

NOTES ON MAMMALIA, REPTILES, Etc., LINWOOD, 1936.

(All data, unless qualified, refer to the fauna as observed on my ground here : heath, woodland, marsh and bog, with a pond and Dockens Water as the northern boundary. There is a hill and lower land with fox and badger earths on hill.)

MAMMALIA.

Badgers. January 17th have been, apparently, more quiescent than usual this winter. February 5th, signs of more activity. March 17th, the heaps of dry grass (entirely Purple Heath Grass, *Molinia caerulea*) which are to be noted throughout the active part of the year at the entrances to the "buries," are to be seen again. (These heaps represent their bedding, which is brought in and out for change and airing, or as accumulation for winter bedding and nesting, according to season.)

Fox. A vixen was barking in front of the house at 8 a.m. on January 24th, presumably a call to a dog fox. She went south over cultivated land, then turned north again, over our ground, crossed Dockens Water and went away over Ibsley Common to Whitefield's, barking the whole time. The incident seemed exceptional. On May 6th I saw four cubs, about seven weeks old, playing near their earth (one took refuge in a rabbit burrow and watched me from entrance). On May 7th the vixen saw me and uttered a warning bark, and but one cub was seen, apparently inquisitive !

Fox was barking, August 29th (9 a.m.) : unusual.

Field Vole. Was much scarcer than usual this summer. September 1st. It seems a very bad year for rodents. I have not seen the cats with a vole, rat or mouse, for weeks. September 13th. Cat caught an adult Field Vole, on 16th another, and on 17th. October 9th. One-third grown vole was caught, another on 10th and half-grown one on 15th, and later in the month voles, all young ones, were still being brought in plentifully. December 20th. Cats still bringing in voles rather freely.

Bank Vole. A full-grown one was caught by a cat on June 30th ; another three-fifth grown on July 5th. October 20th. A two-third grown one was caught by cat.

Common Shrew. October 12th. Common Shrew caught by cat.

Pigmy Shrew. Cat had one on October 27th.

Long-tailed Field Mouse. One brought in, three-quarter grown, on November 2nd. This is the first of the species that I have seen brought in for several weeks. On November 8th another was caught. December 20th. Cats still bringing in voles and field mice rather freely.

The Water Shrew occurs here.

REPTILES.

Grass Lizard (*Lacerta vivipara*), basking in sun, Wither Moor, Bournemouth, on March 2nd (Col. F. C. Fraser) : another (? same) on March 3rd (Col. F. C. Fraser). March 10th, two, Wither Moor, Bournemouth.

Sand Lizard (*Lacerta agilis*), two, Wither Moor, Bournemouth, March 10th (Col. F. C. Fraser). A cat catches the species, here, too often !

Adder (*Vipera berus*), one, Wither Moor, Bournemouth, March 10th (Col. F. C. Fraser). I saw one in Webb's Copse (woodland about 1 mile off) on June 11th, when I noted that they and Grass Snakes seemed scarce this season. Later on, here, I saw a cat and an adder preparing to pounce on the same vole ! On September 25th this cat killed an adder : judging from the position of the tooth-marks, it must have had the snake's head entirely within its mouth to inflict the fatal bite.

Slow Worm (*Anguis fragilis*). Has been very common here this season. Our cats catch them freely for sport. A pity !

Arachnida. Araneae. (*Pisaura mirabilis*). On February 20th a group of six, about one-third grown, were sunning themselves on a wall at 9.30 a.m.

F. H. HAINES.

January 26th, 1937.

ORNITHOLOGICAL REPORT FOR THE COUNTY OF HAMPSHIRE, 1936.

By the REV. F. C. R. JOURDAIN, M.A., M.B.O.U., F.Z.S., etc.

Meteorology.

IN drafting an Ornithological Report for the County for the year it is impossible to omit all reference to the meteorology, as bird life is so largely affected by it. I make no apology therefore for including some figures from returns of observations at Bournemouth and Fareham.

On the whole, it was a sunless and depressing year, not so much from the amount of actual rainfall, which was below the average, but from the small amount of sunshine registered, accompanied generally with rather lower temperatures, and overcast skies. At Bournemouth the total amount of sunshine recorded during the year was 1,529 hours 57 minutes, as against 1,829 hours 48 minutes in 1935. The total rainfall on the other hand was only 30.33 inches at Bournemouth, and 31.12 inches at Fareham, and the mean temperature at Bournemouth was 49° 9'. The wettest month was January (5.48 inches at Bournemouth and 5.05 at Fareham), while June, July, September, November and December were also wet months. May and August were dry and bright.

The south-westerly gales of the 6th—8th November brought various storm-driven pelagic species to the County, but on the whole the autumn was mild and there was little frost on the South Coast till about November 19th and 20th.

Systematic List.

Raven (*Corvus c. corax*). The only part of the County where this bird breeds is the Isle of Wight, but it constantly is to be seen near the coast and estuaries between the Isle of Wight and the Purbeck cliffs. The fact that already in Dorset it has taken to nesting in trees, as it now does regularly in the West of England and Wales, points to a time when it will attempt to colonize our woodlands in the same way. Noted inland: one at Linwood, February 19th (F H H): three among pines on St. Katharine's Hill in mid-January (C P): one flying over the Square, Bournemouth, January 27th (K S), and one flying over Southbourne, March 6th (F J).

Hooded Crow (*C. c. cornix*). One at Beaulieu, December 20th (K S).

Rook (*C. f. frugilegus*). About the end of May or early June there is annually an invasion of Rooks, lasting about three weeks, in Linwood district, where normally there are none. Presumably when no longer restricted to the breeding area, fresh areas are worked for cockchafer and tipulid larvae and imagines (F H H).

Jay (*Garrulus g. rufitergum*). Noted as very destructive to garden peas at Old Bursledon (K N). Still as numerous as ever in Norman Court woods in February after the great autumn immigration of 1935. Though some apparently disappeared in spring, residents were more numerous than ever, and committed depredation among small birds (W).

Magpie (*Pica p. pica*). A great assemblage was observed on September 19th at about 5 p.m. among elm trees alongside a strawberry field at Bursledon, some feeding on the ground, while the trees were dotted with them. They were evidently much excited and in continual movement. Not seen or heard in numbers before or since (K N). These ceremonial gatherings are not connected with migration, but are usually noticed in autumn and are apparently associated with pairing activities.

Golden Oriole (*Oriolus o. oriolus*). One seen May 10th by Miss E. C. Wilson on a fence between Lower Chilland and Martyr Worthy seems to have been correctly identified from the description (H P F).

Hawfinch (*Coccothraustes c. coccothraustes*). Noticed at Beaulieu, January 12th, and again (a pair) on February 2nd (K S).

Goldfinch (*Carduelis c. britannica*). Two seen in Ocknell enclosure, the only birds actually seen in the Forest by B R. This was on October 16th. At Harbridge they have been common in autumn for nine years past, but not quite so numerous in the last two or three years, though a flock of about 50 was seen on September 25th (B R).

Lesser Redpoll (*Carduelis f. cabaret*). Thinly distributed all over N.E. Hants, breeding in Haslemere and neighbouring villages, Hindhead, Grayshott, Headley, etc. (H G). A few pairs breed in the gardens and parks of Bournemouth (F J).

Crossbill (*Loxia c. curvirostra*). This species presents many problems which as yet are quite unsolved. In N.E. Hants the last irruption was first noticed on July 28th, 1935. From thence onwards birds were observed daily in flocks of about 5 to 12 : maximum 26 on January 14th, 1936. Nest building was first noticed on February 26th, and subsequently sixteen nests were located : the latest on May 9th, when a hen was carrying grass to a nest, probably a second brood, as young had left a nest close at hand about the first week of April. By the end of June all had left, and none have been heard or seen since (H G). In the south of the County a somewhat similar state of things prevailed. The birds were present in fair numbers at the beginning of the year in the Bournemouth district and the New Forest. Several nests were found in April, but many birds seemed to be non-breeders, though young were seen on the wing in May and a large flock was reported from the New Forest in April. Now and then a bird or two occurred at intervals during the summer, but now they have apparently disappeared altogether as only a few were met with in the autumn (F J, K R) and none since October, except once on November 21st (F J).

Brambling (*Fringilla montifringilla*). Several noted in Bushey Bratley, January 10th, and again at the main road end of the ornamental drive, New Forest, on February 21st (B R).

Corn Bunting (*Emberiza calandra*). A party on telephone wires near Anna Valley : later flew South, September 3rd, perhaps migrating (W).

Cirl Bunting (*E. c. cirius*). One in full song, Mudeford, March 26th (C P). Several at Keyhaven, September 30th (B R).

Snow-Bunting (*Plectrophenax nivalis*). A male seen, together with other possible birds of the same species, at Beaulieu on November 1st (K S). These birds appeared on our E. Coast earlier than usual and in some numbers.

Woodlark (*Lullula a. arborea*). Numerous in N.E. Hants. An early nesting record of a nest with four eggs at Hindhead on March 24th (H G).

Yellow Wagtail (*Motacilla f. rayi*). Common in the valleys of Stour, Avon, and Test. In the last district cocks seem to arrive at least a fortnight before the hens (W P).

- Blue-headed Wagtail** (*Motacilla f. flava*). A male watched closely for some time on May 15th, which spent the time between Avon Beach, Mudeford, and the adjoining field (C P).
- Grey-headed Wagtail** (*M. f. thunbergi*). A male seen in a farmyard at Britford on April 15th agreed closely with the coloured plate of the Grey-headed Wagtail in Coward's book (I, pl. 44), except that the yellow collar shown in the figure was not noticed (B R). This point is not material, as it is unduly emphasized in the plate: more important was the absence of any perceptible eyebrow, either white or yellow. The date is early, even for a Blue-headed, and as the Grey-headed is a northern form one would expect to meet with it still later.
- White Wagtail** (*M. a. alba*). Two noted at Ibsley Bridge on February 12th (B R). One Stanpit Marsh, April 5th (K S).
- Grey Wagtail** (*M. c. cinerea*). A pair almost daily about the brook at Farley from June 17th to at least July 19th; also on returning on August 10th, but apparently did not nest here (B R). Probably one of the two or three pairs which breed at certain spots on the River Avon. One of these sites in a wall near the river contained on April 27th a typical nest, lined with white horsehair. In it were two well-fledged young Wagtails, one dead one and a young Robin! Robins also often breed in the same wall, and on a previous occasion the Wagtails had evidently appropriated the Robin's nest (P J). Possibly the Robin's nest had been destroyed while laying and the hen had laid in the adjacent nest.
- Great Tit** (*Parus m. newtoni*). A nest on June 10th in an iron fencing pipe at Upton (W).
- Firecrest** (*Regulus i. ignicapillus*). One caught and killed by a cat in Eastney Cemetery on March 23rd: taken to the Cumberland House Museum (G C).
- Coal Tit** (*P. a. britannicus*). As the distribution of the smaller Titmice in the County is imperfectly known, it is as well to put on record that in N.E. Hants, where there are extensive pine-woods, it is the commonest species and regularly double-brooded (H G). It is also common in the Bournemouth district, but not more so than the Great Tit (F J).
- Willow-Tit** (*P. a. kleinschmidti*). If it were not for its very characteristic notes it would be difficult to ascertain the status of this species, which in appearance is so like the Marsh Tit. In N.E. Hants it is widely distributed where suitable timber exists, but not very numerous: normal date for fresh eggs here about May 11th (H G). In the New Forest by no means common, but a pair or two here and there among the birches (F J).
- Marsh-Tit** (*P. p. dresseri*). Commoner in N.E. Hants than the Willow Tit, some pairs nesting close to one another. Breeding date rather earlier than Willow Tit, late April instead of early May (H G). Gets commoner as elevation increases and is almost the commonest Tit in the high ground north of the County near Andover (W P).
- Red-backed Shrike** (*Lanius c. collurio*). A pair with several young seen on July 10th near Mr. Poore's house, Dockens, New Forest, and another pair, also with young, near Hollyhatch Cottage, New Forest, the following day (B R). In N.E. Hants a few pairs breed on the commons, the number varying from year to year. More than usual were present in 1936 (H G). Apparently nesting near Penton Mewsey, July 17th (W).
- Waxwing** (*Bombicilla garrulus*). On February 9th, in very cold and windy weather, a Waxwing came down on the lawn, quite close to the window of Sir B. Egerton's house at Burton, attracted by food put out for birds. When alarmed, it flew up into a cedar (F J). One was also seen on April 7th, 12th to 19th, and 23rd in the garden at Hillstead, Basingstoke, usually in a large *Cotoneaster frigida*. It was very sluggish in its movements and generally in about the same place in the tree (R C).

- Pied Flycatcher** (*Muscicapa h. hypoleuca*). A male at Mudeford on April 19th (C P). These birds seem to work their way northward through England to their breeding grounds singly.
- Wood-Warbler** (*Phylloscopus sibilatrix*). Distribution irregular: in N.E. breeds only sparingly in certain favoured spots as a rule, but quite common in some years. Hardly any about in 1935 (H G).
- Grasshopper-Warbler** (*Locustella n. naevia*). A few breed on the commons in the N.E., numbers varying from year to year, but more than usual in 1936 (H G).
- Dartford Warbler** (*Sylvia u. dartfordiensis*). The dull summer of 1936 and absence of heath fires proved very advantageous to this species, which is in consequence now quite plentiful in Hants, though much burnt-out breeding ground in Dorset is still unoccupied. From the N.E. H G reports it as very numerous where the heather is suitable. Earliest nest seen on May 3rd and latest on July 17th. A pair was noticed on Hengistbury Head for some time late in February (Brewer) and there is strong evidence that a pair bred there later in the year (C P). 1936 was a very good year for these little Warblers.
- Wheatear** (*Oenanthe oe. oenanthe*). Diminution in numbers of passage migrants and residents noted for some years past in Test Valley: fewer than ever in 1936 (W P). However many more than usual passed through the New Forest and Keyhaven from September 10th to the end of the month. At least 50 noted in a two-mile walk at Keyhaven on September 22nd (B R). A pair evidently nesting near Castle Hill, Burley, June 14th (F H H).
- Whinchat** (*Saxicola r. rubetra*). The scarcity of this species as a breeder in Hants is surprising. A pair evidently nesting outside Studley, New Forest, on May 18th, the only breeding pair met with in the Forest. Occasionally seen on migration in the Forest: one on October 6th near Ocknell Pond and another at Bury Beeches on the 7th (B R). In N.E. Hants it is only a migrant, but according to J. Pook used to breed on the commons (H G).
- Black Redstart** (*Phoenicurus o. gibraltariensis*). One on Avon Beach, Mudeford, on March 21st (C P). Also one near the beach on November 20th (C P). A cock (very tame) seen at Downton, near Milton-on-Sea, on August 8th, a very early date, but now that this species breeds in S. England this must be expected (F W H).
- Sand-Martin** (*Riparia r. riparia*). Over 30 feeding on the tarred road near Ibsley Bridge on July 1st: noted previously feeding on the sands on the Suffolk coast (B R).
- Hoopoe** (*Upupa e. epops*). On May 15th a Hoopoe was flushed from the ground near a blackthorn thicket at Tidworth (Hants side of border) and settled again in the open. It was watched for some time through field glasses, and the weak flight, barred wings, long crest and curved bill with striking colouration of vinaceous brown and black all noted. It probed the ground like a Starling and finally rose and flew into the thicket (P J).
- Green Woodpecker** (*Picus v. virescens*). A paper on the winter roosting habits of this species based on observations at Bournemouth by Miss G. Bury, was published in the *Proc. Zool. Soc., Lond.*, 1936, pp. 251-256. The exact times of entering and leaving the nesting-box which was used as a winter roosting-place by a female for some years were carefully recorded, and prove what a surprisingly large portion of the day is spent in sleep during the winter, at certain periods reaching the remarkable figure of 17 hours (F J).
- Long-eared Owl** (*Asio o. otus*). Three pairs located in N.E. Hants (H G).
- Short-eared Owl** (*A. f. flammeus*). One flushed in the Newtown marshes, Isle of Wight, on January 19th, and a labourer said that there were three in the marshes (K S). Earlier (in the previous autumn) a bird had also been noted on Hengistbury Head.

- Barn-Owl** (*Tyto a. alba*). One in a tree at Linwood on evening of February 6th and seen occasionally for some days later (F H H). One at Sway, February 12th (G M). Heard at night now and then at Southbourne (F J).
- Peregrine** (*Falco p. peregrinus*). None breed in the County except on the Isle of Wight, but as they also breed on the Dorset cliffs it is no infrequent sight to meet with them near the coast. Noted near Linwood, February 2nd, 5th, March 21st and September 14th (F H H). Two playing over Keyhaven Marshes, September 10th (B R).
- Hobby** (*F. s. subbuteo*). This beautiful little falcon frequently escapes the keeper's gun owing to its late breeding season. Hampshire is one of the counties where it is not at all uncommon. In the N.E. of the County three pairs are known to have bred and two of them brought off their broods successfully (H G). In the New Forest one nest was reported to me which contained the unusually large clutch of four eggs (F J): seen at Hollyhatch, New Forest, on May 14th: informed by keeper that a pair was breeding in the same enclosure as last year: saw the birds (B R). Also seen outside the Forest near Dorset borders, evidently breeding, July 26th (F J).
- Buzzard** (*Buteo b. buteo*). Not seen in the Forest so often as usual in 1936: one at Ocknell, August 29th (F H H).
- Montagu's Harrier** (*Circus pygargus*). It will be remembered that two pairs of these Harriers bred in the Forest in 1935 (see *Proceedings Hants Field Club*, XIII, Pt. 2, p. 218), and in spite of the fact that one male came to an untimely end, young were reared from both nests. This year one of the sites was re-occupied and Mr. W. P. Green obtained an excellent photograph of the cock bird which was reproduced in *Country Life* for September 5th, 1936, but in the accompanying article the facts of breeding in 1935 and 1936 are somewhat unfortunately mixed up, which may be due to Editorial compression (B R). It is satisfactory to learn that three young were reared, especially in a year when so many of this species have been shot and its status rendered so precarious in Southern England (F J). Noted near Linwood, April 8th (H L) and 27th (F H H). An interesting note on the breeding of the species in Dorset in August also received (F H H).
- White Stork** (*Ciconia ciconia*). The two storks seen at Bursledon and subsequently reported at Cosham and over Southampton Water were evidently the imported birds (K N).
- Spoonbill** (*Platalea l. leucorodia*). One at Beaulieu on April 19th (K S), which, however, only stayed a few days (K S, T T).
- Heron** (*Ardea c. cinerea*). A single nest reported in a new site about two miles away from the Sowley Heronry (T T). A good many come down to the mud flats in Christchurch Harbour to feed in autumn and winter: 13 on September 18th (F J).
- Bittern** (*Botaurus stellaris*). One seen near Beaulieu, January 12th (K R and K S): possibly the bird reported as seen in the Forest by Sir G. Thursby on December 17th, 1935 (B R).
- Whooper** (*Cygnus cygnus*). One of the most interesting events of the year has been the visit of six of these fine birds to the Beaulieu River. They arrived about November 15th and were remarkably tame, allowing approach within 25 yards and feeding at times close to the village of Beaulieu (T T). They were still on the river at the end of the year, but did not remain on the upper reach, but also haunted the stretch near the river mouth and an adjoining sheet of water (K S). A note on their presence here appeared in the *Field*, January 16th, 1937. This is a species which responds readily to protection and rapidly gains confidence when undisturbed.

- Grey-lag Goose** (*Anser anser*). A flock of "Grey" Geese (sp. ?) seen flying East over Branksome on the morning of March 21st by Mrs. J. E. Read. On the same day a single Grey-lag was identified at Beaulieu, which remained there for about three weeks (K S). A flock of Geese (sp. ?) in V formation seen over Linwood, no date given (H L).
- Brent Goose** (*Branta bernicla*, subsp. ?). Sixteen seen at Keyhaven on March 21st, too far off to be certain of the race (K R). Brent were also present in February in Poole Harbour, but apparently did not reach Christchurch (F J).
- Sheld-duck** (*Tadorna tadorna*). About 10 in Newtown Marshes, Isle of Wight, January 19th (K S); 40 at Beaulieu, April 19th: usually about a dozen (K S).
- Gadwall** (*Anas strepera*). One, Christchurch Harbour, October 24th (C P).
- Teal** (*Anas c. crecca*). Not many in spring: five on Stanpit Marsh, September 18th (C P and F J).
- Pintail** (*Anas a. acuta*). Five on April 5th and three on 19th at Keyhaven (K S).
- Wigeon** (*A. penelope*). Chiefly noted at Sowley and Beaulieu (K S, F J): few at Christchurch: a male on March 29th (C P).
- Shoveler** (*Spatula clypeata*). About 50 at Beaulieu, January 12th: 60-70 there on March 1st (K S): several March 21st (K R) and 25 on September 12th (K R).
- Tufted Duck** (*Nyroca fuligula*). Usually a few at Beaulieu in winter, five or six on January 12th (K R and K S).
- Goldeneye** (*Bucephala c. clangula*). A female, Keyhaven, January 12th: also one Beaulieu, January 26th (K S).
- Cormorant** (*Phalacrocorax c. carbo*). White thigh patch noted on a bird at Mudeford on January 31st (C P).
- Gannet** (*Sula bassana*). An immature bird, oiled, picked up January 12th at Hengistbury Head (C P). Three reported in Christchurch Harbour (adults) on December 11th (C T) and confirmed later.
- Leach's Fork-tailed Petrel** (*Oceanodroma l. leucorrhoa*). The S.W. gale of November 7th-9th brought no fewer than three of these birds inland. The first was picked up, still alive, on November 12th near Beaulieu by a keeper, and is now in the British Museum (T T). It was in very poor condition, weighing little more than half the weight of another bird, which was quite fat. Another was found near West Dean (Hants side of boundary) on the same day. It was a young male (W P). A third, also a young male, was picked up alive at Hurstbourne Priors on November 13th (W P). Other small Petrels (both Storm and Fork-tailed) have been reported inland in other counties about this time.
- Manx Shearwater** (*Puffinus p. puffinus*). One seen flying close inshore, Mudeford, November 12th, evidently driven in by the gale (C P).
- Great Crested Grebe** (*Podiceps c. cristatus*). Twelve at sea off Branksome Chine, January 11th (K S): 30 in Bournemouth Bay, February 16th (E. M. Nicholson): two on November 24th and four on 25th at Christchurch (C P). Two pairs on Sowley Pond, March 1st (K S).
- Slavonian Grebe** (*P. auritus*). A pair seen on three occasions in first half of August at Beaulieu: an early date for this species (T T).
- Black-necked Grebe** (*P. n. nigricollis*). Some in Bournemouth Bay on January 11th (K S).
- Great Northern Diver** (*Colymbus i. immer*). One in Bournemouth Bay, January 11th (K S).
- Red-throated Diver** (*C. stellatus*). One in Christchurch Harbour most of January (C P): another on Beaulieu River, January 12th (K R and K S): remains of one at Keyhaven, February 16th (K S).

Wood Pigeon (*Columba p. palumbus*). Large flock at Linwood, November 10th : throughout November and December great numbers coming and going (F H H).

Stone Curlew (*Burhinus oe. oediconemus*). As usual, these birds assembled on Quarley Hill prior to migration, always resorting to the same spots year after year : a root field, a fallow field and among junipers. There were fewer than usual this year. Early in October the numbers usually reach 80 to 120 (W P). Numbers actually noted in 1936 : September 9th, 11 ; end September to early October, 60 (W P) ; September 26th, 30-40, and October 3rd at least 40 (W S) ; October 20th, 16 ; 28th, 20 ; November 5th, 2 (W P). Instances of very early breeding in 1936 by this species were recorded in adjoining parts of Wilts and Dorset.

Golden Plover (*Charadrius apricarius*). Only in small numbers as a rule on the coast. About 40 seen inland, New Milton, February 16th (K S). Flock of about 60 seen N.E. of Andover at the end of September (W P), and on October 4th at least 310 (W S) about 1½ miles from Andover. This last flock was independently counted and estimated at 275.

Grey Plover (*Squatarola squatarola*). One, Newtown Marshes, January 11th and 19th : 30-40 at Beaulieu on the 26th (K S) : flying over Sway March 11th (G M) : one Keyhaven, March 23rd, and one Hengistbury, April 6th (C P) : two Newtown, in full summer plumage, May 10th and 24th : two, Stanpit, May 9th (K S) : 30-40, Pennington Marshes, September 22nd (C P) : two, Keyhaven, September 30th, and two Beaulieu, October 9th (B R) : about 12 on Stanpit, November 15th (C P).

Lapwing (*Vanellus vanellus*). Capt. A. P. C. Hannay in a note published in the *Field*, January 30th, 1937, states that while flying on December 7th, 1936, from Salisbury to Farnborough, when just south of Whitchurch, he saw a flock of at least 300 Green Plover (Lapwings) flying above him. At the time he was flying at over 3,500 feet, and on reaching the level of the flock was just over 4,000 feet. The flock was moving from North to South. Migration carried on at such a height must be practically invisible. Capt. Hannay gives the temperature at 4,000 feet as 70 C., and the wind speed 25 m.p.h.

Turnstone (*Arenaria i. interpres*). Not in large numbers on coast. Six Beaulieu, January 12th and 26th (K R and K S) : two Beaulieu, February 2nd, and two Stanpit, May 9th (K S) : two Stanpit, July 29th (F J and C P).

Ruff (*Philomachus pugnax*). A male, Beaulieu, January 26th : one on Stanpit and two Keyhaven, April 19th (K S).

Sanderling (*Crocethia alba*). Some on Avon beach, March 22nd : also eight or nine on shore near Hengistbury Head, December 6th (C P).

Knot (*Calidris c. canutus*). Seven, Beaulieu, on April 19th : two at Keyhaven, May 3rd, and 10, Stanpit, May 9th : one, Newtown Marshes, May 24th (K S) : two at Keyhaven, September 12th (K S), and eight on Avon Beach, September 22nd (C P).

Curlew-Sandpiper (*C. testacea*). One recorded as seen on Sowley mud-flats, January 18th (Miss P. E. G. Harding, *Field*, 8, II, 36).

Little Stint (*C. minuta*). Two at Keyhaven, September 27th and October 18th (K S).

Purple Sandpiper (*C. m. maritima*). The Hampshire coast is not suited to this species, which prefers rocky shores. One was, however, clearly identified, owing to its extreme tameness, on Stanpit, near the river, November 15th (C P).

Common Sandpiper (*Tringa hypoleucos*). Two on the River Avon, near Ibsley Bridge, July 3rd (B R). On the same day two small flocks (13 birds) were seen by me at Oxford, and by the 14th there were 20 to 30 on Stanpit Marsh (F J).

Green Sandpiper (*T. ochropus*). Single birds noted at Newtown, July 19th, Beaulieu, August 8th (K S) and Beaulieu, November 7th to 20th (T T).

Iceland Redshank (*T. t. robusta*). A bird, picked up dead with others at Beaulieu, which had apparently flown against telegraph wires, on January 12th, had a wing of 164 mm., bill 44.5 and tarsus 48 mm. It was an adult female and is the first specimen of the larger Iceland race ever recorded for the County (K R). See *British Birds*, XXIX, p. 325.

Dusky Redshank (*T. erythropus*). One was first seen at Beaulieu on September 12th and remained on the river till the end of the year (K R and K S).

Greenshank (*T. nebularia*). It is unusual for Greenshanks to winter on our South Coast, but one bird remained at Beaulieu through the winter of 1935-6 and was seen on January 12th, 21st and 26th: while two were present on February 2nd (K R and K S): also three in Newtown Marshes, January 19th (K S) and one on March 21st (K R). In autumn, several Beaulieu, September 12th (K R): two October 9th (B R): 12 October 18th: five November 28th: one or two apparently wintering again at Beaulieu, as they were there to the end of the year (K S).

Grey Phalarope (*Phalaropus fulicarius*). One feeding on the River Avon near Fordingbridge within a few yards of the recorder on November 7th (C M-P). Another was reported by R. L. Vernon in the *Field*, November 14th, 1936, as seen by him on November 1st close inshore at Bembridge, Isle of Wight.

Avocet (*Recurvirostra avosetta*). On August 7th a flock of 12 Avocets was seen by Miss N. Shaw in Christchurch Harbour. They remained there until August 11th and were seen by various observers every day during their stay (C P, F J). They kept well together as a rule and some showed brown on the head, presumably birds of the year. There is a previous record of a flock of 18 (of which 12 were shot!) in Southampton Water in 1880. Fortunately in this case the birds left without mishap as far as we know. See *British Birds*, XXX, p. 196.

Bar-tailed Godwit (*Limosa l. lapponica*). One, Beaulieu, January 26th (K S) and March 21st (K R): 11, Christchurch Harbour, May 5th (C P), and one 12th (F J and C P): about 100, Keyhaven, May 3rd (K S).

Black-tailed Godwit (*L. l. limosa*). One, Beaulieu, January 26th: one May 10th, and eight May 24th at Newtown Marshes (K S): few in autumn: one, Stanpit, July 28th, and two September 23rd (C P): one, Beaulieu, September 12th (K R): seen at intervals up to end of year: also remains of one, Keyhaven, on December 20th (K S).

Woodcock (*Scolopax r. rusticola*). Nest with four eggs, May 16th, in N.E. Hants: bird sitting, but a week later had hatched out and gone (H G). In December, 1935, one was seen in a small garden in Chessel Avenue, Boscombe, and remained there for a week or two: hardly the place where one would expect to flush a Woodcock! (E B).

[**Black Tern** (*Chlidonias n. niger*). Reported from near Southsea, but the date is so early that we hesitate to record it.]

Sandwich Tern (*Sterna s. sandvicensis*). Three seen on May 24th and one on July 19th at Newtown, Isle of Wight (K S).

Arctic Skua (*Stercorarius parasiticus*). A pair (both light-breasted form) flying along the coast at Mudeford and occasionally chasing the Gulls, on August 11th (C P). Not often seen close inshore in the Channel, but one was seen near the Dorset coast on July 7th.

As will be seen from the above list, there have been several occurrences of unusual interest in 1936. We may draw special attention to the breeding of Montagu's Harrier in the Forest, the visit of a flock of Avocets and at least two Waxwings and a Hoopoe, the wintering of half-a-dozen Whooper Swans and the recognition of the Iceland race of Redshank, a new sub-species to the County list. Other points of interest are the wintering of some of the Waders at sheltered districts on the coast, and the presence of two or three races of Yellow Wagtail on passage.

Arrival of Spring Migrants in Hampshire, 1936.

- Tree-Pipit.** April 26th, Farnborough (F) : Ampfield (H W) : April 10th, Bere Regis.
- Yellow Wagtail.** April 8th, Martin (W) : 9th, Ibsley (B R) : 10th, Christchurch (C P) : 11th, Iford (C T).
- Red-backed Shrike.** May 3rd, Southwick (F) : 6th, Sowley (F) : 8th, Linwood (F H H).
- Spotted Flycatcher.** May 2nd, Itchen Abbas (C P) : 24th, Linwood (F H H).
- Pied Flycatcher.** April 19th, Mudeford (C P).
- Chiff-chaff.** March 20th, Mudeford (C P) : 21st, Breamore (H W), Harbridge (B R), Warren Beach and Odiham (F) : 22nd, Yarmouth, I.W. (F) : 24th, Bournemouth (F P) : 28th, Sowley and Warren Beach (K S).
- Willow-Warbler.** March 28th, several, Harbridge (B R) : April 1st, Hengistbury (F) : 2nd, Mudeford (C P) : 3rd, Sway (G M) : 5th, Sowley and Hengistbury (K S), Southbourne (C T) : 7th, Hengistbury (F J).
- Wood-Warbler.** May 4th, Rockford : 5th, Linwood (F H H) : 10th (C P).
- Grasshopper-Warbler.** April 28th, 29th, Linwood (F H H).
- Reed-Warbler.** (?) April 13th, Christchurch (C P) : May 5th, Southbourne (F J) : 9th, Tuckton (C T).
- Sedge-Warbler.** April 18th, Harbridge (F H H) : 27th, many, River Avon (C T), Christchurch (C P), Southbourne (F J).
- Garden-Warbler.** April 19th, Farnborough (F) : 30th, Southbourne (F J).
- Blackcap.** April 5th, Sowley (K S), Highcliffe (C P) : 9th, Bournemouth (F P) : 16th, Wick, etc. (C T).
- Whitethroat.** April 9th, Mudeford (C P) : 19th, Highcliffe (K S) : 25th, Farnborough (F).
- Lesser Whitethroat.** April 30th, Southbourne (F J) : May 1st, Southbourne (C T) : May 6th, Linwood (F H H).
- Wheatear.** March 22nd, Hengistbury (C P), 29th (F) : April 4th (C T) : 5th, Beaulieu (K S).
- Whinchat.** April 11th, Sowley (F) : May 6th, Stanpit (C P).
- Redstart.** April 25th, Farnborough (F) : May 30th, Coles Bridges, New Forest (B R) : June 1st, near W. Dean (W).
- Nightingale.** April 19th, Sowley and Highcliffe (K S), Lymington and Farnborough (F) : 24th, Romsey (F) : 25th, Harbridge (B R) : 27th, Sway (G M).
- Swallow.** April 9th, Ibsley (B R) : 10th, Linwood (H L) : 11th, Sowley (F) : 13th, Mudeford (C P), Fareham (F), Tuckton (C T).
- House-Martin.** April 15th, Fordingbridge, many (F H H) : 20th, Mudeford (C P) : 28th, Sway (G M) : 29th, Throop (C T).
- Sand-Martin.** March 7th, one, Winchester (F) : 23rd, 25 Hengistbury (C T) : April 4th, Yarmouth, I.W. (F) : 5th, Sowley (K S) : 6th, Ibsley (B R) : 9th, Avon Valley (C P).

- Swift.** April 26th, one, Mudeford (C P), one, near Gorley (H L) : 29th, Romsey (F) : 30th, Breamore and Fordingbridge (W) : May 1st, Christchurch (C T) : 3rd, Yarmouth (F) : 4th, Bournemouth (F P), Ampfield (H W), Sway (G M), Sowley (F).
- Nightjar.** May 15th, Linwood (F H H) : 18th, Sway (G M).
- Hoopoe.** May 15th, Tidworth (P J).
- Wryneck.** April 9th, Ampfield (H W) : 19th, Linwood (F H H).
- Cuckoo.** April 12th, Ampfield (H W) : 14th, Southampton (F), Sway (G M) : 19th, Keyhaven (K S), N. Plumley (B R), Sowley (F) : 20th, Holdenhurst (C T).
- Montagu's Harrier.** April 8th, Linwood (H L) : 27th (F H H).
- Turtle-Dove.** April 19th and 27th, Harbridge (B R) : 30th, New Milton (F) : May 3rd, Swanmore (F) : 5th, Southbourne (F J), Linwood (H L) : 6th, King's Somborne, etc. (W) : 7th, Sowley (F).
- Sandpiper.** April 5th, Beaulieu (K S) : 29th, Iford (C T).
- Whimbrel.** April 2nd, one, Totton (W) : 19th, Beaulieu (K S) : May 5th, Christchurch (C P), four, Lymington (F).
- Sandwich Tern.** May 24th, Newtown (K S).
- Common Tern.** May 5th, two, Lymington (F).
- Lesser Tern.** April 19th, Christchurch (K S) : May 4th, Mudeford (C P).

Departure of Migrants.

The late departure of the Swallows in 1936 (two were seen in Bournemouth on November 4th by Miss F. Penrose and by Mr. Marples at Milford ; also one was seen at Keyhaven flying South on November 9th (B R)) led to the publication of records from Totland Bay by Mr. J. Dover and Sandown by the Rev. H. M. Biddell in the *Times*, which are given below :—

Totland Bay.	1926, Nov. 24.	Sandown.	1931, Nov. 6.
	1927, " 16.		1932, " 19.
	1928, Oct. 18.		1933, " 18.
	1929, Nov. 2.		1934, Dec. 8.
	1930, " 10.		1935 (no record).
	1931, " 6.		1936, Nov. 14.
	1932, " 6.		
	1933, Oct. 30.		
	1934, " 29.		
	1935, " 23.		
	1936, Nov. 14.		

Mr. H. T. White also notes House-Martins at Ampfield on November 1st. Swifts were last noticed on August 8th, Southbourne (C T) : August 16th, two, at Ampot (W.).

Autumn Song.

- Goldcrest.** August 23rd, Vernham Dean (F J).
- Skylark.** October 21st, Sway (G M) : November 3rd, Ampfield (H W).
- Chiff-chaff.** August 28th to September 28th, Southbourne (F J).
- Robin.** October 31st, Sway (G M).
- Mistle-Thrush.** September 30th and December 29th, Ampfield (H W).
- Song-Thrush.** November 2nd, Sway (G M) : December 20th-29th, Southbourne (F J), 29th, Ampfield (H W).
- Hedge-Sparrow.** November 4th, Sway (G M).

Earliest Dates of Spring Song of Residents.

- Greenfinch.** February 27th, Southbourne (F J) : March 19th, Sway (G M).
Chaffinch. January 28th, Sway (G M) : February 20th, Ampfield (H W) :
 23rd, Southbourne (F J).
Skylark. January 30th, Sway (G M) : February 18th, Ampfield (H W).
Great Tit. January 15th, Southbourne (F J).
Goldcrest. March 8th, Southbourne (F J).
Mistle-Thrush. January 7th, Ampfield (H W) : January 11th, Southbourne
 (F J) : 24th, Sway (G M).
Song-Thrush. January 2nd, Sway (G M) : February 27th, Southbourne
 (F J).
Blackbird. February 3rd, Sway (G M) : March 3rd, Southbourne (F J).
Robin. January 21st, Southbourne (F J).
Hedge-Sparrow. January 14th, Sway (G M) : 15th Southbourne (F J).
Wren. February 23rd, Sway (G M).
Wood-Pigeon. February 20th, Sway : Courtship flight noted March 9th
 (G M).

As a subject for observation, the courtship displays of our common birds present a wide field of investigation, as in so many cases they are either altogether unknown or very imperfectly described. The difficulty in observing them only adds to the interest and value of the results.

The thanks of the compiler of the report are due to those who have contributed notes. In the following list the abbreviations by which their contributions are distinguished are added to the names :

S. D. Barfoot	(S B)	Miss K. Newdigate	(K N)
E. Brown	(E B)	Col. W. A. Payn	(W P)
G. L. Candler	(G C)	Miss F. Penrose	(F P)
Miss K. Chilver	(K C)	Miss C. Popham	(C P)
Miss R. Chute	(R C)	Rev. H. Purefoy Fitzgerald	
H. T. Gosnell	(H G)		(H P F)
F. W. G. Harvey	(F W H)	B. J. Ringrose	(B R)
Dr. F. H. Haines	(F H H)	K. B. Rooke	(K R)
Miss P. Jellicoe	(P J)	W. Simpson	(W S)
Rev. F. C. R. Jourdain	(F J)	K. D. Smith	(K S)
H. Lea	(H L)	C. E. Tucker	(C T)
C. W. Mackworth Praed		Sir T. H. C. Troubridge	(T T)
	(C M P)	Miss E. C. Wilson	(E W)
G. Marples	(G M)	H. T. White	(H W)
Rev. G. W. H. Moule	(G W M)	R. Whitlock (per F H H)	(W)

Extracts have also been made from the "Naturalist" column in the *Field* newspaper (F) and the *Proceedings* of the Bournemouth Natural Science Society, and references are given to notes already published in *British Birds*.

Whitekirk,
Southbourne, Bournemouth.

INSECTS IN HAMPSHIRE, 1935

By F. H. HAINES

NINETEEN hundred and thirty-five was marked by a mild winter, but a frost (15 degrees) in mid-May, after a sun temperature of 118 degrees F. on 8th May was more harmful than that of May, 1934. The rainfall for the year was 42.49 inches at Linwood, the autumn being very wet. Yet water levels were not up to normal until late in the year.

Orthoptera. Burr ("British Grasshoppers," 1936) shows that our two Forest species of *Acridium* (*Tettix*) are *A. subulatus* L. and *A. vittatum* Zett. Wakely (Entom. III, 35) reports *Gryllotalpa vulgaris* and *Gryllus campestris* in the Isle of Wight. A *Mantis* was captured flying at Lyndhurst.

Ephemeroptera. *Ephemera danica* was common on the Avon on 1st June.

Paraneuroptera. *Pyrrhosoma nymphula* was seen on 3rd May. *Calopteryx virgo* was noted on 26th May. The rare *Ischnura pumilio* was found on 23rd June, especially the orange variety of the female. This was more abundant than either the type or male. A few males were noted on 10th July. *Libellula depressa* was seen on 24th June. *Oxygastra curtisi* was not observed at Hern during the season.

Hemiptera. *Chilacis typhae* was common on *Typha latifolia*. *Aelia acuminata* was found in the nymph state into September. A hibernating species, its handsome striation harmonizes with the dried yellow grass stems of its haunts. P. Harwood took two specimens of *Lygus atomarius* in the New Forest (E.M.M. vii, 35).

Neuroptera. Far the most interesting find was a four-winged male of the extremely rare *Psectra diptera*, which I took in the Forest in July. It is discussed, with plate and illustrations, by K. J. Morton and Col. Fraser, E.M.M. 1936, pp. 252-257. A correspondent (R.T.) suggests mutation to explain the varying condition of this species. It is recognized that every species has germ cells with nuclei which have a definite number of chromosomes on which are the factors of hereditary characters. When an individual under stimulus produces a different number this is called a mutation. Dr. H. H. Thomas, F.R.S. ("Nature," i, 36) suggests that cosmic rays may be a chief cause of variation in organisms. Short wave radiations and high speed electrons have induced mutations. The action of x-rays on nuclear structure seems to produce those cytological changes often associated with specific differences. High up, cosmic rays are more frequent and their intensity is greatest from latitude 20° to 54° North and South. It is pointed out that it is in mountain regions and the tropics that most variation takes place. The question of inheritance of acquired characters loses significance when they may be gained so far back in the life of an organism that they cannot be distinguished from those that are parental.

Lepidoptera. *Conistra vaccinii* came to light on 1st January. *V. atalanta* was seen on 13th March, *G. rhamni* and *V. urticae* on 15th, *V. io* and *V. c-album* on 19th. On 20th many *V. c-album* and *P. rapae* were seen. *L. argiolus* was flying on 3rd May. An immigrant swarm of *P. gamma* was noted on 31st. Another immigrant, *Nomophila noctuella* was seen on 25th June in the New Forest, a *V. cardui* at Hern on 29th and *Macroglossa stellatarum* at Linwood on 30th. In autumn two migratory streams of *P. gamma* occur, one of our native examples going south which crosses a northern migration from the

continent. A great movement of *Golias edusa* to the North was reported. On 2nd September a full-fed larva of *Trypanus cossus* was placed in a pot covered with perforated zinc and a lead weight of 14lb. It escaped! An experiment showed that the larvae of *Tyria jacobaeae* which displays "warning" colours was untouched by lizards, but larvae are not, I think, the food most favoured by *Lacerta*.

Coleoptera. *Melolontha vulgaris* was seen on 9th May. A dead *Lucanus cervus* was found at Gorley as early as 29th May, and a dead *Prionus coriarius* on 9th July. The number of dead insects found was exceptional. On 11th July and following evenings many males of *Lampyrus noctiluca* flew to light, numerous females displaying outside. That insects are attracted to light is evidently due to an automatic "tropic" action depending primarily upon the absorption of light by their retinal pigments. Any particular source of light would therefore be expected to attract most those insects possessing retinal pigments capable of absorbing the predominant wave-lengths present in such light.

Bagous frit has been taken in the New Forest by P. Harwood and E. C. Bedwell (E.M.M. xi, 35.)

Diptera. On 16th July *Gonia capitata* was very common on Farley Mount and a teneral male of *Tabanus glaucopis* was taken (C.). On 19th July *Diaphorus nigricans* and *Medeterus dendrobaenus* were taken at Matley. H. W. Andrews took the very rare *Trypeta paleata* in the Isle of Wight.

Hymenoptera. A *Bombus* was seen on 2nd March. On 6th several *Bombus lucorum* were flying about *Salix*. Many *Vespa* queens were prospecting on 4th May. *Mutilla europaea* female was observed on 25th June at 9 a.m. (S.T.). In Dorset and Hampshire specimens of the ichneumon, *Ophion obscurus* come to light in November, December, January and February. It possibly hibernates in bad winters, but when mild it may oviposit in such hosts as *Melanchra fulminea* which winter as larvae. It appears to have two chief broods in a year.

Brig.-Gen. Tullock (Entom. ii, 1935) is sure *V. atalanta* hibernates in this country, choosing the thick foliage of high evergreens or other lofty hiding places in trees. Frohawk gives other hibernacles (Entom. v, 1935). This butterfly can fly with ease against a wind so strong that partridges are embarrassed (Entom. xii, 1935). Sheldon points out that in Teneriffe *V. atalanta* passes through its stages continuously, and that none of the *Nymphalidae* which regularly hibernate as imagines in colder regions (*V. urticae*, *io*, *polychlorus* and *antiopa*) is found in Teneriffe.

There has lately been local discussion as to the status of Lepidoptera in the New Forest. *Apatura iris*, *Thecla betulae*, *C. sponsa* and *promissa*, and *Zygaena meliloti*, comparatively common in the 'Eighties, are now far rarer. Some collectors hold that, as with *C. d. dispar*, they are blameless, yet contemporary naturalists allege that *dispar*, too, was exterminated by collecting (see Humphrey's "British Butterflies," p. 48; Stephens' "British Entomology," p. 82). Harding described in "The Entomologist" of 1883 his visit to Holme Fen in the early 'Forties. The larvae were being collected for sale by young and old. A few years later Holme Fen was still a fen, the food plant was there, but *dispar* had gone. *Laelia caenosa* was similarly exterminated. Tutt, a high authority, blames collecting. The successful introduction of *C. d. batavus* into Wicken shows that the terrain is still suitable. The Somme race was destroyed by the Great War and poison gas, but the German race, *C. d. rutilus*, still exists.

Arachnida (Araneae, Spiders). M.J.M. found the rare *Hyptiotes paradoxus* in the S.E. part of the New Forest. It spins a geometric, orbicular web, of which only a sector of one-sixth is complete, which contrasts with the web of *Cyclosa conica*, whose web is of singular perfection and beauty.

INSECTS IN HAMPSHIRE, 1936

By F. H. HAINES.

A mild winter and spring were marred, as often happens, by a harmful frost (11 degrees) on the night of 28th May. There followed a wet summer: a rainfall of 4.80 inches in July and 4.44 inches in September. The year's total was 36.80 inches at Linwood.

Orthoptera. *Leptophyes punctatissima* was very common in August.

Paraneuroptera. *Pyrrhosoma nymphula* was noted at Linwood, Sopley and Hern on 26th April. *Libellula depressa* appear on 17th May, *Calopteryx virgo* on 18th, *Agrion puella* on 22nd and *Gomphus vulgatissimus* on 25th, *Libellula quadrumaculata* on 10th June, *Platychnemis pennipes* on 14th. There were no *Oxygastra curtisi* to be seen at Hern on 20th June. Apparently some dragonflies resemble such aquatic insects as *Ephemeridae* and *Perlidae* and are "up" on special days and times in response to peculiar meteorological conditions, on other days few or none being found. *Orthetrum coerulescens* was seen. On 22nd *Gomphus* was still flying. On 26th June *Ischnura pumilio* was sparingly present in its special locality. *Pyrrhosoma tenellum* and *Agrion mercuriale* were numerous. *Anax imperator* was in numbers on 29th June at Bournemouth (F.C.F.).

Neuroptera. *Sialis lutaria* was seen near Bournemouth on 17th April (F.C.F.) and at Linwood on 26th. *S. fuliginosa* was out in some plenty on Dockens on 28th May, but no *S. lutaria*. *Chrysopa dorsalis* was taken at the end of June. (F.C.F.) Three female *Boriomyia nervosa*, one male *Micromus paganus* and several *Chrysopa prasina* were taken at Farley on 1st July (F.C.F.) and one male *Westmaelius concinnus*, a female *H. humulinus*, a female *lutescens*, two *Chrysopa alba*, two *C. tenella*, *C. vulgaris* and many *prasina* at Appleslade (F.C.F.). A female *M. paganus* was taken here on 5th.

Lepidoptera. On 17th February *Hypona rostralis* was abroad. A larva of *Arctica villica* was moving on 22nd February at Bournemouth, a very early date (F.C.F.). One was seen at Newlands on 6th March. Two males of *G. rhamni* and four males of *V. c-album* were seen at Bournemouth on 10th March, flying North-West (F.C.F.). *P. rapae* was flying on 15th April, and *L. argiolus* on 1st May. In mid-May the larvae of *Cybosia mesomella* were common. *M. stellatarum* was in the garden on 31st May. *Epinephele janira* was seen on 13th June. *Plusia gamma* was present on 14th and in great numbers on 20th June at Hern, suggesting an immigrant swarm along the West Moors River. *Limenitis sibilla* was flying near New Burley Wood on 26th June. *Tortrix viridana* was present in the New Forest, but not as a plague, this season. An early *A. aglaia*, many *A. adippe*, *Arge galathea* and *Epinephele hyperanthus* were seen at Farley Mount on 1st July. *Oxyptilus heterodactylus* was taken here by F.C.F. on the 5th. An interesting feature has been the spread and abundance of *Sphinx pinastri*. F.C.F. took many in June and July in Bournemouth, and hatched many larvae. On 26th July a female was found on a pine here. She was worn, but laid eggs from which I reared a fine dark variety of the larva. It was noted on 9th August that though *V. urticae* were common, they did not show the very early tendency to hibernate so often observed, even early in July. *V. cardui* and *Pamphila comma* were seen at Farley on 14th August, and the former again at Linwood on the 18th. *V. io* and three *V. urticae* formed a hibernating group indoors on 23rd August: a hot day, but the thermometer had sunk to 31 degrees in the night. *P. gamma* was in numbers everywhere on 28th August, owing to

immigrant swarms, a good season, or both causes. On 13th September F.C.F. reported numbers of *V. atalanta* and *V. c-album* in the neighbourhood. On 3rd October a *Colias edusa* was flying at Rockford. C.M. took *Aglossa cuprealis* at Lyndhurst on 30th June. A small migration (10) of *P. brassicae* was seen at West Tytherley flying N.E. at 20 feet on 2nd July (Entom., Oct., 1936). *Danaus plexippus* was seen in August at Sowley, West Meon and Burley, and about 19th September one was seen flying due north at West Meon (Entom., October, 1936).

Coleoptera. *Coccinella bipunctata* came in to light on the very wet, warm evening of 28th January. The larvae of *L. noctiluca* were numerous on 11th May. C.M. took three *Tychius 5-punctata* at Ladycross, New Forest, on 28th June and found *Tetropium gabrieli* common in Denny in June. He took *Callidium variabile* on palings at Lyndhurst on 30th.

Diptera. *Chilosia albipila* was seen on 1st April. *Tabanus distinguendus* was out as early as 19th June. *Theriopterus bisignatus* was in numbers at Hern, as was *T. maculicornis* on 20th, but no *T. montanus* were observed. *Microdon mutabilis* and *Tabanus sudeticus* were on the Oberwater bogs on 26th June. A phorid, new to the British list, was taken at Farley Down by F.W.E. on 20th May, females only being numerous in the beech woods. C.M. took two male *Callicera aenea* at Parkhill, New Forest, on 28th June.

Hymenoptera. On January 26th *Ophion obscurus* came to light at 9 p.m. here. *Apis mellifica* were busy on *Salix* on 4th March, as were females of *Bombus lucorum* on 18th. *Bombus terrestris* appeared on 27th March and *B. pratorum* on 28th March. *Vespa crabro* was seen on 29th June. An *Ophion* came to light on 22nd July. B.M. took *Ponera coarctata* in winter at Bournemouth and *Formica sanguinea* in summer.

As an explanation of migration and the other problems referred to above reference may be made to Wegener's theory of the movements of continents. It explains so many biological facts (as well as the present distribution of land and sea, the past movements of the poles, the position of the great coalfields of the world, and other conditions) that its truth in its main outlines is likely. The remarkable coincidence in coastline along the opposite shores of the Atlantic and the identity of geological formations led Wegener to his theory. This is, that the earth, which geologists largely agree consists of a lighter and more rigid crust on a heavier and more plastic substratum was, when it commenced to cool, a level expanse under a uniform depth of water. The cooling caused contraction of the rigid crust, raising up continents. Great rifts appeared: the first, along Wallace's line, became the bed of the Pacific. Later in cretaceous times Europe and Africa were separated from America by further contraction and upheaval. The theory might explain such problems as the apparently purposeless plunge of the lemmings into the sea, as due to an old instinct to migrate to some distant land no longer there, and the reason that eels spawn in the Western Atlantic. They pursue a retreating spawning ground. The alteration of the position of the equator and poles may indicate the reason why migratory birds and the insects that closely accompany them, even very significantly, males with almost wingless females, choose their present routes

across the equator or to east and west. It is said that they still seek old landing places, now submerged, due to old inherited impulses, and beat about thereon until exhaustion and drowning end their lives. The theory, perhaps, hardly explains, as has been suggested, the distribution of the tapir, the marsupials, the common mallophagid parasite of the struthionid birds, and the similarities between the Maya and Basque languages : facts, surely often too recent to be affected by the conditions of so remote a past. The fauna alluded to consists of old types, once widely spread, which have died out in the intervening spaces. This is shown by the fact that lung-fishes and marsupials occurred in Europe and Asia in paleozoic times, as well as in South Africa, South America and Australia. The tipulid genus, *Macromastix* of Australia and New Zealand is found in the Oligocene of the Isle of Wight. The worm, *Bimastus constrictus*, occurs on Snae Fell, and in sub-antarctic regions. (See Wegener, "Origin of Continents and Oceans," and Blair, Tr. S.B.E. Vol. II, Pt. 2.)

The following abbreviations are used :—C.=J. E. Collin ; E.=Dr. Edwards, F.R.E.S. ; F.=Col. Fraser, F.R.E.S. ; M.J.M.=Mrs. M. J. Marples ; B.M.=B. D. W. Morley ; C.M.=Claude Morley, F.R.E.S. ; T.=R. Tweed.

BIOLOGICAL DIVISION

THE Council of the Hampshire Field Club in 1936 decided upon a re-organization of the Biological Sections of the Club.

The new organization is as follows :—

The former Biological sections of the Club, namely, the Botanical, the Entomological and the Ornithological, are grouped together, with the addition of a section of General Zoology, and together form one Biological Division.

The General Secretary of the Biological Division is :—

REV. H. PUREFOY FITZGERALD, F.L.S.,

The Down House,
Shawford, Winchester, Hants.

Communications of a general character should be addressed to the General Secretary of the Biological Division.

Questions affecting only one branch of the subject should be addressed to the Sectional Secretaries. The Sectional Secretaries are :—

SECTIONAL SECRETARY FOR BOTANY,

P. M. HALL, F.L.S., 12 High Street, Fareham.

SECTIONAL SECRETARY FOR ENTOMOLOGY,

F. H. HAINES, Appleslade, Linwood, Ringwood.

SECTIONAL SECRETARY FOR ORNITHOLOGY,

Rev. F. C. R. JOURDAIN, M.A., M.B.O.U., H.F.A.O.U., F.Z.S.,
Whitekirk, Southbourne, Bournemouth.

SECTIONAL SECRETARY FOR GENERAL ZOOLOGY,

Prof. W. RAE SHERRIFFS, M.A., D.S.C., F.L.S.,
University College, Southampton.

It would be convenient if Members, when corresponding with the General Secretary, or with the Sectional Secretaries, would kindly enclose a stamped and addressed envelope, if an answer is required.

With the object of securing more effective co-operation throughout the County in the way of Biological work, a re-arrangement of the Biological Sections has been approved by the Council. It is hoped that work of general usefulness in the way of observations, records and other notes will be done by all lovers of Nature. The scheme is as follows :—

Local Secretaries will be appointed in various districts, following to a large extent the divisions of the County in Townsend's *Flora of Hampshire*; these Local Secretaries will get into touch with any observers in their districts (whether they are members of the Hampshire Field Club or not), and collect from them any notes of interest throughout the year; these will be forwarded to the Section Secretaries, and all the notes so sent in will form the basis of the reports in the *Proceedings*.

In order to assist observers, a few hints are given by the Section Secretaries as to what should be looked for and noted, and suggestions as to what would be useful in the way of collecting information.

The General Secretary will be glad to give any further information, and would also be glad to be put in touch with all who may be willing to help, and to hear from anyone who would be prepared to act as a Local Secretary in any of the Branches. The County is a very rich one in its Flora and Fauna, and a great deal of work remains to be carried out, new records made, and old records either corrected or confirmed. It is important that the identity of any rare specimen be authenticated by reference to the Section Secretary.

H. PUREFOY FITZGERALD,
General Secretary.

*The Down House,
Shawford,
Winchester, Hants.*

BOTANY

Sectional Secretary :

P. M. HALL, F.L.S., 12 High Street, Fareham.

Distribution.

(a) It is desirable to form an idea as to the present distribution of species in the County to compare with the past recorded distribution with a view to study of causes for change, if there has been any such change.

(b) There are many species of which the distribution is not completely known. All extensions of known range in the County should be reported.

(c) Disappearances from known localities should also be reported.

Old and doubtful records. There are a number of records in urgent need of verification or otherwise.

Critical groups. There are many such, of which the distribution in the County has not been worked out fully (*e.g.* *Euphrasia* and *Pansies*, etc.). These may not be of interest to the individual workers, but it might be pointed out that by collecting and sending them in for naming, they would be making a useful contribution to scientific knowledge.

Records of Plants new to the County. Rare plants in new localities and suspected hybrids should *always* be accompanied by specimens (where it is consistent with the existence of the plant).

Ecology. A note on the soil conditions is always valuable. Occurrences of plants in unusual soil conditions and unusual associations should be noted.

Phenology. Abnormal dates of flowering, and, if possible, evidence for correlation with weather conditions would be valuable.

Abnormalities of all kinds should be recorded.

Fluctuations. Increases or decreases in numbers should be recorded, together with any evidence of cause. Notes on the comparative frequency of the same plants in the same localities would be very valuable; *e.g.* in the case of Orchids.

Aliens. Recording the appearance of aliens is of considerable importance, especially where they are able to maintain themselves in a state of nature.

New Roads. The flora of new by-pass roads might be studied, with a view of noting which species disappear first and which ones maintain themselves.

ENTOMOLOGY

Sectional Secretary :

F. H. HAINES, Appleslade, Linwood, Ringwood.

Phenological. Notes on the early or late appearances of insects in relation to the season.

Immigrants. Notes on the immigration of various species and especially the direction of flight.

Distribution. Records of rare and local species which show peculiarities of distribution. In cases where identity is not assured, specimens should be sent in for authentication.

Ecology. Notes on alteration of the status of a species (*e.g.* in numbers or in season of appearances) due to changes in environment and other causes.

Biological. Notes on instances of mimicry, nature of prey, habits of courtship, adaptation to surroundings, variations and aberrations.

ORNITHOLOGY

Sectional Secretary :

REV. F. C. R. JOURDAIN, M.B.O.U.,
Whitekirk, Southbourne, Bournemouth.

Dates of Arrival of Migrants. These have a certain phenological interest and are worth sending in, but not necessarily for publication. If any given species arrives unusually early or late, this becomes evident when a series of reports from different parts of the County is available, but it is not reliable when recorded for only one locality. A series of observations is, therefore, useful in checking records.

Changes in the status of species. These notes may be of considerable interest ; *e.g.* fluctuations in the numbers of the stock of such species as the Dartford Warbler, due to severe winters or heath fires ; also notes on the increase or decrease in the number of our scarcer residents, such as the Buzzard.

Records of rare species or unusual stragglers should be accompanied by notes showing by what characters they were identified, otherwise investigation entails much correspondence. There is no risk in recording rare stragglers if the record is published some time after the occurrence is noted. The only exception is in the case of rare residents. The danger at the present day is indiscriminate killing of all birds supposed to be harmful to game preservation. Notes on food or courtship are always valuable. In the case of the Blackbird, one of our commonest birds, the courtship has only been recorded about half-a-dozen times !

The life history of all our birds requires a vast amount of original study and watching and every observation needs checking and confirming. Accurate notes on the working and sleeping hours of any bird accompanied by dates are always valuable.

GENERAL ZOOLOGY

including Mammalia, Fish, Mollusca, Arachnida, etc.

Sectional Secretary :

PROF. W. RAE SHERRIFFS, M.A., D.SC., F.L.S.,
University College, Southampton.

As this comprises a very large and comprehensive section, only a few general hints are given for observers, but all notes may be of value for records.

1. Name of specimen, if known, and, if possible, a photograph or sketch. (All doubtful specimens should be sent in for authentication.)
2. Locality, time and date of observation.
3. Habitat, weather conditions, also height above sea level.
4. Measurements.
5. Any notes of interest ; *e.g.* feeding, pairing, parasitic on some host.

SUBJECT SECRETARIES' REPORTS, 1936

FIELD ARCHAEOLOGY

1. Messrs. Ellaway, Rainbow and Willis send me the following report on their Collection of Flint Implements in the Basingstoke district for the years 1933-34-35 and 36.

Considerable additions are still being made to the local flint implement collection now housed in the Basingstoke Museum. The careful records kept by Mr. H. Rainbow indicate that since the last report in 1932 the following results have been obtained :—

	1933	1934	1935	1936
Arrow and Spearheads ..	14	14	5	15
Polished Celts and fragments	1	9	8	7
Chipped Celts	66	62	45	30
Scrapers	228	283	193	128
Fabricators	20	28	16	12
Palaeoliths	16	31	7	10
Pygmies	10	9	1	20
Miscellaneous	127	140	126	87
Totals	482	576	401	309

Apart from palaeoliths and pygmies, the discovery of which depends in a special degree on accidents of ploughing and weathering, the proportions of the various categories remain curiously constant. It would be of interest to learn whether these proportions obtain in other districts that may have been as intensively worked. In 1934 the yield of palaeoliths was larger than usual, thanks to fortunate field conditions. As these largely come from the highest point in the district—730 feet O.D.—they constitute an important addition to the evidence of the palaeolithic distribution of the County.

J. R. ELLAWAY.

G. W. WILLIS.

2. Mr. Moggridge, late of Fareham and now of the Winchester Museum, kindly look me last Spring to see some of the 'squats' he has located on the beach of the N. shore of Portsmouth Harbour, and as they have never been recorded in our *Proceedings* I take this opportunity of doing so.

They occur at intervals all along the shore from Fareham Creek to Cosham, as well as on Peewit Island in the harbour, and on the other banks locally called 'knaps' which are exposed at low water. They are also numerous round Thorney Island west of Hayling. The "lake-dwelling" at Cosham, so described in a local newspaper

some few years ago was, Mr. Moggridge tells me, one of them, and no piles were found there. These sites doubtless owe their survival to the fact that the beach, protected not only by the Isle of Wight, but by the harbour being nearly completely land-locked, is never lashed by the waves.

They are situated just above high-water mark and extend a little way below it, and are easily recognised as whitey-gray patches in the yellow shingle. These are largely composed of numerous small irregular flints, about the size of a walnut, burnt grey and with a fine reticulated cracked surface. The shingle here is only an inch or two thick and lies on the natural clay; many flint flakes very slightly 'rolled' and occasional small bits of charcoal can be picked out of the clay surface. No pottery or bone fragments have been found. I examined two: one behind the east end of the Vicor Bone Works about 10 or 12 feet long, and another much larger about halfway between the Bone Works and Portchester Castle. There can be no doubt of their being the cooking sites of primitive man probably driven down in winter or times of scarcity to get his living on the seashore.

Mr. Moggridge also took me to another 'cooking site' on the little Wallington River. It can be found by taking the road from Wallington to North Fareham as far as two new brick and flint cottages on the right with their backs to a large chalk-pit. About fifty yards beyond these is a gate on the left into a grass field, and 100 yards from the gate the site lies in the vertical clay of the left bank of the stream which has cut down about six feet into the alluvium. The site is about two feet below the surface of the field and is seen as a layer nine inches to a foot thick of grey burnt flint pot-boilers lying in the little clay cliff, with dark earth about them which disintegrates in water and is evidently the remains of burnt matter. The layer runs for about thirty yards along the bank; no pottery has been found and I saw no flakes. I sent some of the flints from both shore and river sites to Mr. Willis, and he reports as follows:—

"Your flints are typical pot-boiling material which constitute the evidence of a cooking site. We have at least two here of which I enclose some particulars. . . . The flakes are of no special type of culture but undoubtedly human. One assumes that this class of habitation site relates to a fairly elementary condition of culture, but this may be due to early date or local deterioration or stagnation. Our own example does suggest an early date by the accumulation of five feet of solid soil above the layer: You mention scrapers on one packet. We should not take either of these as anything but flakes; there appears nothing on any of them of accessory working."

3. The long barrow at Holderness near Christchurch has been excavated by Mr. Calkin and Mr. Stuart Piggott. The report has been read before the Prehistoric Society and will no doubt be published in their *Proceedings*.

4. Mr. J. B. Calkin, of Bournemouth, has published in the *Proceedings* of the Bournemouth Natural History Society a most useful Survey of the Bournemouth District, shewing the distribution of the rather surprisingly numerous Early Bronze Age objects found in this heathy gravel region.

Such distribution maps are becoming increasingly valuable for shewing the relative intensity of prehistoric occupation, but it must be remembered that few gravel areas have been so disturbed for new houses and roads and also dug for gravel as the Bournemouth country, nor have all such operations been so intelligently watched.

5. Mr. Willis reports that two new tumuli have been located and reported to the Ordnance Survey. One, in a very damaged condition, on the east side of the road from Stoke Charity to the Worthies about $1\frac{1}{2}$ miles south of Old Stoke Lodge, and two large round barrows with ditches on the eastern margin of Spy Bush Plantation about half a mile north of Oliver's Battery, Abbotstone Down, near Alresford.

I wish some members of the Club would undertake to note on the 6-inch Ordnance maps of their district all the barrows that are still visible ; so as eventually to get together a Barrow-distribution Map for the County. They have all been so recorded and numbered in Wiltshire, and I believe in Sussex, and our County, lying between these two regions which differ so much archaeologically, would complete a survey which might throw considerable light on the distribution of prehistoric peoples. Barrow-hunting becomes a very fascinating sport to those who can still enjoy walking or riding over the countryside, and I am sure Mr. Crawford would give every assistance from his official maps.

6. Mr. Jocelyn Preston has discovered a rectangular earthwork on the left hand side of the Southampton—Salisbury Road opposite a clump of young larches on a heather moor known as Landford Common. It is situated a mile and a half north-west of two of the barrows halfway between the Shoe Inn at Plaitford and the village of Landford. He has begun to excavate it, and I hope will complete his work this year.

7. Sir Thomas Troubridge is still investigating the numerous banks and ditches on the Hill Top part of Beaulieu Heath. There are at least eight or nine of them and it is not clear what they have to do with each other. However, Commander Wrey is preparing a map of them and it will be very interesting to see if any system or systems can be made out.

Roman.

8. Roman finds have been numerous this year. Mr. Willis reports that the excavations for the foundations of a bungalow on the west side of the Sutton Scotney—Bullington Road some $1\frac{1}{2}$ miles north of Sutton Scotney revealed substantial evidence of a Roman villa site. The narrow trenches were dug through layers of tile and stone roofing slabs, the latter of the usual fish-scale pattern varying in length from 8 to 15 inches. Other material included masses of mortar and coloured wall-stucco, coarse pottery, nails, clamps, etc., suggesting a building of considerable extent. The end of a drain (?) consisting of pillars of square tiles with a roofing-tile placed across them was noted. The bungalow unfortunately prevents further examination of most of the site, but the adjoining plot is not yet developed and it should be carefully watched during future building operations. The owner of the bungalow (Mr. Healey) and of the adjoining plot are interested and would facilitate inspection.

9. Mr. McEuen reported that the making of the short piece of new road south of the new "Grinches Bridge" over the Meon River at Exton had cut at right angles through the foundations of at least four walls of a Roman building. These can be traced on both sides of the road, and examination of the field east of the road shews that it is littered with the debris of a considerable building. Colonel A. C. Hughes, the County Surveyor, has kindly had a tracing made of the plan of the road shewing the exact spots where the foundations were visible so that any future excavation of the site will be made easy. The stone coffin which now stands beside the porch of Corhampton Church is known to have been found at this site.

10. Mr. Willis also reports that an aerial photograph in the December 1936 number of *Antiquity* shews the rectangular outline of a large occupation site on Worting Wood Farm, $1\frac{1}{2}$ miles north of Basingstoke. The southern corner of the field yields various surface traces of Roman occupation, probably associated with the Roman site, burial, etc., at Park Prewett across the road, but the main area to the north-west so clearly defined on the photograph gives no indication whatsoever of the nature of the occupation—the spade can only decide.

11. I hear also that a Roman site has been found on Manor Farm, Shalden, and may possibly be excavated, but I have no particulars.

Excavations at Bitterne Manor.

12. Further excavation at Clausentum was carried on during the summer of 1936 by a keen and intelligent party of young volunteers under the direction and supervision of Lieut.-Col. Rivers Moore, late R.E. The difficulties in the way of full investigation are very great as the whole area which remains available consists of the grounds round the Manor House, most of it kitchen garden in use and fully cropped. Trial diggings therefore have to be made where and when opportunity offers, and I feel sure her fellow members will be grateful to Miss Macnaghten for the encouragement and facilities she gives to the work being done.

All the ground seems to have been disturbed to a depth of at least three or four feet in the course of the nearly 19 centuries of occupation and the virgin gravel has only been reached in one or two places. Four small areas of one or two hundred square feet were thoroughly investigated last summer, and very careful plans, sections and descriptions were made, the position of every find being properly recorded.

In Site A an oven of a type found at Uriconium (Wroxeter) was discovered, in Site B the clay floor of a wooden hut with some of its postholes, and in Site C a portion of a well-made road, but though tiles, tesserae, several Roman objects and coins, and pottery and domestic debris of all sorts were encountered everywhere, only in the fourth site, D, was there discovered any certain indication of a masonry or part-masonry structure which may lead up to the plan of a building.

In the absence of any satisfactory stratification the dates of the occupation can only be arrived at by comparison of the pottery which ranges from Roman of the first century to Mediaeval, the potters' marks on the "Samian" being the chief guide. Nothing definitely pre-Roman has been found, and the occupation of Clausentum seems to date from the first half of the first century A.D. In Site D, for instance, it appears to have begun late in that century and to have lasted till early in the second; then to have been sparse from the early fourth century to about 390, after which it was more intense.

In this site five more skeletons were found probably belonging to the last period. They were laid East and West and the site evidently included part of the same burial ground where the skeletons of 1804 and 1935 were found. Like the others they were associated with no grave goods.

The Report of Mr. Dudley Buxton on the skeletons of 1935 has been received. The skulls were too much decayed for any racial characteristics to be recognised beyond that "they are of a general type that is found in England from the Early Iron Age

onwards." All but one were those of large muscular men past middle life, and one had had his frontal bone completely fractured by some weapon or club on a former occasion and had made a remarkably good recovery ; amongst them was that of one woman. The five found in 1936 will I hope be reported on this spring.

A short length of the river wall of the fort was exposed, and like that examined by Sir H. Englefield was found to have been built without foundations in a trench cut in ground all previously disturbed and occupied. It is hoped that close examination of the soil of the ground level at the time of its erection may give a clue to its date, and it is likely that more of its line will be exposed this year. The wall, when faced, was about nine feet thick.

A search was made for the floor of the mediaeval building, part of which still stands at the S.W. Corner of the present house, but so far without success.

I must record my thanks to Col. Rivers-Moore and Mr. D. M. Waterman for lending me their very excellent report, with plans and sections drawn by the latter, from which I have compiled these notes.

Saxon.

13. Mr. Moggridge has shewn me the site where several skulls and bones were exposed some years ago by a fall of chalk at the large chalk pit on the right of the road from Wallington to North Fareham, about $\frac{1}{4}$ -mile west of Down Barn Farm. The site has not apparently been hitherto officially recorded and though the skeletons are said to have been those of men, women and children and to have been submitted to expert examination there appears to be no clear record about it. The surface of the down at the top of the pit is extensively worked by rabbits for about 50 yards and appears to be slightly raised in level. A fragment of a human ulna was exposed in a rabbit burrow at the time of my visit. An iron spearhead of Saxon form was found about forty years ago at the chalk pit and preserved by Mr. Sutton of Fareham who has kindly presented it to the Winchester Museum. It is pronounced by the British Museum to belong to the Viking rather than to the Pagan Saxon period. No other objects have been recorded, but it would be an interesting and easy site to dig, and Saxon burying sites are rare in Hampshire.

14. The archaeological evidence of Jutish occupation of the Meon Valley has so long been scanty compared with the ample historical evidence that we must welcome the acquisition by the Winchester Museum of the buckle-plate exhibited at the Society of Antiquaries, an account of which appears in the current number of their journal.

So far as can be ascertained the locality of the find was "the road between Westmeon and Privett during its construction in 1842." This road passes over the watershed on the north of the Meon Valley between West Meon Village and West Meon hut and the cutting was no doubt made about this date. The road itself is at least as old as the Iron Age, and is the direct track from the Alton and Farnham country to Portsmouth Harbour. Moreover, along the north side of the watershed ridge crossing the road and facing north runs the Haylen Wood bank and ditch for $2\frac{1}{2}$ miles which I have always thought must have been the northern boundary of the Meonwara. I do not know if any date can be assigned to the buckle-plate, but we must not forget that from 661 there was 25 years of war between Hampshire and Sussex for the possession of the Meon country—the period to which it seems likely that the Froxfield Entrenchments, two miles further east, may be assigned; but whether in peace or war this locality on the road entering their country is just the place where one might expect such a Jutish relic to be lost and found.

Mr. McEuen also tells me that another valuable relic belonging to Mr. Long of Corhampton has recently been submitted to the Authorities of the British Museum and confirmed as Jutish, so our archaeological evidence is increasing.

J. W.-F.

April 30th, 1937.

Since writing the above I have heard from Mr. L. V. Grinsell, the author of *Ancient Burial Mounds in England*, published last year, that he is making a survey of the barrows of Hampshire. I have taken it on myself to say that I am sure our Club will give him every assistance and have given him the names of some members who, I know, are interested. He hopes to do the first XX sheets of the 6 inch map, covering the North of Hampshire, this summer; if any members, willing to help him with those of their own neighbourhood, will give me their names I shall be very grateful.

J. W.-F.

May 11th, 1937.

ARCHITECTURE.

Mottisfont Priory.

Recently the owner of this historic and interesting house, Mr. Gilbert Russell, very kindly gave me an opportunity of visiting it with a friend, and of examining under his own guidance some work recently exposed.

It had been necessary for purposes of repair to strip the lath and plaster which covered the walls of the large room on the ground floor of the south-west wing. This had laid bare the walls and revealed several old window jambs thus adding to the information which was available when the description for the Victoria County History was written.

This south-west wing formed a part of the west range of the claustral buildings of the Augustinian Priory. Its north end abutted on the church. Below the room to which I have referred there is a vaulted undercroft ; the room itself is lofty, and above it there are some bedrooms.

The conventual range had been reduced in length soon after the Suppression, and the end is now finished with a three-sided bow, with sash windows. To the west there are two large stone mullioned windows of Elizabeth's time. There was nothing inside or out which gave information about the conventual arrangement. The stripping of the plaster has now revealed the window jambs and these tell us something.

The east wall was entirely refaced with brick in the sixteenth century, after the Suppression, and the north wall, the wall of the church told us on a cursory examination nothing except that it had something to tell.

The window jambs to which I have referred were all in the west wall. Towards the north end of it there are the quoins of two very lofty jambs ; they start about two feet from the floor, and the tops are hidden by the modern ceiling and bedroom floor some eighteen feet above. These jambs are far apart and seem to belong to two high windows, the other jambs and the wall between them having been destroyed. The considerable height of these windows suggests a room of some stateliness and importance.

The south part of the west wall shows several similar stone jambs of only moderate height, indicating that this end of the building was in two storeys. There are, however, no traces of the wall which must have divided the one-storey part from the two-storey part.

The masonry generally is of first rate quality and evidently belongs to the same period, early 13th century, as the undercroft below.

This west range has been called from analogy with other houses, the Cellarers' Range. Perhaps it was so. Perhaps it was the Prior's Lodging.

I may add that Mr. Russell confessed to having removed two of the columns which had supported the vaulting of the Chapter House. I expressed my regret.

Old House in St. Thomas' Churchyard, Winchester.

At the back of St. Thomas' Churchyard there stand two brick houses. The right-hand one has windows with wood mullions and transoms, and is, I am told, the old rectory house. The left-hand house has sash windows. It would appear that the rectory is of the late 17th century, and its neighbour early 18th. Or perhaps they were built at the same time, the one by an old-fashioned father, and the other by his up-to-date son.

The garden of the rectory house is enclosed by walls. The north wall has several of those small recesses which one so often sees in old walls facing south. I only mention these in the hope that someone here will be able to explain them to me. It has been suggested that they were for keeping falcons, there being, of course, a mews of lattice-work or something equivalent to wire netting, in front. They do not seem very well adapted to this purpose, being large and shallow and far apart. Perhaps they were only to break the monotony of a long wall. But one example that I know, in the Eastern Counties, is small and deep, and has in one side a secondary recess which would form quite a cosy corner for the hawk.

The back part of the other house is one of those old-fashioned rooms; combining wash-house, bake-house, and brew-house. It is lofty; it has an open timber roof, much mutilated, but with character and built of heavy oak timbers. Evidently the building which this roof covered was of timber with oak posts and stout studs, some of which remain. It seems clear that it is a late medieval building. I think that a cellar under the front part of the house is of the same period.

I suggest that this timber building, originally about 35 feet by 14 feet was the hall of some gild or fraternity. I do not know if there was a gild of St. Thomas, but I expect there was and that this is their hall.

T. D. A.

FIELD MEETINGS, 1936.

Clarendon Palace, Salisbury Cathedral Glass, Figsbury Rings.

The first field meeting of the season took place on Wednesday, May 20th, under the direction of Sir Charles Close, and the members passed the borders of the county into Wiltshire. The ruins of the 12th century royal palace in Clarendon Forest were first visited. Dr. Tancred Borenius, F.S.A., gave a short talk on the history of the site and palace. Clarendon was unfortified, and came into being as a royal country house, or hunting house. By the time of Henry II Clarendon had become an important palace for State functions, owing to its nearness to Winchester, at that time the most important city of England. The Constitutions of Clarendon were drawn up in 1164, and there was the Assize of Clarendon in 1166. Henry III had also a particular fondness for Clarendon. In the reign of Edward III there was a further period of building, and Henry VI visited Clarendon repeatedly. At the end of the 15th century the palace became of less importance, was allowed to lapse into decay, and began to be used as a stone quarry.

Mr. John Charlton, M.A., the principal collaborator with Dr. Borenius, then conducted the party round the excavations and described the features revealed on a site unique in its character in England.

The romantic story of the recovery of much of the ancient glass was told to the members at Salisbury Cathedral by the Rev. Stanley Baker, D.D. In the years 1789-91 restoration work was entrusted to James Wyatt, the architect, who left a trail of destruction behind him all over England. Probably the lead work of the windows was in a bad state and would be expensive to replace and Wyatt scrapped the 13th century glass, which had now been recovered from the town ditch. Much more of about 1400 he acquired from a garden summer house at Shrewsbury and still more came from Washington, Rhode Island, U.S.A. Some of the 13th century glass has since been given to Winchester Cathedral.

Finally, a visit was paid to the great earthwork of Figsbury, about 5 miles from Salisbury. Dr. Williams-Freeman described it as of the Early Iron Age "A" type, and it embraces 15 or 18 acres with an enormous single bank and ditch. Inside was another big ditch with no suspicion of a bank on either side. Captain and Mrs. Cunningham had dug the ditch and came to the conclusion that it was a quarry for the erection of the large outer bank.

Yarmouth, I.W.

Under the genial guidance of Mr. G. W. Colenutt, F.G.S., the members paid a visit to the Isle of Wight on Wednesday, May 27th. Mr. Colenutt is one of the original members of the Society and has arranged and directed over sixty meetings in the Island. Landing at Cowes, a visit was first paid to Yarmouth church where the rector (the Rev. S. H. Woodin) read a paper on the ecclesiastical history of the borough; he acknowledged the help of Captain A. G. Cole in its preparation. Yarmouth once possessed two churches and the one at the east end of the town was destroyed by the French in 1377. The present church was then much damaged and again in 1517 was practically destroyed in another French raid. The present church was consecrated in 1626. The statue of Admiral Holmes and other features were described, and afterwards inspected.

The party then adjourned to the Town Hall where the borough seals, mace, and charters were on view. An interesting talk on the town's history was given by Captain A. G. Cole.

After luncheon the members visited the Castle, thus supplementing their inspection of King Henry VIII's castles at Hurst and Calshot in 1935. Mr. Colenutt gave a talk on the geological features of the cliffs between Newtown and Yarmouth, where the Hamstead Beds are exposed; he drew special attention to this unique feature. A protest was made by a member against the use of the cliffs as a rubbish dump. An interesting talk followed and Mr. Colenutt explained the formation of the shingle banks off Totland Bay and gave his reasons for thinking a Solent tunnel to be impracticable.

Botanical Meeting at Broughton.

A Botanical day on Wednesday, June 3rd was directed by the Rev. H. Purefoy FitzGerald, F.L.S. (see page 266).

Cerdic's Ford, Breamore, Ellingham, and Moyles Court.

The Club spent a full and interesting day in the Ringwood district on Tuesday, June 23rd. Assembling near Hale Church, members listened to the story of Cerdic's invasion, from the lips of Dr. Williams-Freeman. He gave reasons for the probability of the landing at Eling. Cerdic fought the Britons the same day and established himself. Thirteen years later, in A.D. 519, the British king, Natanleod, was killed at Cerdicesford. The battle was, he believed, fought at the place called Breamore Marsh, still known in the 18th century as "The Bloody Marshes." He went on to discuss the rival claims of Hampshire and of the Upper Thames valley as the West Saxon centre.

At Breamore Church Dr. A. R. Green, F.S.A., described in detail the notable Saxon features of the church, which dates from late in the 10th or early in the 11th century. The late Mr. W. J. Andrew, F.S.A., had dated the inscriptions, on the side walls of the chancel arches, to 1018.

Ellingham Church was described to the members by the rural dean, the Rev. E. P. Boys-Smith, on behalf of the rector. Features of the church are the 15th century choirscreen with preacher's hour-glass; the rood-loft entered from a porch, with original paintings, apparently of two angels censuring the Lord crucified; the Jacobean pulpit; the Moyles Court family pew, where doubtless Dame Alice Lisle sat many times; the reredos attributed to Grinling Gibbons, and a picture by a Spanish painter, brought from near Cadiz by Admiral Lord Winter. Mr. Boys-Smith's remarks were supplemented by Dr. Green, who described the rood-loft in detail.

In the garden of Moyles Court the members were hospitably entertained by Commander and Mrs. Liddell. Mr. F. Warren, F.S.A., read a paper on "Alice Lisle and Moyles Court," based largely upon the researches of Mr. Fred. Fane, a former owner of Moyles Court, and upon the official report of the State trial of Alice Lisle.

Botanical Meeting at Crab Wood, Ashley and King's Somborne.

A Botanical Day on Monday, July 6th, was directed by the Rev. H. Purefoy FitzGerald, F.L.S. (see page 267).

Norman Church Architecture.

As a sequel to the day of study of Saxon architecture in 1935, Dr. A. R. Green, F.S.A., directed a half day's visit to Romsey Abbey and St. Cross Church, Winchester. Wednesday, July 15th, was the date chosen. Assembling in Romsey Abbey the members listened to a carefully prepared paper on "Norman

Ecclesiastical Architecture." Dr. Green then conducted the party round the Abbey and described in detail the features of the Norman architecture.

After tea the members proceeded to St. Cross, where Dr. Green read a further paper on "The Transitional Norman Period." An interesting afternoon, spent in architectural study, was much appreciated by the members.

Isle of Purbeck and Corfe Castle.

The members invaded Dorset on Tuesday, August 18th, for the study of the geology of the Isle of Purbeck. The Hon. Secretaries were the directors for the day and the party was met at Wareham by Mr. A. Gibbons of the Dorset Archaeological Society. Mr. Gibbons proved to be enthusiastic and interesting in his descriptions of the geology of the area. Luncheon was taken on Warbarrow Tout, a beautiful coastal headland, whence a fine view of the geological strata, from Jurassic to Cretaceous, may be seen. Mr. F. Warren, F.S.A., read "Some Notes on Purbeck Marble," dealing with the widespread ecclesiastical use of the so-called "marble" from 1180—1330, and the decline of the craft and its supersession by other materials about the middle of the 14th century.

At Corfe Castle the party were met by Dr. Dru Dury, F.S.A., who described the history and architectural features in a most interesting way.

Bentley, Farnham Castle, and Badshot Lea Long Barrow.

After visiting Bentley Church, the members crossed the Surrey borders on Tuesday, September 1st, under the direction of Dr. J. H. Gibson of Aldershot. At Bentley the party were welcomed by Bishop Chandler, the rector, and Dr. Gibson read some notes on the Church and Hundred. The manor and liberty belonged from an early date to the Bishop. There is much late Norman work in the church, and the chapel in the south of the chancel was built early in the 15th century.

After luncheon in Farnham Park the Castle was visited, and the members were met and welcomed by the Bishop of Guildford, Dr. Macmillan. Dr. Gibson contributed a series of notes on the architectural and historical features of the Castle. Members noted the changes in the internal arrangements at the Castle, and by the kindness of the Bishop they were privileged to visit the private apartments.

Excavations in progress on a neolithic site at Badshot Lea were visited by the invitation of Mr. Alex Keiller, F.S.A. The site was discovered by Mr. W. F. Rankin, and at first seemed to be a neolithic causeway camp. The completion of the excavations, a week after the Club's visit, proved it to be a Long Barrow, a rare and unexpected feature in the neighbourhood.

Ludgershall Castle, and Sidbury.

The last field meeting of the season, on Wednesday, September 23rd, was favoured with delightful weather, and attracted a field of some 150 members. Dr. Williams-Freeman, the Director for the day, explained that Ludgershall was the only Norman Castle with double banks and ditches. Not much was known of its history, though the Empress Matilda spent the night there after her dramatic escape from Winchester Castle. At Ludgershall there was originally a third bank and ditch that enclosed the town and the church, but only one little bit now remained. Canon Goddard had suggested that the Normans made use of a late British fortification there, and utilised it in the defences of their castle. He did not quite see how it was done, but he admitted the possibility.

The 25 barrows on Snail Down were next visited. Almost all of the groups are bell barrows or bowl barrows of the Middle Bronze Age, 1700 to 1000 B.C. Attention was drawn to a twin barrow within the same ditch enclosure. Then there was the Hunter's Barrow, excavated by Colt Hoare, which contained human remains and those of a small dog.

On the lofty ramparts of Sidbury Camp the Director gave a talk on Early Iron Age camps. Sidbury was placed on the important ridgeway road between Nine Mile Water and The Bourne. The people who lived at Sidbury in prehistoric days had no trouble about sling stones, by reason of the pebbles from the Reading beds that capped the chalk there. Sidbury had four entrances, all believed by Colt Hoare to be original. There was a good example at Sidbury of a rectangular outwork which came in and joined the main entrance. The Director gave an interesting talk on the questions: Were the great camps at Cranborne Chase made by the South-Western people from Cornwall and Devonshire? Or were these camps made by the Belgae resisting invasion from the South-West? Dr. Williams-Freeman then went on to discuss the subject of bivallate ditches, of which there were no fewer than five radiating from Sidbury. Most people had now come to the conclusion that these were cattle ways, dug for cattle to traverse when going through cultivated country.



THE HAMPSHIRE FIELD CLUB AND ARCHÆOLOGICAL SOCIETY.

FINANCIAL STATEMENT for the Year ended 31st December, 1936.

RECEIPTS.				£	s.	d.	£	s.	d.
To Balance, brought forward from 31st									
December, 1935	...	...	...				65	16	11
„ 39 Entrance Fees @ 5/-	...	...	...				9	15	0
„ 1 Subscription—1930 @ 10/6	...	...	...	10	6				
„ 1 „ 1931 @ 10/6	...	...	...	10	6				
„ 1 „ 1932 @ 10/6	...	...	...	10	6				
„ 1 „ 1933 @ 10/6	...	...	...	10	6				
„ 4 Subscriptions—1934 @ 10/6	...	...	...	2	2	0			
„ 30 „ 1935 @ 10/6	...	...	...	15	15	0			
„ 4 „ 1935 @ 15/-	...	...	...	3	0	0			
„ 310 „ 1936 @ 10/6	...	...	...	162	15	0			
„ 102 „ 1936 @ 15/-	...	...	...	76	10	0			
„ 3 „ 1937 @ 10/6	...	...	...	1	11	6			
„ 1 Subscription—1937 @ 15/-	...	...	...	15	0				
							264	10	6
„ Visitors' Fees for the year	...	...	...				20	17	6
„ Sale of St. Catherine's Hill Volume	...	...	...				4	7	6

(Signed) J. P. PURVIS,
Hon. Treasurer.

36 & 38 Above Bar,
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We have examined the foregoing Receipts and Payments Account for the year ended 31st December, 1936, with the Books and Vouchers relating thereto and find the same to be in accordance therewith.

(Signed) WHITTAKER, BAILEY & CO.,
Southampton,
2nd February, 1937.
Hon. Auditors.

£365 7 5

PAYMENTS.				£	s.	d.	£	s.	d.
By Subscriptions to:—									
Society for Protection of Ancient Buildings	...	...	...	1	1	0			
English Place-Name Society (2 years)	...	...	...	1	10	0			
Royal Society for Protection of Birds	...	...	...	1	1	0			
Commons, Open Spaces and Footpaths Preservation Society	...	...	...	1	1	0			
„ Hon. Secretary's Expenses (1936)	...	...	...				4	13	0
„ Hon. Editor's Expenses (1936)	...	...	...				4	15	3
„ Hon. Treasurer's Expenses (1935 and 1936)	...	...	...				2	16	6
„ Miscellaneous Expenses:—							4	18	1
Printing, Addressing, Postages, etc.	...	...	...	40	12	11			
Printing Balance Sheets (1935)	...	...	...	1	4	0			
Hire of Committee Room	...	...	...	1	18	6			
Official Year Book	...	...	...	8	6				
Cheque Book	...	...	...	5	0				
Four Subscriptions refunded	...	...	...	2	2	0			
Figsbury Rings Excavation Report	...	...	...	5	0				
S.E. Union of Scientific Societies—									
Affiliation Fees (2 members)	...	...	...	15	0				
Maiden Castle Excavation Fund	...	...	...	2	2	0			
							49	12	11
„ Balance of printing <i>Proceedings</i> , Vol. XIII, Part I (from 1935)	...	...	...	83	8	4			
„ Printing <i>Proceedings</i> , Vol. XIII, Part II	...	...	...	141	13	0			
„ Postages, Fees, etc.	...	...	...	9	12	0			
							234	13	4
„ Expenses <i>re</i> Photographic Section	...	...	...				25	19	11
„ Balance at Bank, at 31st December, 1936							37	18	5
							<u>£365</u>	<u>7</u>	<u>5</u>

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1957

It is not possible to predict the future of the world, but it is possible to predict the future of the world as it is. The world as it is is a world of peace and cooperation, and it is this world that we must strive to create.

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HAMPSHIRE FIELD CLUB

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Wilson, Miss A. J., 19 Bembridge Crescent, Southsea.

Wilson, Sir Harry, K.C.M.G., K.B.E., 5 Compton Road, Winchester (the late).

Wiltshire, Miss S. A., 55 Gain's Road, Southsea, Hants.

Winchester, Public Library, per F. W. C. Pepper, F.L.A., Jewry Street.

Winn, W. J. G., The Manor Farm, Stockbridge, Hants.

Wood, Miss, Shalden Cottage, Alton, Hants.

Wood, Miss Edith M., Warnford Cottage, Warnford, Bishop's Waltham, Hants.

Wood, Dr. J. Arthur, Lymington Road, Milford-on-Sea, Hants.

Woodd, Arthur B., Lieut.-Commander, R.N.V.R., Heckfield, Milford-on-Sea, Lymington, Hants.

Woods, Geo. T., Redvers, Grove Road, Sandown, I.W.

Woolley, Mrs. Margaret Helen, Wootton House, Wootton St. Lawrence, Basingstoke, Hants.

Woolley, Miss Margaret Frances, Wootton House, Wootton St. Lawrence, Basingstoke, Hants.

Worthington-Wilmer, Mrs., Vineyards, Beaulieu, Brockenhurst, Hants.

Wrey, Commander E. C., R.N. (ret.), Boarmans, Beaulieu, Hants.

Yeldham, Mrs. C. C., Stanleys, New Milton, Hants.

Errors, or omissions from the above list should be notified to: The Hon. Secretaries, Hampshire Field Club, Staple Garden, Winchester.

(The List has been revised, and corrected, 10 May 4th, 1937.)

Past-Presidents.

1885—1888	F. DE CHAUMONT, M.D., F.R.S. (the late).
1888—1891	W. WHITAKER, B.A., F.R.S., F.G.S. (the late).
1891—1893	W. E. DARWIN, B.A., F.G.S., J.P. (the late).
1893—1895	THE VERY REV. THE DEAN OF WINCHESTER (THE VERY REV. G. W. KITCHIN, D.D., F.S.A.) (the late).
1895—1896	W. WHITAKER, B.A., F.R.S., F.G.S. (the late).
1897—1898	B. W. GREENFIELD, M.A., F.S.A.
1898—1900	THE RIGHT HON. THE EARL OF NORTHBROOK, G.C.S.I., D.C.L., F.R.S. (the late).
1900—1902	WILLIAM W. PORTAL, M.A., F.S.A. (afterwards SIR WM. W. PORTAL, BART.) (the late).
1902—1904	J. H. OGLANDER, F.S.A. (the late).
1904—1906	W. F. G. SPRANGER, J.P. (the late).
1906—1908	THE MOST NOBLE THE MARQUIS OF WINCHESTER.
1908—1910	SIR WILLIAM W. PORTAL, BART., M.A., F.S.A., D.L. (the late).
1910—1912	THE RIGHT HON. THE EARL OF NORTHBROOK (the late).
1912—1914	THE RIGHT HON. THE LORD MONTAGU OF BEAULIEU (the late).
1914—1916	SIR WILLIAM W. PORTAL, BART., M.A., F.S.A., D.L. (the late).
1916—1918	C. E. KEYSER, M.A., F.S.A., D.L., J.P. (the late).
1918—1920	DR. DUKINFELD SCOTT, F.R.S., F.L.S., F.G.S., LL.D., D.SC. (the late).
1920—1922	THE RIGHT HON. THE LORD MONTAGU OF BEAULIEU (the late).
1922—1924	THE RT. HON. BEATRICE COUNTESS OF PORTSMOUTH (the late).
1925—1926	THE RT. HON. THE EARL OF NORMANTON (the late).
1926—1929	DR. J. P. WILLIAMS-FREEMAN, M.D., J.P.
1929—1932	SIR CHARLES CLOSE, K.B.E., C.B., C.M.G., SC.D., F.R.S.
1932—1935	DR. J. P. WILLIAMS-FREEMAN, M.D., J.P.
1935—1936	SIR CHARLES CLOSE, K.B.E., C.B., C.M.G., SC.D., F.R.S.
1936—	LIEUT.-COL. J. B. KARSLAKE, T.D., J.P., M.A., F.S.A.

The Editor will welcome contributions relating to the subjects dealt with by the Society ; and review copies of books dealing with Hampshire and the Isle of Wight. Address : Rev. F. N. Davis, Rowner Rectory, Lee-on-the-Solent, Hants.

The Rev. F. N. Davis is County Correspondent for The British Archaeological Association, and would be very glad to receive news of local finds and any other archaeological information with a view to passing it on to the central authority.

RULES.

Name and Objects.

Rule 1.—The name of this Society is "The Hampshire Field Club and Archaeological Society," and the object of the Club is the Study of the Natural History and Antiquities of the County.

Headquarters.

Rule 2.—The headquarters of the Club are at Winchester.

Members.

Rule 3.—The Club shall consist of ordinary members and of honorary members.

• Rule 4.—Scientific persons of distinction, non-resident in the County, may be proposed and elected as honorary members of the Club at any meeting of the Council.

Rule 5.—Ladies are eligible for election as members and officers of the Club.

Rule 6.—Candidates for membership must be proposed and seconded by two members of the Club. The proposer must be personally acquainted with the candidate. Candidates thus proposed and seconded shall be elected to the Club by the ballot of the Council. Three black balls to exclude.

Rule 7.—The proposer of any candidate is required to state the particular branch of Natural History or Antiquities in the study of which any candidate for admission into the Club is engaged or is interested, or any other qualification, or special line of study.

Officers.

Rule 8.—The Officers of the Club to be elected at the Annual Meeting shall consist of a President, 4 Vice-Presidents, Treasurer, Editor, Secretary or Secretaries, and Chief Subject Secretary. Also the Local Secretaries shall be elected by the Council. If at the Annual General Meeting the number of nominations for the posts of President, Vice-Presidents, Members of Council or any of the Hon. Officers of the Club exceeds the vacancies, the election in each case shall be by ballot. Members cannot vote unless all their subscriptions have been paid including that for the then current year.

Rule 9.—The President and Vice-Presidents shall not hold office for more than three years consecutively.

Hon. Editor.

• Rule 10.—The Editor shall, if possible, publish a volume of the *Proceedings* in each year which shall contain the reports of the Subject Secretaries and an account of the Meetings and Excursions of the Club and such other matters as the Editor thinks desirable.

Rule 11.—The publications from other societies which are received in exchange for those of the Hants Field Club shall be regarded as the property of the Club.

Hon. Secretaries.

Rule 12.—The Hon. Secretary or Secretaries shall be responsible for the non-financial business and correspondence, for the arrangements for the General and Council Meetings, and for the sending out of Notices of Field Meetings and other events to every Member.

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Hon. Treasurer.

Rule 13.—The Treasurer shall be responsible for the collection of Subscriptions and the Annual Financial Report and Balance Sheet. Payments to be made by cheque signed by the Treasurer and one other Member of the Council.

Local Secretaries.

Rule 14.—Local Secretaries shall be appointed by the Council for any parts of the County that seem to them desirable. They shall watch the interests of the Club in their respective districts, investigate any matters to which their attention shall be called by any member of the Club and report any matters of interest to the Hon. Secretary or Secretaries.

Subject Secretaries.

Rule 15.—There may be appointed by the Annual Meeting, Subject Secretaries to represent the following and other interests:—Archaeology (including Field Archaeology), Architecture, Botany, Entomology, Geology, Heraldry, Historic Records, Mycology, Numismatics, Ornithology, Paintings, Photographic Records and Engravings.

Rule 16.—The names of such Subject Secretaries shall be printed in the *Proceedings* and their function shall be to foster an interest in their respective subjects, receive communications from other members and make an Annual Report of work done to the Chief Subject Secretary, who shall report further to the Hon. Editor.

Subscriptions.

Rule 17.—The Annual Subscription for ordinary members shall be as follows:—(a) For members elected after the Annual Meeting on Wednesday, April 25th, 1934, 15s.; (b) for members elected before the Annual Meeting on Wednesday, April 25th, 1934, 10s. 6d. Subscriptions are due in advance on the 1st January, and from new members on admission, with an Entrance Fee of 5s. The names of persons newly elected shall not be entered on the List of Members until their Subscriptions and Entrance Fees have been paid.

Rule 18.—The *Proceedings* of the Club shall be sent to those members only whose Subscriptions are paid for the year for which such *Proceedings* are issued, and whose names appear, or should appear, in the printed list of members contained therein.

The name of a member whose Subscription for any year is in arrear at the end of June of the following year shall (subject to the discretion of the Council) be removed from the list.

Council.

Rule 19.—The Government of the Club is vested in a Council to be elected at the Annual Meeting and to consist (ex-officio) of:—the Past Presidents, the Officers for the time being, and not less than six other Members.

Rule 20.—Five shall be a quorum of the Council.

Rule 21.—A Council Meeting may be called at the discretion of the Secretary or Secretaries, or shall be held within 21 days on the written request of not less than 5 Members of the Council.

Annual Meeting.

Rule 22.—An Annual Meeting for general purposes shall be held in the early part of each year, on a date to be decided by the Council, at which the Secretary or Secretaries shall submit a Report, and the Treasurer his Financial Report and Balance Sheet.

Field Meetings.

Rule 23.—Not less than six ordinary Field Meetings shall be held in each year.

Rule 24.—A Meeting of the Council shall be held at least a month before the Annual Meeting to receive suggestions for the Field Meetings, and to draw up a list to be submitted to the members at the Annual Meeting.

Rule 25.—The organization of the Field Meetings (including the limitation, if necessary, of the numbers of members and visitors who can be accommodated) shall be in the hands of the Hon. Secretary or Secretaries who will receive such financial grants for the expenses as the Council shall decide.

Rule 26.—Subject to Rule 25, each member of the Club shall be at liberty to introduce one visitor to each ordinary meeting of the Club. A fee of 2s. 6d. shall be payable for every such visitor, as a minimum Subscription towards expenses.

Rule 27.—Members of the Club who do not attend any meeting after having given notice of their intention to attend, shall be liable for their share of the expenses which may be incurred by the Council in connection with such meeting.

Preservation of Natural Objects and Antiquities.

Rule 28.—The Club shall discourage the practice of removing and rooting up rare plants from their characteristic locality, and the extermination of rare birds, and also use its influence with landowners for their protection.

Rule 29.—The Club shall use its influence to promote the preservation of objects of antiquity.

Alteration of Rules.

Rule 30.—No alteration or addition shall be made to the foregoing rules except at an Annual General Meeting ; and fourteen days notice shall be given of any proposed alteration or addition to the rules.