

SOME NOTES ON THE BIOLOGY OF SNAKES AND ON THEIR DISTRIBUTION IN TWO DISTRICTS OF WEST JAVA

by

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Introduction. — In the literature on the snakes of Java there has been but very slight reference to their geographical distribution. There have been suppositions and vague indications, and also amazing rediscoveries! An article on the zoogeography of Java, published by Dr K. W. DAMMERMAN, contains a revised list of the reptiles of Java, compiled by Dr L. D. BRONCERSMA ¹⁾. In the same periodical the late Dr F. KOPSTEIN published a short article on some places in the eastern Priangan where snakes had been caught ²⁾, in which paper he considers the altitude of the various localities a factor that, with a view to the exact determination of their geographical distribution, had thus far been sadly neglected. The few examples thus adduced, however, cannot give a true representation of the creatures actually inhabiting so extensive a territory as that of the eastern Priangan.

This investigation originally was undertaken for the purpose of obtaining more detailed information on the geographical distribution of this sub-order. By making notes with reference to all snakes caught in the course of several successive years it became in a measure possible to determine the relative proportions of the species. Throughout 1938 also the presence and the development of the eggs were included in this study, and an effort was made to delimit a possibly distinct breeding season.

The material was collected in two different districts of the Priangan Residency, and was presented to the "Rijksmuseum van Natuurlijke Historie" in Leiden.

Localities. — The altitudes of the two districts in point do not greatly differ, seeing that they average 700 and 900 metres above sea level, respectively, and that they can, except for a small part of the latter district, be included in what Dr E. C. JUL. MOHR refers to as 'the tropical hill lands'. In view of their relative situations, therefore, one would hardly expect to find any differences worth mentioning.

¹⁾ "On the zoogeography of Java", *Treubia* XI, 1929.

²⁾ "Reptilien des östlichen Preanger", *Treubia* XII, 1930.

The climates of these regions, however, are totally different, this being most noticeable in the months of the east monsoon. That of the first locality is one of the driest in West Java, whereas that of the other pertains to those regions that have the highest rainfall ¹⁾).

This in the writer's opinion is the first and principal reason, including as a secondary factor also the difference in the number of hours of sunshine, why so marked a difference is to be found in the grouping of the various species. The vegetation, which obviously may be of much importance when comparing two places, is here of no essential value, seeing that in both cases the snakes were captured in the plantations. The boundaries, of course, must also be taken into account, these being for both plantations the small native villages with their usual agriculture and their tiny fish ponds.

Collecting. — All hands working on the estates cooperated in collecting, that is to say that any one having captured a snake and delivering it at my house would receive a small reward in cash. This was always the same amount for any snake irrespective of its size. All sorts of workers — weeders, pruners, pluckers — helped in capturing the snakes. The pluckers did not bring in many, as was to be anticipated in view of their having to pass rapidly from bush to bush, with but little opportunity for looking about. The number of people so cooperating was considerable, averaging in the first mentioned locality about 270 daily over a period of two years, and to 700 daily on the other estate. I do not mean to suggest that all these people were constantly hunting around: on the contrary, considerable difficulty was experienced in persuading them to catch any snakes at all. A native's aversion to snakes, generally speaking, is about the same as that felt by most Europeans. But if the reward is sufficiently large, some will always be willing to capture snakes, the remainder of the shift calling their attention to any reptile they happen to see, expecting, of course, to share in the forthcoming reward.

To prevent the hands catching such reptiles in their own surroundings after working hours, and trying to bring them in on the following day as if they had been caught within the precincts of the estate, which would greatly reduce the value of the statistics, the various gangs would be checked in the early morning, to make sure that no snakes had already been captured. This control, though always taking place unexpectedly, never produced any untoward result. With the exception of one single case, which, however, can have no pronounced influence, the material was collected within the boundaries of the two estates.

It is my experience, moreover, that a man, when alone, will not readily try to capture a snake he happens to see, but that he will be much more inclined to do so when in the company of others, as he is when at work in the gardens.

Statistics. — Only in the manner above described, or in some similar way, trustworthy data, it seems to me, can be obtained, whilst it is also necessary

¹⁾ Dr J. BOEREMA. "Verhandelingen", No. 14, Part II, and "Verhandelingen", No. 24, Part I, of the "Koninklijk Magnetisch en Meteorologisch Observatorium".

that this method be carried out over a prolonged period. In both districts the outcome clearly demonstrates that the material captured during the first months will not adequately represent the herpetofauna of such place. In the first locality a full year elapsed before the material was forthcoming regularly; in 1932 only twenty species were captured, as against twenty-eight in the following year, this being an increase of 40 %. Furthermore, in the first five months of 1935 only twenty-five species were found, whereas in 1938 not less than thirty-five species were collected in the other locality, this representing also an increase of 40 %, albeit over a longer period. At the same time the monthly totals very clearly indicate the progress made, and also that at the beginning of each new investigation, even in the same locality, the results are not trustworthy. In January 1938 thirteen species were captured, as against twenty-one in the corresponding month of the following year.

A long and uninterrupted investigation, therefore, is all-important if one is to be able definitely to assert that a certain species inhabits a certain district or otherwise. *Gongylosoma tricolor*, during five years of my residence in the second locality, was only captured once, namely in 1937, and is not included in this survey; *Bungarus candidus* likewise only once in four and a half years; also *Changulia virgulata* was brought in for the first time after more than four years.

The rediscovery of *Vipera russellii*¹⁾, in view of my experience as above described, was not surprising, nor was the fact that, ever since the late Dr F. KOPSTEIN, and also myself, began collecting this material on a large scale, the formerly little known and therefore rare *Xenodermus javanicus* was found fairly regularly in our material, which points in the same direction. It will therefore not be surprising if in future this species proves to be by no means so rare as was formerly supposed. Nor may the individual proportions of the results be accepted without some proviso, since it must be taken into account that a slow moving nocturnal snake can be caught in the daytime much more easily than can many other snakes that prefer the daylight. Every encounter with the former will result in almost certain capture, whereas the catching of the latter requires much deliberation and perseverance, whilst even then there is considerable likelihood that the reptile will escape.

THE TWO DISTRICTS.

I. NANDJOENG DJAJA.

Location. — The average altitude of the tea and rubber estate "Nandjoeng Djaja", situated in the country of Soemedang, is 700 metres above sea level, with only minor differences above and below this elevation. The territory is moderately undulating, consisting chiefly of broad and gently sloping hilly

¹⁾ HANS NEUHAUS. "Neunachweis von *Vipera russellii* auf Java. Treubia 15, 1935, p. 49.

Dr F. KOPSTEIN. "Herpetologische Notizen XII-XV". Treubia 15, 1936, p. 259.

ridges separated by shallow valleys. These may be regarded as being spurs of a mountain complex with a hardly definable top, the Goenoeng Tjalantjang, and are situated to the south of Darमारadja ¹⁾.

Boundaries. — The estate in the main is bounded by l a d a n g (unirrigated native rice fields), with towards the southeast the deep ravine of the Tjimanoeck River, one of whose tributaries forms the northern boundary of the estate. The region is almost entirely cultivated.

Vegetation. — The northern and eastern parts of the estate, about 240 ha, have not as yet been cleared, and consist of fairly recent secondary jungle interspersed with rattan and bamboo and with an occasional teak (*Tectona grandis*). About 250 ha has been cleared and is planted with tea and various shade trees. Along the roadside rubber trees (*Hevea brasiliensis*) are set out over a small area.

Climate. — The area has a very pronounced dry and wet season. During the west monsoon there is much and heavy rain; in the east monsoon, which as a rule starts early and is of long duration, there are often many consecutive weeks of continuous drought that causes all springs and wells on the estate to dry up. It has a large number of hours of sunshine daily, and a heavy east monsoon wind, known in this districts as k o e m b a n g, together with a markedly low humidity.

| Average rainfall over 23 years. | | Average sunshine over 7 years ²⁾ . | |
|---------------------------------|---------|---|-------------------|
| West monsoon | | | |
| 353 mm. | 16 days | November | 59 % = 4-43 hours |
| 497 mm. | 21 " | December | 49 % = 3-55 " |
| 501 mm. | 22 " | January | 48 % = 3-50 " |
| 457 mm. | 20 " | February | 43 % = 3-26 " |
| 522 mm. | 21 " | March | 48 % = 3-50 " |
| 356 mm. | 16 " | April | 62 % = 4-58 " |
| 261 mm. | 13 " | May *) | 58 % = 4-38 " |
| East monsoon | | | |
| 128 mm. | 7 days | June | 73 % = 5-50 hours |
| 55 mm. | 4 " | July | 83 % = 6-38 " |
| 44 mm. | 2 " | August | 86 % = 6-53 " |
| 92 mm. | 4 " | September | 76 % = 6-05 " |
| 168 mm. | 10 " | October *) | 63 % = 5-02 " |

Total 3434 mm in 156 days of rain.

¹⁾ The geographical names are taken from the "Atlas van Tropisch Nederland", published by the "Koninklijk Aardrijkskundig Genootschap", 1938.

²⁾ The hours of sunshine are from 8 a.m. to 4 p.m., which period is taken as representing 100 %.

*) Months in which the seasons are changing.

NANDJOENG DJAJA

1932

| Species | Jan. | Febr. | March | April | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Total |
|---------------------------------------|------|-------|-------|-------|-----|------|------|------|-------|------|------|------|-------|
| <i>Typhlops lineatus</i> | | 1 | 1 | | | | | 2 | | | | | 4 |
| <i>Dendrelaphis pictus pictus</i> ... | | 1 | 1 | | | | | 1 | | | | | 3 |
| <i>Natrix subminiata</i> | 1 | | 2 | 1 | | 2 | 1 | | 1 | 1 | | 2 | 11 |
| <i>Ptyas korros</i> | | | | 1 | | | | | | | 1 | | 2 |
| <i>Elaphe flavolineata</i> | | | 1 | | | | | | 1 | 1 | | | 3 |
| <i>Elaphe radiata</i> | 1 | | 1 | | | | | 1 | | | | 1 | 4 |
| <i>Lycodon subcinctus</i> | 1 | 3 | 1 | 2 | | 3 | | | | | 1 | | 11 |
| <i>Gongylosoma baliodeira</i> | | | | | | 1 | | | | | | | 1 |
| <i>Changulia multipunctata</i> | | | | 1 | | | | | | | 1 | | 2 |
| <i>Boiga multimaculata</i> | | | 2 | | | 2 | | | | 2 | | | 6 |
| <i>Boiga drapiezii</i> | | | | | | | 1 | | | 1 | | | 2 |
| <i>Boiga nigriceps</i> | | | | 1 | | | | | | | 1 | | 2 |
| <i>Boiga jaspidea</i> | | | | | | | 1 | | | | | | 1 |
| <i>Boiga cynodon</i> | 1 | | 1 | | 1 | | | | | | | 1 | 4 |
| <i>Ahaetulla prasina</i> | 1 | | | 1 | | | 1 | | | | 1 | | 4 |
| <i>Bungarus candidus</i> | | | | | | | | | | 1 | | | 1 |
| <i>Naja naja sputatrix</i> | | | 1 | | | | | | | | | | 1 |
| <i>Maticora intestinalis</i> | | 1 | | 1 | 1 | 1 | | 1 | | 1 | | | 6 |
| <i>Amblycephalus carinatus</i> | | 3 | 3 | 1 | | 3 | 12 | 2 | | | 1 | 1 | 26 |
| <i>Trimeresurus albolabris</i> | 2 | 1 | 2 | 2 | 1 | 3 | 1 | 1 | | 1 | 2 | 1 | 17 |
| Monthly total | 7 | 10 | 16 | 11 | 3 | 16 | 16 | 8 | 2 | 8 | 8 | 6 | 111 |
| Monthly rainfall in mm. | 320 | 490 | 435 | 384 | 286 | 221 | 55 | 58 | 246 | 47 | 277 | 423 | 3242 |

| Species | Jan. | Febr. | March | April | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Total |
|---|------|-------|-------|-------|-----|------|------|------|-------|------|------|------|-------|
| <i>Typhlops braminus</i> | | | | | | | | 1 | | 1 | | | 2 |
| <i>Typhlops lineatus</i> | | | | | | 1 | 1 | | | 1 | 1 | | 4 |
| <i>Python reticulatus</i> | | | | | | | | | | 1 | | | 1 |
| <i>Dendrelaphis pictus pictus</i> | 3 | 2 | | 1 | 1 | | | | | | | | 7 |
| <i>Dendrelaphis formosus formosus</i> | | | | | | 1 | | | | | | | 1 |
| <i>Natrix piscator</i> | | | | | 1 | | | | | | | | 1 |
| <i>Natrix trianguligera</i> | | | | | 1 | | | | | | | | 1 |
| <i>Natrix subminiata</i> | 3 | 9 | 6 | 4 | 1 | 1 | | 4 | | | | | 28 |
| <i>Natrix vittata</i> | 1 | | | | | | | | | | | 1 | 2 |
| <i>Ptyas korros</i> | | | | | 1 | 2 | | | | | | | 3 |
| <i>Elaphe flavolineata</i> | | 1 | | 1 | | | | | | | | | 2 |
| <i>Elaphe radiata</i> | | 5 | 3 | | | | | | | 1 | | | 9 |
| <i>Gonyosoma oxycephala</i> | | | | | 1 | | | | | | | 1 | 2 |
| <i>Elapoides fuscus</i> | | | | 1 | | | | | | | | | 1 |
| <i>Lycodon subcinctus</i> | 5 | 1 | 1 | | | | | | | | | 1 | 8 |
| <i>Oligodon bitorquatus</i> | | | | | | | | 1 | | | | | 1 |
| <i>Gongylosoma baliodeira</i> | | 1 | | 1 | 1 | 2 | | | | | | | 5 |
| <i>Changulia multipunctata</i> | 1 | | 1 | 1 | 2 | 1 | | | | | | | 6 |
| <i>Boiga multimaculata</i> | | 3 | 2 | | | 1 | | 1 | | | | 1 | 8 |
| <i>Boiga nigriceps</i> | 1 | 1 | | | 1 | 1 | | 1 | | | 2 | 1 | 8 |
| <i>Boiga jaspidea</i> | | | | | | | | | | | 2 | 1 | 3 |
| <i>Boiga cynodon</i> | 1 | | 1 | | 1 | 2 | 1 | | | 1 | | | 7 |
| <i>Psammodynastes pulverulentus</i> | | 2 | 1 | | 1 | | | | | | | | 4 |
| <i>Ahaetulla prasina</i> | | | 1 | 1 | 1 | 4 | 1 | | | | | | 8 |
| <i>Bungarus candidus</i> | | | | | | | 1 | | | | | | 1 |
| <i>Naja naja sputatrix</i> | 2 | 2 | | 1 | 1 | | | | | | | | 6 |
| <i>Maticora intestinalis</i> | 1 | 1 | 2 | 1 | 1 | 1 | | | | | 2 | 1 | 10 |
| <i>Amblycephalus carinatus</i> | 6 | 20 | 4 | 10 | 11 | 5 | | 2 | 2 | | 8 | 6 | 74 |
| <i>Trimeresurus albolabris</i> | 1 | 15 | 4 | 2 | 2 | 2 | 3 | 4 | | | 3 | 1 | 37 |
| Monthly total | 25 | 63 | 26 | 24 | 28 | 24 | 7 | 14 | 2 | 5 | 18 | 14 | 250 |
| Monthly rainfall in mm. | 564 | 504 | 368 | 385 | 472 | 91 | 145 | 113 | 269 | 186 | 381 | 511 | 3989 |

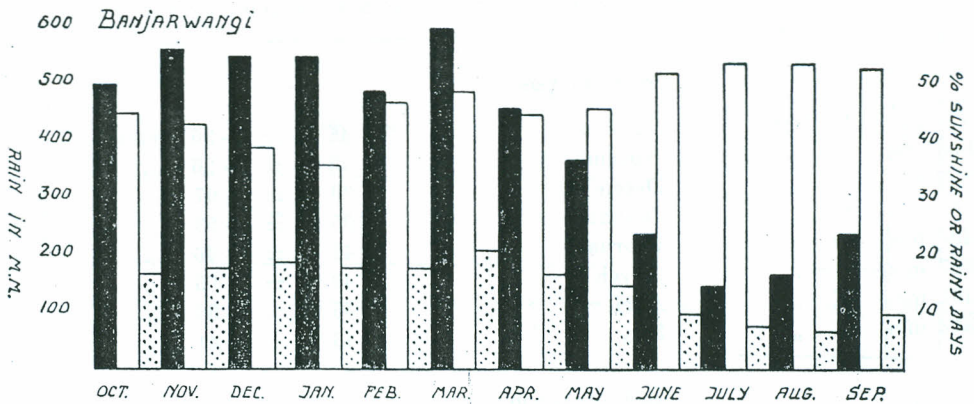
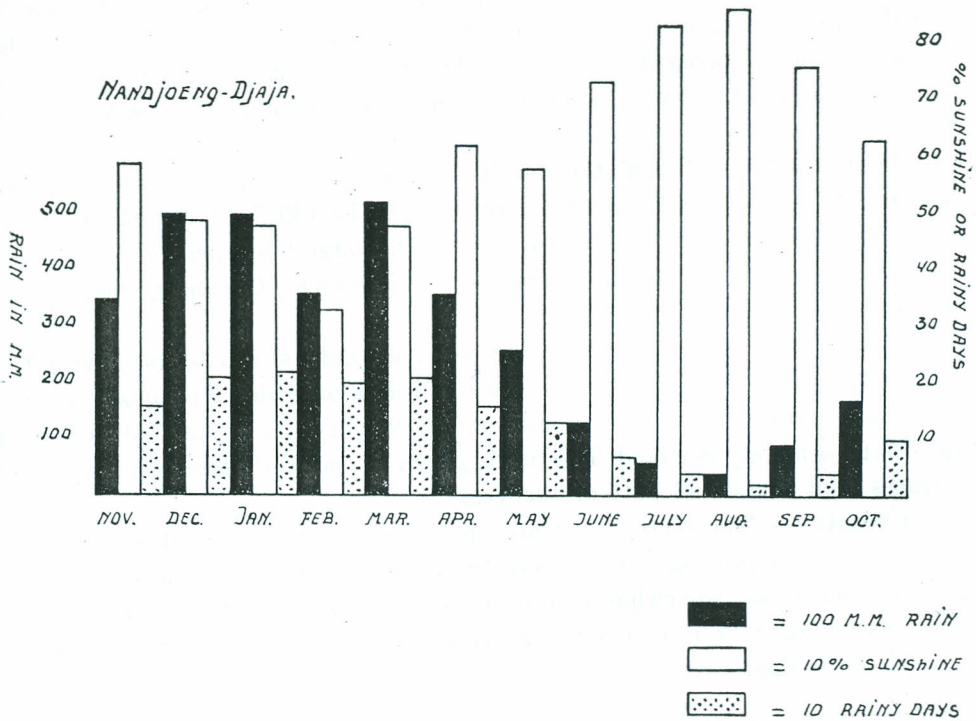


Fig. 1. Graphical table of the sunshine and rainfall on both localities.

II. BANDJARWANGI.

Location.—The average altitude of the tea and cinchona estate of “Bandjarwangi”, situated to the southeast of Tjikadjang in the county of Garoet, is 900 metres above sea level, the maximum elevation being 1200 and

the minimum 850 metres. The environs are markedly undulating and pertain to the hilly districts of the Goenoeng Tjikoeraj, a volcano to the northwest.

Boundaries. — The estate forms part of an area that to the west, the south, and the east, is enclosed by two arms of a river; the source of the river to the northeast, the Tjikaengan, is several kilometres distant, on the slopes of the Tjikoeraj Mountain; whilst the other, the main tributary, has its source further to the northwest.

Vegetation. — Through the undulating character of the country numberless ravines have been formed, covering roughly 200 ha (30 % of the entire area), which are scattered over the entire estate. The largest of these are as yet in their original state and contain many species of *Quercus*, *Castanea*, *Podocarpus*, and *Ficus*.

Of the remainder roughly 390 ha are tea gardens, interspersed with the usual shade trees of a tea estate, and a small area on which cinchona is grown. There are many springs. The country in the vicinity, including that adjoining the estate, is mainly rice land. The rice is grown on 'sawahs', these being irrigated terraces kept inundated part of the year.

Climate. — The estate is situated in one of the rainiest districts of West Java and has a prolonged west monsoon with frequent and continuous rains. A fairly short and somewhat indefinite east monsoon prevails, with a barely sufficient amount of rain. On the average there is but little sunshine in the course of the day.

| Average rainfall over 26 years. | | Average sunshine over 4 years. | |
|---------------------------------|---------|--------------------------------|-------------------|
| West monsoon | | | |
| 496 mm. | 17 days | October | 45 % = 3-36 hours |
| 558 mm. | 18 " | November | 43 % = 3-26 " |
| 547 mm. | 19 " | December | 39 % = 3-07 " |
| 554 mm. | 18 " | January | 36 % = 2-53 " |
| 490 mm. | 18 " | February | 47 % = 3-46 " |
| 597 mm. | 21 " | March | 49 % = 3-55 " |
| 461 mm. | 17 " | April | 45 % = 3-36 " |
| 372 mm. | 15 " | May | 46 % = 3-41 " |
| East monsoon | | | |
| 236 mm. | 10 days | June *) | 52 % = 4-10 hours |
| 148 mm. | 8 " | July | 54 % = 4-19 " |
| 168 mm. | 7 " | August | 54 % = 4-19 " |
| 239 mm. | 10 " | September *) | 53 % = 4-14 " |

Total 4866 mm in 178 days of rain.

*) Months in which the seasons are changing.

1935

| Species | Jan. | Febr. | March | April | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Total |
|---|------|-------|-------|-------|-----|------|------|------|-------|------|------|------|-------|
| <i>Typhlops lineatus</i> | | | 2 | | 2 | . | . | . | . | . | . | . | 4 |
| <i>Python reticulatus</i> | | 1 | | | | . | . | . | . | . | . | . | 1 |
| <i>Xenodermus javanicus</i> | 1 | | | | 2 | . | . | . | . | . | . | . | 3 |
| <i>Polyodontophis geminatus</i> | | | | 1 | 1 | . | . | . | . | . | . | . | 2 |
| <i>Dendrelaphis formosus formosus</i> | | | | | 2 | . | . | . | . | . | . | . | 2 |
| <i>Natrix trianguligera</i> | | 1 | | | | . | . | . | . | . | . | . | 1 |
| <i>Natrix subminiata</i> | | 1 | | 6 | 5 | . | . | . | . | . | . | . | 12 |
| <i>Natrix chrysarcha</i> | 1 | | 3 | 4 | 7 | . | . | . | . | . | . | . | 15 |
| <i>Ptyas korros</i> | | | | | 2 | . | . | . | . | . | . | . | 2 |
| <i>Elaphe flavolineata</i> | | | 2 | | 1 | . | . | . | . | . | . | . | 3 |
| <i>Elaphe radiata</i> | | | | | 1 | . | . | . | . | . | . | . | 1 |
| <i>Lycodon subcinctus</i> | 1 | 1 | | 2 | 2 | . | . | . | . | . | . | . | 6 |
| <i>Oligodon bitorquatus</i> | | 1 | | | 4 | . | . | . | . | . | . | . | 5 |
| <i>Elapoides fuscus</i> | 3 | 6 | 1 | 12 | 26 | . | . | . | . | . | . | . | 48 |
| <i>Gongylosoma baliodeira</i> | 1 | 1 | | 3 | 3 | . | . | . | . | . | . | . | 8 |
| <i>Changulia lumbricoidea</i> | | 1 | 1 | | 5 | . | . | . | . | . | . | . | 7 |
| <i>Changulia multipunctata</i> | 1 | 2 | | 12 | 10 | . | . | . | . | . | . | . | 25 |
| <i>Boiga jaspidea</i> | | | | | 1 | . | . | . | . | . | . | . | 1 |
| <i>Ahaetulla prasina</i> | | | | | 3 | . | . | . | . | . | . | . | 3 |
| <i>Bungarus fasciatus</i> | 1 | | 2 | 1 | 2 | . | . | . | . | . | . | . | 6 |
| <i>Maticora bivirgata</i> | | | | 1 | | . | . | . | . | . | . | . | 1 |
| <i>Maticora intestinalis</i> | | 2 | 1 | 3 | 4 | . | . | . | . | . | . | . | 10 |
| <i>Haplopeltura boa</i> | | 2 | 1 | | | . | . | . | . | . | . | . | 3 |
| <i>Amblycephalus carinatus</i> | | 1 | 4 | 2 | 2 | . | . | . | . | . | . | . | 9 |
| <i>Trimeresurus albolabris</i> | 3 | | | 1 | 4 | . | . | . | . | . | . | . | 8 |
| Monthly total | 12 | 20 | 17 | 48 | 89 | | | | | | | | 186 |
| Monthly rainfall in mm. | 399 | 414 | 351 | 469 | 143 | 63 | 5 | 42 | 41 | 423 | 425 | 332 | 3107 |

BANDJARWANGI.

1938

| Species | Jan. | Febr. | March | April | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Total |
|---|------|-------|-------|-------|-----|------|------|------|-------|------|------|------|-------|
| <i>Typhlops lineatus</i> | | | 1 | | 1 | 3 | 1 | 1 | | 7 | 6 | 5 | 25 |
| <i>Python reticulatus</i> | | | 2 | | | 1 | 1 | | | | | | 4 |
| <i>Xenodermis javanicus</i> | | | 1 | 2 | 7 | 7 | 2 | 5 | 4 | 7 | 5 | 11 | 51 |
| <i>Polyodontophis geminatus</i> | 1 | | | 1 | 2 | 1 | 4 | | 3 | | 1 | 2 | 15 |
| <i>Dendrelaphis pictus pictus</i> | | | | 1 | | 5 | 2 | 1 | | 2 | 5 | | 16 |
| <i>Dendrelaphis formosus formosus</i> | | | | | | 2 | | 1 | 1 | | | | 4 |
| <i>Zaocys carinatus</i> | | | | 1 | | | | | | | 1 | | 2 |
| <i>Natrix trianguligera</i> | | | 9 | 4 | 15 | 25 | 9 | 11 | 6 | 20 | 21 | 14 | 134 |
| <i>Natrix subminiata</i> | 4 | 4 | 1 | 9 | 16 | 12 | 10 | 8 | 6 | 11 | 14 | 19 | 114 |
| <i>Natrix chrysarcha</i> | 5 | 2 | 6 | 4 | 17 | 29 | 27 | 25 | 25 | 19 | 34 | 11 | 204 |
| <i>Ptyas korros</i> | | | 1 | 1 | 5 | 2 | 2 | 1 | 1 | | | | 21 |
| <i>Elaphe flavolineata</i> | 2 | 2 | | 2 | 4 | 5 | 3 | 4 | 3 | 2 | 10 | 4 | 41 |
| <i>Elaphe radiata</i> | | | 1 | | 1 | | | 1 | 2 | | | | 7 |
| <i>Lycodon subcinctus</i> | | | 3 | 2 | 4 | 3 | | 2 | 1 | 1 | 2 | 3 | 21 |
| <i>Oligodon bitorquatus</i> | | | 4 | | 2 | 2 | | | 6 | 5 | 5 | 3 | 27 |
| <i>Elapoides fuscus</i> | 9 | 28 | 20 | 46 | 57 | 80 | 93 | 113 | 195 | 32 | 63 | 69 | 805 |
| <i>Gongylosoma baliodeira</i> | 7 | 3 | 5 | 3 | 4 | 10 | 19 | 8 | 20 | 13 | 9 | 9 | 110 |
| <i>Changulia lumbricoidea</i> | 2 | 2 | 3 | 3 | 6 | 13 | 19 | 20 | 14 | 9 | 5 | 7 | 103 |
| <i>Changulia virgulata</i> | | | | | | | | | 7 | 2 | 8 | 1 | 18 |
| <i>Changulia multipunctata</i> | 1 | 1 | 3 | 6 | 13 | 42 | 34 | 52 | 28 | 26 | 17 | 37 | 260 |
| <i>Boiga multimaculata</i> | | | | | | 1 | | | 1 | | | | 2 |
| <i>Boiga drapiezii</i> | | | 3 | 1 | | 1 | 1 | 2 | | | | 1 | 9 |
| <i>Boiga jaspidea</i> | | | 1 | | 1 | | | 1 | | 1 | | | 4 |
| <i>Psammodynastes pulverulentus</i> | | | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 13 |
| <i>Ahaetulla prasina</i> | 1 | 1 | 5 | 2 | 3 | 6 | 8 | 3 | 2 | 8 | 10 | 15 | 61 |
| <i>Bungarus fasciatus</i> | 2 | 2 | | | | 1 | 1 | 1 | 1 | 1 | | 2 | 11 |
| <i>Bungarus candidus</i> | | | | | | | | | | | | 1 | 1 |
| <i>Maticora bivirgata</i> | | | 2 | | | | 1 | 3 | 1 | 1 | | 1 | 9 |
| <i>Maticora intestinalis</i> | | | | 5 | 2 | 4 | 5 | 3 | 3 | 3 | | 3 | 28 |
| <i>Haplopeltura boa</i> | 1 | | 4 | 1 | 4 | | 3 | 5 | | 1 | 1 | | 20 |
| <i>Amblycephalus laevis</i> | | | | | 1 | | 8 | 1 | 9 | 1 | | 2 | 23 |
| <i>Amblycephalus carinatus</i> | 4 | 1 | 3 | 3 | 9 | 5 | 5 | 9 | 2 | 2 | 6 | 7 | 56 |
| <i>Trimeresurus puniceus</i> | | | 1 | | 1 | 2 | 2 | 1 | | | | | 7 |
| <i>Trimeresurus albolabris</i> | 15 | 9 | 10 | 15 | 22 | 32 | 23 | 17 | 17 | 14 | 9 | 36 | 219 |
| Monthly total | 54 | 55 | 94 | 113 | 198 | 295 | 284 | 300 | 350 | 189 | 243 | 264 | 2448 |
| Monthly rainfall in mm. | 583 | 415 | 331 | 368 | 340 | 436 | 238 | 305 | 43 | 163 | 530 | 391 | 4143 |

1939

| Species | Jan. | Febr. | March | April | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Total |
|---|------|-------|-------|-------|-----|------|------|------|-------|------|------|------|-------|
| <i>Typhlops lineatus</i> | 4 | 5 | 4 | 2 | 4 | . | . | . | . | . | . | . | 19 |
| <i>Python reticulatus</i> | | | | | | . | . | . | . | . | . | . | — |
| <i>Xenodermus javanicus</i> | 12 | | 2 | 2 | 5 | . | . | . | . | . | . | . | 21 |
| <i>Polyodontophis geminatus</i> | | | | 2 | | . | . | . | . | . | . | . | 2 |
| <i>Dendrelaphis pictus pictus</i> | 1 | | 1 | | 2 | . | . | . | . | . | . | . | 4 |
| <i>Dendrelaphis formosus</i> <i>formosus</i> | | | | | 1 | . | . | . | . | . | . | . | 1 |
| <i>Zaocys carinatus</i> | | | | 1 | | . | . | . | . | . | . | . | 1 |
| <i>Natrix trianguligera</i> | 1 | 2 | 3 | 2 | 6 | . | . | . | . | . | . | . | 14 |
| <i>Natrix subminiata</i> | 9 | 6 | 9 | 18 | 11 | . | . | . | . | . | . | . | 53 |
| <i>Natrix chrysarcha</i> | 10 | 12 | 21 | 18 | 11 | . | . | . | . | . | . | . | 72 |
| <i>Ptyas korros</i> | 3 | 2 | 2 | 4 | 2 | . | . | . | . | . | . | . | 13 |
| <i>Elaphe flavolineata</i> | 2 | 2 | 4 | 1 | 3 | . | . | . | . | . | . | . | 12 |
| <i>Elaphe radiata</i> | 1 | | | | 1 | . | . | . | . | . | . | . | 2 |
| <i>Lycodon subcinctus</i> | 1 | 2 | 3 | 3 | 1 | . | . | . | . | . | . | . | 10 |
| <i>Oligodon bitorquatus</i> | 3 | 4 | 3 | 4 | 1 | . | . | . | . | . | . | . | 15 |
| <i>Elapoides fuscus</i> | 65 | 58 | 99 | 77 | 94 | . | . | . | . | . | . | . | 393 |
| <i>Gongylosoma baliodeira</i> | 4 | 11 | 6 | 11 | 4 | . | . | . | . | . | . | . | 36 |
| <i>Changulia lumbricoidea</i> | 3 | 3 | 8 | 5 | 4 | . | . | . | . | . | . | . | 23 |
| <i>Changulia virgulata</i> | | | 1 | | | . | . | . | . | . | . | . | 1 |
| <i>Changulia multipunctata</i> | 47 | 25 | 57 | 27 | 23 | . | . | . | . | . | . | . | 179 |
| <i>Boiga multimaculata</i> | | | | | | . | . | . | . | . | . | . | — |
| <i>Boiga drapiezii</i> | | | | | | . | . | . | . | . | . | . | — |
| <i>Boiga jaspidea</i> | 1 | | | | 1 | . | . | . | . | . | . | . | 2 |
| <i>Psammodynastes pulverulentus</i> | 1 | 1 | 2 | 1 | 1 | . | . | . | . | . | . | . | 6 |
| <i>Ahaetulla prasina</i> | 6 | 6 | 6 | 2 | 1 | . | . | . | . | . | . | . | 21 |
| <i>Bungarus fasciatus</i> | 4 | | 2 | 1 | 1 | . | . | . | . | . | . | . | 8 |
| <i>Bungarus candidus</i> | | | | | | . | . | . | . | . | . | . | — |
| <i>Maticora bivirgata</i> | | 1 | 2 | 3 | | . | . | . | . | . | . | . | 6 |
| <i>Maticora intestinalis</i> | 1 | 1 | 3 | 4 | 2 | . | . | . | . | . | . | . | 11 |
| <i>Haplopeltura boa</i> | | 1 | 1 | 2 | 12 | . | . | . | . | . | . | . | 16 |
| <i>Amblycephalus laevis</i> | | 1 | 2 | | | . | . | . | . | . | . | . | 3 |
| <i>Amblycephalus carinatus</i> | 3 | 3 | 3 | 4 | 6 | . | . | . | . | . | . | . | 19 |
| <i>Trimeresurus puniceus</i> | | | 1 | 1 | | . | . | . | . | . | . | . | 2 |
| <i>Trimeresurus albolabris</i> | 16 | 17 | 18 | 27 | 18 | . | . | . | . | . | . | . | 96 |
| Monthly total | 198 | 163 | 263 | 222 | 215 | | | | | | | | 1061 |
| Monthly rainfall in mm. | 583 | 315 | 394 | 350 | 187 | 435 | 599 | 140 | 125 | 298 | 263 | 327 | 3890 |

To gain an insight into the numerical proportion of the species occurring in any one district and at the same time to be able to mutually compare the localities, I have endeavoured to find a method of assigning to each species a certain value and believe to have found a solution by multiplying the total number of snakes of one species, captured in the course of twelve consecutive months, by the number of months in which this species was obtained. In the case of NANDJOENG DJAJA the whole of 1933 was taken, and for BANDJARWANGI the period June 1938 to May 1939, inclusive.

For both localities the last twelve months of the experiment were used, seeing that these would most nearly indicate the actual representation. I doubt the likelihood of the regular capture over a fairly long period exercising any influence upon these results, nor is this evidenced by the monthly figures. In both localities, however, there were certain species that were not captured during exactly these twelve months; these have been placed at the end of the list and may be considered to be very rare in these areas.

Lists A and B have been arranged in accordance with the above mentioned formula with reference to the localities of BANDJARWANGI and of NANDJOENG DJAJA, respectively. To make the matter still more simple, the subject matter has been divided into 3 classes, these being:

| | |
|---------|----------------|
| Class I | very common, |
| „ II | common, |
| „ III | fairly common, |
| „ IV | not common, |
| „ V | rare. |

The sequence of the classes is not the same for each locality; nevertheless it gives a fairly accurate impression of the district in point.

If the first twelve items, as being the most important, are further studied, the position occupied by *Elapoides fuscus* in List A is at once noticeable. This exceptional fact gives it the right to be formed into a sub-class which has been called Ia here. The noticeable presence of this species I believe to be due to the climate of locality A where a constant rainfall coincides with a high relative humidity. Incidentally, in this connection, it will be noted that this species was found only once in locality B.

Also *Changulia multipunctata* predominates in List A, whilst in List B it occupies but a modest position, pertaining there to Class III. The supposition made with reference to *Elapoides fuscus* I believe to be applicable also to this species.

Attention, furthermore, must be called to the presence of three species of the genus *Natrix* in List A where *Natrix chrysarcha* markedly predominates, there being but one species thereof, namely *Natrix subminata*, in List B.

List A.

| | | |
|----------|---|-------|
| Class Ia | <i>Elapoides fuscus</i> | 12456 |
| „ I | <i>Changulia multipunctata</i> | 4980 |
| | <i>Trimeresurus albolabris</i> | 2928 |
| | <i>Natrix chrysarcha</i> | 2904 |
| „ II | <i>Natrix subminiata</i> | 1596 |
| | <i>Gongylosoma baliodeira</i> | 1488 |
| | <i>Natrix trianguligera</i> | 1440 |
| | <i>Changulia lumbricoidea</i> | 1320 |
| | <i>Ahaetulla prasina</i> | 876 |
| | <i>Xenodermus javanicus</i> | 682 |
| | <i>Amblycephalus carinatus</i> | 660 |
| | <i>Elaphe flavolineata</i> | 516 |
| „ III | <i>Typhlops lineatus</i> | 462 |
| | <i>Oligodon bitorquatus</i> | 360 |
| | <i>Maticora intestinalis</i> | 352 |
| | <i>Ptyas korros</i> | 270 |
| | <i>Lycodon subcinctus</i> | 242 |
| | <i>Haplopeltura boa</i> | 208 |
| | <i>Amblycephalus laevis</i> | 200 |
| | <i>Dendrelaphis pictus</i> | 152 |
| | <i>Bungarus fasciatus</i> | 150 |
| | <i>Psammodynastes pulverulentus</i> | 132 |
| | <i>Maticora bivirgata</i> | 104 |
| „ IV | <i>Changulia virgulata</i> | 95 |
| | <i>Polyodontophis geminatus</i> | 78 |
| | <i>Trimeresurus puniceus</i> | 35 |
| | <i>Elaphe radiata</i> | 35 |
| | <i>Dendrelaphis formosus</i> | 20 |
| | <i>Boiga drapiezii</i> | 20 |
| | <i>Boiga jaspidea</i> | 16 |
| „ V | <i>Boiga multimaculata</i> | 4 |
| | <i>Python reticulatus</i> | 4 |
| | <i>Zaocys carinatus</i> | 4 |
| | <i>Bungarus candidus</i> | 1 |
| | <i>Gongylosoma tricolor</i> | |

List B.

| | | |
|---------|---|-----|
| Class I | <i>Amblycephalus carinatus</i> | 740 |
| „ II | <i>Trimeresurus albolabris</i> | 370 |
| | <i>Natrix subminiata</i> | 196 |
| „ III | <i>Maticora intestinalis</i> | 80 |
| | <i>Boiga nigriceps</i> | 56 |
| | <i>Boiga cynodon</i> | 42 |
| | <i>Boiga multimaculata</i> | 40 |
| | <i>Ahaetulla prasina</i> | 40 |
| | <i>Lycodon subcinctus</i> | 32 |
| | <i>Changulia multipunctata</i> | 30 |
| | <i>Dendrelaphis pictus</i> | 28 |
| | <i>Elaphe radiata</i> | 27 |
| „ IV | <i>Naja sputatrix</i> | 24 |
| | <i>Gongylosoma baliodeira</i> | 20 |
| | <i>Typhlops lineatus</i> | 16 |
| | <i>Psammodynastes pulverulentus</i> | 12 |
| | <i>Boiga jaspidea</i> | 6 |
| | <i>Ptyas korros</i> | 6 |
| „ V | <i>Gonyosoma oxycephalus</i> | 4 |
| | <i>Elaphe flavolineata</i> | 4 |
| | <i>Natrix vittata</i> | 4 |
| | <i>Typhlops braminus</i> | 4 |
| | <i>Python reticulatus</i> | 1 |
| | <i>Dendrelaphis formosus</i> | 1 |
| | <i>Natrix piscator</i> | 1 |
| | <i>Natrix trianguligera</i> | 1 |
| | <i>Oligodon bitorquatus</i> | 1 |
| | <i>Elapoides fuscus</i> | 1 |
| | <i>Bungarus candidus</i> | 1 |
| | <i>Zaocys carinatus</i> | |
| | <i>Boiga drapiezii</i> | |

1 - 10
11 - 100
101 - 250
251 - 1000
1001 - 5000
5001 -

Class V
Class IV
Class III
Class II
Class I
Class Ia.

1 - 5
6 - 25
26 - 100
101 - 400
401 -

That this latter species is fairly well represented in List A may perhaps be an indication that here one has to do with the zone where *Natrix subminiata* yields its place to *Natrix chrysarcha*. Prolonged observations in an area several hundred metres higher, and with a climate and vegetation corresponding to those in location A, were productive of very valuable data.

With a total of twelve in List B, it is noteworthy that not less than seven thereof are arboreal or semi-arboreal snakes. The green viper, *Trimeresurus albolabris*, has been included, although it is not perhaps so characteristic for this group as are, for instance, the species belonging to the genus *Boiga*. But in order to differentiate clearly between this species and the ground-viper, *Ancistrodon rhodostoma*, it has been added to this group.

Of these seven species *Amblycephalus carinatus* is decidedly the most numerous, not only showing the highest value at the top of the list, but also filling class I all by itself, which is remarkable, more especially since this snake lives exclusively on snails. Partly on this account, it is difficult to find a valid reason for its presence in such large numbers, but for the moment I prefer not to go more deeply into this matter.

The writer believes both lists to be of great importance and of considerable practical value because of the insight they afford with reference to those specimens that can be dangerous to mankind. It is, therefore, not exactly reassuring to arrive at the conclusion that *Trimeresurus albolabris* on both localities is a common, on Bandjarwangi indeed a very common, species to be met with. Probably no one would have anticipated, and it is one of the surprising things revealed by this investigation, that this is the case. Further investigation must settle the question as to whether this is due to the vegetation of these localities. It is conceivable, for example, that the characteristic vegetation of a tea estate would constitute a favourable factor for the breeding of this species. Nevertheless, the colouring and the indolent habits of this snake cause it to be little noticed, and it is therefore possible that it is equally common in the native plantations. However this may be, it is a fact that the Pasteur Institute in Bandoeng has much trouble in obtaining a regular supply and a sufficient number of *Trimeresurus albolabris*, whereas it has no such difficulty with reference to *Bungarus fasciatus* and *Naja sputatrix* ¹⁾.

With reference to the green viper being a source of danger to man, it may here be stated that though several hundreds of people daily push their way through the tea bushes, as they do in picking the young tea leaves, they are hardly ever bitten by this snake.

Maticora intestinalis was caught fairly regularly on both localities. The natives readily recognize this snake, but it is doubtful if they know how poisonous it is. This might prove that this snake is of but little danger to man. Under normal conditions its small mouth prevents it from biting human beings.

¹⁾ At regular intervals the virus is extracted from these snakes, to be used, for instance, in the production of anti-venine.

Maticora bivirgata also does not greatly interest the natives. To most of the inhabitants of BANDJARWANGI this species was quite unknown, and they had not the smallest notion of its extreme virulence.

In both localities *Bungarus candidus* is very rare. During five years it was not encountered even once at BANDJARWANGI, and I began to believe that it did not exist there at all, when at last one was brought in from one of the lowest gardens of the estate. Can this be an indication of this species really having its natural habitat in warmer regions, and that at higher altitudes it is replaced by *Bungarus fasciatus*? Its complete absence from List B and its presence in Class III of List A might point in this direction.

Finally the absence must be noted of *Trimeresurus puniceus* from List B, and that of *Naja sputatrix* from List A. With reasonable certainty this can be ascribed to the difference in altitude. *Trimeresurus puniceus* was obtained only in the higher parts of BANDJARWANGI, whilst it is practically certain that this species is a hill variety of *Trimeresurus albolabris*. Interesting is the fact that this investigation has clearly shown that the zone boundary may not be placed at an elevation below about 1000 metres. The opposite probably applies to *Naja sputatrix*, namely that one may not place the zone boundary at an elevation higher than 700 metres, which would explain this cobra's appearance in List B, in Class IV; indeed, it could almost have been included in Class III, whereas it is totally absent from List A.

In conclusion it is evident that both localities have twenty-four snakes in common, although their numerical representation varies considerably. This great proportional difference is to be ascribed mainly to the climatic differences between the two localities. Furthermore, List B comprises eleven species that are absent from List A, whilst inversely seven species do not occur in List A, but do appear in List B.

Here follows a summary of these species:

| Absent from List B. | Absent from List A. |
|---------------------------------|-----------------------------|
| <i>Changulia lumbricoidea</i> | <i>Boiga nigriceps</i> |
| <i>Changulia virgulata</i> *) | <i>Boiga cynodon</i> |
| <i>Xenodermus javanicus</i> | <i>Naja sputatrix</i> |
| <i>Haplopeltura boa</i> | <i>Natrix vittata</i> |
| <i>Amblycephalus laevis</i> | <i>Natrix piscator</i> |
| <i>Bungarus fasciatus</i> | <i>Typhlops braminus</i> |
| <i>Maticora bivirgata</i> | <i>Gonyosoma oxycephala</i> |
| <i>Natrix chrysarcha</i> *) | |
| <i>Polyodontophis geminatus</i> | |
| <i>Trimeresurus puniceus</i> *) | |
| <i>Gonylosoma tricolor</i> | |

The species marked *) are those whose absence can be ascribed to differences in altitude, seeing that, except for *Natrix chrysarcha*, they were all of them caught in the highest gardens of the BANDJARWANGI estate.

During the investigation of 1938 the oviducts of the females were examined

and the state of development of the eggs — when present — was divided into three classes: 'fully developed', where the eggs had reached their full growth and normal size, and where it was practically certain that they would be deposited within a week; 'early stage', where they were in their first stage of development and where the eggs were less than a quarter their normal size; and 'half developed', for eggs between these two stages of development. Unimpregnated eggs were placed in the 'zero' group.

The division into ages: juvenile, half grown, and full grown (pubescent), was determined from the data collected, the total length of each specimen determining its age. (As will be noticed upon examining the tables, a snake still grows considerably after having attained its adult stage. Full grown here does not mean, therefore, that the snake has reached its maximum length.)

With reference to those species having typical juvenile markings, which in some cases remain until they are half-grown, it was not very difficult to reach a decision, although these markings were still more or less visible also in the following stages of development. Also the development of genitalia of the male specimens aided us in forming a reasonably exact line of demarcation between the juvenile and the adult forms.

Finally, those species represented in adequate numbers made it possible for us to decide the probable stage of those snakes of whom but little material was available.

The principal indication of the age of the females was the state of their oviducts, from the development of which it could be judged whether they were ripe for propagation, and in this sense adult. Thus it was also possible to judge the likely length to be attained by males, taking into account that they always remain smaller than the females at the corresponding stage of development.

Of all the uninjured specimens measured, the relation in percentages of the length of the body to the total length was worked out. This made it possible in many instances to determine the juvenile specimens, and thereby the value of the data was greatly enhanced.

The results of these 17 months of work, in the course of which 3509 snakes were examined and measured, are listed in Supplement A to this article.

If from these detailed notes an abridged list of each species is made, then the results at first sight would leave a somewhat chaotic impression, and this would be enhanced by the inadequate data concerning various species with reference to which it was not possible to form a definite opinion, not even to a certain degree. My further study, therefore, was restricted to investigations of the six species best represented, namely *Elapoides fuscus*, *Gongylosoma baliodeira*, *Natrix chrysarcha*, *Natrix subminiata*, *Changulia multipunctata*, and *Changulia lumbricoidea*. Of these species the data are given over the last twelve months of the investigation only because, as already stated, the largest numbers were obtained within that period, and I believe these to approach most closely to what may be regarded as the norm. The appended lists comprise respectively 1038, 122, 241, 131, 413, and 109 snakes examined.

A graph of the number of gravid females obtained in the abovementioned period shows a curve as traced in fig. 2. It thus appears that for each species, more or less distinctly, there is a numerical increase in one month of each year.

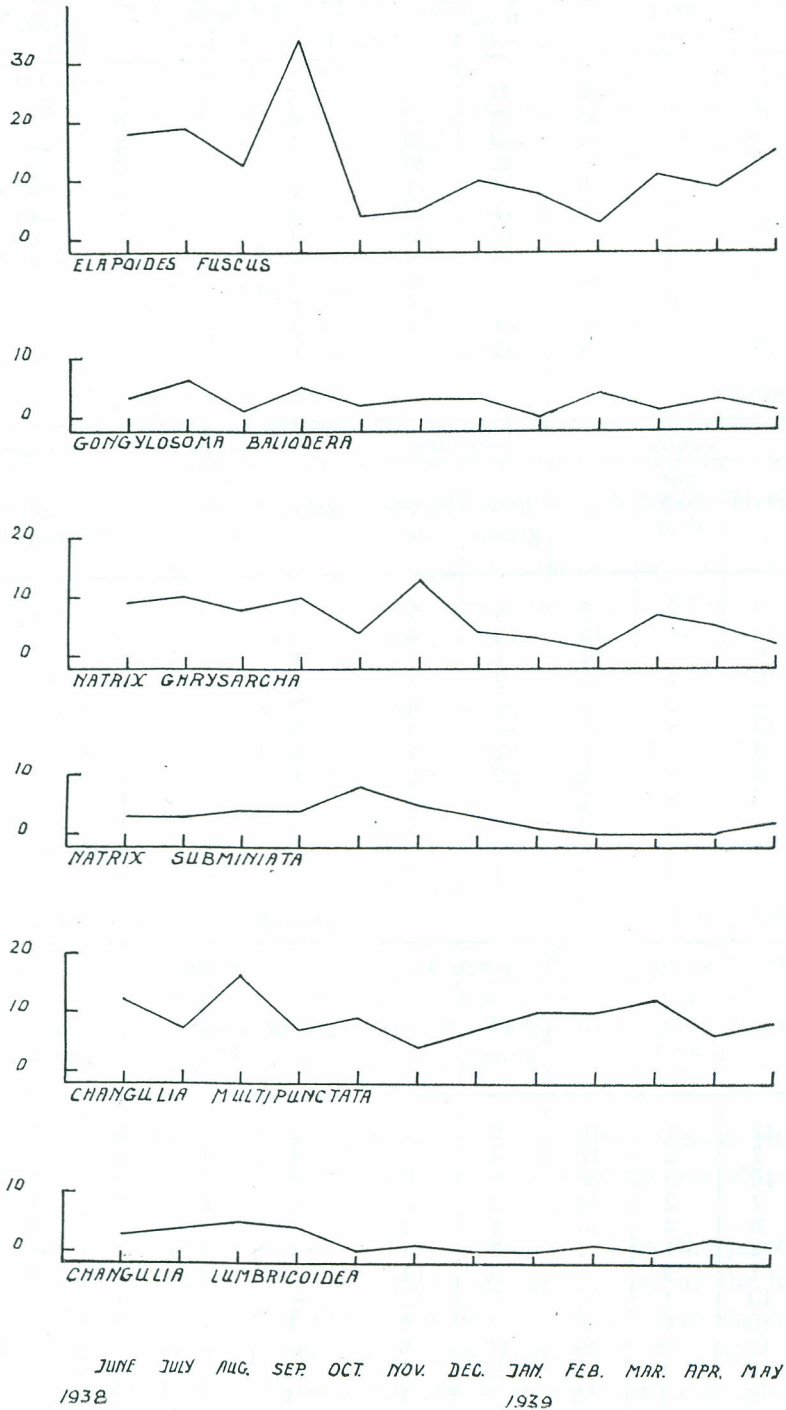


Fig. 2.

Elapoides fuscus.

| | adults | | | juveniles | |
|----------|-------------|------------------------|----|----------------|---------------|
| | gravid ♀ | not preg- nant ♀ | ♂ | half- grown | juven- ile |
| June '38 | 18 | 4 | 26 | 21 | 11 |
| July | 19 | 8 | 33 | 23 | 10 |
| August | 13 | 14 | 31 | 23 | 29 |
| Sept. | 33 | 16 | 54 | 42 | 49 |
| Oct. | 4 | 4 | 9 | 4 | 11 |
| Nov. | 5 | 8 | 16 | 11 | 23 |
| Dec. | 10 | 9 | 8 | 12 | 30 |
| Jan. '39 | 8 | 9 | 13 | 14 | 21 |
| Febr. | 3 | 3 | 13 | 11 | 28 |
| March | 11 | 8 | 27 | 19 | 34 |
| April | 9 | 6 | 14 | 24 | 24 |
| May | 15 | 5 | 19 | 25 | 30 |

Gongylosoma baliodeira.

| | adults | | | juveniles | |
|----------|-------------|------------------------|---|----------------|---------------|
| | gravid ♀ | not preg- nant ♀ | ♂ | half- grown | juven- ile |
| June '38 | 3 | 1 | 6 | — | — |
| July | 6 | 2 | 5 | 1 | 5 |
| August | 1 | 2 | 4 | — | 1 |
| Sept. | 5 | 1 | 6 | 2 | 6 |
| Oct. | 2 | — | 4 | 2 | 5 |
| Nov. | 3 | — | 1 | 4 | 1 |
| Dec. | 3 | — | 1 | 3 | 2 |
| Jan. '39 | — | 1 | 3 | — | — |
| Febr. | 4 | 1 | 3 | 2 | 1 |
| March | 1 | — | 3 | — | 2 |
| April | 3 | 2 | 4 | 1 | 1 |
| May | 1 | — | 2 | — | 1 |

Natrix chrysarcha.

| | adults | | | juveniles | |
|----------|-------------|------------------------|----|----------------|---------------|
| | gravid ♀ | not preg- nant ♀ | ♂ | half- grown | juven- ile |
| June '38 | 9 | 2 | 13 | 4 | 1 |
| July | 10 | — | 10 | 3 | 4 |
| August | 8 | — | 14 | 1 | 2 |
| Sept. | 10 | 1 | 11 | 2 | 1 |
| Oct. | 4 | 2 | 7 | — | 6 |
| Nov. | 13 | 8 | 10 | — | 3 |
| Dec. | 4 | — | 4 | 2 | 1 |
| Jan. '39 | 3 | 1 | 2 | 2 | 2 |
| Febr. | 1 | 1 | 2 | 1 | 7 |
| March | 7 | — | 4 | 3 | 7 |
| April | 5 | 2 | 4 | 2 | 5 |
| May | 2 | 3 | 2 | 1 | 3 |

Natrix subminiata.

| | adults | | | juveniles | |
|----------|-------------|------------------------|---|----------------|---------------|
| | gravid ♀ | not preg- nant ♀ | ♂ | half- grown | juven- ile |
| June '38 | 3 | — | 5 | 4 | — |
| July | 3 | 3 | 3 | 1 | — |
| August | 4 | — | 4 | — | — |
| Sept. | 4 | 1 | 1 | — | — |
| Oct. | 8 | — | 1 | 2 | — |
| Nov. | 5 | 2 | 4 | — | 3 |
| Dec. | 3 | — | 7 | 5 | 4 |
| Jan. '39 | 1 | — | 1 | 2 | 5 |
| Febr. | — | — | 1 | — | 5 |
| March | — | — | 1 | 8 | — |
| April | — | 2 | 3 | 10 | 3 |
| May | 2 | — | 4 | 4 | 1 |

Changulia multipunctata.

| | adults | | | juveniles | |
|----------|-------------|------------------------|----|----------------|---------------|
| | gravid ♀ | not preg- nant ♀ | ♂ | half- grown | juven- ile |
| June '38 | 12 | 1 | 16 | 9 | 4 |
| July | 7 | 2 | 17 | 4 | 4 |
| August | 16 | 5 | 18 | 5 | 8 |
| Sept. | 7 | 2 | 14 | 3 | 2 |
| Oct. | 9 | 4 | 10 | 1 | 2 |
| Nov. | 4 | 1 | 4 | 3 | 5 |
| Dec. | 7 | 3 | 9 | 6 | 12 |
| Jan. '39 | 10 | 1 | 16 | 8 | 12 |
| Febr. | 10 | 1 | 8 | 2 | 4 |
| March | 12 | 9 | 19 | 11 | 6 |
| April | 6 | 1 | 15 | 3 | 2 |
| May | 8 | 4 | 5 | 5 | 1 |

Changulia lumbricoidea.

| | adults | | | juveniles | |
|----------|-------------|------------------------|---|----------------|---------------|
| | gravid ♀ | not preg- nant ♀ | ♂ | half- grown | juven- ile |
| June '38 | 2 | — | 5 | 4 | 1 |
| July | 4 | 2 | 4 | 4 | 5 |
| August | 5 | 3 | 3 | 7 | 2 |
| Sept. | 4 | 1 | 1 | 4 | 4 |
| Oct. | — | 2 | — | 3 | 4 |
| Nov. | 1 | 1 | — | — | 3 |
| Dec. | — | 2 | 1 | 1 | 3 |
| Jan. '39 | — | — | 1 | — | 2 |
| Febr. | 1 | 1 | 1 | — | — |
| March | — | — | 3 | 4 | 1 |
| April | 2 | — | 2 | 1 | — |
| May | 1 | 1 | 2 | — | — |

Is it merely coincidence that this predominance parallels the number of specimens obtained? Or in other words, would it have been possible for the less noticeable cases to establish a more convincing result had more snakes been collected?

Elapoides fuscus definitely had the largest number of gravid females in September; in much lesser degree this was the case for *Gongylosoma baliodeira* in July; for *Natrix chrysarcha* certainly in November; for *Natrix subminiata*, although not quite so noticeably, in October; and for *Changulia multipunctata* and *Ch. lumbricoidea* in August, though in the former it was more definite than in the latter.

For these six species the period wherein the largest number of eggs was found in the oviducts ranged from the beginning of July to the end of November, whence it may be concluded that the 'season', if we may speak of any 'season', is not very pronounced. On the other hand it cannot be denied that annually there seems to be a time of increased propagation.

Consequently one may expect to find a larger number of young specimens during the following months. Graphs III to VIII, inclusive, indicate the total number of specimens obtained, showing the proportion of juveniles to adults. As anticipated, the results definitely indicate a higher propagatory tendency in a certain part of the year.

From these collected data a provisional conclusion may be arrived at, namely that at the beginning of the rainy season there is a definite tendency to propagate amongst the species observed, probably also prevailing in the other species.

This conclusion is not intended to be a positive one, but is merely provisional. A great deal of further systematic work will still have to be done in various and diverging localities before it can be definitely ascertained whether there really is such a 'season'.

To the tables on p. 349 - 350:

K. = F. KOPSTEIN (loc. cit. postea, p. 161). The figures represent the length of the specimens just out of the egg.

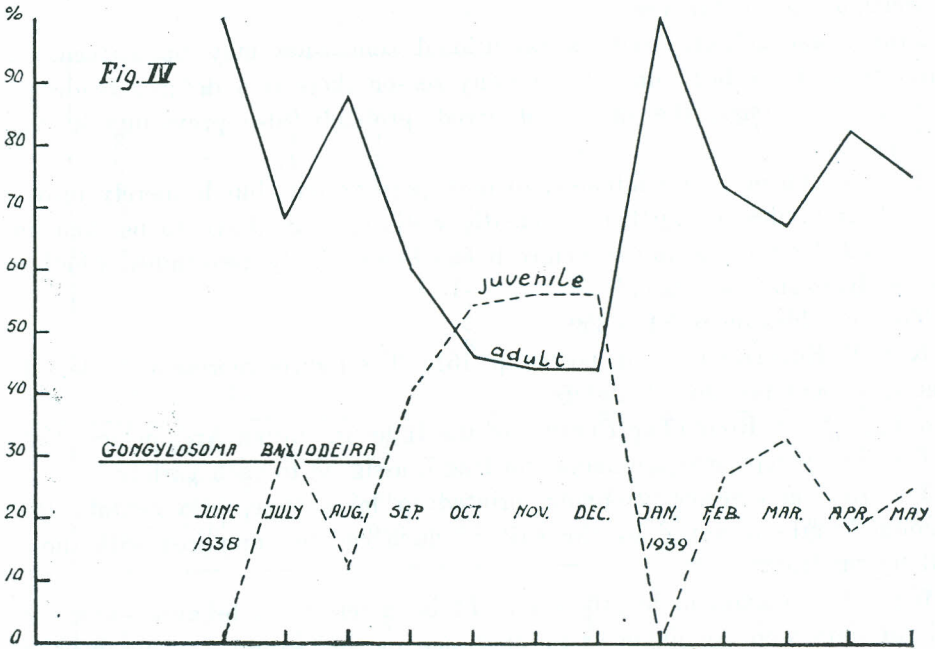
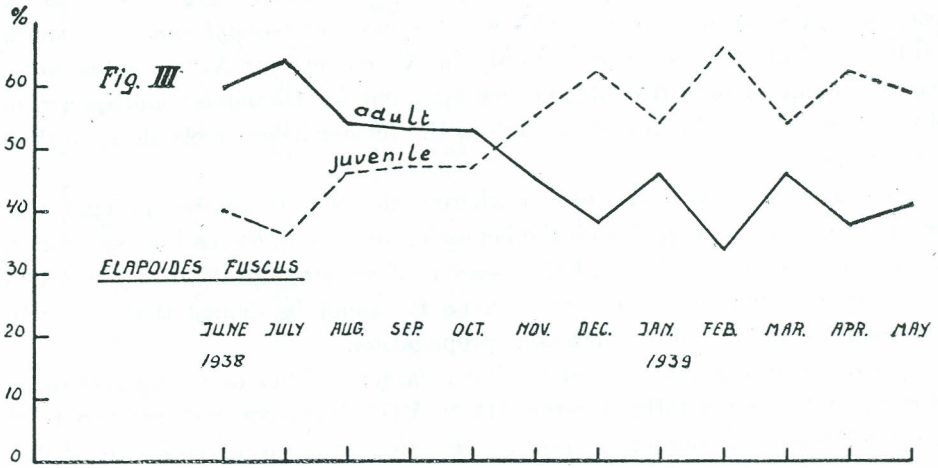
d. R. = N. DE ROOY (The Reptiles of the Indo-Australian Archipelago, Vol. II). The figures represent the maximum length assigned to each variety.

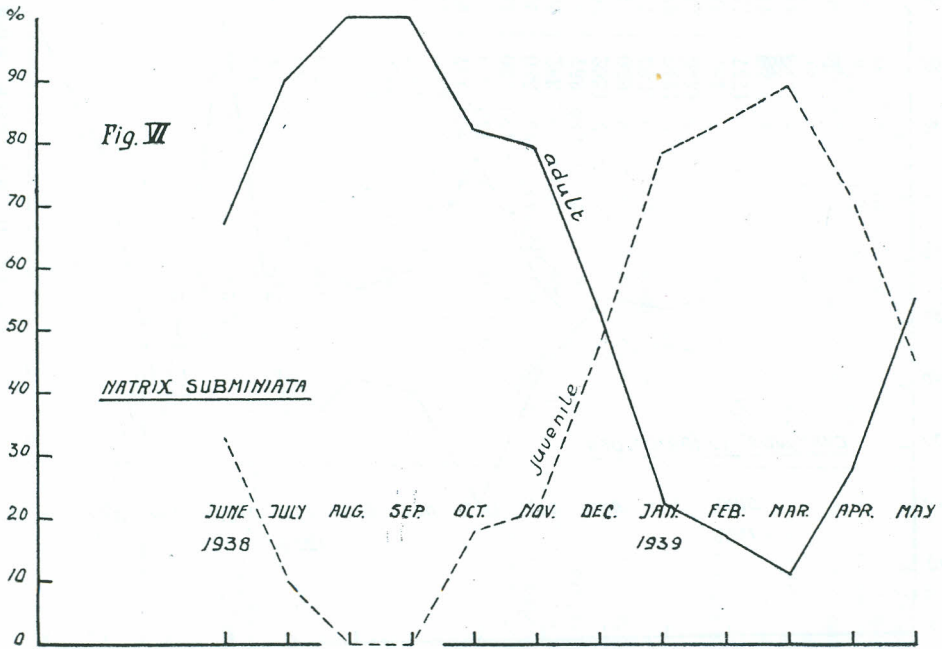
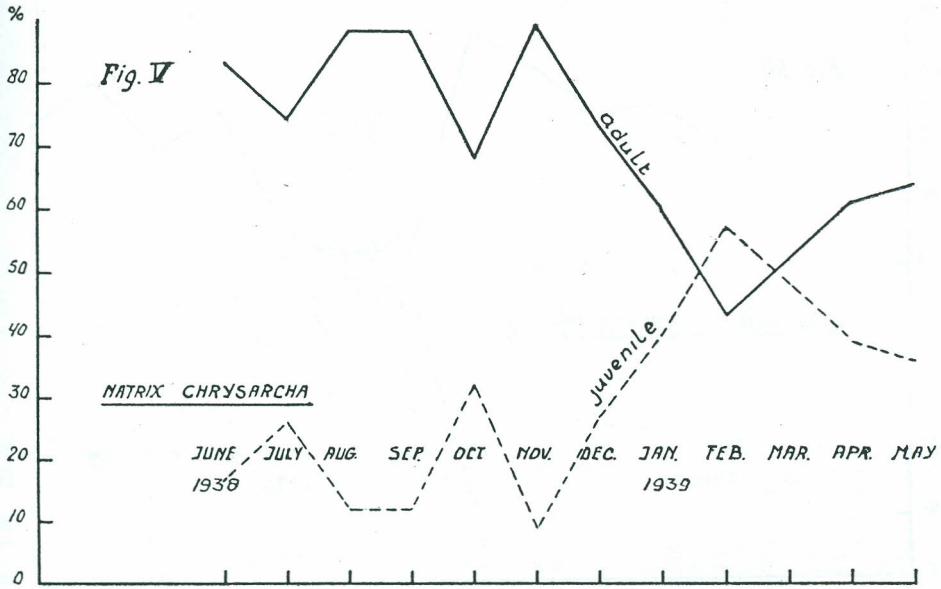
The first and second columns, printed in large type, also contain the maximum lengths observed by the writer, which can be compared with those found by DE ROOY.

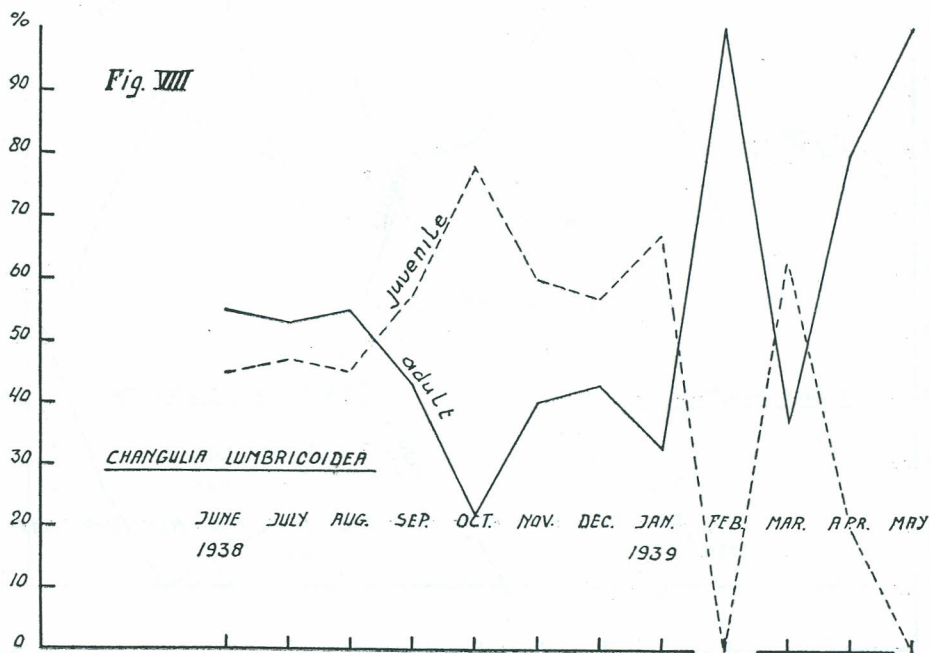
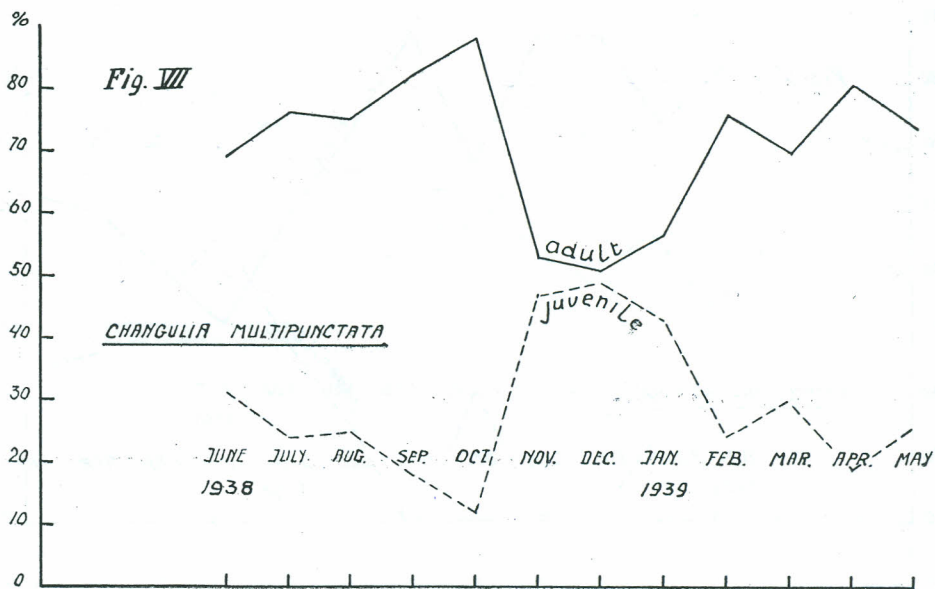
Where the maximum length could not be ascertained, because either no sufficient data were available or no specimen of that group was obtained, a question mark (?) has been added.

The minimum length of an adult female was decided by the presence of eggs, the probable minimum length of the males was assumed on the basis of these figures, taking into account that the males are smaller than the females.

The limit given for the young can perhaps be rectified; it is here merely assumed in order to create a division between what we know positively to be young snakes and snakes ripe for propagation.







Length of the snakes in mm.

| Species | limits of the adult lengths | | limits of the half-grown lengths | | juveniles | K. | d. R. |
|---------------------------------------|-----------------------------|------------------------|----------------------------------|----------|-----------|---------|-------|
| | ♂ | ♀ | ♂ | ♀ | | | |
| <i>Xenodermus javanicus</i> | 501— 600, 611 | 551— 650, 673 | 351— 500 | 351— 550 | 216— 350 | 180—202 | 485 |
| <i>Polyodontophis geminatus</i> | 401— ? , 500 | 401— ? , 505 | 251— 400 | 251— 400 | — 250 | | 820 |
| <i>Dendrelaphis pictus</i> | 801—1200, 1290 | 801—1400, 1454 | 501— 800 | 501— 800 | 340— 500 | 202—303 | 1180 |
| <i>Dendrelaphis formosus</i> | 801— ? , 1073 | 801— ? , 1330 | 501— 800 | 501— 800 | 340— 500 | | 1420 |
| <i>Zaocys carinatus</i> | ? — ? , 2940 | ? — ? , 2320 | ? — ? | ? — ? | — 563 | | 3300 |
| <i>Natrix trianguligera</i> | 601— 775, 843 | 801—1000, 1038 | 351— 600 | 351— 800 | 210— 350 | | 1200 |
| <i>Natrix subminiata</i> | 471— 550, 580 | 551— 650, 681 | 351— 470 | 351— 550 | 180— 350 | 131—188 | 1060 |
| <i>Natrix chrysarcha</i> | 541— 700, 793 | 551— 750, 820 | 351— 540 | 351— 550 | 195— 350 | 148—220 | 766 |
| <i>Ptyas korros</i> | 1301— ? , 1920 | 1401— ? , 1770 | 701—1300 | 701—1400 | 355— 700 | 364—367 | 1780 |
| <i>Elaphe flavolineata</i> | 1301— ? , 1580 | 1401— ? , 2910 | 701—1300 | 701—1400 | 370— 700 | | 1800 |
| <i>Elaphe radiata</i> | 1301— ? , | 1401— ? , 1817 | 701—1300 | 701—1400 | 416— 700 | | 1610 |
| <i>Lycodon subcinctus</i> | 701— 800, 847 | 701—1000, 1050 | 526— 700 | 526— 700 | 249— 525 | 238— | 1000 |
| <i>Oligodon bitorquatus</i> | 276— 400, 431 | 276— 400, 417 | 201— 275 | 201— 275 | 119— 200 | | 370 |
| <i>Elapoides fuscus</i> | 401— 525, 551 | 411— 550, 573 | 301— 400 | 301— 410 | 154— 300 | | 470 |
| <i>Gongylosoma baliodeira</i> | 301— 400, 420 | 331— 400, 430 | 251— 300 | 251— 330 | 133— 250 | | 400 |
| <i>Changulia lumbricoidea</i> | 411— 475, 519 | 441— 550, 580 | 201— 410 | 201— 440 | 88— 200 | | 420 |
| <i>Changulia virgulata</i> | 276— ? , 327 | 276— ? , 382 | 201— 275 | 201— 275 | 161— 200 | | 440 |
| <i>Changulia multipunctata</i> | 201— 275, 289 | 251— 350, 357 | 166— 200 | 166— 250 | 97— 165 | 92—120 | 320 |
| <i>Boiga nigriceps</i> | 1001— ? , 1453 | 1101— ? , 1262 | 701—1000 | 701—1100 | 500— 700 | | 1650 |
| <i>Boiga multimaculata</i> | 501— ? , 709 | 501— ? , 650 | ? — 500 | ? — 500 | | 195— | 750 |
| <i>Boiga drapiezii</i> | 1201— ? , 1305 | 1201— ? , 1565 | 701—1200 | 701—1200 | 475— 700 | | 1524 |
| <i>Boiga jaspidea</i> | 901— ? , | 901— ? , 1247 | 601— 900 | 601— 900 | 397— 600 | 390—400 | 1400 |
| <i>Boiga cynodon</i> | 1201— ? , 2265 | 1201— ? , 1585 | 801—1200 | 801—1200 | 730— 800 | | 2450 |
| <i>Psammodynastes pulverulentus</i> | 351— 425, 550 | 401— ? , 481 | 251— 350 | 251— 400 | 130— 250 | 148—178 | 625 |
| <i>Ahaetulla prasina</i> | 1201—1400, 1480 | 1401—1700, 1757 | 751—1200 | 751—1400 | 435— 750 | 490— | 1790 |
| <i>Bungarus fasciatus</i> | 801— ? , | 801— ? , 1050 | 426— 800 | 426— 800 | 303— 425 | | 1450 |
| <i>Bungarus candidus</i> | 801— ? , | 801— ? , 1270 | 426— 800 | 426— 800 | | | 1080 |
| <i>Maticora bivirgata</i> | 861— ? , 1662 | 861— ? , | 576— 860 | 576— 860 | 319— 575 | | 1610 |
| <i>Maticora intestinalis</i> | 451— 650, 683 | 451— 550, 580 | 301— 450 | 301— 450 | 183— 300 | | 580 |
| <i>Haplopetura boa</i> | 601— 700, 788 | 601— 750, 756 | 401— 600 | 401— 600 | 328— 400 | 207—227 | 750 |
| <i>Amblycephalus laevis</i> | 301— ? , 381 | 301— ? , 390 | 201— 300 | 201— 300 | 126— 200 | | 545 |
| <i>Amblycephalus carinatus</i> | 526— 650, 690 | 551— 675, 723 | 301— 525 | 301— 550 | 211— 300 | 150—185 | 500 |
| <i>Trimeresurus albolabris</i> | — | — | — | — | — | 214—265 | 870 |
| <i>Trimeresurus puniceus</i> | 501— 580, 631 | 501— 650, 691 | 351— 500 | 351— 500 | 228— 350 | 180— | 792 |

Sex proportions—Number of eggs—Ratio of body length.

| Species | proportion | number of observ. | | proportion | number of eggs | | percentage of body length to actual length | |
|---------------------------------------|--------------|-------------------|-----|------------------|----------------|------|--|----------|
| | ♂:♀ (1) | (2) | (3) | ♂:♀ (4) | (5) | (6) | ♂ | ♀ (7) |
| <i>Xenodermus javanicus</i> | 34:66 | 58 | 75 | 44:56 | 2-4 | 2-5 | 62 | 64-65 |
| <i>Polyodontophis geminatus</i> | 55:45 | 20 | | | | 2-3 | 57-69 | 60-78 |
| <i>Dendrelaphis pictus</i> | 29:71 | 24 | 78 | 28.2:71.8 | 3-8 | 4-7 | 63-70 | 64-73 |
| <i>Dendrelaphis formosus</i> | | 7 | | | 6-8 | 5-6 | 63-68 | 67-69 |
| <i>Zaocys carinatus</i> | 44:56 | 84 | 54 | 35.2:64.8 | 5-8 | 5-11 | 66-69 | 66-68 |
| <i>Natrix subminiata</i> | 43:57 | 152 | 53 | 32.1:67.9 | 5-11 | 6-13 | 74-76 | 76-78 |
| <i>Natrix chrysarcha</i> | 41:59 | 250 | 42 | 50:50 | 3-10 | 2-7 | 73-75 | 74-76 |
| <i>Ptyas korros</i> | 48:52 | 23 | 82 | 53.7:46.3 | 6-11 | 6-9 | 65-70 | 64-72 |
| <i>Elaphe flavolineata</i> | 35:65 | 17 | 18 | 38.9:67.1 | 5 | 2-9 | 78-79 | 78-83 |
| <i>Elaphe radiata</i> | | 5 | 15 | 60:40 | 8-10 | 9 | 81 | 80-81 |
| <i>Lycodon subcinctus</i> | 25:75 | 16 | | | 5-7 | 10 | 80-81 | 81-82 |
| <i>Oligodon bitorquatus</i> | 51:49 | 43 | | | 3 | 3-4 | 81-85 | 85-87 |
| <i>Elapoides fuscus</i> | 51:49 | 863 | | | 2-4 | 1-7 | 72-73 | 74-75 |
| <i>Gongylosoma baliodeira</i> | 48:52 | 136 | | | 2-3 | 2-3 | 72-74 | 75-77 |
| <i>Changulia lumbricoidea</i> | 45:55 | 101 | | | | 1-6 | 93-94 | 95-96 |
| <i>Changulia virgulata</i> | 63:37 | 16 | | | 3 | 2-3 | 87-88 | 90-93 |
| <i>Changulia multipunctata</i> | 49:51 | 375 | | | 2-4 | 1-4 | 91-92 | 95-96 |
| <i>Boiga nigriceps</i> | | 4 | | | 3 | | 75-76 | 76 |
| <i>Boiga multimaculata</i> | | 7 | | | 4-5 | | 79-81 | 80-81 |
| <i>Boiga drapiezii</i> | | 10 | | | 4 | 6 | 75 | 73-77 |
| <i>Boiga jaspidea</i> | | 11 | | | 6 | | 73 | 73-76 |
| <i>Boiga cynodon</i> | | 3 | | | | | 76-78 | 76 |
| <i>Psammodynastes pulverulentus</i> | 61:39 | 18 | | | 5-10 | 4-6 | 80-82 | 84-86 |
| <i>Ahaetulla prasina</i> | 53:47 | 91 | | | 4-8 | 5-10 | 63-65 | 64-66 |
| <i>Bungarus fasciatus</i> | 42:58 | 19 | | | 11 | | 89-97 | 89-95 |
| <i>Bungarus candidus</i> | | 3 | | | | | 87 | 88 |
| <i>Maticora bivirgata</i> | | 6 | | | | | 89-90 | 91-92 |
| <i>Maticora intestinalis</i> | 48:52 | 38 | | | 2-3 | 2 | 94 | 95-96 |
| <i>Haplopeltura boa</i> | 37:63 | 65 | 28 | 25:75 | 5-8 | 2-5 | 65-66 | 68-69 |
| <i>Amblycephalus laevis</i> | 44:56 | 18 | | | | 2-4 | 82-84 | 86-88 |
| <i>Amblycephalus carinatus</i> | 40:60 | 95 | 75 | 34.7:65.3 | 3-8 | 2-9 | 76-77 | 80-81 |
| <i>Trimeresurus albolabris</i> | | | | | 3-17 | 5-19 | | |
| <i>Trimeresurus puniceus</i> | 39:61 | 18 | | | 12-33 | 10 | 83-84 | 85-87 |

To columns 1-2 of the above table:

To compare the author's figures with those of KOPSTEIN, the sex proportions of 15 or more observations were worked out, the outcome of more than a hundred observations being printed in bold type.

To columns 3-5:

For purposes of comparison the results published by the late Dr F. KOPSTEIN ¹⁾ are also given.

¹⁾ F. KOPSTEIN, "Ein Beitrag zur Eierkunde und Fortpflanzung der Malaiischen Reptilien". Bull. Raffles Mus. No. 14, Sept. 1938, p. 145 and 148. "Ein Beitrag zur Morphologie, Biologie und Ökologie von *Xenodermus javanicus* Reinhardt". Ibid. No 14, Sept. 1938, p. 168 etc.

SUPPLEMENT A.

Detailed notes on the material.

1. In view of the large number of specimens often caught in one day, and the limited time at my disposal, it was not possible to do more than determine the sex and measure the length of the body and of the tail.

Since it was not always possible to examine and prepare the snakes on the day they were captured, the exact date is not indicated, but only whether the specimen was taken in hand in the first or in the second half of the month. Care was taken, however, that at the end of each half month the material then available had been prepared.

2. The following signs have been used:

- F — full grown
- H — half grown
- O — fully developed eggs
- ½ — half developed egg
- . — eggs in early stage
- / — not pregnant.

3. The number of eggs is put within brackets.

4. The last figure in each list (males-females-juveniles) refers to the size of the body in proportion to the actual length, in percentages.

Natrix subminiata.

| No. | Males | No. | Females | No. | Juveniles |
|------|----------------|------|---------|---------------------------------|---------------------------------|
| 1938 | JAN. 1st half | | | | |
| 17 | 390+135=525 | F 74 | | | |
| 18 | 398+137=535 | F 74 | | | |
| | | | | 19 | JAN. 2nd half 250+84=334 75 |
| | FEBR. 1st half | | | | |
| 48 | 385+136=521 | F 74 | | | |
| 65 | 330+d. | H | | | |
| | 2nd half | | | | |
| 83 | 340+125=465 | H 73 | 84 | 2nd half (FEBR.) 415+128=543 | |
| | | | | — H 76 | |
| | | | | 147 | MARCH 2nd half 176+54=230 77 |
| | APRIL 1st half | | | | |
| 189 | 415+140=555 | F 75 | 190 | APRIL 1st half 440+d. | 166 235+80=315 75 |
| | | | | | 191 194+59=253 77 |
| | 2nd half | | | | |
| 213 | 334+114=448 | H 75 | 267 | 2nd half 415+122=537 | 214 205+63=268 77 |
| 235 | 400+143=543 | F 74 | | | |
| 238 | 395+130=525 | F 75 | | | |
| | MAY 1st half | | | | |
| 311 | 386+d. | F | 268 | MAY 1st half 430+136=566 | 312 240+84=324 74 |
| 352 | 375+137=512 | F 73 | 269 | 455+131=586 | (8) ½ 78 |
| | | | 309 | 450+137=587 | — F 77 |
| | | | 310 | 440+132=572 | — F 77 |
| | | | 351 | 485+d. | — F |
| | | | 353 | 462+d. | (8) ½ |

| No. | Males | | No. | Females | No. | Juveniles |
|------|----------------|---|-----|----------------|-------------|--------------------|
| 1938 | DEC. 1st half | | | DEC. 1st half | | DEC. 1st half |
| 2024 | 360+d. | F | | 2026 | 453+135=588 | 10 1/2 77 |
| 2025 | 364+126=490 | F | 74 | 2027 | 346+105=451 | - H 77 |
| 2130 | 273+80=353 | H | 77 | 2129 | 355+112=467 | - H 76 |
| 2131 | 400+d. | F | | | | |
| 2132 | 393+132=525 | F | 75 | | | |
| 2133 | 372+d. | F | | | | |
| | 2nd half | | | 2nd half | | 2nd half |
| 2191 | 395+d. | F | | 2134 | 482+141=623 | 13 O 77 |
| 2219 | 395+133=528 | F | 75 | 2192 | 322+100=422 | - H 76 |
| | | | | 2193 | 410+122=532 | - H 77 |
| | | | | 2194 | 480+d. | (7) 1/2 |
| | | | | | | |
| 2187 | | | | | | 2187 240+79=319 75 |
| | | | | | | 2188 171+51=222 77 |
| | | | | | | 2189 243+73=316 77 |
| | | | | | | 2190 256+85=341 75 |
| 1939 | JAN. 1st half | | | JAN. 1st half | | JAN. 1st half |
| 2383 | 385+129=514 | F | 75 | 2258 | 462+d. | 10 1/2 76 |
| | | | | 2281 | 413+134=547 | - H 76 |
| | | | | 2335 | 286+83=369 | - H 78 |
| | 2nd half | | | 2nd half | | 2nd half |
| | | | | | | 2338 145+45=190 76 |
| | | | | | | 2339 139+41=180 77 |
| | | | | | | 2340 144+41=185 78 |
| | FEBR. 1st half | | | FEBR. 1st half | | FEBR. 1st half |
| 2477 | 352+125=477 | F | 74 | | | 2478 257+80=337 76 |
| | | | | | | 2479 149+48=197 76 |
| | 2nd half | | | 2nd half | | 2480 157+d. |
| | | | | | | 2534 115+33=148 78 |
| | | | | | | 2570 133+48=181 73 |
| | MARCH 1st half | | | MARCH 1st half | | MARCH 1st half |
| 2621 | 390+133=523 | F | 75 | 2624 | 355+97=452 | - H 79 |
| 2622 | 340+115=455 | H | 75 | | | |
| 2623 | 335+105=440 | H | 76 | | | |
| 2751 | 337+116=453 | H | 74 | | | |
| | 2nd half | | | 2nd half | | 2nd half |
| | | | | 2752 | 345+d. | - H |
| | | | | 2815 | 320+99=419 | - H 76 |
| | | | | 2826 | 366+115=481 | - H 76 |
| | | | | 2827 | 332+d. | - H |
| | APRIL 1st half | | | APRIL 1st half | | APRIL 1st half |
| 2879 | 391+135=526 | F | 74 | 2889 | 405+124=529 | - H 77 |
| 2888 | 404+125=529 | F | 76 | | | 2880 126+38=164 77 |
| | 2nd half | | | 2nd half | | 2881 120+38=158 76 |
| 2985 | 323+108=431 | H | 75 | 2926 | 397+120=517 | - H 77 |
| 2986 | 335+118=453 | H | 74 | 2927 | 390+120=510 | - H 77 |
| 3004 | 365+117=482 | F | 76 | 2987 | 375+d. | - H |
| 3005 | 335+115=450 | H | 74 | 2988 | 430+132=562 | - F 77 |
| 3006 | 308+108=416 | H | 74 | 3008 | 447+d. | - F |
| 3007 | 335+d. | H | | 3009 | 385+116=501 | - H 77 |
| | MAY 1st half | | | MAY 1st half | | MAY 1st half |
| 3046 | 380+135=515 | F | 74 | 3102 | 416+131=547 | - H 76 |
| 3099 | 378+137=515 | F | 73 | | | 3047 143+37=180 79 |
| 3100 | 358+120=478 | F | 75 | | | |
| 3101 | 296+93=389 | H | 76 | | | |
| | 2nd half | | | 2nd half | | 2nd half |
| 3164 | 445+d. | F | | 3221 | 495+147=642 | 11 1/2 77 |
| 3165 | 314+92=406 | H | 75 | 3222 | 460+139=599 | (9) O 77 |
| | | | | 3223 | 409+123=532 | - H 77 |

Natrix chrysarcha.

| No. | Males | No. | Females | No. | Juveniles |
|------|----------------|------|-----------------|---------|-------------------|
| 1938 | JAN. 1st half | | JAN. 1st half | | JAN. 1st half |
| | | 16 | 360+115=475 | — H | 76 |
| | | 15 | 476+155=631 | (4) O | 75 |
| 36 | 2nd half | | 2nd half | | 2nd half |
| | 515+175=690 | F 75 | 35 493+174=667 | (4) O | 74 |
| | FEBR. 1st half | | FEBR. 1st half | | FEBR. 1st half |
| | | | 64 555+187=742 | — F | 75 |
| | 2nd half | | 2nd half | | 2nd half |
| | | | 82 550+180=730 | (5) . | 75 |
| 106 | MARCH 1st half | | MARCH 1st half | | MARCH 1st half |
| | 455+157=612 | F 74 | 92 550+d. | (3) 1/2 | |
| 146 | 2nd half | | 2nd half | | 2nd half |
| | 590+203=793 | F 74 | 143 643+d. | (5) . | 145 155+d. |
| | | | 144 498+135=633 | (4) O | 79 |
| | APRIL 1st half | | APRIL 1st half | | APRIL 1st half |
| | | | 192 425+137=562 | (4) . | 165 165+48=213 77 |
| | 2nd half | | 2nd half | | 2nd half |
| | | | 212 420+143=563 | — F | 75 |
| | | | 236 447+145=592 | — F | 76 |
| 266 | MAY 1st half | | MAY 1st half | | MAY 1st half |
| | 500+d. | F | 330 525+180=705 | (4) O | 74 |
| 332 | 498+185=683 | F 73 | 331 470+150=620 | — F | 76 |
| 333 | 462+d. | F | 336 540+186=726 | (6) O | 74 |
| 334 | 563+d. | F | 338 560+175=735 | — F | 76 |
| 335 | 455+158=613 | F 74 | | | |
| 337 | 435+d. | F | | | |
| | 2nd half | | 2nd half | | 2nd half |
| 339 | 300+102=402 | H 75 | 401 475+170=645 | (4) . | 399 163+50=213 77 |
| 400 | 485+d. | F | 402 493+d. | (4) . | |
| | | | 428 455+149=604 | — F | 75 |
| | | | 429 485+d. | (4) 1/2 | |
| | JUNE 1st half | | JUNE 1st half | | JUNE 1st half |
| 494 | 465+168=633 | F 73 | | | |
| 495 | 460+175=635 | F 72 | | | |
| 496 | 396+147=543 | F 73 | | | |
| 535 | 498+178=676 | F 74 | | | |
| 536 | 353+122=475 | H 74 | | | |
| 578 | 327+113=440 | H 74 | | | |
| 579 | 510+d. | F | | | |
| 580 | 450+165=615 | F 73 | | | |
| | 2nd half | | 2nd half | | 2nd half |
| 581 | 488+175=663 | F 74 | 583 433+d. | — F | 653 271+d. |
| 582 | 447+165=612 | F 73 | 584 394+127=521 | — H | 76 |
| 593 | 480+178=658 | F 73 | 585 545+185=730 | — F | 74 |
| 654 | 470+177=647 | F 73 | 586 440+145=585 | (3) O | 75 |
| 684 | 485+175=660 | F 73 | 655 534+182=716 | (5) . | 75 |
| 685 | 480+162=642 | F 75 | 656 540+190=730 | (5) . | 74 |
| 686 | 457+162=619 | F 74 | 657 480+d. | (3) 1/2 | |
| | | | 658 485+170=655 | (3) 1/2 | 74 |
| | | | 659 458+150=608 | (4) 1/2 | 75 |
| | | | 687 276+ 82=358 | — H | 77 |
| | | | 689 594+d. | (6) . | |
| | | | 690 495+165=660 | (5) . | 75 |
| | | | 691 464+d. | (3) . | |

| | No. | Males | | No. | Females | | No. | Juveniles | | | | |
|------|------|----------------|---|-----|----------------|-------------|---------|---------------|----------------|------------|------------|----|
| 1938 | | Nov. 1st half | | | Nov. 1st half | | | Nov. 1st half | | | | |
| | 1842 | 440+147=587 | F | 75 | 1853 | 605+d. | (4) 1/2 | 1843 | 163+47=210 | 78 | | |
| | 1850 | 487+d. | F | | 1854 | 457+d. | (4) 1/2 | | | | | |
| | 1851 | 448+155=603 | F | 74 | 1855 | 560+182=742 | (6) | 75 | | | | |
| | 1852 | 534+185=719 | F | 74 | 1856 | 507+166=673 | - | F | 75 | | | |
| | 1885 | 518+d. | F | | 1857 | 480+d. | - | / | | | | |
| | 1886 | 486+d. | F | | 1888 | 480+d. | - | / | | | | |
| | 1887 | 505+161=666 | F | 76 | 1889 | 482+152=634 | - | F | 76 | | | |
| | | | | | 1890 | 506+163=669 | (5) | 1/2 | 76 | | | |
| | | | | | 1891 | 405+137=542 | (3) | . | 75 | | | |
| | | 2nd half | | | 2nd half | | | | 2nd half | | | |
| | 1942 | 490+172=662 | F | 74 | 1892 | 483+160=643 | (3) | O | 75 | 1843 | 163+47=210 | 78 |
| | 1943 | 502+195=697 | F | 72 | 1893 | 485+160=645 | (4) | 1/2 | 75 | | | |
| | 1944 | 496+d. | F | | 1946 | 554+170=724 | (5) | 1/2 | 77 | | | |
| | | | | | 1947 | 466+161=627 | (4) | 1/2 | 74 | | | |
| | | | | | 1948 | 605+215=820 | (7) | 1/2 | 74 | | | |
| | | | | | 1949 | 468+157=625 | (3) | 1/2 | 75 | | | |
| | | | | | 1950 | 576+172=748 | (5) | O | 77 | | | |
| | | | | | 1951 | 455+d. | - | F | | | | |
| | | | | | 1952 | 446+d. | - | F | | | | |
| | | | | | 1984 | 496+170=666 | (3) | O | 74 | | | |
| | | | | | 2009 | 468+d. | - | / | | | | |
| | | | | | 2010 | 470+160=630 | - | / | 75 | | | |
| | | DEC. 1st half | | | DEC. 1st half | | | | DEC. 1st half | | | |
| | 2028 | 470+170=640 | F | 73 | 2029 | 507+d. | | F | 2122 | 153+48=201 | 76 | |
| | 2123 | 456+d. | F | | 2121 | 280+ 92=372 | | H | 75 | | | |
| | 2124 | 510+d. | F | | 2126 | 288+ 90=378 | - | H | 76 | | | |
| | 2125 | 480+167=647 | F | 74 | 2127 | 458+149=607 | (4) | 1/2 | 75 | | | |
| | | 2nd half | | | 2nd half | | | | 2nd half | | | |
| | | | | | 2128 | 453+158=611 | (3) | O | 74 | | | |
| | | | | | 2195 | 460+152=612 | (3) | O | 75 | | | |
| 1939 | | JAN. 1st half | | | JAN. 1st half | | | | JAN. 1st half | | | |
| | 2315 | 457+170=627 | F | 73 | 2317 | 557+191=748 | (4) | 1/2 | 74 | 2274 | 230+72=302 | 76 |
| | 2316 | 488+175=663 | F | 74 | 2318 | 495+168=663 | (4) | 1/2 | 75 | | | |
| | | | | | 2319 | 535+d. | (3) | . | | | | |
| | | | | | 2320 | 452+143=595 | - | F | 76 | | | |
| | | | | | 2333 | 344+112=456 | - | H | 75 | | | |
| | | 2nd half | | | 2nd half | | | | 2nd half | | | |
| | | | | | 2384 | 317+d. | - | H | 2334 | 165+53=218 | 76 | |
| | | FEBR. 1st half | | | FEBR. 1st half | | | | FEBR. 1st half | | | |
| | 2459 | 430+d. | F | | 2469 | 450+156=606 | - | F | 74 | 2460 | 241+72=313 | 77 |
| | | | | | 2470 | 363+122=485 | - | H | 75 | 2461 | 199+58=257 | 77 |
| | | | | | | | | | 2462 | 170+54=224 | 76 | |
| | | | | | | | | | 2471 | 172+52=224 | 77 | |
| | | | | | | | | | 2472 | 180+52=232 | 78 | |
| | | 2nd half | | | 2nd half | | | | 2nd half | | | |
| | 2535 | 470+169=639 | F | 74 | 2536 | 530+d. | (5) | 1/2 | 2571 | 224+69=293 | 76 | |
| | | | | | | | | | 2576 | 155+49=204 | 76 | |
| | | MARCH 1st half | | | MARCH 1st half | | | | MARCH 1st half | | | |
| | 2585 | 470+172=642 | F | 73 | 2588 | 508+d. | (4) | O | 2586 | 224+67=291 | 77 | |
| | 2722 | 481+172=653 | F | 74 | 2589 | 510+168=678 | (4) | O | 75 | 2587 | 142+45=187 | 76 |
| | 2723 | 535+189=724 | F | 74 | 2590 | 447+160=607 | (3) | O | 74 | 2703 | 135+42=177 | 76 |
| | | | | | 2591 | 443+147=590 | (3) | 1/2 | 75 | 2704 | 150+47=197 | 76 |
| | | | | | 2724 | 355+117=472 | - | H | 75 | 2725 | 132+38=170 | 78 |
| | | 2nd half | | | 2nd half | | | | 2nd half | | | |
| | 2796 | 525+172=697 | F | 75 | 2727 | 502+d. | (5) | . | 2726 | 171+54=225 | 76 | |
| | | | | | 2728 | 538+d. | (4) | O | 2800 | 163+52=215 | 76 | |

| No. | Males | No. | Females | No. | Juveniles |
|------|------------------|------|------------------------|------|----------------|
| 1939 | | 2797 | 494+160=654 (4) . 76 | | |
| | | 2798 | 340+117=457 — H 74 | | |
| | | 2799 | 289+ 92=381 — H 76 | | |
| | APRIL 1st half | | APRIL 1st half | | APRIL 1st half |
| 2890 | 503+177=680 F 74 | 2839 | 363+d. — H 76 | 2840 | 167+54=221 76 |
| 2891 | 416+149=565 F 74 | 2865 | 478+160=638 (3) 1/2 75 | | |
| | | 2892 | 432+147=579 — F 75 | | |
| | 2nd half | | 2nd half | | 2nd half |
| 2969 | 490+165=655 F 75 | 2912 | 598+185=783 (3) 1/2 76 | 3011 | 257+75=332 77 |
| 2970 | 560+d. F | 2971 | 505+160=665 (5) O 76 | 3012 | 216+68=284 76 |
| | | 2972 | 488+d. (4) O 3013 | 3013 | 173+50=223 78 |
| | | 3015 | 460+160=620 (2) O 74 | 3014 | 144+45=189 76 |
| | | 3016 | 452+156=608 — F 74 | | |
| | | 3017 | 385+129=514 — H 75 | | |
| | MAY 1st half | | MAY 1st half | | MAY 1st half |
| 3103 | 479+169=648 F 74 | 3041 | 523+178=701 (4) O 75 | 3044 | 262+81=343 76 |
| 3104 | 460+174=634 F 73 | 3042 | 483+163=646 — F 75 | 3045 | 143+46=189 76 |
| | | 3043 | 364+125=489 — H 74 | 3105 | 184+57=241 76 |
| | | 3106 | 490+d. ? / | | |
| | 2nd half | | 2nd half | | 2nd half |
| | | 3166 | 520+172=692 (4) O 75 | | |
| | | 3167 | 408+d. ? / | | |

Elapoides fuscus

| | | | | | |
|------|------------------|-----|------------------------|----|----------------|
| 1938 | JAN. 1st half | | JAN. 1st half | | |
| 10 | 340+d. F | 11 | 393+132=525 — F 75 | | |
| | | 11a | 350+d. — F | | |
| | | | 2nd half | | |
| | | 25 | 370+134=504 (3) O 74 | | |
| | | 26 | 355+d. (3) O | | |
| | | 27 | 342+120=462 (2) . 74 | | |
| | | 34 | 255+ 87=342 — 1/2 75 | | |
| | FEBR. 1st half | | FEBR. 1st half | | FEBR. 1st half |
| 40 | 338+126=464 F 73 | 41 | 360+138=498 (3) O 72 | 47 | 170+d. |
| 44 | 342+111=453 F 75 | 42 | 395+d. (3) O | 53 | 174+67=241 72 |
| 46 | 245+ 90=335 H 73 | 43 | 380+d. (4) 1/2 | 54 | 212+70=282 75 |
| 56 | 267+150=417 F 64 | 45 | 383+140=523 (4) . 73 | | |
| | | 51 | 355+126=481 (4) . 78 | | |
| | | 52 | 335+d. — F | | |
| | | 55 | 227+ 75=302 — H 75 | | |
| | | 57 | 348+114=462 — F 75 | | |
| | | 58 | 380+d. (4) 1/2 | | |
| | 2nd half | | 2nd half | | 2nd half |
| 60 | 250+ 90=340 H 74 | 62 | 259+ 92=351 — H 74 | 61 | 190+70=260 73 |
| 75 | 305+102=407 F 75 | 63 | 225+ 80=305 — H 74 | 74 | 210+60=270 78 |
| | | 69 | 395+130=525 (5) O 75 | 76 | 217+80=297 73 |
| | | 70 | 365+105=470 (4) 1/2 78 | | |
| | | 71 | 345+d. (3) O | | |
| | | 72 | 405+d. (3) 1/2 | | |
| | | 73 | 385+122=507 (3) O 76 | | |
| | MARCH 1st half | | MARCH 1st half | | MARCH 1st half |
| 88 | 365+d. F | 112 | 360+125=485 (4) 1/2 74 | 89 | 210+d. |
| 90 | 330+130=460 F 72 | 113 | 270+ 86=356 — H 76 | 91 | 155+50=205 74 |
| 97 | 290+d. H | | | 96 | 157+54=211 74 |
| | | | | 98 | 182+60=242 75 |
| | | | | 99 | 150+55=205 73 |

| No. | Males | | No. | Females | No. | Juveniles | | |
|------|-----------------|---|-----|----------|-----------------|-----------------|------------|----------|
| 857 | 283+111=394 | H | 72 | | | | | |
| 858 | 318+115=433 | F | 73 | | | | | |
| 859 | 313+120=433 | F | 72 | | | | | |
| | 2nd half | | | 2nd half | | 2nd half | | |
| 881 | 358+d. | F | | 865 | 400+136=536 | (1) O 75 908 | 212+69=281 | 75 |
| 882 | 363+140=503 | F | 72 | 866 | 430+143=573 | (5) O 75 949 | 203+78=281 | 72 |
| 883 | 330+128=458 | F | 72 | 867 | 325+111=436 | (3) . 75 | | |
| 897 | 354+132=486 | F | 73 | 868 | 398+130=528 | (4) O 75 | | |
| 898 | 364+139=503 | F | 72 | 869 | 381+129=510 | (4) 1/2 75 | | |
| 899 | 310+120=430 | F | 72 | 870 | 329+d. | (2) 1/2 | | |
| 900 | 286+110=396 | H | 72 | 871 | 354+120=474 | (4) . 75 | | |
| 901 | 315+122=437 | F | 72 | 872 | 322+d. | - F | | |
| 902 | 268+d. | H | | 873 | 309+106=415 | - F 74 | | |
| 903 | 386+148=534 | F | 72 | 874 | 349+127=476 | - F 73 | | |
| 904 | 317+d. | F | | 875 | 255+ 94=349 | - H 73 | | |
| 905 | 372+d. | F | | 884 | 335+116=451 | (4) / 74 | | |
| 906 | 287+d. | H | | 885 | 281+120=401 | - H 70 | | |
| 907 | 343+d. | F | | 909 | 234+ 78=312 | - H 75 | | |
| 916 | 293+110=403 | F | 72 | 910 | 366+115=481 | (3) . 76 | | |
| 947 | 328+122=450 | F | 73 | 911 | 392+d. | (3) 1/2 | | |
| 948 | 258+d. | H | | 912 | 407+128=535 | ? / 76 | | |
| 950 | 268+ 98=366 | H | 73 | 913 | 340+d. | (1) 1/2 | | |
| 951 | 318+120=438 | F | 73 | 914 | 300+105=405 | - H 74 | | |
| 952 | 353+133=486 | F | 73 | 915 | 285+100=385 | - H 74 | | |
| 976 | 355+148=503 | F | 71 | 953 | 318+111=429 | - F 74 | | |
| 977 | 283+102=385 | H | 74 | 954 | 269+ 97=366 | - H 73 | | |
| | | | | 955 | 258+ 89=347 | - H 74 | | |
| | | | | 956 | 376+121=497 | (2) . 76 | | |
| | | | | 957 | 386+125=511 | (4) . 76 | | |
| | | | | 958 | 410+122=532 | (4) 1/2 77 | | |
| | | | | 959 | 387+d. | (4) 1/2 | | |
| | | | | 960 | 383+128=511 | (4) . 75 | | |
| | AUGUST 1st half | | | | AUGUST 1st half | | | |
| 978 | 332+125=457 | F | 73 | 981 | 407+d. | (5) 1/2 980 | 130+42=172 | 76 |
| 979 | 230+ 85=315 | H | 73 | 1030 | 353+d. | (5) 1/2 982 | 215+77=292 | 74 |
| 983 | 320+134=454 | F | 70 | 1031 | 338+114=452 | (3) 1/2 75 1027 | 159+55=214 | 74 |
| 1020 | 298+112=410 | F | 73 | 1032 | 277+ 98=375 | - H 74 1028 | 176+59=235 | 75 |
| 1021 | 287+112=399 | H | 72 | 1033 | 285+ 98=383 | - H 74 1029 | 144+50=194 | 74 |
| 1022 | 364+146=510 | F | 71 | 1034 | 278+ 96=374 | - H 74 1077 | 159+55=214 | 74 |
| 1023 | 303+114=417 | F | 73 | 1036 | 245+d. | - H 1078 | 169+d. | |
| 1024 | 361+129=490 | F | 74 | 1037 | 268+d. | - H 1079 | 121+43=164 | 74 |
| 1025 | 319+126=445 | F | 72 | 1081 | 349+114=463 | - F 75 1080 | 217+72=289 | 75 |
| 1026 | 393+151=544 | F | 72 | 1082 | 340+d. | - F | | |
| 1035 | 320+122=442 | F | 72 | | | | | |
| 1038 | 226+ 90=316 | H | 71 | | | | | |
| 1071 | 330+122=452 | F | 73 | | | | | |
| 1072 | 385+151=536 | F | 72 | | | | | |
| 1073 | 357+150=507 | F | 70 | | | | | |
| 1074 | 296+112=408 | F | 73 | | | | | |
| 1075 | 253+100=353 | H | 72 | | | | | |
| 1076 | 225+d. | H | | | | | | |
| | 2nd half | | | | 2nd half | | | 2nd half |
| 1094 | 391+140=531 | F | 74 | 1083 | 325+100=425 | - F 76 1091 | 129+50=179 | 72 |
| 1095 | 300+113=413 | F | 73 | 1084 | 369+125=494 | - F 75 1099 | 217+77=294 | 74 |
| 1096 | 315+121=436 | F | 72 | 1085 | 331+117=448 | (2) 1/2 74 1100 | 208+75=283 | 73 |
| 1097 | 307+d. | F | | 1086 | 332+110=442 | (3) / 75 1101 | 208+67=275 | 76 |
| 1098 | 277+106=383 | H | 72 | 1087 | 346+120=466 | (4) 1/2 74 1102 | 153+51=204 | 75 |
| 1148 | 284+107=391 | H | 73 | 1088 | 371+d. | (4) . 1150 | 135+42=177 | 76 |
| 1149 | 254+ 99=353 | H | 72 | 1089 | 364+126=490 | (3) 1/2 74 1151 | 146+47=193 | 76 |
| 1183 | 329+123=452 | F | 73 | 1090 | 222+ 80=302 | - H 74 1152 | 144+49=193 | 75 |

| | No. | Males | | No. | Females | | No. | Juveniles | | | | |
|------|----------------|-------------|----|----------------|-------------|-------------|-----|-----------|----------------|------------|------------|----|
| 1938 | 1184 | 339+125=464 | F | 73 | 1103 | 328+115=443 | — | F | 74 | 1188 | 183+57=240 | 76 |
| | 1185 | 269+109=378 | H | 71 | 1104 | 376+122=498 | (5) | F | 76 | 1189 | 145+50=195 | 74 |
| | 1186 | 225+ 79=304 | H | 74 | 1105 | 315+109=424 | — | F | 74 | 1190 | 132+43=175 | 75 |
| | 1187 | 226+ 82=308 | H | 73 | 1153 | 341+115=456 | — | F | 75 | 1216 | 207+d. | |
| | 1200 | 320+126=446 | F | 72 | 1154 | 312+107=419 | — | F | 74 | 1217 | 153+53=206 | 74 |
| | 1201 | 360+140=500 | F | 72 | 1155 | 227+ 78=305 | — | H | 74 | 1218 | 159+58=217 | 73 |
| | 1202 | 355+d. | F | | 1191 | 322+115=437 | — | F | 74 | 1219 | 157+50=207 | 76 |
| | 1203 | 377+141=518 | F | 73 | 1192 | 335+115=450 | — | F | 74 | 1220 | 166+54=220 | 75 |
| | 1204 | 387+149=537 | F | 72 | 1193 | 354+117=471 | — | F | 75 | 1221 | 151+54=205 | 74 |
| | 1205 | 382+138=520 | F | 74 | 1194 | 354+120=474 | (3) | . | 75 | 1222 | 134+43=177 | 76 |
| | 1206 | 368+135=503 | F | 73 | 1225 | 370+122=492 | (4) | O | 75 | 1223 | 139+46=185 | 75 |
| | 1207 | 358+128=486 | F | 74 | 1226 | 386+d. | (4) | . | | 1224 | 128+42=170 | 75 |
| | 1208 | 254+ 92=346 | H | 73 | 1227 | 338+102=440 | (4) | 1/2 | 77 | | | |
| | 1209 | 325+d. | F | | 1228 | 385+d. | (4) | 1/2 | | | | |
| | 1210 | 235+ 82=317 | H | 74 | 1229 | 346+115=461 | (3) | . | 75 | | | |
| 1211 | 374+128=502 | F | 75 | 1230 | 372+125=497 | (3) | O | 75 | | | | |
| 1212 | 358+137=495 | F | 72 | 1231 | 402+139=541 | (3) | . | 74 | | | | |
| 1213 | 333+133=466 | F | 71 | 1232 | 338+108=446 | — | F | 76 | | | | |
| 1214 | 288+105=393 | H | 73 | 1233 | 312+d. | — | F | | | | | |
| 1215 | 262+100=362 | H | 72 | 1234 | 287+ 99=386 | — | H | 74 | | | | |
| | SEPT. 1st half | | | SEPT. 1st half | | | | | SEPT. 1st half | | | |
| 1297 | 301+115=416 | F | 72 | 1306 | 258+ 86=344 | — | H | 75 | 1304 | 158+51=209 | 76 | |
| 1298 | 291+108=399 | H | 73 | 1312 | 312+100=412 | — | F | 76 | 1305 | 132+43=175 | 75 | |
| 1299 | 345+135=480 | F | 72 | 1313 | 369+d. | — | F | | 1307 | 132+46=178 | 74 | |
| 1300 | 347+136=483 | F | 72 | 1314 | 333+114=447 | — | F | 74 | 1308 | 182+64=246 | 74 | |
| 1301 | 369+130=499 | F | 74 | 1315 | 338+108=446 | — | F | 76 | 1309 | 158+47=205 | 77 | |
| 1302 | 300+111=411 | F | 73 | 1316 | 370+116=486 | — | F | 76 | 1310 | 175+59=234 | 75 | |
| 1303 | 350+134=484 | F | 72 | 1317 | 340+d. | — | F | | 1311 | 196+66=262 | 75 | |
| 1341 | 330+132=462 | F | 71 | 1319 | 238+d. | — | H | | 1318 | 220+68=288 | 76 | |
| 1342 | 352+139=491 | F | 72 | 1320 | 350+114=464 | (3) | 1/2 | 75 | 1353 | 140+52=192 | 73 | |
| 1343 | 255+ 94=349 | H | 73 | 1321 | 366+128=494 | (4) | 1/2 | 74 | 1354 | 115+42=157 | 73 | |
| 1344 | 310+120=430 | F | 72 | 1322 | 375+d. | (4) | O | | 1355 | 126+40=166 | 76 | |
| 1345 | 267+105=372 | H | 72 | 1356 | 379+128=507 | (3) | O | 75 | 1376 | 169+61=230 | 73 | |
| 1346 | 315+127=442 | F | 71 | 1357 | 292+ 99=391 | — | H | 75 | 1377 | 158+56=214 | 74 | |
| 1347 | 282+114=396 | H | 71 | 1358 | 298+ 99=397 | — | H | 75 | 1378 | 141+d. | | |
| 1348 | 324+121=445 | F | 73 | 1359 | 366+120=486 | (4) | 1/2 | 75 | 1384 | 202+65=267 | 76 | |
| 1349 | 374+150=524 | F | 71 | 1360 | 392+d. | (4) | 1/2 | | 1408 | 203+68=271 | 75 | |
| 1350 | 368+141=509 | F | 72 | 1361 | 404+128=532 | (5) | 1/2 | 76 | 1409 | 225+69=294 | 77 | |
| 1351 | 298+112=410 | F | 73 | 1362 | 325+d. | (4) | 1/2 | | 1410 | 140+51=191 | 73 | |
| 1352 | 224+d. | H | | 1363 | 360+119=479 | (4) | 1/2 | 75 | 1411 | 142+46=188 | 76 | |
| 1367 | 369+d. | F | | 1364 | 369+124=493 | (4) | . | 75 | 1412 | 142+46=188 | 76 | |
| 1368 | 250+ 95=345 | H | 72 | 1365 | 399+d. | (3) | . | | 1413 | 173+55=228 | 76 | |
| 1369 | 380+141=521 | F | 73 | 1366 | 374+124=498 | — | F | 75 | 1414 | 165+62=227 | 73 | |
| 1370 | 250+ 97=347 | H | 72 | 1379 | 334+118=452 | — | F | 74 | 1415 | 143+46=189 | 76 | |
| 1371 | 287+115=402 | F | 71 | 1380 | 316+106=422 | — | F | 75 | 1416 | 125+45=170 | 74 | |
| 1372 | 318+120=438 | F | 73 | 1381 | 265+ 88=353 | — | H | 75 | 1417 | 120+36=156 | 77 | |
| 1373 | 256+ 98=354 | H | 72 | 1382 | 283+106=389 | — | H | 73 | 1418 | 118+41=159 | 74 | |
| 1374 | 309+115=424 | F | 73 | 1383 | 298+ 97=395 | — | H | 75 | 1429 | 150+? | | |
| 1375 | 222+ 82=304 | H | 73 | 1407 | 223+ 79=302 | — | H | 74 | 1471 | 155+54=209 | 74 | |
| 1387 | 375+141=516 | F | 73 | 1419 | 287+ 96=383 | — | H | 75 | 1472 | 184+67=251 | 73 | |
| 1388 | 352+132=484 | F | 73 | 1420 | 253+ 89=342 | — | H | 74 | 1473 | 207+69=276 | 75 | |
| 1389 | 355+d. | F | | 1421 | 343+120=463 | (+) | . | 74 | 1474 | 184+63=247 | 74 | |
| 1390 | 392+147=539 | F | 73 | 1422 | 330+115=445 | (2) | O | 74 | 1498 | 139+52=191 | 72 | |
| 1391 | 348+135=483 | F | 72 | 1423 | 355+125=480 | (3) | O | 74 | 1499 | 126+47=173 | 73 | |
| 1392 | 348+134=482 | F | 72 | 1424 | 349+123=472 | (3) | O | 74 | 1500 | 123+46=169 | 73 | |
| 1393 | 323+125=448 | F | 72 | 1425 | 332+d. | (3) | 1/2 | | 1501 | 144+49=193 | 75 | |
| 1394 | 399+d. | F | | 1426 | 434+d. | (6) | O | | 1502 | 126+45=171 | 74 | |
| 1395 | 313+126=439 | F | 71 | 1427 | 374+125=499 | (3) | O | 75 | | | | |
| 1396 | 306+120=426 | F | 72 | 1428 | 336+d. | (3) | . | | | | | |
| 1397 | 295+105=400 | H | 74 | 1475 | 379+d. | (3) | 1/2 | | | | | |

| No. | Males | No. | Females | No. | Juveniles | | | | |
|------|---------------|------|---------------|-------------|---------------|----------|---------------|------------|----|
| 1938 | Nov. 1st half | | Nov. 1st half | | Nov. 1st half | | | | |
| 1812 | 300+115=415 | F 72 | 1819 | 225+ 79=304 | — H 74 | 1817 | 220+79=299 | 74 | |
| 1813 | 357+132=489 | F 73 | 1828 | 335+107=442 | — F 76 | 1818 | 215+70=285 | 75 | |
| 1814 | 320+114=434 | F 74 | 1829 | 281+d. | — H | 1820 | 156+55=211 | 74 | |
| 1815 | 264+ 95=359 | H 74 | 1830 | 309+105=414 | — F 75 | 1821 | 154+54=208 | 74 | |
| 1816 | 226+ 80=306 | H 74 | 1831 | 346+110=456 | — F 76 | 1822 | 158+55=213 | 74 | |
| 1834 | 352+137=489 | F 72 | 1832 | 413+141=554 | (?) / 75 | 1823 | 120+41=161 | 74 | |
| 1902 | 342+111=453 | F 76 | 1833 | 394+d. | (5) 1/2 | 1824 | 149+52=201 | 74 | |
| 1910 | 370+d. | F | 1839 | 308+112=420 | — F 73 | 1825 | 150+53=203 | 74 | |
| | | | 1906 | 371+122=493 | (?) / 75 | 1826 | 125+39=164 | 76 | |
| | | | 1907 | 392+d. | (4) 1/2 | 1827 | 120+43=163 | 74 | |
| | | | 1908 | 345+128=473 | — F 73 | 1903 | 185+65=250 | 74 | |
| | | | 1909 | 247+d. | — H | 1904 | 140+44=184 | 76 | |
| | | | 1911 | 324+104=428 | (2) 1/2 | 76 | 1905 | 132+45=177 | 75 |
| | 2nd half | | 2nd half | | | 2nd half | | | |
| 1957 | 359+136=495 | F 73 | 1974 | 407+135=542 | (4) 1/2 | 75 | 1967 | 217+77=284 | 76 |
| 1958 | 267+ 97=364 | H 73 | 1975 | 282+ 94=376 | — H 75 | 75 | 1968 | 207+77=284 | 73 |
| 1959 | 314+119=433 | F 72 | 1976 | 319+d. | — F | 75 | 1969 | 210+74=284 | 74 |
| 1960 | 335+128=463 | F 72 | 1977 | 280+ 95=375 | — H 75 | 75 | 1970 | 160+61=221 | 72 |
| 1961 | 298+108=406 | F 73 | 1986 | 411+140=551 | (6) O 75 | 75 | 1971 | 138+42=180 | 77 |
| 1962 | 355+d. | F | 2015 | 300+102=402 | — H 75 | 75 | 1972 | 161+52=213 | 76 |
| 1963 | 339+130=469 | F 72 | 2016 | 244+ 88=332 | — H 73 | 73 | 1973 | 146+48=194 | 75 |
| 1964 | 330+121=451 | F 73 | | | | | 2013 | 149+47=196 | 76 |
| 1965 | 345+136=481 | F 72 | | | | | 2014 | 129+42=171 | 75 |
| 1966 | 281+d. | H | | | | | 2017 | 195+63=258 | 76 |
| 2011 | 328+119=447 | F 73 | | | | | | | |
| 2012 | 313+115=428 | F 73 | | | | | | | |
| | DEC. 1st half | | DEC. 1st half | | | | DEC. 1st half | | |
| 2033 | 372+139=511 | F 73 | 2041 | 351+120=471 | (3) O 75 | 75 | 2035 | 198+72=270 | 73 |
| 2034 | 276+110=386 | H 72 | 2042 | 370+121=491 | (?) 1/2 | 75 | 2036 | 166+50=216 | 77 |
| 2055 | 320+d. | F | 2043 | 410+135=545 | (?) / 75 | 75 | 2037 | 165+55=220 | 75 |
| 2056 | 258+d. | H | 2044 | 346+d. | — F | 75 | 2038 | 149+46=195 | 76 |
| 2057 | 230+ 88=318 | H 72 | 2073 | 368+121=489 | (3) . 75 | 75 | 2039 | 139+45=184 | 75 |
| 2059 | 230+d. | H | 2074 | 327+d. | (3) . | 75 | 2040 | 119+36=155 | 77 |
| | | | 2075 | 345+115=460 | — F 75 | 75 | 2058 | 205+65=270 | 76 |
| | | | 2076 | 318+115=433 | — F 73 | 73 | 2060 | 212+77=289 | 73 |
| | | | 2077 | 301+104=405 | — H 74 | 74 | 2061 | 204+75=279 | 73 |
| | | | 2078 | 264+ 95=359 | — H 74 | 74 | 2062 | 177+53=230 | 77 |
| | | | 2079 | 267+ 93=360 | — H 74 | 74 | 2063 | 167+55=222 | 75 |
| | | | | | | | 2064 | 157+50=207 | 76 |
| | | | | | | | 2065 | 151+54=205 | 74 |
| | | | | | | | 2066 | 151+53=204 | 74 |
| | | | | | | | 2067 | 153+47=200 | 77 |
| | | | | | | | 2068 | 152+51=203 | 75 |
| | | | | | | | 2069 | 135+44=179 | 78 |
| | | | | | | | 2070 | 135+44=179 | 78 |
| | | | | | | | 2071 | 130+44=174 | 75 |
| | | | | | | | 2072 | 198+73=271 | 73 |
| | | | | | | | 2080 | 201+65=266 | 76 |
| | 2nd half | | 2nd half | | | | 2nd half | | |
| 2153 | 301+d. | F | 2155 | 379+115=494 | (3) O 77 | 77 | 2154 | 150+55=205 | 73 |
| 2157 | 343+105=448 | F 77 | 2156 | 432+137=569 | (4) O 76 | 76 | 2159 | 208+68=276 | 75 |
| 2158 | 286+100=386 | H 74 | 2167 | 337+126=463 | — F 73 | 73 | 2160 | 194+70=264 | 73 |
| 2228 | 394+d. | F | 2168 | 352+123=475 | — F 74 | 74 | 2161 | 186+68=254 | 73 |
| 2229 | 350+126=476 | F 73 | 2169 | 339+115=454 | — F 75 | 75 | 2162 | 127+43=170 | 75 |
| 2230 | 332+129=461 | F 72 | 2170 | 238+ 78=316 | — H 75 | 75 | 2163 | 180+62=242 | 74 |
| 2231 | 299+115=414 | F 72 | 2171 | 378+120=498 | (3) 1/2 | 76 | 2164 | 198+63=261 | 76 |
| 2232 | 270+107=377 | H 72 | 2172 | 326+115=441 | (3) O 74 | 74 | 2165 | 192+63=255 | 75 |
| 2233 | 250+ 97=347 | H 72 | 2234 | 364+125=489 | (2) 1/2 | 74 | 2166 | 117+44=161 | 73 |
| | | | 2235 | 355+119=474 | (3) 1/2 | 75 | | | |

| No. | | Males | | No. | | Females | | | | No. | | Juveniles | |
|------|----------------|-------|----|------|--|----------------|-----|-----|----|------|--|----------------|----|
| 1938 | | | | 2236 | | 325+116=441 | - | F | 74 | | | | |
| | | | | 2237 | | 290+ 91=381 | - | H | 76 | | | | |
| | | | | 2238 | | 385+d. | - | F | | | | | |
| 1939 | JAN. 1st half | | | | | JAN. 1st half | | | | | | JAN. 1st half | |
| 2286 | 330+125=455 | F | 72 | 2261 | | 330+119=449 | - | F | 73 | 2289 | | 212+68=280 | 72 |
| 2287 | 298+108=416 | F | 72 | 2262 | | 370+d. | (3) | O | | 2290 | | 161+d. | |
| 2288 | 224+ 85=309 | H | 72 | 2263 | | 358+121=479 | (5) | 1/2 | 75 | 2291 | | 152+50=202 | 75 |
| 2359 | 389+140=529 | F | 74 | 2292 | | 383+128=511 | (3) | 1/2 | 75 | | | | |
| | | | | 2293 | | 340+115=455 | - | F | 75 | | | | |
| | | | | 2294 | | 370+d. | - | F | | | | | |
| | | | | 2295 | | 269+ 93=362 | - | H | 74 | | | | |
| | | | | 2296 | | 252+ 84=336 | - | H | 75 | | | | |
| | | | | 2297 | | 252+ 80=332 | - | H | 76 | | | | |
| | 2nd half | | | | | 2nd half | | | | | | 2nd half | |
| 2360 | 381+d. | F | | 2367 | | 398+127=525 | (4) | / | 76 | 2362 | | 152+51=203 | 75 |
| 2361 | 348+130=478 | F | 73 | 2368 | | 427+d. | (5) | O | | 2363 | | 180+60=240 | 75 |
| 2392 | 386+150=536 | F | 72 | 2369 | | 292+102=394 | - | H | 74 | 2364 | | 159+54=213 | 75 |
| 2393 | 346+130=476 | F | 73 | 2370 | | 319+112=431 | - | F | 74 | 2365 | | 125+45=170 | 74 |
| 2394 | 322+136=458 | F | 70 | 2371 | | 330+d. | - | F | | 2366 | | 124+43=167 | 74 |
| 2395 | 325+128=453 | F | 72 | 2417 | | 390+125=515 | (3) | O | 76 | 2404 | | 208+69=277 | 75 |
| 2396 | 352+137=489 | F | 72 | 2418 | | 344+111=455 | (3) | . | 76 | 2405 | | 197+66=263 | 75 |
| 2397 | 332+132=464 | F | 72 | 2419 | | 358+130=488 | (4) | . | 73 | 2406 | | 218+71=289 | 75 |
| 2398 | 311+122=433 | F | 72 | 2420 | | 394+128=522 | (4) | . | 75 | 2407 | | 217+74=291 | 75 |
| 2399 | 327+130=457 | F | 72 | 2421 | | 365+d. | - | F | | 2408 | | 177+59=236 | 75 |
| 2400 | 268+d. | H | | 2422 | | 310+105=415 | - | F | 75 | 2409 | | 154+48=202 | 76 |
| 2402 | 241+ 92=333 | H | 72 | 2423 | | 319+105=425 | - | F | 75 | 2410 | | 173+75=230 | 75 |
| 2403 | 231+ 82=313 | H | 73 | 2424 | | 235+ 75=310 | - | H | 76 | 2411 | | 143+d. | |
| 2416 | 222+ 80=302 | H | 73 | 2425 | | 239+ 83=322 | - | H | 74 | 2412 | | 156+49=205 | 76 |
| | | | | 2426 | | 245+ 83=328 | - | H | 75 | 2413 | | 151+49=200 | 76 |
| | | | | 2427 | | 265+ 92=357 | - | H | 71 | 2401 | | 222+78=300 | 74 |
| | | | | 2428 | | 267+ 86=353 | - | H | 76 | 2414 | | 133+49=182 | 73 |
| | | | | | | | | | | 2415 | | 115+39=154 | 75 |
| | FEBR. 1st half | | | | | FEBR. 1st half | | | | | | FEBR. 1st half | |
| 2442 | 328+127=455 | F | 72 | 2451 | | 309+111=420 | - | F | 74 | 2444 | | 218+77=295 | 74 |
| 2443 | 342+d. | F | | 2452 | | 309+109=418 | - | F | 74 | 2445 | | 206+68=274 | 75 |
| 2490 | 308+112=420 | F | 73 | | | | | | | 2446 | | 186+68=254 | 74 |
| 2491 | 305+113=418 | F | 73 | | | | | | | 2447 | | 173+50=223 | 77 |
| 2492 | 312+112=424 | F | 74 | | | | | | | 2448 | | 172+57=229 | 75 |
| 2493 | 278+110=388 | H | 72 | | | | | | | 2449 | | 155+52=207 | 75 |
| 2494 | 228+ 81=309 | H | 74 | | | | | | | 2450 | | 142+d. | |
| 2505 | 378+148=526 | F | 72 | | | | | | | 2453 | | 203+66=269 | 75 |
| 2506 | 340+132=472 | F | 72 | | | | | | | 2495 | | 188+68=256 | 73 |
| 2507 | 328+d. | F | | | | | | | | 2496 | | 196+71=267 | 73 |
| 2508 | 248+ 97=345 | H | 72 | | | | | | | 2497 | | 221+70=291 | 76 |
| | | | | | | | | | | 2498 | | 169+57=226 | 75 |
| | | | | | | | | | | 2499 | | 150+50=200 | 75 |
| | | | | | | | | | | 2500 | | 161+51=212 | 76 |
| | | | | | | | | | | 2501 | | 177+52=229 | 77 |
| | | | | | | | | | | 2502 | | 129+46=175 | 74 |
| | | | | | | | | | | 2503 | | 129+43=172 | 75 |
| | | | | | | | | | | 2504 | | 119+37=156 | 76 |
| | | | | | | | | | | 2509 | | 216+84=300 | 72 |
| | | | | | | | | | | 2510 | | 189+60=249 | 76 |
| | | | | | | | | | | 2511 | | 218+70=288 | 76 |
| | | | | | | | | | | 2512 | | 182+57=239 | 76 |
| | | | | | | | | | | 2513 | | 162+60=222 | 73 |
| | 2nd half | | | | | 2nd half | | | | | | 2nd half | |
| 2545 | 379+d. | F | | 2515 | | 390+138=528 | (1) | O | 74 | 2514 | | 142+42=184 | 72 |

| No. | Males | No. | Females | No. | Juveniles |
|------|----------------|------|---------------------|-----|--------------------|
| 1939 | | | | | |
| 2546 | 358+d. F | 2516 | 362+122=484 (4) 1/2 | 75 | 2554 205+67=272 75 |
| 2547 | 338+127=465 F | 2517 | 283+ 95=378 H | 75 | 2555 186+63=249 75 |
| 2548 | 300+112=412 F | 2518 | 232+ 77=309 — H | 75 | 2556 138+48=186 74 |
| 2549 | 225+ 82=307 H | 2550 | 358+122=480 (3) O | 75 | 2557 129+42=171 75 |
| 2580 | 330+135=465 F | 2551 | 347+124=471 — F | 74 | |
| 2581 | 273+107=380 H | 2552 | 229+ 78=307 — H | 75 | |
| | | 2553 | 226+ 75=301 — H | 75 | |
| | | 2582 | 271+ 86=357 — H | 76 | |
| | | 2583 | 258+ 88=346 — H | 75 | |
| | MARCH 1st half | | MARCH 1st half | | MARCH 1st half |
| 2607 | 350+d. F | 2615 | 269+ 91=360 — H | 75 | 2612 189+d. 75 |
| 2608 | 342+131=473 F | 2616 | 310+117=427 — F | 73 | 2613 144+49=193 75 |
| 2609 | 318+126=444 F | 2646 | 238+ 77=315 — H | 76 | 2614 190+64=254 75 |
| 2610 | 353+d. F | 2647 | 408+142=550 (5) 1/2 | 74 | 2637 196+62=258 76 |
| 2611 | 253+ 95=348 H | 2648 | 351+122=473 (3) . | 74 | 2638 206+d. 75 |
| 2630 | 365+125=490 F | 2649 | 358+d. (3) / | | 2639 165+61=226 73 |
| 2631 | 327+122=449 F | 2650 | 408+131=539 (3) / | 76 | 2640 190+60=250 76 |
| 2632 | 338+134=472 F | 2651 | 366+d. (4) / | | 2641 158+55=213 74 |
| 2633 | 336+134=470 F | 2652 | 345+121=466 (4) . | 74 | 2642 145+48=193 75 |
| 2634 | 280+111=391 H | 2653 | 350+123=473 — F | 73 | 2643 142+48=190 75 |
| 2635 | 317+d. F | 2654 | 242+ 81=323 — H | 75 | 2644 124+43=167 74 |
| 2636 | 279+104=383 H | 2655 | 254+ 89=343 — H | 74 | 2645 203+69=272 75 |
| 2686 | 342+136=478 F | 2695 | 390+140=530 (3) 1/2 | 74 | 2691 205+75=280 73 |
| 2687 | 370+143=513 F | 2693 | 398+d. (5) O | | 2692 200+65=265 75 |
| 2688 | 285+120=405 F | 2697 | 240+ 87=327 — H | 74 | 2693 177+55=232 76 |
| 2689 | 285+108=393 H | 2698 | 280+ 99=379 -- H | 74 | 2694 155+57=212 73 |
| 2690 | 295+d. H | | | | |
| | 2nd half | | 2nd half | | 2nd half |
| 2731 | 320+120=440 F | 2740 | 404+125=529 (3) / | 76 | 2730 120+43=163 74 |
| 2732 | 345+135=480 F | 2741 | 380+d. (3) O | | 2733 225+75=300 75 |
| 2734 | 227+ 81=308 H | 2742 | 400+d. (4) O | | 2735 208+70=278 75 |
| 2762 | 377+d. F | 2743 | 396+135=531 (4) O | 75 | 2736 182+64=246 74 |
| 2763 | 325+123=448 F | 2744 | 378+d. — F | | 2737 169+57=226 75 |
| 2764 | 319+120=439 F | 2745 | 243+ 87=330 — H | 74 | 2738 151+52=203 74 |
| 2765 | 332+134=466 F | 2787 | 364+d. (3) . | | 2739 151+55=206 73 |
| 2766 | 322+124=446 F | 2788 | 364+d. (4) 1/2 | | 2778 209+78=287 73 |
| 2767 | 336+142=478 F | 2789 | 378+144=522 (4) 1/2 | 74 | 2779 185+65=250 74 |
| 2768 | 389+d. F | 2790 | 315+108=423 — F | 74 | 2780 189+67=256 74 |
| 2769 | 356+134=490 F | 2791 | 248+ 80=328 — H | 76 | 2781 134+45=179 74 |
| 2770 | 309+123=432 F | 2792 | 248+ 82=330 — H | 75 | 2782 115+42=157 73 |
| 2771 | 332+136=468 F | 2793 | 242+ 86=328 — H | 74 | 2783 151+49=200 76 |
| 2772 | 310+131=441 F | | | | 2784 144+52=196 73 |
| 2773 | 338+130=468 F | | | | 2785 170+60=230 74 |
| 2774 | 290+113=403 F | | | | 2786 168+58=226 74 |
| 2775 | 250+ 93=343 H | | | | 2794 205+64=269 76 |
| 2776 | 243+ 87=330 H | | | | 2822 144+46=190 76 |
| 2777 | 222+ 85=307 H | | | | |
| | APRIL 1st half | | APRIL 1st half | | APRIL 1st half |
| 2841 | 395+151=546 F | 2848 | 229+ 82=311 — H | 73 | 2843 215+75=290 74 |
| 2842 | 330+125=455 F | 2855 | 400+140=540 (4) O | 75 | 2844 186+70=256 73 |
| 2849 | 342+134=476 F | 2856 | 355+120=475 (3) 1/2 | 75 | 2845 200+70=270 74 |
| 2850 | 347+133=480 F | 2857 | 397+133=530 (5) O | 75 | 2846 164+54=218 75 |
| 2851 | 266+105=371 H | 2858 | 292+102=394 — H | 74 | 2847 145+43=188 77 |
| 2852 | 228+ 82=310 H | 2859 | 277+105=382 — H | 73 | 2853 127+46=173 73 |
| 2900 | 338+130=468 F | 2860 | 260+ 84=344 — H | 76 | 2854 168+60=228 74 |
| 2901 | 251+ 93=344 H | 2902 | 408+d. (4) O | | |
| | | 2903 | 355+130=485 (2) / | 73 | |
| | | 2904 | 292+105=397 — H | 74 | |
| | | 2905 | 311+100=411 — F | 76 | |

| | No. | Males | | No. | Females | | No. | Juveniles | | | | |
|------|-----|--------------|---|-----|--------------|-------------|---------|-----------|------|--------------|------------|----|
| 1939 | | 2nd half | | | 2nd half | | | 2nd half | | | | |
| 2907 | | 248+ 95=343 | H | 72 | 2910 | 368+133=501 | (3) 1/2 | 74 | 2934 | 167+57=224 | 75 | |
| 2908 | | 300+117=417 | F | 72 | 2937 | 377+d. | (3) | O | 2935 | 179+65=244 | 73 | |
| 2909 | | 370+140=510 | F | 73 | 2938 | 322+108=430 | - | F | 75 | 2936 | 160+51=211 | 76 |
| 2931 | | 290+102=392 | H | 74 | 2939 | 285+101=386 | - | H | 74 | 2951 | 201+75=276 | 73 |
| 2932 | | 248+d. | H | | 2940 | 288+ 97=385 | - | H | 75 | 2952 | 173+64=237 | 73 |
| 2933 | | 221+ 81=302 | H | 73 | 2941 | 260+ 92=352 | - | H | 74 | 2949 | 205+75=280 | 73 |
| 2944 | | 323+126=449 | F | 72 | 2942 | 258+ 85=343 | - | H | 75 | 2950 | 194+65=259 | 75 |
| 2945 | | 305+121=426 | F | 72 | 2943 | 250+ 81=331 | - | H | 75 | 2953 | 174+59=233 | 75 |
| 2946 | | 319+119=438 | F | 73 | 2959 | 346+d. | - | F | | 2954 | 156+57=214 | 73 |
| 2947 | | 300+114=414 | F | 72 | 2960 | 275+ 94=369 | - | H | 75 | 2955 | 160+55=215 | 74 |
| 2948 | | 251+ 90=341 | H | 74 | 2961 | 274+ 94=368 | - | H | 74 | 2956 | 168+59=227 | 74 |
| 3027 | | 360+145=505 | F | 71 | 3035 | 398+135=533 | (4) | O | 75 | 2957 | 127+43=170 | 75 |
| 3028 | | 338+135=473 | F | 71 | 3036 | 365+123=488 | (4) | . | 75 | 2958 | 123+39=162 | 76 |
| 3029 | | 240+ 86=326 | H | 74 | 3037 | 350+118=468 | (1) | O | 75 | 2962 | 220+75=295 | 75 |
| 3030 | | 266+ 97=363 | H | 73 | 3038 | 305+107=412 | - | F | 74 | 2963 | 226+74=300 | 75 |
| 3031 | | 345+d. | F | | 3039 | 330+112=442 | - | F | 75 | 3033 | 161+56=227 | 71 |
| 3032 | | 245+ 81=326 | H | 75 | 3040 | 243+ 83=326 | - | H | 75 | 3034 | 150+46=196 | 77 |
| | | MAY 1st half | | | MAY 1st half | | | | | MAY 1st half | | |
| 3056 | | 363+d. | F | | 3065 | 348+122=470 | (1) | / | 74 | 3061 | 220+75=295 | 75 |
| 3057 | | 330+129=459 | F | 72 | 3066 | 315+105=420 | (1) | 1/2 | 75 | 3062 | 226+61=287 | 79 |
| 3058 | | 348+138=486 | F | 72 | 3067 | 309+102=411 | - | F | 75 | 3063 | 183+57=240 | 76 |
| 3059 | | 285+103=388 | H | 73 | 3068 | 283+ 87=370 | - | H | 76 | 3064 | 144+48=192 | 75 |
| 3060 | | 328+125=453 | F | 72 | 3069 | 273+ 92=365 | - | H | 75 | 3072 | 212+67=279 | 76 |
| 3073 | | 238+ 95=333 | H | 71 | 3070 | 271+ 90=361 | - | H | 75 | 3130 | 226+74=300 | 75 |
| 3125 | | 292+108=400 | H | 73 | 3071 | 242+ 79=321 | - | H | 75 | 3131 | 193+70=263 | 73 |
| 3126 | | 325+133=458 | F | 71 | 3140 | 371+129=500 | (4) | 1/2 | 74 | 3132 | 191+67=258 | 74 |
| 3127 | | 285+115=400 | H | 71 | 3141 | 351+121=472 | (4) | O | 74 | 3133 | 195+62=257 | 76 |
| 3128 | | 311+d. | F | | 3142 | 379+133=512 | (4) | 1/2 | 74 | 3134 | 143+47=190 | 75 |
| 3129 | | 292+112=404 | F | 72 | 3143 | 283+103=386 | - | H | 73 | 3135 | 167+62=229 | 73 |
| | | | | | 3144 | 270+ 90=360 | - | H | 75 | 3136 | 181+62=243 | 74 |
| | | | | | 3146 | 220+ 89=309 | - | H | 71 | 3137 | 182+d. | |
| | | | | | | | | | | 3138 | 148+46=194 | 76 |
| | | | | | | | | | | 3139 | 120+44=164 | 73 |
| | | | | | | | | | | 3145 | 211+76=287 | 74 |
| | | 2nd half | | | 2nd half | | | | | 2nd half | | |
| 3168 | | 335+127=462 | F | 73 | 3177 | 378+125=503 | (4) | O | 75 | 3147 | 205+71=276 | 74 |
| 3169 | | 360+136=496 | F | 73 | 3178 | 372+123=495 | (4) | O | 75 | 3174 | 219+75=294 | 74 |
| 3170 | | 338+130=468 | F | 72 | 3179 | 385+d. | (4) | 1/2 | | 3176 | 203+73=276 | 74 |
| 3171 | | 304+117=421 | F | 72 | 3180 | 349+119=468 | (4) | . | 75 | 3198 | 213+81=294 | 73 |
| 3172 | | 300+115=415 | F | 72 | 3181 | 395+135=530 | (5) | O | 75 | 3199 | 153+54=207 | 74 |
| 3173 | | 363+d. | F | | 3182 | 384+127=511 | (5) | . | 75 | 3200 | 193+64=257 | 75 |
| 3175 | | 235+ 88=323 | H | 73 | 3183 | 310+112=422 | - | F | 73 | 3201 | 169+52=221 | 76 |
| 3187 | | 305+117=422 | F | 72 | 3184 | 275+ 90=365 | - | H | 75 | 3202 | 124+44=168 | 74 |
| 3188 | | 261+ 94=355 | H | 73 | 3185 | 250+d. | - | H | | 3203 | 160+54=214 | 75 |
| 3189 | | 307+d. | F | | 3186 | 233+ 78=311 | - | H | 75 | 3204 | 195+65=260 | 75 |
| 3190 | | 300+117=417 | F | 72 | 3207 | 255+ 86=341 | - | H | 75 | 3205 | 195+67=262 | 74 |
| 3191 | | 285+110=395 | H | 72 | 3208 | 345+121=466 | (4) | O | 74 | 3206 | 221+79=300 | 74 |
| 3192 | | 240+ 87=327 | H | 74 | 3209 | 400+137=437 | (4) | 1/2 | 75 | 3219 | 213+75=288 | 74 |
| 3193 | | 317+123=440 | F | 72 | 3210 | 356+129=485 | (3) | 1/2 | 73 | 3220 | 185+69=254 | 73 |
| 3194 | | 228+ 84=312 | H | 73 | 3211 | 330+ 99=429 | (3) | 1/2 | 77 | | | |
| 3195 | | 353+d. | F | | 3212 | 375+135=510 | - | F | 74 | | | |
| 3196 | | 253+ 93=346 | H | 73 | 3213 | 327+114=441 | (3) | . | 74 | | | |
| 3197 | | 323+125=448 | F | 72 | 3214 | 309+106=415 | - | H | 74 | | | |
| | | | | | 3215 | 293+100=393 | - | H | 75 | | | |
| | | | | | 3216 | 316+108=424 | - | F | 75 | | | |
| | | | | | 3217 | 279+ 93=372 | - | H | 75 | | | |
| | | | | | 3218 | 257+ 91=348 | - | H | 74 | | | |

Gongylosoma baliodeira

| No. | Males | No. | Females | No. | Juveniles | | | |
|------|-----------------|------|-----------------|------------------------|---------------|----------------|------------|----|
| 1938 | JAN. 1st half | | JAN. 1st half | | JAN. 1st half | | | |
| 20 | 283+108=391 | F 72 | | | | | | |
| | 2nd half | | 2nd half | | 2nd half | | | |
| 28 | 265+ 97=362 | F 73 | 29 | 273+ 80=353 (2) O 77 | 30 | 168+60=228 | 74 | |
| 38 | 265+100=365 | F 73 | | | | | | |
| | FEBR. | | FEBR. 1st half | | 49 | FEBR. 1st half | 78 | |
| | 2nd half | | 2nd half | | | 192+55=247 | | |
| | | | 77 | 285+ 82=367 (3) 1/2 78 | | 2nd half | | |
| | | | 78 | 300+ 53=353 (3) 1/2 85 | | | | |
| | MARCH 1st half | | MARCH | | | MARCH | | |
| 104 | 268+d. | F | | | | | | |
| 105 | 212+ 63=275 | H 77 | | | | | | |
| 123 | 305+110=415 | F 73 | | | | | | |
| | 2nd half | | 2nd half | | | 2nd half | | |
| 125 | 304+110=414 | F 73 | 124 | 260+ 80=340 (3) 1/2 76 | | | | |
| | APRIL 1st half | | APRIL 1st half | | | APRIL | | |
| | 2nd half | | 187 | 290+ 85=375 (2) 1/2 77 | | 2nd half | | |
| | | | 215 | 278+ 90=368 (3) O 76 | | | | |
| | | | 241 | 256+ 85=341 (3) O 75 | | | | |
| | MAY 1st half | | MAY 1st half | | 329 | MAY 1st half | 76 | |
| | 2nd half | | 2nd half | | | 189+59=248 | | |
| 397 | 237+ 86=323 | F 73 | 398 | 271+ 90=361 (2) . 75 | | 2nd half | | |
| 427 | 280+107=387 | F 73 | | | | | | |
| | JUNE 1st half | | JUNE | | | JUNE | | |
| 493 | 262+101=363 | F 72 | | | | | | |
| 555 | 294+ 85=379 | F 77 | | | | | | |
| 556 | 227+ 74=301 | F 75 | | | | | | |
| | 2nd half | | 2nd half | | | 2nd half | | |
| 605 | 300+109=409 | F 73 | 606 | 260+d. | — F | | | |
| 622 | 244+ 90=334 | F 73 | 623 | 303+d. | (3) O | | | |
| 676 | 265+102=367 | F 72 | 624 | 300+ 97=397 | (3) O 76 | | | |
| | | | 625 | 283+ 92=375 | (2) . 75 | | | |
| | JULY 1st half | | JULY 1st half | | | JULY 1st half | | |
| 752 | 270+ 91=361 | F 75 | 753 | 303+ 89=392 (3) 1/2 77 | 802 | 164+62=226 | 72 | |
| 841 | 246+ 87=333 | F 74 | 754 | 252+ 86=338 (2) . 75 | 803 | 188+60=248 | 76 | |
| 842 | 241+ 77=318 | F 76 | 755 | 302+ 92=394 — F 77 | 805 | 110+32=142 | 77 | |
| | | | 804 | 289+ 87=376 (2) . 77 | | | | |
| | | | 843 | 206+ 69=275 — H 75 | | | | |
| | | | 844 | 249+ 77=326 (3) 1/2 76 | | | | |
| | 2nd half | | 2nd half | | | 2nd half | | |
| 941 | 267+ 95=362 | F 74 | 944 | 285+ 70=355 ? / 80 | 886 | 100+35=135 | 74 | |
| 942 | 241+ 77=318 | F 76 | 945 | 270+ 77=347 (3) 1/2 78 | 943 | 171+57=228 | 75 | |
| | | | 946 | 257+ 80=337 (3) O 76 | | | | |
| | AUGUST 1st half | | AUGUST 1st half | | | AUGUST | | |
| 992 | 277+ 99=376 | F 74 | 994 | 265+ 84=349 (3) 1/2 76 | | | | |
| 993 | 252+ 97=349 | F 72 | 1010 | 296+ 90=386 — F 77 | | | | |
| 1008 | 260+ 97=357 | F 73 | 1011 | 259+ 87=346 — F 75 | | | | |
| 1009 | 256+ 94=350 | F 73 | | | | | | |
| | 2nd half | | 2nd half | | | 2nd half | | |
| | | | | | | 1169 | 179+67=246 | 73 |

| | No. | Males | | No. | Females | | No. | Juveniles | | | |
|------|------|----------------|---|-----|----------------|----------------|---------|----------------|------|---------------|----|
| 1938 | | SEPT. 1st half | | | SEPT. 1st half | | | SEPT. 1st half | | | |
| | 1280 | 234+ 84=318 | F | 74 | 1281 | 250+ 81=331 | - F | 76 | 1333 | 115+31=146 | 79 |
| | 1432 | 245+ 90=335 | F | 73 | 1430 | 215+ 71=286 | - H | 75 | 1334 | 118+33=151 | 78 |
| | 1433 | 260+ 92=352 | F | 74 | 1431 | 268+ 80=348 | (2) O | 77 | | | |
| | 1484 | 258+ 94=352 | F | 73 | 1434 | 283+d. | (3) 1/2 | | | | |
| | | 2nd half | | | | 2nd half | | | | 2nd half | |
| | 1486 | 255+ 92=347 | F | 73 | 1485 | 289+ 85=374 | (3) O | 77 | 1591 | 175+55=230 | 76 |
| | 1590 | 252+ 90=342 | F | 74 | 1487 | 296+d. | (2) 1/2 | | 1593 | 112+33=145 | 77 |
| | | | | | 1592 | 274+ 84=358 | (2) O | 76 | 1604 | 162+47=209 | 78 |
| | | | | | 1603 | 242+ 70=312 | - H | 78 | 1605 | 145+41=186 | 78 |
| | | Oct. 1st half | | | | Oct. 1st half | | | | Oct. 1st half | |
| | 1637 | 220+ 82=302 | F | 73 | 1646 | 269+ 85=354 | (2) 1/2 | 76 | 1638 | 170+52=222 | 77 |
| | 1642 | 252+ 91=343 | H | 73 | | | | | 1640 | 122+40=162 | 75 |
| | 1644 | 190+ 68=258 | F | 74 | | | | | 1641 | 128+40=168 | 77 |
| | 1685 | 209+ 77=286 | H | 73 | | | | | 1643 | 179+64=243 | 74 |
| | 1686 | 246+ 94=340 | F | 72 | | | | | 1645 | 181+55=236 | 77 |
| | | 2nd half | | | | 2nd half | | | | 2nd half | |
| | 1727 | 295+105=400 | F | 74 | 1741 | 282+ 82=364 | (2) 1/2 | 77 | | | |
| | | Nov. 1st half | | | | Nov. 1st half | | | | Nov. 1st half | |
| | 1844 | 262+ 92=354 | F | 74 | 1845 | 262+ 85=347 | (2) 1/2 | 76 | 1921 | 166+65=231 | 72 |
| | 1922 | 207+ 79=286 | H | 72 | 1846 | 230+ 80=310 | - H | 74 | | | |
| | | | | | 1923 | 283+ 95=378 | (3) . | 75 | | | |
| | | | | | 1924 | 233+ 76=309 | - H | 75 | | | |
| | | | | | 1925 | 218+ 70=288 | - H | 76 | | | |
| | | 2nd half | | | | 2nd half | | | | 2nd half | |
| | | | | | 1981 | 279+ 95=374 | (2) O | 75 | | | |
| | | DEC. 1st half | | | | DEC. 1st half | | | | DEC. 1st half | |
| | 2098 | 203+ 73=281 | H | 72 | 2052 | 300+ 99=399 | (3) . | 75 | 2102 | 100+33=133 | 75 |
| | | | | | 2099 | 236+ 80=316 | - H | 75 | | | |
| | | | | | 2100 | 268+ 89=357 | (2) 1/2 | 75 | | | |
| | | | | | 2101 | 212+ 64=276 | - H | 77 | | | |
| | | 2nd half | | | | 2nd half | | | | 2nd half | |
| | 2115 | 217+ 89=306 | F | 71 | 2245 | 289+ 80=369 | (3) O | 78 | 2114 | 168+60=228 | 74 |
| 1939 | | JAN. 1st half | | | | JAN. | | | | JAN. | |
| | 2276 | 268+ 92=360 | F | 74 | | | | | | | |
| | 2277 | 231+ 85=316 | F | 73 | | | | | | | |
| | | 2nd half | | | | 2nd half | | | | 2nd half | |
| | 2379 | 240+ 90=330 | F | 73 | 2378 | 320+103=423 | ? / | 76 | | | |
| | | FEBR. 1st half | | | | FEBR. 1st half | | | | FEBR. | |
| | 2482 | 275+114=389 | F | 71 | 2455 | 270+d. | (3) . | | | | |
| | 2529 | 247+ 77=324 | F | 76 | 2483 | 280+ 85=365 | (3) / | 77 | | | |
| | | | | | 2434 | 266+d. | (1) 1/2 | | | | |
| | | 2nd half | | | | 2nd half | | | | 2nd half | |
| | 2530 | 229+ 94=323 | F | 71 | 2531 | 300+d. | (2) O | | 2568 | 162+58=220 | 74 |
| | 2567 | 214+ 75=289 | H | 74 | 2569 | 210+ 67=277 | - H | 76 | | | |
| | | | | | 2578 | 283+ 84=367 | (2) 1/2 | 77 | | | |
| | | MARCH 1st half | | | | MARCH | | | | MARCH | |
| | 2685 | 225+ 86=311 | F | 72 | | | | | | | |
| | | 2nd half | | | | 2nd half | | | | 2nd half | |
| | 2747 | 280+100=380 | F | 74 | 2805 | 248+ 77=325 | (2) . | 76 | 2748 | 197+29=126 | 77 |
| | 2806 | 260+100=360 | F | 72 | | | | | 2807 | 112+38=150 | 75 |
| | | APRIL 1st half | | | | APRIL 1st half | | | | APRIL | |
| | 2873 | 263+108=371 | F | 71 | 2875 | 286+ 90=376 | (3) O | 76 | | | |
| | 2874 | 215+ 79=294 | H | 73 | | | | | | | |

| No. | Males | | | No. | Females | | | No. | Juveniles | | |
|------|--------------|---|----|------|--------------|-----|-----|-----|--------------|------------|----|
| 1939 | 2nd half | | | | 2nd half | | | | 2nd half | | |
| 2978 | 278+102=380 | F | 73 | 2979 | 273+ 91=364 | (2) | O | 75 | 2982 | 107+37=144 | 74 |
| 2998 | 300+120=420 | F | 71 | 2980 | 314+d. | (3) | 1/2 | | | | |
| 2999 | 235+ 90=325 | F | 72 | 2981 | 280+ 80=360 | — | F | 78 | | | |
| | | | | 3000 | 282+ 94=376 | — | F | 75 | | | |
| | MAY 2nd half | | | | MAY 2nd half | | | | MAY 2nd half | | |
| 3231 | 260+107=367 | F | 71 | 3153 | 245+ 71=316 | (2) | O | 77 | 3233 | 104+32=136 | 79 |
| 3232 | 265+ 95=360 | F | 71 | | | | | | | | |

Changulia lumbricoidea

| | | | | | | | | | | | |
|------|----------------|---|----|------|-----------------|-----|-----|----|----------------|---------------|----|
| 1938 | JAN. | | | 39 | JAN. 2nd half | | | | JAN. | | |
| | | | | | 483+21=506 | — | F | 96 | | | |
| | FEBR. | | | 80 | FEBR. 2nd half | | | | FEBR. | | |
| | | | | 81 | 460+23=483 | (2) | 1/2 | 95 | | | |
| | | | | | 460+21=481 | (3) | O | 96 | | | |
| | MARCH | | | | MARCH | | | | MARCH 1st half | | |
| | | | | | | | | | 95 | 170+10=180 | 92 |
| 162 | 2nd half | F | 93 | 168 | 2nd half | (2) | O | 95 | | | |
| | | | | | 423+23=446 | | | | | | |
| 184 | APRIL 1st half | H | 93 | 169 | APRIL 1st half | — | F | 95 | | | |
| | | | | | 500+25=525 | | | | | | |
| 219 | 2nd half | H | 93 | | | | | | | | |
| | | | | | | | | | | | |
| | MAY 1st half | | | | MAY | | | | | | |
| 276 | 360+30=390 | H | 92 | | | | | | | | |
| 277 | 393+29=422 | F | 93 | | | | | | | | |
| 325 | 450+34=485 | F | 93 | | | | | | | | |
| | | | | 392 | 2nd half | (3) | O | 96 | 423 | 2nd half | 92 |
| | | | | 422 | 430+20=450 | — | H | 96 | | 183+15=198 | |
| | | | | | 320+15=335 | | | | | | |
| 491 | JUNE 1st half | F | 93 | 490 | JUNE 1st half | (6) | 1/2 | 96 | | | |
| 549 | 405+29=434 | F | 93 | 550 | 474+21=495 | (4) | 1/2 | 95 | | | |
| 588 | 400+30=430 | F | 93 | | 470+25=495 | | | | | | |
| 588 | 440+35=475 | F | 93 | | | | | | | | |
| 589 | 410+32=442 | F | 93 | | | | | | | | |
| 492 | 187+14=201 | H | 93 | | | | | | | | |
| | 2nd half | | | | 2nd half | | | | | | |
| 618 | 395+29=424 | F | 93 | 619 | 200+10=210 | — | H | 95 | 590 | 2nd half | 94 |
| 693 | 350+23=373 | H | 94 | 620 | 390+20=410 | — | H | 95 | | 164+11=175 | |
| | | | | 621 | 445+20=465 | (4) | 1/2 | 96 | | | |
| | | | | | | | | | | | |
| 739 | JULY 1st half | F | 93 | 769 | JULY 1st half | (4) | . | 95 | 737 | JULY 1st half | 95 |
| 828 | 392+29=421 | H | 94 | 809 | 495+24=519 | (3) | O | 95 | 738 | 143+ 8=151 | 93 |
| 831 | 361+25=386 | F | 93 | | 525+25=550 | | | | 829 | 180+13=193 | 90 |
| 832 | 435+32=467 | F | 93 | | | | | | 830 | 79+ 9= 88 | 90 |
| | 405+30=435 | F | 93 | | | | | | | 93+10=103 | 90 |
| | 2nd half | | | | 2nd half | | | | | | |
| 890 | 387+28=415 | F | 93 | 833 | 508+25=533 | (1) | 1/2 | 95 | 894 | 2nd half | 95 |
| 924 | 215+13=228 | H | 94 | 891 | 539+26=565 | — | F | 95 | 932 | 184+10=194 | 94 |
| 933 | 205+14=219 | H | 94 | 892 | 477+20=497 | — | F | 96 | 1047 | 184+12=196 | 94 |
| | | | | 895 | 458+24=482 | (3) | 1/2 | 95 | 1265 | 177+12=189 | 94 |
| | | | | | | | | | | 185+ 8=193 | 96 |
| | AUGUST | | | 1000 | AUGUST 1st half | — | F | 96 | | AUGUST | |
| | | | | | 483+21=504 | | | | | | |

| | No. | Males | | No. | Females | | No. | Juveniles |
|------|------|----------------|------|------|----------------|---------|-----|--------------------|
| 1938 | | | | 1001 | 442+21=463 | — F | 95 | |
| | | | | 1002 | 288+14=302 | — H | 95 | |
| | | | | 1003 | 480+21=501 | (4) . | 96 | |
| | | 2nd half | | | 2nd half | | | 2nd half |
| | 1045 | 442+32=474 | F 93 | 1048 | 290+14=304 | — H | 95 | |
| | 1046 | 341+25=366 | H 93 | 1134 | 485+22=507 | (4) 1/2 | 96 | |
| | 1120 | 362+26=388 | H 93 | 1197 | 205+ 9=214 | — H | 96 | |
| | 1196 | 434+34=468 | F 93 | 1198 | 527+28=555 | (3) . | 95 | |
| | 1263 | 382+30=412 | F 93 | 1199 | 414+21=435 | — H | 95 | |
| | | | | 1238 | 453+25=478 | — F | 95 | |
| | | | | 1239 | 456+24=480 | (4) . | 95 | |
| | | | | 1240 | 466+23=489 | (4) 1/2 | 95 | |
| | | | | 1264 | 254+12=266 | — H | 95 | |
| | | SEPT. 1st half | | | SEPT. 1st half | | | SEPT. 1st half |
| | 1287 | 343+24=367 | H 93 | 1286 | 275+14=289 | — H | 95 | 1285 178+ 9=187 95 |
| | | | | 1288 | 492+24=516 | — F | 95 | 1335 180+ 9=189 95 |
| | | | | 1289 | 485+23=508 | (2) 1/2 | 95 | 1451 184+14=198 93 |
| | | | | 1290 | 337+36=373 | (2) . | 90 | |
| | | | | 1336 | 555+25=580 | (4) 1/2 | 96 | |
| | | 2nd half | | | 2nd half | | | 2nd half |
| | 1489 | 340+25=365 | H 93 | 1490 | 233+17=250 | — H | 93 | 1573 163+12=175 93 |
| | 1572 | 384+29=413 | F 93 | 1607 | 471+23=494 | (3) . | 95 | |
| | | OCT. 1st half | | | OCT. 1st half | | | OCT. 1st half |
| | | | | 1632 | 483+23=506 | — F | 95 | 1631 167+12=179 93 |
| | | | | 1671 | 304+16=320 | — H | 95 | |
| | | | | 1672 | 253+18=271 | — H | 93 | |
| | | | | 1673 | 264+13=277 | — H | 95 | |
| | | 2nd half | | | 2nd half | | | 2nd half |
| | | | | 1768 | 480+25=505 | ? / | 95 | 1719 178+13=191 94 |
| | | | | | | | | 1720 164+12=176 93 |
| | | | | | | | | 1745 185+ 9=194 95 |
| | | Nov. | | | Nov. 1st half | | | Nov. 1st half |
| | | | | 1796 | 536+29=565 | — F | 95 | 1797 138+11=149 92 |
| | | | | 1929 | 520+26=546 | (5) 1/2 | 95 | 1927 177+13=190 93 |
| | | | | | | | | 1928 162+ 8=170 95 |
| | | DEC. 1st half | | | DEC. 1st half | | | DEC. 1st half |
| | 2046 | 378+27=405 | H 93 | 2045 | 475+25=500 | — F | 95 | 2047 157+12=169 93 |
| | | 2nd half | | | 2nd half | | | 2nd half |
| | | | | 2144 | 211+10=221 | — H | 95 | 2143 176+12=188 93 |
| | | | | 2186 | 465+24=489 | — F | 95 | 2145 166+11=177 94 |
| 1939 | | JAN. | | | JAN. | | | JAN. 1st half |
| | | | | | | | | 2273 180+10=190 95 |
| | | 2nd half | | | 2nd half | | | 2313 164+ 8=172 95 |
| | 2386 | 451+33=484 | F 93 | | | | | 2nd half |
| | | FEBR. 1st half | | | FEBR. 1st half | | | FEBR. |
| | 2473 | 400+31=431 | F 93 | 2474 | 507+24=531 | — F | 95 | |
| | | 2nd half | | | 2nd half | | | 2nd half |
| | | | | 2541 | 433+20=453 | (4) . | 96 | |
| | | MARCH 1st half | | | MARCH 1st half | | | MARCH 1st half |
| | 2626 | 375+29=404 | H 93 | | | | | 2708 170+10=180 94 |
| | 2705 | 384+30=414 | F 93 | | | | | |
| | 2706 | 395+26=421 | F 94 | | | | | |
| | 2707 | 300+22=322 | H 93 | | | | | |

| No. | Males | No. | Females | No. | Juveniles |
|------|------------------------------|------|----------|------------------------------|------------|
| 1939 | 2nd half | | 2nd half | | 2nd half |
| 2809 | 360+28=388 | H 93 | | | |
| 2810 | 275+21=296 | H 93 | | | |
| 2828 | 485+34=519 | F 93 | | | |
| 2877 | APRIL 1st half 428+32=460 | F 93 | 2878 | APRIL 1st half 453+23=476 | (3) 1/2 95 |
| 2925 | 2nd half 350+25=375 | H 93 | 2984 | 2nd half 463+25=488 | (2) 1/2 95 |
| 2983 | 420+33=453 | F 93 | | | |
| 3117 | MAY 1st half 402+32=434 | F 93 | 3055 | MAY 1st half 500+24=524 | (3) . 95 |
| | | | 3118 | 500+22=522 | - F 96 |
| 3151 | 2nd half 390+28=418 | F 93 | | 2nd half | |

Changulia multipunctata

| | | | | | | | |
|------|------------------------------|------|-----|------------------------------|------------|-----|---------------------------|
| 1938 | | | 79 | FEBR. 2nd half 295+18=313 | (3) O 94 | | |
| 133 | MARCH 2nd half 180+20=200 | H 90 | 163 | MARCH 2nd half 294+10=304 | (1) 1/2 97 | | |
| 134 | 215+22=237 | F 91 | | | | | |
| 195 | APRIL 1st half 228+22=250 | F 91 | 185 | APRIL 1st half 280+11=291 | (1) 1/2 96 | | |
| | | | 186 | 268+12=280 | (2) . 96 | | |
| 264 | 2nd half 217+20=237 | F 91 | 216 | 2nd half 274+13=287 | - F 95 | | |
| | | | 265 | 285+12=297 | (3) O 96 | | |
| 359 | MAY 2nd half 245+25=270 | F 91 | 358 | MAY 2nd half 231+10=241 | - H 96 | | |
| 362 | 195+18=213 | F 91 | 360 | 160+ 8=168 | - H 95 | | |
| 364 | 198+21=219 | F 90 | 361 | 250+10=260 | (2) O 96 | | |
| 365 | 190+16=206 | F 92 | 363 | 287+13=300 | (3) . 96 | | |
| 446 | 237+25=262 | F 90 | 445 | 225+10=235 | (2) 1/2 96 | | |
| | | | 447 | 263+10=273 | (2) 1/2 96 | | |
| | | | 448 | 230+10=240 | - H 96 | | |
| 449 | JUNE 1st half 208+21=229 | F 9 | 475 | JUNE 1st half 293+14=307 | (4) 1/2 95 | | JUNE |
| 471 | 183+17=200 | H 92 | 476 | 270+13=283 | (2) 1/2 95 | | |
| 472 | 223+20=243 | F 92 | 540 | 280+13=293 | (2) . 96 | | |
| 473 | 225+21=246 | F 91 | | | | | |
| 474 | 180+15=195 | H 92 | | | | | |
| 497 | 223+20=243 | F 92 | | | | | |
| 500 | 200+19=219 | F 91 | | | | | |
| 503 | 207+21=228 | F 90 | | | | | |
| 538 | 248+22=270 | F 92 | | | | | |
| 539 | 210+20=230 | F 91 | | | | | |
| 598 | 2nd half 257+24=281 | F 91 | 572 | 2nd half 276+15=291 | (2) 1/2 95 | 599 | 2nd half 130+11=141 92 |
| 644 | 244+23=267 | F 91 | 592 | 277+11=288 | (3) . 96 | 600 | 131+ 5=136 96 |
| 645 | 175+14=189 | H 92 | 597 | 170+ 7=177 | - H 96 | 601 | 128+12=140 91 |
| 696 | 154+12=166 | H 92 | 594 | 287+14=301 | - F 95 | 647 | 98+ 9=107 91 |
| 698 | 190+17=207 | F 92 | 596 | 214+11=225 | - H 95 | | |
| 699 | 207+18=225 | F 92 | 602 | 280+15=295 | (3) . 95 | | |
| 700 | 205+20=225 | F 91 | 646 | 163+ 7=170 | - H 96 | | |

| | No. | Males | | No. | Females | | No. | Juveniles | | | |
|------|-----------------|------------|---|-----|-----------------|------------|---------|-----------|---------------|-----------------|----|
| 1938 | 701 | 210+20=230 | F | 91 | 648 | 339+15=354 | (5) . | 96 | | | |
| | 702 | 228+23=251 | F | 91 | 649 | 274+10=284 | (2) 1/2 | 96 | | | |
| | 703 | 240+23=263 | F | 91 | 650 | 310+14=324 | (3) . | 96 | | | |
| | | | | | 651 | 265+10=275 | (3) 1/2 | 96 | | | |
| | | | | | 695 | 185+ 8=193 | — H | 96 | | | |
| | | | | | 697 | 180+ 7=187 | — H | 96 | | | |
| | | | | | 704 | 270+13=283 | (3) 1/2 | 95 | | | |
| | | | | | 705 | 268+12=280 | (3) 1/2 | 96 | | | |
| | JULY 1st half | | | | JULY 1st half | | | | JULY 1st half | | |
| | 727 | 225+20=245 | F | 93 | 729 | 245+11=256 | (3) . | 96 | 681 | 125+10=135 | 93 |
| | 728 | 215+22=237 | F | 91 | 730 | 240+ 9=249 | (2) . | 96 | 835 | 92+ 9=101 | 91 |
| | 771 | 215+22=237 | F | 91 | 731 | 300+14=314 | (2) 1/2 | 96 | 836 | 115+11=126 | 91 |
| | 772 | 229+23=252 | F | 91 | 732 | 239+10=249 | — H | 96 | | | |
| | 773 | 220+21=241 | F | 91 | 733 | 222+ 9=231 | — H | 96 | | | |
| | 774 | 227+24=251 | F | 90 | 778 | 290+15=305 | (4) 1/2 | 95 | | | |
| | 775 | 241+21=262 | F | 92 | 779 | 305+15=320 | (4) 1/2 | 95 | | | |
| | 776 | 183+ 9=192 | H | 95 | 780 | 270+12=282 | (4) / | 96 | | | |
| | 777 | 196+18=214 | F | 92 | | | | | | | |
| | 834 | 186+ 9=195 | H | 95 | | | | | | | |
| | 837 | 230+20=250 | F | 92 | | | | | | | |
| | 2nd half | | | | 2nd half | | | | | 2nd half | |
| | 879 | 220+21=241 | F | 91 | 919 | 300+14=314 | (1) 1/2 | 96 | 917 | 130+10=140 | 93 |
| | 880 | 205+19=224 | F | 92 | 969 | 246+11=257 | — F | 96 | | | |
| | 918 | 197+18=215 | F | 92 | 970 | 250+13=263 | (2) 1/2 | 95 | | | |
| | 964 | 210+20=230 | F | 91 | | | | | | | |
| | 965 | 210+20=230 | F | 91 | | | | | | | |
| | 966 | 210+18=228 | F | 92 | | | | | | | |
| | 967 | 232+21=253 | F | 92 | | | | | | | |
| | 968 | 225+20=245 | F | 92 | | | | | | | |
| | AUGUST 1st half | | | | AUGUST 1st half | | | | | AUGUST 1st half | |
| | 986 | 222+22=244 | F | 91 | 988 | 264+11=275 | (1) 1/2 | 96 | 987 | 100+ 9=109 | 92 |
| | 1053 | 233+20=253 | F | 92 | 989 | 240+10=250 | (2) . | 96 | 1056 | 119+ 5=124 | 96 |
| | 1054 | 257+24=281 | F | 91 | 990 | 287+12=299 | (3) 1/2 | 96 | | | |
| | 1057 | 192+18=210 | F | 91 | 1014 | 277+11=288 | — F | 96 | | | |
| | | | | | 1055 | 207+ 9=216 | — H | 96 | | | |
| | | | | | 1058 | 298+12=310 | — F | 96 | | | |
| | 2nd half | | | | 2nd half | | | | | 2nd half | |
| | 1107 | 212+20=232 | F | 91 | 1060 | 268+12=280 | (2) 1/2 | 96 | 1059 | 126+10=136 | 93 |
| | 1139 | 195+18=213 | F | 92 | 1061 | 239+12=251 | (1) . | 95 | 1141 | 109+ 9=118 | 92 |
| | 1140 | 204+18=222 | F | 92 | 1062 | 290+13=303 | (3) . | 96 | 1142 | 109+ 5=114 | 96 |
| | 1171 | 230+20=250 | F | 92 | 1063 | 284+14=298 | (2) 1/2 | 95 | 1235 | 126+11=137 | 92 |
| | 1172 | 233+21=254 | F | 92 | 1143 | 170+ 7=177 | — H | 96 | 1255 | 111+10=121 | 92 |
| | 1173 | 224+21=245 | F | 91 | 1144 | 300+12=312 | (3) O | 96 | 1256 | 112+ 5=117 | 96 |
| | 1236 | 190+16=206 | F | 92 | 1170 | 190+ 7=197 | — H | 96 | | | |
| | 1246 | 226+20=246 | F | 92 | 1174 | 306+15=321 | (3) 1/2 | 95 | | | |
| | 1247 | 215+23=238 | F | 90 | 1175 | 290+13=303 | (3) O | 96 | | | |
| | 1248 | 225+22=247 | F | 91 | 1176 | 254+12=266 | (2) . | 95 | | | |
| | 1249 | 216+20=236 | F | 91 | 1177 | 265+12=277 | ? / | 96 | | | |
| | 1250 | 186+17=203 | F | 92 | 1237 | 250+12=262 | — F | 95 | | | |
| | 1251 | 218+20=238 | F | 92 | 1257 | 317+12=329 | — F | 96 | | | |
| | 1252 | 175+17=192 | H | 91 | 1258 | 306+13=319 | (4) 1/2 | 96 | | | |
| | 1253 | 200+18=218 | F | 92 | 1259 | 280+12=292 | (4) O | 96 | | | |
| | 1254 | 156+13=169 | H | 92 | 1260 | 248+12=260 | (2) 1/2 | 95 | | | |
| | | | | | 1261 | 303+12=315 | (4) 1/2 | 96 | | | |
| | | | | | 1262 | 245+11=256 | (2) 1/2 | 96 | | | |
| | SEPT. 1st half | | | | SEPT. 1st half | | | | | SEPT. 1st half | |
| | 1291 | 203+19=222 | F | 91 | 1294 | 266+11=277 | (2) . | 96 | 1454 | 103+ 8=111 | 93 |
| | 1292 | 264+25=289 | F | 91 | 1295 | 296+13=309 | (3) 1/2 | 96 | 1455 | 116+ 9=125 | 93 |

| 1938 | No. | Males | | No. | Females | | | | No. | Juveniles | | |
|------|---------------|------------|---|-----|---------------|------------|-----|-----|-----|---------------|------------|----|
| | | | | | | | | | | | | |
| | 1293 | 235+20=255 | F | 92 | 1296 | 272+13=285 | — | F | 95 | | | |
| | 1337 | 233+23=256 | F | 91 | 1339 | 274+10=284 | (3) | 1/2 | 96 | | | |
| | 1338 | 200+18=218 | F | 92 | 1340 | 283+14=297 | (3) | . | 95 | | | |
| | 1452 | 219+23=242 | F | 90 | 1456 | 315+14=329 | (3) | 1/2 | 95 | | | |
| | 1453 | 242+23=265 | F | 91 | 1457 | 265+12=277 | (3) | . | 96 | | | |
| | 1491 | 225+21=246 | F | 91 | | | | | | | | |
| | 2nd half | | | | 2nd half | | | | | 2nd half | | |
| | 1492 | 250+22=272 | F | 92 | 1496 | 270+15=285 | (3) | 1/2 | 95 | | | |
| | 1493 | 213+21=234 | F | 91 | 1576 | 233+12=245 | — | H | 95 | | | |
| | 1494 | 224+21=245 | F | 91 | 1577 | 196+10=206 | — | H | 95 | | | |
| | 1495 | 227+22=249 | F | 91 | 1578 | 268+11=279 | — | F | 96 | | | |
| | 1574 | 217+23=240 | F | 90 | 1579 | 225+10=235 | — | H | 95 | | | |
| | 1575 | 230+21=251 | F | 92 | | | | | | | | |
| | OCT. 1st half | | | | OCT. 1st half | | | | | OCT. 1st half | | |
| | 1619 | 210+21=231 | F | 91 | 1620 | 285+13=298 | (2) | 1/2 | 96 | 1617 | 115+ 6=121 | 95 |
| | 1677 | 212+20=232 | F | 91 | 1621 | 323+15=338 | (4) | . | 96 | 1618 | 153+ 8=161 | 95 |
| | | | | | 1622 | 277+14=291 | (2) | . | 95 | | | |
| | | | | | 1623 | 258+13=271 | (2) | . | 95 | | | |
| | | | | | 1624 | 254+10=264 | (2) | . | 96 | | | |
| | | | | | 1625 | 267+14=281 | — | F | 95 | | | |
| | | | | | 1675 | 250+14=264 | — | F | 95 | | | |
| | | | | | 1676 | 325+16=341 | ? | / | 95 | | | |
| | 2nd half | | | | 2nd half | | | | | 2nd half | | |
| | 1678 | 198+18=216 | F | 91 | 1724 | 283+14=297 | (3) | . | 95 | | | |
| | 1721 | 220+23=243 | F | 91 | 1725 | 283+14=297 | (3) | 1/2 | 95 | | | |
| | 1722 | 230+22=252 | F | 91 | 1726 | 265+14=279 | (1) | 1/2 | 95 | | | |
| | 1723 | 185+17=202 | F | 91 | 1780 | 280+13=293 | (3) | . | 96 | | | |
| | 1743 | 235+22=257 | F | 91 | 1781 | 285+15=300 | (3) | / | 95 | | | |
| | 1744 | 213+20=233 | F | 91 | | | | | | | | |
| | 1777 | 174+16=190 | H | 92 | | | | | | | | |
| | 1778 | 226+22=248 | F | 91 | | | | | | | | |
| | 1779 | 230+24=254 | F | 91 | | | | | | | | |
| | Nov. 1st half | | | | Nov. 1st half | | | | | Nov. 1st half | | |
| | 1799 | 184+17=201 | F | 92 | 1798 | 270+13=283 | (4) | . | 95 | 1847 | 112+10=122 | 92 |
| | 1916 | 233+22=255 | F | 91 | 1848 | 307+14=321 | (2) | 1/2 | 96 | 1913 | 153+12=165 | 93 |
| | 1917 | 230+22=252 | F | 91 | 1849 | 252+12=264 | (2) | . | 95 | 1914 | 131+11=142 | 92 |
| | 1918 | 172+17=189 | H | 91 | 1912 | 178+ 9=187 | — | H | 95 | 1915 | 147+ 8=155 | 95 |
| | | | | | 1919 | 317+14=331 | (3) | . | 96 | | | |
| | | | | | 1920 | 276+11=287 | — | F | 96 | | | |
| | 2nd half | | | | 2nd half | | | | | 2nd half | | |
| | 1982 | 222+21=243 | F | 91 | | | | | | 1988 | 138+ 7=145 | 95 |
| | 1983 | 162+13=175 | H | 93 | | | | | | | | |
| | DEC. 1st half | | | | DEC. 1st half | | | | | DEC. 1st half | | |
| | 2049 | 190+20=210 | F | 90 | 2048 | 227+10=237 | — | H | 96 | 2050 | 147+ 6=153 | 96 |
| | 2081 | 230+22=252 | F | 91 | 2085 | 166+ 7=173 | — | H | 96 | 2084 | 118+11=129 | 91 |
| | 2082 | 235+22=257 | F | 91 | 2088 | 306+14=320 | (3) | O | 96 | 2086 | 153+ 6=159 | 96 |
| | 2083 | 190+19=209 | F | 91 | 2089 | 309+13=322 | (2) | . | 96 | 2087 | 115+ 5=120 | 96 |
| | | | | | 2090 | 293+12=305 | (4) | 1/2 | 96 | | | |
| | | | | | 2091 | 256+13=269 | — | F | 95 | | | |
| | 2nd half | | | | 2nd half | | | | | 2nd half | | |
| | 2146 | 250+23=273 | F | 92 | 2179 | 205+10=215 | — | H | 95 | 2150 | 131+ 5=136 | 96 |
| | 2147 | 201+20=221 | F | 91 | 2180 | 243+11=254 | (2) | O | 96 | 2151 | 101+ 9=110 | 92 |
| | 2148 | 209+19=228 | F | 91 | 2181 | 242+12=254 | — | F | 95 | 2152 | 128+ 5=133 | 96 |
| | 2149 | 180+15=195 | H | 92 | 2182 | 243+11=254 | — | F | 96 | 2176 | 152+13=165 | 92 |
| | 2173 | 237+22=259 | F | 91 | 2183 | 287+10=297 | (4) | 1/2 | 97 | 2177 | 110+ 5=115 | 96 |
| | 2174 | 159+12=171 | H | 93 | 2184 | 278+11=289 | (4) | O | 96 | 2178 | 149+14=163 | 91 |
| | 2175 | 210+18=228 | F | 92 | 2185 | 268+11=279 | (1) | O | 96 | 2225 | 131+ 6=137 | 95 |
| | | | | | 2226 | 190+ 9=199 | — | H | 95 | 2227 | 130+13=143 | 91 |

| | No. | Males | | No. | Females | | No. | Juveniles | | | | |
|------|------|----------------|---|-----|----------------|------------|---------|---------------|------|----------------|------------|----|
| 1939 | | JAN. 1st half | | | JAN. 1st half | | | JAN. 1st half | | | | |
| | 2264 | 260+26=286 | F | 91 | 2270 | 255+12=267 | (3) 1/2 | 96 | 2272 | 98+ 8=106 | 92 | |
| | 2265 | 215+22=237 | F | 91 | 2271 | 335+14=349 | (3) 1/2 | 96 | 2300 | 138+10=138 | 93 | |
| | 2266 | 234+20=254 | F | 92 | 2299 | 160+ 8=168 | - | H | 95 | 2301 | 116+ 4=120 | 97 |
| | 2267 | 198+17=215 | F | 92 | 2307 | 266+13=279 | (3) | . | 95 | 2302 | 125+ 6=131 | 96 |
| | 2268 | 181+15=196 | H | 92 | 2308 | 298+15=313 | (3) | . | 95 | 2303 | 102+ 9=111 | 92 |
| | 2269 | 207+18=225 | F | 92 | 2309 | 305+12=317 | (4) | . | 96 | 2304 | 135+ 6=141 | 96 |
| | 2298 | 218+20=238 | F | 91 | 2310 | 162+ 6=168 | - | H | 96 | 2305 | 90+ 7= 97 | 93 |
| | 2311 | 179+15=194 | H | 92 | | | | | 2306 | 117+10=127 | 92 | |
| | 2312 | 193+20=213 | F | 91 | | | | | | | | |
| | 2345 | 211+21=232 | F | 91 | | | | | | | | |
| | | 2nd half | | | 2nd half | | | | | 2nd half | | |
| | 2346 | 227+22=249 | F | 91 | 2353 | 170+ 7=177 | - | H | 96 | 2350 | 101+ 9=110 | 92 |
| | 2347 | 220+21=241 | F | 91 | 2354 | 309+14=323 | (4) | . | 96 | 2351 | 139+ 6=145 | 96 |
| | 2348 | 242+21=263 | F | 92 | 2355 | 257+10=267 | (2) | 1/2 | 96 | 2352 | 128+ 6=134 | 96 |
| | 2349 | 171+16=187 | H | 91 | 2356 | 250+11=261 | (2) | . | 96 | 2437 | 91+ 8= 99 | 92 |
| | 2429 | 231+21=252 | F | 92 | 2357 | 290+12=302 | (4) | 1/2 | 96 | | | |
| | 2430 | 235+24=259 | F | 91 | 2358 | 198+ 7=205 | - | H | 96 | | | |
| | 2431 | 229+19=248 | F | 92 | 2434 | 270+11=281 | (4) | O | 96 | | | |
| | 2432 | 214+21=235 | F | 91 | 2435 | 259+12=271 | - | F | 96 | | | |
| | 2433 | 188+18=206 | F | 91 | 2436 | 183+ 8=191 | - | H | 96 | | | |
| | | FEBR. 1st half | | | FEBR. 1st half | | | | | FEBR. 1st half | | |
| | 2489 | 216+19=235 | F | 92 | 2438 | 277+15=292 | (3) | 1/2 | 95 | 2439 | 148+12=160 | 93 |
| | 2519 | 248+24=272 | F | 91 | 2486 | 297+13=310 | - | F | 96 | 2440 | 150+12=162 | 93 |
| | 2520 | 232+24=256 | F | 91 | 2487 | 273+12=285 | (3) | 1/2 | 96 | 2441 | 135+12=147 | 92 |
| | 2521 | 200+22=222 | F | 90 | 2488 | 278+13=291 | (2) | . | 96 | | | |
| | 2522 | 195+18=213 | F | 91 | | | | | | | | |
| | | 2nd half | | | 2nd half | | | | | 2nd half | | |
| | 2523 | 180+18=198 | H | 91 | 2524 | 280+12=292 | (3) | . | 96 | 2527 | 118+ 6=124 | 95 |
| | 2558 | 213+22=235 | F | 91 | 2525 | 278+12=290 | (3) | . | 96 | | | |
| | 2559 | 212+20=232 | F | 91 | 2526 | 252+12=264 | (2) | O | 95 | | | |
| | 2560 | 183+18=201 | F | 91 | 2561 | 275+15=290 | (2) | 1/2 | 95 | | | |
| | | | | | 2562 | 295+14=309 | . | . | 95 | | | |
| | | | | | 2563 | 310+16=326 | (4) | 1/2 | 95 | | | |
| | | | | | 2564 | 310+17=327 | (4) | 1/2 | 95 | | | |
| | | | | | 2579 | 216+10=226 | - | H | 95 | | | |
| | | MARCH 1st half | | | MARCH 1st half | | | | | MARCH 1st half | | |
| | 2592 | 220+22=242 | F | 91 | 2598 | 163+ 8=171 | - | H | 95 | 2596 | 132+11=143 | 29 |
| | 2593 | 225+22=247 | F | 91 | 2599 | 180+ 8=188 | - | H | 95 | 2597 | 125+10=135 | 93 |
| | 2594 | 180+17=197 | H | 91 | 2600 | 253+14=267 | (2) | / | 95 | 2664 | 110+ 9=119 | 92 |
| | 2595 | 208+18=226 | F | 92 | 2601 | 285+13=298 | (3) | . | 95 | 2665 | 96+ 5=101 | 95 |
| | 2656 | 240+23=263 | F | 91 | 2602 | 282+16=298 | (4) | O | 95 | 2701 | 144+12=156 | 92 |
| | 2657 | 220+22=242 | F | 91 | 2603 | 236+13=249 | - | H | 95 | 2702 | 130+12=142 | 92 |
| | 2658 | 210+21=231 | F | 91 | 2604 | 232+11=243 | - | H | 95 | | | |
| | 2659 | 186+19=205 | F | 91 | 2605 | 223+11=234 | - | H | 95 | | | |
| | 2660 | 196+17=213 | F | 92 | 2606 | 280+ 9=289 | - | F | 97 | | | |
| | 2661 | 187+18=205 | F | 91 | 2666 | 276+14=290 | (3) | . | 95 | | | |
| | 2662 | 191+19=210 | F | 91 | 2667 | 293+15=308 | (2) | 1/2 | 95 | | | |
| | 2663 | 153+15=168 | H | 91 | 2668 | 255+10=265 | (2) | . | 96 | | | |
| | 2674 | 178+15=193 | H | 92 | 2669 | 240+11=251 | (2) | . | 96 | | | |
| | 2675 | 213+21=234 | F | 91 | 2670 | 241+10=251 | (2) | 1/2 | 96 | | | |
| | 2676 | 258+13=271 | F | 95 | 2671 | 268+12=280 | (1) | 1/2 | 96 | | | |
| | 2700 | 200+20=220 | F | 91 | 2672 | 242+11=253 | - | F | 96 | | | |
| | | | | | 2673 | 169+ 8=177 | - | H | 95 | | | |
| | | | | | 2699 | 275+12=287 | (4) | 1/2 | 96 | | | |
| | | 2nd half | | | 2nd half | | | | | 2nd half | | |
| | 2710 | 245+21=266 | F | 92 | 2714 | 240+10=250 | - | F | 96 | | | |
| | 2711 | 216+21=237 | F | 91 | 2715 | 225+12=237 | - | F | 95 | | | |
| | 2712 | 205+18=223 | F | 92 | 2716 | 265+13=278 | - | F | 95 | | | |

| | No. | Males | | No. | Females | | No. | Juveniles | | | | |
|------|------------|----------------|----|----------|----------------|------------|-----|-----------|------|------------|----------------|----|
| 1939 | 2713 | 181+16=197 | H | 92 | 2717 | 227+11=238 | — | F | 95 | | | |
| | 2801 | 228+22=250 | F | 91 | 2718 | 232+11=243 | — | F | 95 | | | |
| | 2802 | 216+20=236 | F | 92 | 2719 | 303+17=320 | (3) | O | 95 | | | |
| | 2803 | 195+19=214 | F | 91 | 2720 | 260+ 9=269 | (2) | 1/2 | 97 | | | |
| | | | | | 2721 | 242+11=253 | (2) | 1/2 | 96 | | | |
| | | | | | 2749 | 340+17=357 | — | F | 95 | | | |
| | | | | | 2823 | 186+ 9=195 | — | H | 95 | | | |
| | | APRIL 1st half | | | APRIL 1st half | | | | | | | |
| | 2836 | 220+21=241 | F | 91 | 2869 | 298+14=312 | (3) | . | 96 | 2838 | APRIL 1st half | 96 |
| | 2837 | 223+21=244 | F | 91 | 2870 | 263+12=275 | (3) | 1/2 | 96 | 2868 | 147+ 6=153 | 96 |
| | 2866 | 230+24=254 | F | 91 | 2871 | 272+11=283 | (2) | / | 96 | | 111+10=121 | 92 |
| | 2867 | 240+25=265 | F | 91 | 2872 | 211+10=221 | — | H | 95 | | | |
| | 2894 | 236+22=258 | F | 91 | | | | | | | | |
| | 2895 | 231+22=253 | F | 91 | | | | | | | | |
| | 2896 | 235+24=259 | F | 91 | | | | | | | | |
| | 2897 | 215+24=239 | F | 90 | | | | | | | | |
| | | 2nd half | | | 2nd half | | | | | | 2nd half | |
| | 2920 | 213+22=235 | F | 91 | 2975 | 256+11=267 | (2) | O | 96 | | | |
| | 2973 | 208+20=228 | F | 91 | 3023 | 305+16=321 | (3) | . | 95 | | | |
| | 2974 | 171+16=187 | H | 91 | 3024 | 264+12=276 | (3) | O | 96 | | | |
| | 3018 | 248+22=270 | F | 92 | 3025 | 251+11=262 | (3) | O | 96 | | | |
| | 3019 | 226+22=248 | F | 91 | 3206 | 185+ 8=193 | — | H | 96 | | | |
| | 3020 | 255+22=277 | F | 92 | | | | | | | | |
| | 3021 | 198+19=217 | F | 91 | | | | | | | | |
| | 3022 | 230+24=254 | F | 92 | | | | | | | | |
| | | MAY 1st half | | | MAY 1st half | | | | | | MAY | |
| | 3049 | 218+21=239 | F | 92 | 3051 | 284+13=297 | (3) | O | 96 | | | |
| | 3050 | 203+21=224 | F | 91 | 3052 | 283+10=293 | (1) | O | 97 | | | |
| 3107 | 235+22=257 | F | 91 | 3053 | 216+ 9=225 | — | H | 96 | | | | |
| 3108 | 156+16=172 | H | 91 | 3054 | 198+ 9=207 | — | H | 96 | | | | |
| | | | | 3109 | 328+15=343 | (3) | . | 96 | | | | |
| | | | | 3110 | 315+13=328 | (3) | / | 96 | | | | |
| | | | | 3111 | 310+15=325 | (3) | O | 95 | | | | |
| | | | | 3112 | 274+12=286 | (3) | / | 96 | | | | |
| | | | | 3113 | 272+13=285 | (3) | 1/2 | 95 | | | | |
| | 2nd half | | | 2nd half | | | | | | 2nd half | | |
| 3162 | 195+19=214 | H | 91 | 3114 | 258+10=268 | (2) | 1/2 | 96 | 3163 | 132+11=143 | 92 | |
| 3224 | 216+22=238 | F | 91 | 3115 | 258+12=270 | (2) | . | 96 | | | | |
| 3225 | 224+22=246 | F | 91 | 3116 | 225+13=238 | — | H | 95 | | | | |
| | | | | 3160 | 281+15=296 | (3) | / | 95 | | | | |
| | | | | 3161 | 292+13=305 | (3) | 1/2 | 96 | | | | |
| | | | | 3226 | 275+12=287 | — | F | 96 | | | | |