	3	6	3	1			18
<i>Idaea mustelata</i>						4	8						12
<i>Idaea ochrata</i>					6								6
<i>Idaea ostrinaria</i>					2								2
<i>Idaea predotaria</i>					4		1	1		2			8
<i>Idaea sardonata</i>					1								1
<i>Idaea subsericeata</i>		1		1									2
<i>Isturgia deerraria</i>								1	3	4	5		13
<i>Itame vincularia</i>				1		1	1	2		1			6
<i>Larentia malvata</i>											4		4
<i>Menophra abruptaria</i>									1		1		2
<i>Menophra japygiaria</i>	3	1				1	4			2	1		12
<i>Microloxia herbaria</i>						1		1		1			3
<i>Nebula ibericata</i>		1								1	2		4
<i>Nycterosea obstipata</i>											2		2
<i>Ortaliella perspersata</i>						1							1
<i>Pachycnemia hippocastanaria</i>										1			1
<i>Peribatodes ilicaria</i>			1	4	1	1				3			10
<i>Petrophora convergata</i>											2		2
<i>Phaiogramma etruscaria</i>				1		1		3	14				19
<i>Phaiogramma faustinata</i>					1			8	3	1			13
<i>Pseudoterpna coronillaria</i>										1			1
<i>Rhodometra sacraria</i>	1	1			1		4	3	1		5	2	18
<i>Rhyacionia buoliana</i>						1							1
<i>Scopula imitaria</i>	1		1		1	1							4
<i>Scopula marginepunctata</i>					3		2			4			9
<i>Scopula minorata</i>					3								3
<i>Scopula ornata</i>								2					2
<i>Scotopteryx peribolata</i>										5	6		11
<i>Tephronia lhommaria</i>				3	11		1	7	13	21	1		57
<i>Tephronia sepiaria</i>					1	2	2		2	5			12
<i>Tephronia sp.</i>							1	1					2

Family/Species	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	Total
<i>Xanthorhoe fluctuata</i>	1												1
Gracillariidae			1		6								7
<i>Dialectica scariella</i>					6								6
<i>Phyllonorycter messaniella*</i>			1										1
Lasiocampidae									1	20			21
<i>Lasiocampa trifolii</i>									1	20			21
Lecithoceridae					3	1	3	4	2		1		14
<i>Eurodachtha canigella</i>							1	1	2				4
<i>Homaloxestis briantiella</i>					2	1					1		4
<i>Odites kollarella</i>					1		2	3					6
Momphidae				1									1
<i>Mompha epilobiella*</i>				1									1
Noctuidae	60	83	38	110	73	15	23	43	53	289	300	7	1094
<i>Acontia lucida</i>					3	1	1	1	1	5			12
<i>Acronicta rumicis</i>					1	1							2
<i>Aedia leucomelas</i>								1					1
<i>Agrochola lychnidis</i>	4										63	3	70
<i>Agrotis bigramma</i>								5	21	22	1		49
<i>Agrotis catalaunensis</i>				5				1		14			20
<i>Agrotis exclamationis</i>		6			1						2		9
<i>Agrotis ipsilon</i>	1	2	4										7
<i>Agrotis puta</i>	1	36	8	4				1	1	76	8		135
<i>Agrotis segetum</i>					1					2	13		16
<i>Agrotis sp.</i>										2			2
<i>Agrotis spinifera</i>				1		1	1	1	1	1	1	1	7
<i>Agrotis trux</i>									2	25	15		42
<i>Allophyes alfaroi</i>	1												1
<i>Ammopolia witzenmanni</i>											1		1
<i>Anarta sodae</i>			1	1	1	1	1	3	1		4		13
<i>Anarta trifolii</i>					1		1						2
<i>Aporophyla chioleuca</i>										2	7		9
<i>Aporophyla nigra</i>										1	70	2	73
<i>Autographa gamma</i>									1	1			2
<i>Bryonycta pineti</i>					1	1	1	2	2				7
<i>Bryophila petrea</i>								1					1
<i>Calophasia platyptera</i>					1					1			2
<i>Caradrina clavipalpis</i>	2	1		7	1	1			1	4			17
<i>Caradrina flavirena</i>	1	4	3	7					2	4			21
<i>Caradrina proxima</i>				3						19			22
<i>Cerastis faceta</i>	24	1								3	3	1	32
<i>Condica viscosa</i>							5	4			5		14
<i>Conisania andalusica</i>				2									2
<i>Cryphia algae</i>					1		8	17	7	3			36
<i>Cryphia pallida</i>								1					1
<i>Cucullia calendulae</i>		5	1	2							5		13

Family/Species	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	Total
<i>Dryobotodes roboris</i>											1		1
<i>Eremopola orana</i>											1		1
<i>Hadena confusa</i>			1	1									2
<i>Hadena perplexa</i>				2									2
<i>Hadena sancta</i>		1	3	2	1								7
<i>Hecatera weissi</i>			1	13	16	1							31
<i>Helicoverpa armigera</i>		2				1		1		1			5
<i>Heliothis peltigera</i>			1							1			2
<i>Hoplodrina ambigua</i>			1	20	3				3	24	6		57
<i>Lacanobia oleracea</i>				5			1						6
<i>Leucania loreyi</i>								2		1			3
<i>Leucania punctosa</i>										3			3
<i>Leucania putrescens</i>									1	3			4
<i>Lithophane leautieri</i>	1											1	2
<i>Luperina dumerilii</i>										6			6
<i>Metopoceras felicina</i>				6									6
<i>Mniotype occidentalis</i>	1										10		11
<i>Mythimna albipuncta</i>		1	1										2
<i>Mythimna languida</i>		1	1				1			1			4
<i>Mythimna prominens</i>					1								1
<i>Mythimna riparia</i>					3	1				1			5
<i>Mythimna sicula</i>			1	5	1	1		1	2	4			15
<i>Mythimna unipuncta</i>	1	1			1	1							4
<i>Mythimna vitellina</i>				5	2	1							8
<i>Noctua comes</i>					1					1	1		3
<i>Noctua pronuba</i>			5	12	18			1	1	8	40		85
<i>Nodaria nodosalis</i>				2				1			7		10
<i>Nyctobrya muralis</i>							2						2
<i>Ochropleura leucogaster</i>	19	5		1	1			1		4	7		38
<i>Ochropleura plecta</i>		1								1			2
<i>Omphalophana serrata</i>			5	1									6
<i>Orthosia cerasi</i>	1	1											2
<i>Peridroma saucia</i>	3	1	1		2	1				1	2		11
<i>Phlogophora meticulosa</i>		1											1
<i>Proxenus hospes</i>				1	1	2							4
<i>Sesamia nonagrioides</i>				1									1
<i>Spodoptera cilium</i>										11	13		24
<i>Spodoptera exigua</i>		9			4		1		6	1	1		22
<i>Spudaea ruticilla</i>		1		1							1		3
<i>Thalpophila vitalba</i>										7			7
<i>Thysanoplusia orichalcea</i>		1											1
<i>Tyta luctuosa</i>					6				1	5			12
<i>Xestia c-nigrum</i>		1											1
<i>Xestia xanthographa</i>										27	12		39
<i>Xylocampa areola</i>		1											1

Family/Species	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	Total
Nolidae					6	6	11	2	3	1	1		30
<i>Earias insulana</i>								1	3	1	1		6
<i>Meganola togatualis</i>					1								1
<i>Nola infantula</i>					5	6	11	1					23
Notodontidae						1		33	55	9			98
<i>Drymonia querna</i>						1							1
<i>Thaumetopoea pityocampa</i>								33	55	9			97
Oecophoridae				2	7	10	3						22
<i>Batia lunaris</i>				2	6								8
<i>Pleurota sp.</i>						1							1
<i>Pleurota ericella</i>					1	9	3						13
Plutellidae				1	1		11						13
<i>Plutella xylostella</i>				1	1		11						13
Praydidae	3				2		3				1		9
<i>Prays citri</i>	3				2		3				1		9
Psychidae								1					1
<i>Oiketicoides eganai</i>								1					1
Pterolonchidae						1	2	1					4
<i>Pterolonche lutescentella</i>						1	2	1					4
Pterophoridae		2		1	11	1	11	5	3	2	1		37
<i>Agdistis sp.</i>					10	1	8	2	3	1			23
<i>Crombruggia laetus</i>		1		1	1		3						6
<i>Emmelina monodactyla</i>								1					1
<i>Merrifieldia leucodactyla</i>								1					1
<i>Puerphorus olbiadactylus</i>		1								1	1		3
<i>Stenoptilodes taprobanes</i>								1					1
Pyralidae		2	2	16	125	73	185	323	99	44	11		880
<i>Acrobasis consociella**</i>							6	4					10
<i>Acrobasis obliqua</i>		1	1	4	13		4	3	3				29
<i>Acrobasis romanella</i>					9	1	1	5	4	4			24
<i>Aglossa brabanti</i>							8						8
<i>Alophia combustella</i>					6	1	4	1					12
<i>Apomyelois ceratoniae</i>			1		9	6	19	18	5	16	3		77
<i>Asalebria florella</i>							1						1
<i>Bostra obsoletalis</i>				3	7	12	41	3					66
<i>Bradyrrhoa cantenerella</i>						2							2
<i>Cadra figulilella</i>					32	28	39	147	34	6			286
<i>Cryptoblabes gnidiella</i>				2		1	1	3		2	3		12
<i>Delplanqueia inscriptella*</i>								1					1
<i>Dioryctria mendacella</i>					2			1		1	1		5
<i>Ematheudes punctella</i>						1							1
<i>Endotracha flammealis</i>					3					1			4
<i>Ephestia woodiella</i>				1	4	2	10	8	4	1			30
<i>Ephestia welseriella</i>						2	1	1					4
<i>Epischnia asteris</i>						3	1	1					5

Family/Species	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	Total
<i>Epischnia illotella</i>				1			3	4		2			10
<i>Etiella zinckenella</i>							4	10	3	1	1		19
<i>Gymnancylla ruscionella</i> **							1	2					3
<i>Homoeosoma sinuella</i>				2	1	1	12	15	6				37
<i>Hypotia corticalis</i>							3	3	1				7
<i>Hypotia muscosalis</i>					1		1						2
<i>Hypsopygia costalis</i>					1	3	1	1	1	9	1		17
<i>Hypsopygia incarnatalis</i>								1	1				2
<i>Hypsotropa vazquezi</i>						1	6	2					9
<i>Lamoria anella</i>				2	29		5	66	21	1			124
<i>Loryma egregialis</i>						1			3				4
<i>Phycita diaphana</i> *						1							1
<i>Phycitodes inquinatella</i>								1					1
<i>Phycitodes saxicola</i>					5	5	5	7					22
<i>Psorosa ferrugatella</i>							2						2
<i>Pyralis farinalis</i>					1		1						2
<i>Pyrausta aurata</i>				1									1
<i>Pyrausta despicata</i>		1				2	4	2			2		11
<i>Pyrausta sanguinalis</i>					2		1						3
<i>Stemmatophora brunnealis</i>								13	12				25
<i>Stemmatophora rungsi</i>									1				1
Scythrididae			1	1	12	16	8						38
<i>Enolmis acanthella</i>			1	1	12								14
<i>Episcythis triangulella</i>						16	8						24
Sphingidae					1	1				1			3
<i>Hippotion celerio</i>										1			1
<i>Hyles livornica</i>					1	1							2
Tineidae	1				23	2	2	4	1	2	3		38
<i>Crassicornella agenjoi</i>					1								1
<i>Monopis imella</i>	1										1		2
<i>Opogona omoscopia</i>											1		1
<i>Reisserita chrysopterella</i>					21								21
<i>Stenoptinea cyaneimarmorella</i>								1					1
<i>Tinea basifasciella</i>							2		1				3
<i>Trichophaga bipartitella</i>					1	2		3		2	1		9
Tortricidae	1	1	7	42	73	12	10	7	17	9	11		190
<i>Acleris variegana</i>					5					1	3		9
<i>Acroclita subsequana</i>				1							3		4
<i>Aethes bilbaensis</i>					4		4			3			11
<i>Aethes francillana</i>					1								1
<i>Aethes languidana</i>										1			1
<i>Bactra venosana</i>	1												1
<i>Cacoecimorpha pronubana</i>					1		1						2
<i>Clepsis eatoniana</i>			1	5	4	3			1	2	4		20
<i>Cnephasia alfacarana</i>					14								14

Family/Species	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	Total
<i>Cnephasia conspersana</i>					6	2							8
<i>Cnephasia incertana</i>				2									2
<i>Cnephasia longana</i>					13	1							14
<i>Cnephasia sp.</i>					5								5
<i>Cnephasia stephensiana</i>				4	3	1							8
<i>Cochylimorpha decolorella</i>			1										1
<i>Crociosema plebejana</i>				1		2				1			4
<i>Cydia amplana</i>								1	1				2
<i>Cydia fagiglandana</i>							1	1					2
<i>Cydia pomonella</i>							2	2					4
<i>Cydia splendana</i>								1	1				2
<i>Cydia strigulatana</i>				1									1
<i>Endothenia gentianaeanana</i>				1	2								3
<i>Endothenia marginana</i>				2	2			1					5
<i>Epinotia thapsiana</i>		1	2	6	11	1		1	14				36
<i>Hedya nubiferana</i>					1								1
<i>Lobesia botrana</i>					1	2					1		4
<i>Lozotaeniodes cupressana</i>				3						1			4
<i>Phalonidia contractana</i>							1						1
<i>Phtheochroa duponchelana</i>			1	15									16
<i>Phtheochroa ecballiella</i>			2	1									3
<i>Pseudococcyx tessulatana</i>							1						1
Yponomeutidae					14	7	1		1	1			24
<i>Zelleria oleastrella</i>					14	7	1		1	1			24
Total	146	111	67	309	847	279	493	719	461	812	579	15	4838

Table 2 – Total of species caught in 2019 in some locations of Natura 2000 site of Ria de Alvor

Species	East Field	West Field	Western Marsh	Total
<i>Achyra nudalis</i>	1			1
<i>Acrobasis obliqua</i>			1	1
<i>Aethes bilbaensis</i>	3		1	4
<i>Agdistis sp.</i>			6	6
<i>Aglossa brabanti</i>	7		1	8
<i>Agriphila trabeatellus</i>			1	1
<i>Anarta sodae</i>			1	1
<i>Ancylosis oblitella</i>			2	2
<i>Aristotelia mirabilis*</i>			1	1
<i>Arnia nervosalis</i>			1	1
<i>Blastobasis phycidella</i>	1			1
<i>Bostra obsoletalis</i>	8	2	2	12
<i>Brachyglossina hispanaria</i>	1			1
<i>Cacoecimorpha pronubana</i>			1	1
<i>Cadra figulilella</i>			1	1
<i>Coleophora pennella</i>			1	1
<i>Coleophora salicorniae*</i>			2	2
<i>Coleophora semicinerea</i>	1			1
<i>Coleophora solidaginella</i>			1	1
<i>Coleophora sp.</i>			1	1
<i>Condica viscosa</i>	3		1	4
<i>Cryphia algae</i>	3			3
<i>Cydia fagiglandana</i>			1	1
<i>Cydia pomonella</i>	1		1	2
<i>Dichomeris lamprostoma</i>	1			1
<i>Dolicharthria punctalis</i>			1	1
<i>Dysspastus fallax</i>			1	1
<i>Eilema caniola</i>			1	1
<i>Ephestia woodiella</i>	1			1
<i>Epidola stigma</i>	2		2	4
<i>Epischnia illotella</i>	1			1
<i>Etiella zinckenella</i>	2			2
<i>Eublemma parva</i>			3	3
<i>Gymnancyla ruscionella*</i>			1	1
<i>Gymnoscelis rufifasciata</i>	1		1	2
<i>Homoeosoma sinuella</i>	1			1
<i>Hypena lividalis</i>	1			1
<i>Hypotia corticalis</i>	2		1	3
<i>Hypsotropa vazquezi</i>	5		1	6
<i>Itame vincularia</i>	1			1
<i>Lacanobia oleracea</i>			1	1
<i>Lamoria anella</i>	1		1	2
<i>Menophra japygiaria</i>	2			2

Species	East Field	West Field	Western Marsh	Total
<i>Mesophleps corsicella</i>	2			2
<i>Metacrambus pallidellus*</i>			6	6
<i>Nola chlamitulalis</i>			1	1
<i>Phalonidia contractana</i>	1			1
<i>Psorosa ferrugatella</i>	1		1	2
<i>Pterolonche lutescentella</i>	1			1
<i>Pyralis farinalis</i>	1			1
<i>Pyrausta despicata</i>	1			1
<i>Scopula marginepunctata</i>	1			1
<i>Scrobipalpa ocellatella</i>			1	1
<i>Stibaromacha ratella</i>	2	4		6
<i>Stomopteryx basalis</i>	6	1	2	9
<i>Symmocoides oxybiella</i>	2			2
<i>Tephronia sepiaria</i>	1	1		2
<i>Tinea basifasciella*</i>			2	2
<i>Udea numeralis</i>	4		1	5
<i>Watsonalla uncinula</i>	2		1	3
Total	75	8	56	278

Table 3: Total of individuals per families and species captured in 2020

Family/Species	jan	feb	mar	jun	jul	aug	sep	oct	nov	dec	Total
Autostichidae				23	37	38	55	13		1	167
<i>Apatema mediopallidum</i>				2							2
<i>Dysspastus fallax</i>										1	1
<i>Holcopogon bubulcellus</i>				2	5	6	11				24
<i>Oegoconia caradjai</i>				1	1	1					3
<i>Symmoca signatella</i>				2		10	33	2			47
<i>Symmocoides oxybiella</i>				16	31	21	11	11			90
Bedelliidae					2						2
<i>Bedellia somnulentella*</i>					2						2
Blastobasidae		5	3	113	38	8	17	10	8	28	230
<i>Blastobasis maroccanella</i>		2	1	35	18	1	9	6	6	4	82
<i>Blastobasis phycidella</i>		3	2	78	20	7	7	4	2	24	147
<i>Blastobasis sp.</i>							1				1
Bucculatricidae								1		1	2
<i>Bucculatrix sp.</i>								1		1	1
Coleophoridae		5		1	1		1				8
<i>Coleophora albicosta**</i>		4									4
<i>Coleophora albidella</i>					1						1
<i>Coleophora brunneosignata**</i>		1									1
<i>Coleophora glaucicolella</i>				1							1
<i>Coleophora sp.</i>							1				1
Cosmopterigidae				5	6	2	6	1	1		21
<i>Alloclita recisella*</i>				2							2
<i>Anatrachyntis badia</i>				2		1		1	1		5
<i>Pyroderces argyrogrammos</i>				1	6	1	6				14
Cossidae					1	1					2
<i>Zeuzera pyrina</i>					1	1					2
Crambidae	38	51	49	71	153	54	184	224	121	109	1054
<i>Achyra nudalis</i>						1	3				4
<i>Agriphila geniculea</i>							4	5			9
<i>Agriphila inquinatella</i>							1				1
<i>Agriphila latistria</i>							1	1			2
<i>Agriphila sp.</i>							1				1
<i>Agriphila straminella</i>							1				1
<i>Agriphila tersellus</i>								5			5
<i>Agriphila trabeatellus</i>						1	1	55			57
<i>Ancylolomia disparalis</i>								1			1
<i>Ancylolomia inornata</i>					3		3				6
<i>Ancylolomia palpella</i>							2				2
<i>Ancylolomia tentaculella</i>							6				6
<i>Antigastra catalaunalis</i>			1	3	9	11	62	29	9		124
<i>Cornifrons ulceratalis</i>							1	1			2

Family/Species	jan	feb	mar	jun	jul	aug	sep	oct	nov	dec	Total
<i>Diasemiopsis ramburialis</i>				1	1		1				3
<i>Dolicharthria punctalis</i>				1	3		2	2			8
<i>Duponchelia fovealis</i>				1	1						2
<i>Euchromius anapiellus</i>	1										1
<i>Euchromius gozmanyi</i>							1				1
<i>Euchromius ocella</i>				1							1
<i>Eudonia angustea</i>	3	1	26						28	70	128
<i>Eudonia lineola</i>	11	6	9						5	6	37
<i>Evergestis isatidalis</i>	3	1							9	10	23
<i>Hellula undalis</i>					3		4	4	2	1	14
<i>Herpetogramma licarsisalis</i>					2	3	5	19	16	5	50
<i>Mecyna asinalis</i>	2	2		3	2			1	1		11
<i>Metasia cuencalis</i>				1		3					4
<i>Metasia supbandalis</i>				1	1	1	1				4
<i>Nomophila noctuella</i>	1	1	1	5	8	9	4	8	5		42
<i>Palpita vitrealis</i>	3	18	5	37	83	19	47	71	28	11	322
<i>Parapoynx stratiotata*</i>				1							1
<i>Pediasia ribbeellus</i>							1				1
<i>Pyrausta despicata</i>		2	2	2		2	5	7	3		23
<i>Pyrausta sanguinalis</i>					2		3	4			9
<i>Spoladea recurvalis</i>					1		1	1	1		4
<i>Udea ferrugalis</i>	7	16	1	1		1	1	4	9	4	44
<i>Udea numeralis</i>	7	4	4	9	8	3	17	6	4	2	64
<i>Uresiphita gilvata</i>				4	26		5		1		36
Depressariidae	2	10	22	19	7	1	139	107	4	1	312
<i>Agonopterix carduncelli**</i>		1									1
<i>Agonopterix subpropinquella</i>				2						1	3
<i>Agonopterix yeatiana</i>	2										2
<i>Depressaria badiella</i>								5	1		6
<i>Depressaria depressana</i>								1			1
<i>Depressaria erinaceella*</i>								3			3
<i>Ethmia bipunctella</i>		9	22	11	3	1	138	98	3		285
<i>Odites kollarella</i>				6	4		1				11
Drepanidae	2	3		2	4		4	5	3		23
<i>Cilix hispanica</i>					1						1
<i>Watsonalla uncinula</i>	2	3		2	3		4	5	3		22
Erebidae	1	3	8	117	264	26	262	286	27	3	997
<i>Apaidia mesogona</i>							16	26	2		44
<i>Clytie illunaris</i>					1						1
<i>Coscinia cribraria</i>					2	2	16	12			32
<i>Cymbalophora pudica</i>							1	38			39
<i>Dysgonia algira</i>					1	4	5				10
<i>Eilema caniola</i>		2	5	102	221	9	180	181	8		708
<i>Eilema marcida</i>				1			3	1			5
<i>Eilema rungsi</i>						1					1

Family/Species	jan	feb	mar	jun	jul	aug	sep	oct	nov	dec	Total
<i>Eilema uniola</i>								1			1
<i>Eublemma candidana</i>					2	1					3
<i>Eublemma ostrina</i>	1	1		2	8		13	13	3	1	42
<i>Eublemma parva</i>				3	4		9	3	3		22
<i>Eublemma pura</i>				4	12	2	3				21
<i>Eublemma scitula</i>			1		1		4				6
<i>Hypena lividalis</i>								2			2
<i>Lithosia quadra</i>								2			2
<i>Nodaria nodosalis</i>			1	1	1		1	5	5	2	16
<i>Ocneria atlantica</i>					1	2					3
<i>Parascotia nissenii</i>				1							1
<i>Phragmatobia fuliginosa</i>							1				1
<i>Utetheisa pulchella</i>								1	3	6	10
<i>Zebeeba falsalis</i>			1	3	10	4	7	2			27
Eriocottidae	2										2
<i>Eriocottis paradoxella</i>	2										2
Euteliidae				6			1				7
<i>Eutelia adalatrix</i>				6			1				7
Gelechiidae	1	5	9	25	57	28	57	63	12		257
<i>Anarsia lineatella</i>					1						1
<i>Aproaerema anthyllidella</i>				6	5	1					12
<i>Aristotelia mirabilis</i>				1							1
<i>Bryotropha sp.</i>				2							2
<i>Dichomeris alacella</i>							5	7	2		14
<i>Dichomeris lamprostoma</i>						22	5	12	2		41
<i>Epidola stigma</i>					8	5					13
<i>Eulamprotes helotella</i>							1	5			6
<i>Mesophleps silacella</i>			1						1		2
<i>Metzneria castiliella</i>								3			3
<i>Mirificarma eburnella</i>			2								2
<i>Palumbina guerinii</i>	1	2	1	1	2	5	15	51	7		85
<i>Platyedra subcinerea</i>		2	4					2	1		9
<i>Pseudosophronia exutellus</i>								1			1
<i>Ptocheuusa paupella</i>				3	1			1	1		6
<i>Recurvaria nanella</i>				2	3						5
<i>Scrobipalpa ocellatella</i>		1	1		13	6	13	3	4		41
<i>Stomopteryx detersella</i>								1			1
<i>Stomopteryx remissella</i>				10	2						12
Geometridae	18	35	38	96	164	26	142	232	82	8	841
<i>Abraxas pantaria</i>							1				1
<i>Acanthovalva inconspicuaria</i>								2	3		5
<i>Afriberina salemmae</i>	1	1					1	1	2	1	7
<i>Aleucis distinctata</i>		6									6
<i>Aplasta ononaria</i>					2						2
<i>Aspitates ochrearia</i>			1					6	23		30

Family/Species	jan	feb	mar	jun	jul	aug	sep	oct	nov	dec	Total
<i>Brachyglossina hispanaria</i>				5	18	1					24
<i>Catarhoe basochesiata</i>	3	1						7	5		16
<i>Charissa mucidaria</i>								1			1
<i>Chloroclysta siterata</i>	1										1
<i>Costaconvexa polygrammata</i>			1	2							3
<i>Crocallis auberti</i>									1		1
<i>Cyclophora hyponoea</i>								1			1
<i>Cyclophora pupillaria</i>		1		3	7			1	1	1	14
<i>Eupithecia centaureata</i>	3	7	16	2	5	1	12	19	5	1	71
<i>Eupithecia cocciferata</i>		1		1							2
<i>Eupithecia dodoneata</i>		1	2	1				1	1		6
<i>Eupithecia oxycedrata</i>		1									1
<i>Eupithecia phoeniceata</i>									2		2
<i>Gerinia honoraria</i>				1				1	1	1	4
<i>Gymnoscelis rufifasciata</i>	2	2	1	1		1	1		1	2	11
<i>Idaea belemiata</i>				3	23	6	1				33
<i>Idaea calunetaria</i>					1						1
<i>Idaea carvalhoi</i>						1		1			2
<i>Idaea cervantaria</i>					1						1
<i>Idaea degeneraria</i>								2			2
<i>Idaea efflorata</i>								2			2
<i>Idaea elongaria</i>				3		3	5				11
<i>Idaea eugeniata</i>			2					1			3
<i>Idaea incisaria</i>				2				1	2		5
<i>Idaea litigiosaria</i>			1								1
<i>Idaea longaria</i>				9	3			11			23
<i>Idaea minuscularia</i>	1	2	2	5	4	1	2	4	1		22
<i>Idaea mustelata</i>				18	21						39
<i>Idaea obsoletaria</i>					2						2
<i>Idaea predotaria</i>								3	5		8
<i>Idaea straminata</i>								4			4
<i>Idaea subsericeata</i>								1			1
<i>Isturgia deerraria</i>					1	4	14	6	3		28
<i>Itame vincularia</i>		2	1		3	2	4	3			15
<i>Larentia malvata</i>								1	5	2	8
<i>Menophra abruptaria</i>	2			1		1	1				5
<i>Menophra japygiaria</i>	4	4	3	5	4	1	1	1	7		30
<i>Microloxia herbaria</i>				1	2			1	1	1	6
<i>Nycterosea obstipata</i>		1									1
<i>Peribatodes ilicaria</i>				2	1			1	3		7
<i>Petrophora convergata</i>								1	1		2
<i>Phaiogramma etruscaria</i>					4			6			10
<i>Phaiogramma faustinata</i>				3				5	1		9
<i>Pseudoterpna coronillaria</i>									1		1
<i>Rhodometra sacraria</i>		3	2	16	39	1	41	32	33	2	169

Family/Species	jan	feb	mar	jun	jul	aug	sep	oct	nov	dec	Total
<i>Rhoptria asperaria</i>	1							1			2
<i>Scopula imitaria</i>				5	5			4			14
<i>Scopula marginepunctata</i>				3	10			1	4	3	21
<i>Scopula minorata</i>			6	4	4						14
<i>Scopula ornata</i>								1			1
<i>Scotopteryx peribolata</i>									3	7	10
<i>Stegania trimaculata</i>								1			1
<i>Tephronia lhommara</i>					4			9	79	1	93
<i>Tephronia sepiaria</i>							1	14	6		21
<i>Xanthorhoe fluctuata</i>		2							1	1	4
Gracillariidae				3	4					1	8
<i>Caloptilia coruscans*</i>										1	1
<i>Dialectica scariella</i>				3	4						7
Lasiocampidae					1	1	3	4			9
<i>Lasiocampa trifolii</i>								3	4		7
<i>Phyllodesma kermesifolia</i>					1						1
<i>Streblote panda</i>							1				1
Lecithoceridae				2		6	1	5			14
<i>Eurodachtha canigella</i>				1		4		4			9
<i>Homaloxestis briantiella</i>				1		2	1	1			5
Lyonetiidae				2							2
<i>Lyonetia clerkella*</i>				2							2
Noctuidae	40	96	137	50	77	49	416	639	540	212	2256
<i>Abrostola triplasia</i>								1			1
<i>Acontia lucida</i>				8	1	1	18	13			41
<i>Acronicta psi</i>		1						1	2		4
<i>Acronicta rumicis</i>			1				1				2
<i>Aedia leucomelas</i>								1			1
<i>Aegle vespertinalis</i>					10	1		1			12
<i>Agrochola lychnidis</i>								2	75	37	114
<i>Agrotis catalaunensis</i>		10	22				6	35			73
<i>Agrotis ipsilon</i>		2			1		3		6	4	16
<i>Agrotis lata</i>							56	10			66
<i>Agrotis puta</i>		26	45				14	141	2		228
<i>Agrotis segetum</i>						1	8	10	6		25
<i>Agrotis spinifera</i>		1		4	5	2	10	2		1	25
<i>Agrotis trux</i>		1	1		2	2	13	73	14		105
<i>Allophyes alfaroi</i>										1	1
<i>Ammopolia witzenmanni</i>									2		2
<i>Anarta sodae</i>	1	2	4	2	2	6	2	4			23
<i>Anarta trifolii</i>							2	2			4
<i>Aporophyla chioleuca</i>								2		2	4
<i>Aporophyla nigra</i>	3							13	63	31	110
<i>Autographa gamma</i>	1	3	1					1	5	2	13
<i>Bryonycta pineti</i>		1	2	6	8		2	1			20

Family/Species	jan	feb	mar	jun	jul	aug	sep	oct	nov	dec	Total
<i>Caradrina clavipalpis</i>	1	6	10	3				21	17	3	61
<i>Caradrina flavirena</i>		8	30					13	12		63
<i>Caradrina germainii</i>		1									1
<i>Caradrina proxima</i>								5	11	1	17
<i>Cerastis faceta</i>	8	5								10	32
<i>Chrysodeixis chalcites</i>								3	1		4
<i>Condica viscosa</i>						4	1	8	9		22
<i>Cryphia algae</i>						11	22	39	38		110
<i>Cryphia pallida</i>								1	1		2
<i>Ctenoplusia limbirena</i>		1				1	1				3
<i>Cucullia calendulae</i>	1	3	3							4	11
<i>Eremopola orana</i>									1		1
<i>Hadena confusa</i>						1					1
<i>Hadena sancta</i>			2								2
<i>Hecatera weissi</i>				3							3
<i>Helicoverpa armigera</i>						4		11	17	1	33
<i>Heliothis nubigera</i>								1			1
<i>Heliothis peltigera</i>						1					1
<i>Hoplodrina ambigua</i>								13	69	16	98
<i>Lacanobia oleracea</i>				1			1		1		3
<i>Leucania joannisi</i>					1			1			2
<i>Leucania loreyi</i>							1	2		4	7
<i>Leucania punctosa</i>			1					1			2
<i>Leucania putrescens</i>								46	12		58
<i>Leucania zea</i>								3			3
<i>Lophoterges millierei</i>						1					1
<i>Luperina dumerilii</i>									7		7
<i>Mesapamea secalis</i>								1			1
<i>Mesoligia furuncula</i>								2			2
<i>Mniotype occidentalis</i>									4	17	4
<i>Mythimna albipuncta</i>								1			1
<i>Mythimna l-album</i>									1		1
<i>Mythimna languida</i>		1		4				1	1	3	1
<i>Mythimna prominens</i>						1		1			2
<i>Mythimna riparia</i>								1			1
<i>Mythimna sicula</i>		2	5	2				48	13		70
<i>Mythimna unipuncta</i>			1		1				2		1
<i>Mythimna vitellina</i>							1		3		4
<i>Noctua comes</i>									2	2	3
<i>Noctua pronuba</i>									10	259	56
<i>Nyctobrya muralis</i>							1	2			3
<i>Ochropleura leucogaster</i>	20	18	1					1	5	13	13
<i>Omphalophana serrata</i>			2								2
<i>Orthosia cerasi</i>	2	1									3
<i>Orthosia cruda</i>									1		1

Family/Species	jan	feb	mar	jun	jul	aug	sep	oct	nov	dec	Total
<i>Peridroma saucia</i>			1		2		4	4	4	5	20
<i>Proxenus hospes</i>				2	3		7	1			13
<i>Raphia hybris</i>				1			1				2
<i>Rhizedra lutosa</i>									1		1
<i>Sesamia nonagrioides</i>							1				1
<i>Spodoptera ciliun</i>	1			1	3	3	24	25	12	5	74
<i>Spodoptera exigua</i>			1	13	15	4	13	16	12	1	75
<i>Spodoptera littoralis</i>								4			4
<i>Spudaea ruticilla</i>								1			1
<i>Thalpophila vitalba</i>								3			3
<i>Thysanoplusia daubei</i>									1		1
<i>Thysanoplusia orichalcea</i>		2	1								3
<i>Tyta luctuosa</i>								1	2		3
<i>Xestia c-nigrum</i>			1						1	1	3
<i>Xestia xanthographa</i>	2						4	31	2		39
<i>Xylocampa areola</i>		1	1						1	1	4
Nolidae			1	8	8		5	1	1		24
<i>Earias insulana</i>								3	1	1	5
<i>Meganola togatulalis</i>								2			2
<i>Nola infantula</i>			1	8	8						17
Notodontidae							1	109	7		117
<i>Harpyia milhauseri</i>								1			1
<i>Thaumetopoea pityocampa</i>							1	108	7		116
Oecophoridae		1		34	21						56
<i>Epicallima mercedella*</i>					1						1
<i>Esperia sulphurella</i>		1									1
<i>Pleurota sp.</i>					5						5
<i>Pleurota ericella</i>				34	15						49
Plutellidae				1		2	2				5
<i>Plutella xylostella</i>				1		2	2				5
Praydidae		1	1	4					2		8
<i>Distagmos ledereri</i>		1									1
<i>Prays citri</i>			1	4					1		6
<i>Prays oleae</i>									1		1
Psychidae								3			3
<i>Oiketicoides eganai</i>								3			3
Pterolonchidae				1	1						2
<i>Pterolonche lutescentella</i>				1	1						2
Pterophoridae				3	9	4	8	4	1		29
<i>Agdistis sp.</i>					1	2	7	3			13
<i>Alucita palodactyla</i>					4						4
<i>Alucita sp.</i>						1			1		2
<i>Crombrugghia laetus</i>					1	1					2
<i>Emmelina monodactyla</i>				2	1						3
<i>Hellinsia sp.</i>								1			1

Family/Species	jan	feb	mar	jun	jul	aug	sep	oct	nov	dec	Total
<i>Merrifieldia leucodactyla</i>				1							1
<i>Puerphorus olbiadactylus</i>					1						1
<i>Stenoptilodes taprobanes</i>					1			1			2
Pyralidae	9	23	98	181	153	348	117	7	2	938	
<i>Acrobasis bithynella</i>			5								5
<i>Acrobasis consociella</i>				1	7	1	2				11
<i>Acrobasis obliqua</i>		7	13	1			5	1			27
<i>Acrobasis romanella</i>			1	8	13	7	18	19	1		67
<i>Aglossa brabanti</i>					1		1				2
<i>Aglossa caprealis</i>								1			1
<i>Alophia combustella</i>					4	12	49				65
<i>Apomyelois ceratoniae</i>		1	1	1	12	20	26	39	2		102
<i>Bostra obsoletalis</i>				4	12	9	2				27
<i>Bradyrrhoa cantenerella</i>							3	1			4
<i>Cadra figulilella</i>				55	60	38	92	17			262
<i>Cadra furcatella*</i>							1				1
<i>Cryptoblabes gnidiella</i>			1		5		6	2	1		15
<i>Dioryctria mendacella</i>				1			2	6		1	10
<i>Ematheudes punctella</i>				1							1
<i>Endotricha flammealis</i>							1	2			3
<i>Epeestia parasitella</i>								1			1
<i>Epeestia welseriella</i>				1	5						6
<i>Epeestia woodiella</i>			1	1	10	4	5	3	1		25
<i>Epischnia asteris</i>					6		3	3	2		14
<i>Epischnia illotella</i>				8	1	5	2	2			18
<i>Etiella zinckenella</i>					11	7	11	2			31
<i>Homoeosoma sinuella</i>				2	11	1	8	2			24
<i>Hypotia corticalis</i>					1		1				2
<i>Hypotia muscosalis</i>					2	1					3
<i>Hypsopygia costalis</i>				2	2	1	2	5		1	13
<i>Hypsopygia incarnatalis</i>					1			1			2
<i>Hypsotropa vazquezi</i>					3						3
<i>Lamoria anella</i>					4	21	70	1			96
<i>Loryma egregialis</i>				2			2				4
<i>Oncocera semirubella</i>							1	2			3
<i>Oxybia transversella</i>								2			2
<i>Phycitodes saxicola</i>		1	1	10	9	2	7	4			34
<i>Psorosa ferrugatella</i>							1				1
<i>Stemmatophora brunnealis</i>						24	20				44
<i>Stemmatophora rungsi</i>							7	1			8
<i>Synaphe punctalis</i>					1						1
Scythrididae			2	11	17						30
<i>Enolmis acanthella</i>			2								2
<i>Episcythis triangulella</i>				11	17						28
Sphingidae				2			7		1		10

Family/Species	jan	feb	mar	jun	jul	aug	sep	oct	nov	dec	Total
<i>Hippotion celerio</i>				1				7	1		9
<i>Hyles livornica</i>				1							1
Tineidae		4	2	8	3	7	4	5	3		36
<i>Crassicornella agenjoi</i>		1		1	1	6		1			10
<i>Monopis imella</i>		2		1				1			4
<i>Neurothaumasia ragusaella</i>						1	1				2
<i>Opogona omoscopa</i>				3							3
<i>Reisserita chrysopterella</i>				1							1
<i>Trichophaga bipartitella</i>		1	2	2	2			3	3	3	16
Tortricidae	2	4	26	26	17	3	58	43	18		197
<i>Acleris variegana</i>								1	5	4	10
<i>Acroclita subsequana</i>									1	1	2
<i>Aethes bilbaensis</i>					1						1
<i>Aethes francillana</i>				1							1
<i>Aethes languidana</i>								1			1
<i>Aethes margarotana</i>								1			1
<i>Aethes moribundana</i>		1									1
<i>Ancylis sparulana</i>			1	2	1	2					6
<i>Bactra venosana</i>					1			1	1		3
<i>Cacoecimorpha pronubana</i>				1							1
<i>Clepsis eatoniana</i>		1	3	1	2		3	24	9		43
<i>Clepsis siciliana</i>								2			2
<i>Cnephasia alfacarana</i>				6							6
<i>Cnephasia sp.</i>					1						1
<i>Cnephasia stephensiana</i>				3							3
<i>Cochylimorpha decolorella</i>	1		7								8
<i>Crociosema plebejana</i>	1	1		6	3			1	2		14
<i>Cydia fagiglandana</i>								2			2
<i>Cydia pomonella</i>								1			1
<i>Cydia strigulatana</i>			4					1			5
<i>Endothenia marginana</i>				2	1						3
<i>Epinotia thapsiana</i>		1	9	1	4	1	27				43
<i>Lobesia botrana</i>								2			2
<i>Lozotaeniodes cupressana</i>								2	5		7
<i>Phalonidia contractana</i>					1		20	1			22
<i>Phtheochroa ecballiella</i>			2								2
<i>Pseudococcyx tessulatana</i>					1				1		2
<i>Rhyacionia buoliana</i>				3	1						4
Yponomeutidae	1	3	3	11	15	2	12		2		49
<i>Zelleria oleastrella</i>	1	3	3	11	15	2	12		2		49
Total Geral	107	235	324	742	1088	412	1844	1769	832	365	7718

Notes: Species identification was done with the help of A Rocha Portugal reference collection and information available on line in various Lepidoptera sites.

Species marked with* the identification was not confirmed.

In some cases we have photos and the specimen was kept for genitalia analysis (marked with **).