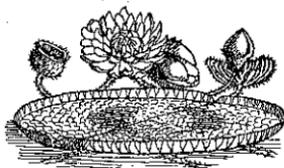


BOTANICAL SOCIETY of the BRITISH ISLES

Victoria regia



Floreat Flora

YEAR BOOK

1950

(INCLUDING DISTRIBUTOR'S REPORTS, 1948, 1949)

EDITED BY

M. S. CAMPBELL and W. R. PRICE

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EDITORIAL

We have pleasure in presenting the second number of the Year Book coupled with an apology for its late appearance.

Members will note that we have been able to fill most of the gaps left in the previous issue and the only time lag remains with the Reports of the Field Meetings. This seems to be unavoidable as considerable time is often required for the study of critical species before lists can be prepared.

We would welcome comments and suggestions and would especially like to know if "Proceedings of Meetings" is of sufficient interest to members to warrant the amount of print expended on it.

Thanks are accorded to our printers, Messrs T. Buncl & Co. Ltd., for their continued kind co-operation.

M. S. C.

W. R. P. June 1950.

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SUMMARY OF THE ABOVE MEMBERSHIP LIST.

Honorary Members	23
Life Members	20
Ordinary Members	..	..	..	..	430
Junior Members	..	..	..	..	16
Family Members	..	..	..	..	2
Subscribers	..	..	..	..	52
					500
Total Membership	..	..	..	..	543

Changes of address and any corrections or additions should be notified to the Hon. Assistant Secretary, Mr W. R. Price, 64 Elsworthly Road, London, N.W.3.

MINUTES OF SPECIAL GENERAL MEETING, 25th OCTOBER 1947

A Special General Meeting was held in the rooms of the Linnean Society, Burlington House, Piccadilly, on 25th October 1947, at 2 p.m.

Mr J. S. L. Gilmour was in the Chair and 55 members were present.

The Chairman expressed regret at the resignation of Mr Chapple from the secretaryship and wished him well in his new work. The meeting then approved unanimously the appointment of Miss M. S. Campbell as Honorary General Secretary.

The meeting then went on to consider the emendations to the Rules proposed by the Rules and Development Sub-Committee and submitted to the members by direction of the Committee. Rule 1. Name of the Society. The result of the Postal Ballot was announced:—

For alteration of name	168
For retention of old name	20
For "The Botanical Society of the British Isles" ...	123
For "The British Botanical Society"	45

The adoption of "The Botanical Society of the British Isles" was formally proposed from the Chair and carried unanimously.

A great deal of discussion took place regarding a number of the proposed emendations commencing from Rule 3 (a). Sixteen members contributed to the discussion either by making proposals and/or speaking either in support of or against them.

A detailed copy of the proposed rules is included in the Minute Book for reference, together with the Rules now current, resulting from the deliberations of the meeting. It is not proposed to enumerate them herein, other than to note that the following proposed rules came under discussion:—Rules 3 (a), (f), (h); 4 (b), (d), (e); 6 (c); 7; 8 (e), (f); 10; 11; 27; 28. All those not listed were those carried unanimously or those remaining the same as previously in force.

The Chairman announced the resignation of Mr Wilmott as Joint Editor and paid tribute to the services which he had rendered to the Society. Dr E. F. Warburg having been nominated by the Committee to act with Mr E. C. Wallace as Joint Editor, the Chairman proposed his election which was carried unanimously.

Miss M. S. Campbell having been nominated by the Committee to fill the newly created office of Field Secretary, the Chairman proposed her election, which was carried unanimously.

On the recommendation of the Committee Mr J. F. G. Chapple and Mr A. J. Wilmott were elected Honorary Members in recognition of the special services they had rendered to the Society.

The Chairman and Vice-Chairman made announcements about the exhibits, including one from the Linnean Society, to be on view at the Tea Party to follow the meeting, and thanked all those contributing.

Miss Campbell reported that 157 people attended at the 1947 Excursions and that the total attendance was 241 (members 205, guests 36). The preliminary programme for 1948 was announced, together with notification of the introduction of an Application Fee to cover expenses incurred in the arrangement of excursions. Miss Campbell also announced that a Conference on "The Study of Critical British Groups" was being arranged to take place in London on April 9th and 10th, 1948.

The Chairman, on behalf of members, made the Presentation of the "Monograph and Iconograph of Native British Orchidaceae" by M. J. Godfery to the Rt. Hon. H. T. Baker in recognition of his long and valued service as Chairman of the Society. Mr Baker, in accepting the gift, made a graceful speech of thanks.

A vote of thanks was warmly accorded to the Linnean Society for the use of their rooms.

The meeting ended shortly after 4 o'clock with a hearty vote of thanks to the Chairman.

OFFICERS' REPORTS FOR 1948

HONORARY GENERAL SECRETARY'S REPORT FOR 1948.

The Society has passed through another year of increased activity, and most of the innovations set in motion or envisaged in 1947 are now in full working order.

Undoubtedly the outstanding feature was the success of the Conference, which had been introduced with some trepidation; that it succeeded and proved popular with members has encouraged its organisers to promote a further one in 1950. It is hoped that the full account of the Conference will be in the hands of all members by the time this Report is issued. (It is in proof at the time of writing this).

The criticism made at the Annual General Meeting, which took place during the Conference, that too little time was set aside for it, has been remembered, and members may rest assured that they will have ample opportunity for discussion at the next one. Members will appreciate that it is a little difficult to gauge the amount of time required, as the duration of A.G. Meetings of the Society have ranged from half an hour to over two hours.

The Report for 1946/47 appeared in the autumn, considerably later than had been hoped. It has been a disappointment that the first number of "Watsonia" was delayed beyond the end of the year. There is still great difficulty in the Printing Trade to be faced.

The Society's next innovation is to be the introduction of a Year Book, the first number of which is now in active preparation. The Publications Committee together with the Council have arranged for the Hon. Gen. Secretary and the Hon. Assistant Secretary to be responsible for it.

Mr Wilmott kindly represented the Society at the Scientific Information Society Conference held in the Rooms of the Royal Society.

The Society has taken an active part in following up threats to the countryside. They were represented at the Purbeck Enquiry by Mr N. Douglas Simpson and by Mr G. W. Temperley at the Ross Links one. A possible danger by the War Office to *Cirsium tuberosum* in Wiltshire was followed up through Mr Grose's good offices and the Ministry of Town and Country Planning, with satisfactory results. The New Forest Bill has likewise not escaped attention (Mr Lousley having read through the Bill), and no doubt many of our members saw the letter in the "Times" of December 18th, signed by our President and Professor Clapham.

At the Council Meeting held on October 29th, a Special Committee, consisting of the Officers and Mr Wilmott, was appointed to deal with all matters connected with threats to the British Flora.

A successful Tea Party was held on October 29th, very ably arranged by Messrs Collenette, Milne-Redhead and Price. A separate account will appear in the Year Book.

The Council met three times during the year and there was much activity among the Committees, especially the Publications Committee.

A Meeting for members in and around London to meet the President and Officers was held at my Flat on February 3rd, 27 members attending.

Details relating to the Membership Register are given by the Hon. Assistant Secretary at the end of my Report. I would, however, just like to mention the loss that the Society has sustained in the death of Miss E. Vachell, one of its "oldest" and most active members. During the many years she had served on the Council and Committees she had been a most regular attendant, and had rarely missed a Council meeting. Mr A. E. Wade kindly represented the Society at her funeral.

Members may like to know a little of the administrative side of the Society. Although the address, through the kindness of Dr Ramsbottom, is c/o Dept. of Botany, British Museum (Nat. Hist.), most of my Secretarial work is done in my Flat, where I have furnished a private office to house temporarily the Society's effects other than stock of publications.

Most of the Committee meetings and one of the Council have been held in my Flat. I either collect letters from the Museum, where I deal with the identifications, or they are forwarded by Mr Wilmott or Mr Bangerter, to both of whom I am very grateful. From time to time I have the services of an experienced shorthand typist, for whom the Society pays. I have also a special desk for the Society's business in my cottage in Perthshire.

All new members receive a personal letter from me, and I deal with all, enquiries and general correspondence.

Through the kindness of Professor Osborn, we have a room in Dr Druce's old house (Yardley Lodge, Oxford), where our publications stock is stored. All orders come to me and are triplicated (one for customer, one for Hon. Treasurer and one for Secretary), and passed once a week to Mr J. H. Burnett, who acts as our representative, and whose two assistants wrap up the parcels. (They each receive a small honorarium for their services.)

Mr Price keeps all the membership records, makes notes for the Minutes of General and Council Meetings, does nearly all the duplicating, and sends out all notices to members of Council.

In the past it was customary for the Hon. Secretary to give an account of his Field activities. I do not propose to go into details, but I think it may be of interest to report that I spent ten days in the Isle of Harris with a small and industrious party, mostly members of the Society, and a week in Ardnamurchan. In September I was in the Valais in Switzerland for eleven days as assistant to the Director of the Institute of Sociology, our member Mr A. Farquharson. I hope some time to write a short account of my botanical work there, as it is of some interest as being the "off season" for botanists.

With the increase in the Society's activity, and the absence of earned income, the time is rapidly approaching when I can no longer carry on the dual role of Hon. General Secretary and Field Secretary (the latter

office involves nearly 500 outgoing letters and cards), which together more or less amount to a whole-time job, and it is with very great regret that I shall be giving up the Field Secretaryship as from the Annual General Meeting. That job, both before and since it was raised to an office, has been of the deepest interest to me, and has enabled me to get to know at least a third of our membership. I would like to thank you all for your co-operation and for the personal touches which have infused the work with so much pleasure to me.

M. S. CAMPBELL.

December 31st, 1948.

ASSISTANT SECRETARY'S REPORT FOR YEAR 1948.

During 1948 46 new members joined the Society. Six members resigned, five ceased to be members under Rule 6 (d), and we lost eight by death; our total loss was nineteen. Our total membership (including all classes) at 31st December 1948 was 481, representing a net gain of 22.

We deeply regret having to record the deaths of the following:—Mr J. S. Whyte, Rev. Dr T. Stevenson, Miss P. A. Leake, Dr H. B. Willoughby Smith, Mr J. W. Long, Miss F. H. B. Marsh, Mrs R. W. Dent, and Miss E. Vachell.

New Ordinary Members, to whom a welcome has been extended, are:—Miss J. E. Alsford, C. E. A. Andrews, C. W. Bannister, Dr N. L. Bor, C. W. H. Burton, B. L. Burt, Mrs Campbell, Dr J. W. Campbell, Mrs Chambre, Miss N. Churchman, Miss V. Churchman, M. Clayton, Miss A. Conolly, Miss H. S. A. Dent, I. W. Evans, A. Farquharson, F. S. E. Fawkes, Mrs A. N. Gibby, Mrs M. S. Goodhart, Miss C. M. Goodman, F. M. Gurteen, D. J. Harbert, Miss A. Kennedy, E. Knott, Prof. B. Lindquist, P. Marler, J. M. McCurdy, Miss M. C. Morgan, W. B. Ogilvie (included in 1947 list in error), M. E. D. Poore, J. P. Ruxton, Dr T. A. Sprague, Miss E. Starr, Miss K. C. Stevens, W. A. Tod, B. T. Ward, H. G. Watson, D. A. Webb, F. N. Whitehead, and Dr W. B. Williams.

- New Junior Members are:—J. K. Morton and A. M. Stuart Smith.
- New Family Member is:—Mrs W. E. Warren.

New Subscriber Members are:—Birmingham Natural History and Philosophical Society, Malham Tarn Field Centre, and Hurst & Son Ltd.

SUMMARY OF MEMBERSHIP, DECEMBER 31, 1948.

Honorary Members	...	...	...	23
Life Members	...	...	...	20
Ordinary Members	...	...	...	393
Junior Members	...	...	...	5
Family Members	...	...	...	2
Subscribers	...	...	...	38
Total	...	...	...	481

HONORARY TREASURER'S REPORT FOR 1948.

ACCOUNTS FOR THE YEAR 1948.

GENERAL FUND.

To Balance from 1947	... £432 5 1	By Printing (other than Report) and Stationery	... £68 3 3
„ Interest on P.O. Savings Bank	... .. 11 12 0	„ Printing 1946-7 Report and Postages	... .. 291 15 6
„ Subscriptions received in 1948	... .. 438 7 10	„ Postages and Petty Expenses:—	
„ Sale of Reports and Reprints	... .. 21 10 11	Hon. Gen. Secretary	... 10 0 11
		Hon. Treasurer	... 10 2 4
		Hon. Editors	... 2 0 0
		Hon. Ass. Secretary	... 4 8 0
		Hon. Ass. Treasurer	... 3 0 0
		Hon. Distributor	... 0 16 0
		(£30 7s 3d)	
		„ Gratuities at Meetings and Hire of Rooms	... 1 17 6
		„ Adverts. in Wild Flower Mag., 1948-9	... .. 2 2 0
		„ Notional Interest transferred to Publications Fund	... .. 8 13 9
		„ Officer's Expenses	... 11 2 3
		„ Fire Insurance on books, etc., at Yardley Lodge	... 0 10 0
		„ Honorarium to Assistants parcelling publications	... .. 1 0 0
		„ Transfer to Journal Fund	200 0 0
		„ Cheque Book	... .. 0 10 0
		„ Secretarial Assistance, Hon. Gen. Secretary	... .. £14 3 6
		„ Hon. Field Work Sec.	... 6 10 0
			20 13 6
		„ Balance	... .. 266 19 10
			20 13 6
			266 19 10
			£903 15 10
			£903 15 10

JOURNAL FUND.

To Transfers from General Fund	... .. £200 0 0	By Balance	... .. £281 18 11
„ Transfer from Life Members' Fund	... .. 79 8 11		
„ Donation	... .. 2 10 0		
	£281 18 11		
	£281 18 11		£281 18 11

PUBLICATIONS FUND.

To Balance from 1947 ...	£346 2 1	By Binding 36 Copies B.P.L.	£14 5 0
„ Sales of Fl. Northants ...	2 2 3	„ Balance	399 15 11
„ Sales Comital Fl. & B.P.L.	57 2 10		
„ Interest for year on Initial balance at 2½% (per General Fund)	8 13 9		
	<u>£414 0 11</u>		<u>£414 0 11</u>

LIFE MEMBERS' FUND.

To Balance from 1947 ...	£225 0 11	By Surplus transferred to Journal Fund	£79 8 11
		„ Balance	145 12 0
	<u>£225 0 11</u>		<u>£225 0 11</u>

MISS TROWER'S FUND.

To Balance from 1947 ...	£11 11 9	By Half-tone Block for Illustration in 1946-7 Report	£2 0 8
		„ Balance	9 11 1
	<u>£11 11 9</u>		<u>£11 11 9</u>

BENEVOLENT FUND.

To Balance from 1947 ...	£41 3 6	By Balance	£41 3 6
	<u>£41 3 6</u>		<u>£41 3 6</u>

FIELD WORK COMMITTEE'S FUND.

To Profit on Tea-Party, 29.x.48	£5 15 2	By Loss on Conference, 9th-10th April 1948	£3 0 3
„ Profit on Excursions organised during the year	17 16 7	„ Postages	0 17 4
	<u>£23 11 9</u>	„ Balance	19 14 2
			<u>£23 11 9</u>

BALANCE SHEET AS AT DECEMBER 31, 1948.

General Fund	£266 19 10	500 National Savings Certificates at cost	£400 0 0
Journal Fund	281 18 11	Cash at Bank	299 18 2
Publications Fund	399 15 11	Deposit at Post Office Savings Bank	476 7 0
Life Members' Fund	145 12 0		
Miss Trower's Fund	9 11 1		
Benevolent Fund	41 3 6		
Field Work Committee's Fund	19 14 2		
Cheques issued but not yet presented	11 9 9		
	<u>£1176 5 2</u>		<u>£1176 5 2</u>

Examined and found correct,
January 30th, 1949.

(Signed) J. E. LOUSLEY,
Hon. Treasurer.
(Signed) C. L. COLLENETTE,
Hon. Auditor.

The financial position of the Society at the end of 1948 is satisfactory. The assets, which exceed those shown on any previous balance sheets, should prove adequate for our immediate commitments, and it is gratifying that the Officers responsible for carrying out our activities can proceed in confidence. Nevertheless the position must not lead to complacency.

As based on our current membership figures, our income from subscriptions may be expected to be about £460 per annum. Actually £438 has been received during the year, and £38 6s is still owing from members. The last figure is somewhat surprising, in view of the efforts made by the Hon. Assistant Treasurer to collect overdue subscriptions, and both Mr Swann and myself have noticed a tendency for the number of members failing to make prompt payment to increase. There has also been a drop of about 25% in the number of new members, as compared with the high level of 1946 and 1947. As a larger membership is essential, if we are to carry out fully our plans for providing greater facilities, it is hoped that 1949 will show an improvement.

Two new Funds have been introduced into the accounts this year. The purpose of the Journal Fund is to finance our new periodical *Watsonia*, of which the first part should appear very shortly. The Field Work Committee's Fund arises out of an undertaking I gave at the Annual General Meeting on April 10, when I stated that in future amounts paid as fees for excursions and indoor activities would be earmarked for the purposes of the Field Work Committee. The profit shown on the year's working is larger than was anticipated, and now that the Committee have a balance available, they will feel less restraint in making arrangements which entail some risk of a loss.

Now that responsibility for the Society's main publication has been transferred to the Journal Fund, the General Fund will be utilised for financing our general activities and the Year Book. Out of the present balance the Council has agreed to pay up to £200 of the cost of a book giving the papers read at the Conference, which is now in the hands of the printer. The Life Members' Fund is at present closed, as it is thought undesirable to accept further compositions for the time being. The opportunity has therefore been taken of revaluing the Fund and reducing the balance to the actual amounts subscribed by present Life Members. The surplus, representing fees paid by deceased compounders, has been transferred to the Journal Fund.

The total amount standing to members' credit at the end of the year in respect of subscriptions paid in advance amounts to £49 1s. In addition we still hold £1 1s 3d on account of a member for publications to be ordered.

J. E. LOUSLEY.

December 31, 1948.

HONORARY EDITOR'S REPORT FOR 1948.

The Report for 1946-47 was published in January 1949. This concludes the series of B.E.C. Reports.

The Report has now been replaced by a new Journal "Watsonia," to appear three or four times a year, and a "Year Book" to be published annually. The former is to contain mainly matters of botanical, the latter of domestic interest.

It was hoped that one or two numbers of *Watsonia* would also be published during the year. For various reasons, among which were the accumulated lag in the production of the Society's Reports, and the decisions necessary on the new format, this was not achieved. Part 1 has, however, now been published; Part 2 is in galley proof, and Part 3 should be in the printers' hands before the Annual General Meeting.

It is hoped that all members will co-operate in making the new publication a success. Material for publication should be sent in as soon as it is ready, and is acceptable at any time of year. Plant Records, however, should be sent in before the New Year, if possible. It is particularly requested that the Instructions to Contributors given on the inside back cover of *Watsonia*, Vol. I, Part 1, should be followed.

The production of the Year Book was postponed, as it was thought that the duplication of such items as the Members' List was unnecessary so soon after the appearance of the 1946-47 Report. The Year Book for 1949 will therefore cover both 1947 and 1948. The Hon. General Secretary has kindly agreed to act as Editor of the Year Book.

The success of the Conference on Critical British Groups was such that it was decided to publish the Proceedings as a separate volume under the editorship of Mr A. J. Wilmott. This is now in galley proof, and it is hoped that it will be in members' hands before long.

E. F. WARBURG.

January 30th, 1949.

HONORARY FIELD SECRETARY'S REPORT FOR 1948.

The Field Work Committee met four times in 1948, two of its meetings being largely concerned with arrangements of the Conference. No details regarding the Conference are included here, as a separate report of it is being circulated to members. I should like to express my thanks to all who helped to make it so successful.

1948 EXCURSIONS PROGRAMME.

Difficulties of organisation were again experienced and for the first time an excursion had to be cancelled. It was with great regret that the visit to Mickleham to study roses, leaders Dr Melville and Mr Sandwith, could not take place because the roses *had been destroyed*.

Attendances at Excursions were as follows:—

Wisley	...	...	...	33
Malham	...	...	...	6
Leicester	...	...	...	32
Dolgelley	...	...	...	32
Hunts.	...	...	...	25

 128

Twenty-five guest invitations were issued. There were also a few local guests at Dolgelley, who attended in addition to the 32 attendances.

I wish to thank leaders and all who co-operated.

Reports of the Excursions will be included in the next issue of the Year Book.

Members may like to know that the recommendation made by the Field Work Committee, that, "if possible, either the Field Secretary, or a member of the Field Work Committee should be present at each of the residential excursions, and that in view of the fact that excursions are now self-supporting, the Council should consider making a contribution from the Field Work Fund towards the travelling expenses of such an official representative"—was accepted by the Council and will take effect at the 1949 Excursions.

May I ask that any members who would care to arrange and/or lead excursions should write to me as early in the year as possible. Suggestions for future excursions are always welcome and receive consideration by the Field Work Committee before the programmes are planned.

M. S. CAMPBELL.

December 31st, 1948.

MINUTES OF THE ANNUAL GENERAL MEETING, 1st April 1949

The Annual General Meeting was held in the Shell Gallery at the British Museum (Nat. Hist.), Cromwell Road, London, on 1st April 1949, at 11 a.m.

Mr A. H. G. Alston was in the Chair and 36 members were present.

Regret was expressed at the unavoidable absence of Mr Gilmour, who was indisposed.

The Hon. Gen. Secretary read the Minutes of the last Annual General Meeting, which were approved and signed.

The HON. GEN. SECRETARY'S REPORT had been circulated.

In reply to Dr Butcher, the Editor said that the Exchange Section Report would continue to be published separately.

Miss Longfield proposed, and Mrs H. Boyd Watt seconded, that the Hon. Gen. Secretary's Report be adopted. Carried.

The HON. TREASURER'S REPORT had been circulated.

Mr Brennan suggested that a Sub-Committee be appointed to consider advertisements in *Watsonia*, and advertising *Watsonia* generally. The Hon. Gen. Secretary replied that a leaflet was in preparation for wide circulation, advertising *Watsonia*, and that advertisements would be put in both *Watsonia* and the Year Book.

Mr Milne-Redhead suggested advertisements of botanical accommodation and was requested to send in names to the Editor.

Dr Butcher disapproved of fees being charged members for attending meetings which they had a right to attend; he objected also to a profit being made on Excursions and on the Tea Party, adding that unnecessary charges keep away young, energetic members. He objected to the 1/- fee for the visit to the British Museum (Nat. Hist.) Dept. of Botany. Mr Graham also objected to the 1/- fee. The Hon. Treasurer replied that fees were charged because expenses were incurred in arranging all meetings. A loss was made on the Conference and a profit on the Tea Party. The Chairman said that fees were for the purpose of ensuring that members attending Excursions, paid for them themselves, and also for keeping down the Society's general expenses. Those who did not attend, did not contribute. The Hon. Gen. Secretary said that in 1948 there had been fewer cancellations than ever before; in 1947 there had been 54. In 1947 it was found that a third of the total members attended Field Meetings. For this reason, at the Marlborough meeting members objected that *all* members were paying for that meeting and that therefore there should be fees. Week-end reduced fees were being introduced. Leaders were only paid postage and telephone expenses. Mr Wilmott confirmed that on one occasion a good tea was given on an excursion, and many people for whom it had been arranged did not turn up. Much work was done by Officers, and expenses were by no means

too high. Mr Ash said that the Tea Party fee was too high, but he approved of fees. Miss Longfield praised the organisers of the Tea Party. The Hon. Gen. Secretary replied that expenses were incurred for arranging the B.M. meeting, as for any other.

Mr Milne-Redhead said he had attended all meetings and had never heard any complaints in the matter of fees. Dr Burges approved of fees to ensure attendance, but objected to combined profit of £23; fees were set too high; voluntary effort should remain; what happens to the profit? The Hon. Treasurer said that the profit of the Field Work Committee was not really so big; see item Secretarial Assistance in General Account, which is partly due to Field Work expenses. The Hon. Gen. Secretary said that the catering at the Tea Party was partly done by the Committee, many members bringing food. No caterers were employed. For the next meeting we shall require a bigger room and caterers. The first estimate this year is 2/- to 2/6 per head for tea, and with printing and tips there will be little profit out of a 3/6 ticket. Mrs Gibby suggested reduced fees for young members. The Hon. Gen. Secretary said that this could be arranged for. It was agreed that the matter be referred to Council. Mr Ash proposed, and Mrs Boyd Watt seconded, that a vote of thanks be accorded to the members who ran the Tea Party. It was proposed by Dr Butcher, and seconded by Dr Burges, that the whole question of fees be referred to Council. The resolution was put to the vote and defeated.

It was proposed by Dr Lambert, and seconded by Mr Simpson, that the Hon. Treasurer's Report be adopted. Carried unanimously.

HON. EDITOR'S REPORT:—The Hon. Editor said that *Watsonia*, I, Part 2, would be published shortly, and that I, Part 3, was in the press. Mr Graham proposed, and Mr F. Rose seconded, that the Hon. Editor's Report be adopted. Carried.

HON. FIELD SECRETARY'S REPORT:—Dr Butcher criticised paying Representatives' expenses. The Hon. Gen. Secretary said that she had had to pay the sum of £50 personally to defray her expenses in arranging the Glen Affric meeting. At present the amount allowed to be paid was a maximum of £2 per representative. Dr Burges said that it was tragic that such a thing should happen, and it must not occur again. He added that all Leaders should volunteer their work without payment. A member suggested that Miss Campbell should be reimbursed immediately. Mrs Gibby felt that hospitality should be accorded to Leaders. The Hon. Gen. Secretary said that Leaders' postages, stationery and telegrams were paid; they might be the Society's guests at tea. It was important that a member of the Field Work Committee should be on every Excursion, but he could delegate the making of reports, lists, etc. The Society should contribute something, and this is now limited to £2. Dr Butcher proposed, and Dr Lambert seconded, that the Hon. Field Secretary's Report be adopted. Carried.

ELECTION OF OFFICERS:—*President.*—The Chairman said it would give him and everybody much pleasure to see Mr Gilmour re-elected. The resolution was carried with applause.

Vice-President.—Mr Alston vacated the Chair, which was taken by Mr Lousley, who said that Mr Alston had been an excellent Chairman. Mr Alston was unanimously re-elected.

Hon. Gen. Secretary, Hon. Treasurer, and Hon. Editor were all re-elected *en bloc*.

Hon. Field Secretary.—Miss Campbell said that she felt unable to continue in this office, and that Dr Dony had consented to be nominated. Dr Dony was unanimously elected.

Members of Council.—There were five vacancies on Council. Nominations for these were:—Mr J. P. M. Brennan, Dr R. W. Butcher, Mr R. A. Graham, Mrs H. M. Richards, and Mr A. E. Wade. These five members were unanimously elected. Dr Warburg proposed, and Mr R. Graham seconded, a warm vote of thanks to Miss Campbell for her services as Hon. Field Secretary, which was carried with applause. Miss Campbell expressed her appreciation and her sorrow at not being able to continue the work.

ALTERATION OF RULES:—It was proposed that Rule 3 (a)—“The Officers of the Society . . . or Joint Editors” shall be altered to read “The Officers of the Society shall consist of a President, ONE OR MORE Vice-Presidents, . . . (etc.)” This alteration was proposed in order to allow for the possible absence of President and Vice-President. Dr Butcher said he thought the terms of office and the number of Vice-Presidents should be limited, e.g. elect one to four Vice-Presidents for a term of not more than two to (say) five years. Mr Wilmott said that the main aim was to keep our President. Dr Butcher proposed the rejection of the proposed alteration. On a vote being taken, the proposed alteration of the Rules was carried by more than two-thirds majority.

ANY OTHER BUSINESS:—The Chairman expressed the thanks of members to the Assistant Secretary, the Assistant Treasurer, Mr Burnett at Oxford and to Mr Wilmott and Mr Bangerter for their help given to the Secretary. Applause.

Mr Ash proposed the thanks of members to the Hon. Gen. Secretary, the Hon. Treasurer, the Hon. Editor and to-day's Chairman. Applause.

The meeting terminated at 12.35 p.m.

OFFICERS' REPORTS FOR 1949**HONORARY GENERAL SECRETARY'S REPORT FOR 1949.**

The past year has seen no lessening of the Society's activities though it has seen a change in the most notable feature and it is with pride that we draw attention to the record number of publications issued during 1949.

I do not propose to deal in detail with matters covered by other reports, but I would like to stress our indebtedness to the Hon. Treasurer, Hon. Editor, Mr Wilmott and the Publications Committee for the very large amount of work they have accomplished. We have also to thank the Royal Society for making a grant towards the expenses of our publications.

We have followed up a number of threats to the countryside and are in close touch with the newly-appointed Nature Conservancy which has sought our help in various areas. Messrs C. W. Bannister, R. Graham, F. Rose, N. Y. Sandwith have given valuable assistance with their special local knowledge.

Mr G. W. Temperley kindly represented the Society at the Meeting of the British Association at Newcastle.

The Field Meetings Programme was carried out as arranged, and a most successful Exhibition Meeting was held in the rooms of the Royal Horticultural Society on October 22nd. We are very grateful to the organisers and exhibitors. A separate account of this meeting, together with reports of field meetings, will appear in the Year Book.

The Council met four times during the year and accomplished a great deal of work. It is a matter for regret that it does not meet more frequently and avoid the too lengthy sessions that are at present required (4 hours and 50 minutes at the February meeting). Committees have met frequently and the Publications Committee and Field Work Committee have been particularly active. The Special Committee appointed to deal with threats to the British Flora has proved a useful innovation.

I would like to record my thanks to the Honorary Assistant Secretary, Mr W. R. Price, for taking much work off my hands. He gives details relating to the Membership Register in a separate report.

I would like to take this opportunity of saying how much we regret the death of Mrs T. J. Foggitt, who was intimately connected with this Society for many years, a close friend of the late Dr Druce and a personal friend of so many of us. Mr N. Douglas Simpson kindly represented the Society at her funeral.

We are particularly pleased to welcome a number of Junior Members and hope that they will encourage others to join their ranks in

the near future. Every effort should be made to increase the Society's membership and I would ask each member to propose at least one friend during 1950. A leaflet advertising *Watsonia* has been widely circulated to Institutions, Natural History Societies, etc., and may be had on application together with the Society's Prospectus.

To maintain all our activities even with the present membership must involve us in reorganisation of our administration if we are to continue to give so much in return for so small a subscription, and it is hoped that the Council will have proposals for wider sharing of work to put before the Annual General Meeting.

My own field activities were reduced to a minimum last season, but I managed a week in an almost unknown area in v.-c. 97 and was able to continue studies of the French Alpine Flora in an all too brief visit to La Grave and district when I was invited to accompany Dr Howarth and his students. We were fortunate in having with us Professor Netien, a distinguished botanist with much local knowledge, together with his Assistant and two students from the University of Lyon.

The Society is indebted to so many people for assistance in various ways that it is impossible to name them all individually: I would, however, like to express thanks to the following:—Dr J. Ramsbottom for housing my "Office," Professor Osborn for continuing to accommodate our stock at Oxford and to Mr J. H. Burnett and his helpers for dealing with orders; the Linnean Society of London and the Royal Horticultural Society; Mr Wilmott for the immense amount of help he gives in addition to what is obvious—he has not missed a single Council meeting for at least three years; Mr E. L. Swann for acting as Distributor and Mr Bangertter for his kindness and reliability in dealing with correspondence during my absences.

M. S. CAMPBELL.

December 31st, 1949.

ASSISTANT SECRETARY'S REPORT FOR 1949.

During 1949 46 new members joined the Society. Seventeen members resigned, four ceased to be members under Rule 6 (d), and we lost thirteen by death; our total loss was 34. Total membership of all classes at 31st December 1949 was 497.

We deeply regret having to record the deaths of the following:—E. G. Baker, Dr T. R. Davey, Mrs T. J. Foggitt, the Hon. Mrs M. Glyn, T. H. Green, Miss I. M. Hayward, J. Jack, Mrs M. A. McCrea, C. Pearson, Mrs F. L. Rees, Miss E. S. Todd, Lt.-Col. G. A. R. Watts, A. Wilson.

New Ordinary Members, to whom a welcome has been extended are:—E. B. Bangertter, A. D. Bradshaw, Miss B. W. Chalk, Lt.-Col. W. O. Cobbett, Miss E. V. Crellin, R. H. Deakin, Mrs J. F. Eastwood, J. A. Egerton, Miss M. M. Farquharson, Miss M. B. Gerrans, R. C.

Harris, J. A. Hay, J. Heslop-Harrison, J. D. Hinde, K. J. Hodges, R. C. L. Howitt, Miss M. M. Hyde, V. Jacobs, Miss M. Jacques, Miss M. M. Jones, J. H. G. Peterken, Mrs D. M. Pittman, W. Ramsden, Mrs J. E. Richards, B. W. Ribbons, J. G. Roger, G. H. Sewell, Mrs L. P. M. Small, Miss N. M. Stalker, Dr J. Swaffield, J. H. Tisdall, I. Tully, P. J. Wanstall, A. W. Westrup, A. R. Wheatley.

New Junior Members are:—D. E. Allen, M. C. Grigg, B. Hopkins, D. W. Jowett, T. R. Laycock, Miss M. E. Price, C. A. Sinker, P. F. Vernon, L. H. Williams.

New Subscriber Members are:—The Barrow Naturalists' Field Club and the Cheltenham and District Naturalists' Society.

SUMMARY OF MEMBERSHIP, DECEMBER 31, 1949.

Honorary Members	...	...	...	23
Life Members	...	...	...	20
Ordinary Members	...	...	...	398
Junior Members	...	...	...	12
Family Members	...	...	...	2
Subscribers	...	...	...	42
				<hr/>
Total Membership	...	...	...	497
				<hr/>

HONORARY TREASURER'S REPORT FOR 1949.
ACCOUNTS FOR THE YEAR 1949.

GENERAL FUND.

<table border="0" style="width: 100%;"> <tr> <td>To Balance from 1948</td> <td style="text-align: right;">£268 19 10</td> </tr> <tr> <td>„ Interest for 1948 on Post Office Savings Bank Account</td> <td style="text-align: right;">11 18 0</td> </tr> <tr> <td>„ Grant from Field Work Committee's Fund towards cost of printing reports of Excursions</td> <td style="text-align: right;">5 0 0</td> </tr> <tr> <td>„ Receipts from Advertisements in Year Book, 1949</td> <td style="text-align: right;">0 14 6</td> </tr> <tr> <td>„ Subscriptions received during the year</td> <td style="text-align: right;">492 3 4</td> </tr> </table>	To Balance from 1948	£268 19 10	„ Interest for 1948 on Post Office Savings Bank Account	11 18 0	„ Grant from Field Work Committee's Fund towards cost of printing reports of Excursions	5 0 0	„ Receipts from Advertisements in Year Book, 1949	0 14 6	„ Subscriptions received during the year	492 3 4		<table border="0" style="width: 100%;"> <tr> <td>By Subscription to Press</td> <td></td> </tr> <tr> <td> Cuttings Agency</td> <td style="text-align: right;">£2 2 0</td> </tr> <tr> <td> „ Hire of Rooms for Council and Committees</td> <td style="text-align: right;">3 8 9</td> </tr> <tr> <td> „ Cheque Book</td> <td style="text-align: right;">0 10 0</td> </tr> <tr> <td> „ Printing Year Book, 1949, and postages thereon</td> <td style="text-align: right;">79 17 7</td> </tr> <tr> <td> „ General Printing, Stationery, etc.</td> <td style="text-align: right;">46 9 4</td> </tr> <tr> <td> „ Fire Insurance on Publications, etc., at Yardley Lodge</td> <td style="text-align: right;">0 15 0</td> </tr> <tr> <td> „ Advertising</td> <td style="text-align: right;">—</td> </tr> <tr> <td> „ Postages and Petty Expenses—</td> <td></td> </tr> <tr> <td> Hon. General Secretary</td> <td style="text-align: right;">£9 9 11</td> </tr> <tr> <td> Hon. Assistant Secretary</td> <td style="text-align: right;">4 0 0</td> </tr> <tr> <td> Hon. Treasurer</td> <td style="text-align: right;">10 16 6</td> </tr> <tr> <td> Hon. Assistant Treasurer</td> <td style="text-align: right;">3 0 0</td> </tr> <tr> <td> Hon. Distributor</td> <td style="text-align: right;">0 19 6</td> </tr> <tr> <td> Hon. Editors</td> <td style="text-align: right;">5 10 0</td> </tr> <tr> <td></td> <td style="text-align: right; border-top: 1px solid black;">33 15 11</td> </tr> <tr> <td>„ Secretarial Assistance—</td> <td></td> </tr> <tr> <td> Hon. General Secretary</td> <td style="text-align: right;">£18 9 0</td> </tr> <tr> <td> Hon. Field Work Secretary</td> <td style="text-align: right;">2 2 0</td> </tr> <tr> <td> Council Minutes</td> <td style="text-align: right;">2 2 6</td> </tr> <tr> <td></td> <td style="text-align: right; border-top: 1px solid black;">22 13 6</td> </tr> <tr> <td>„ Honorarium to Assistants parcelling publications</td> <td style="text-align: right;">1 1 0</td> </tr> <tr> <td>„ Officer's Expenses</td> <td style="text-align: right;">4 4 5</td> </tr> <tr> <td>„ Notional Interest transferred to Publications Fund</td> <td style="text-align: right;">9 19 8</td> </tr> <tr> <td>„ Transfers to Journal Fund</td> <td style="text-align: right;">250 0 0</td> </tr> <tr> <td>„ Transfer to Publications Fund (in exchange for 466 copies of Conference Report sent free to members)</td> <td style="text-align: right;">175 0 0</td> </tr> <tr> <td>„ Balance</td> <td style="text-align: right;">146 18 6</td> </tr> </table>	By Subscription to Press		Cuttings Agency	£2 2 0	„ Hire of Rooms for Council and Committees	3 8 9	„ Cheque Book	0 10 0	„ Printing Year Book, 1949, and postages thereon	79 17 7	„ General Printing, Stationery, etc.	46 9 4	„ Fire Insurance on Publications, etc., at Yardley Lodge	0 15 0	„ Advertising	—	„ Postages and Petty Expenses—		Hon. General Secretary	£9 9 11	Hon. Assistant Secretary	4 0 0	Hon. Treasurer	10 16 6	Hon. Assistant Treasurer	3 0 0	Hon. Distributor	0 19 6	Hon. Editors	5 10 0		33 15 11	„ Secretarial Assistance—		Hon. General Secretary	£18 9 0	Hon. Field Work Secretary	2 2 0	Council Minutes	2 2 6		22 13 6	„ Honorarium to Assistants parcelling publications	1 1 0	„ Officer's Expenses	4 4 5	„ Notional Interest transferred to Publications Fund	9 19 8	„ Transfers to Journal Fund	250 0 0	„ Transfer to Publications Fund (in exchange for 466 copies of Conference Report sent free to members)	175 0 0	„ Balance	146 18 6
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JOURNAL FUND.

To Balance from 1948	... £281 18 11	By Printing Watsonia and postages, etc., thereon—	
„ Transfers from General Fund	... 250 0 0	Vol. 1, Part I	£129 8 8
„ Part Grant from Royal Society	... 75 0 0	Part II	147 18 8
„ Sales of Watsonia, Reports, and Reprints	£32 3 6	Part III	134 12 5
„ Less purchases of Reports for resale	15 6 0	„ Balance	... £411 19 9
	16 17 6		211 18 8
	<u>£623 16 5</u>		<u>£623 16 5</u>

PUBLICATIONS FUND.

To Balance from 1948	... £399 15 11	By Binding 50 copies of Comital Flora	... £7 15 0
„ Interest for year on initial balance at 2½% (per General Fund)	... 9 19 8	„ Printing 1900 copies of the 1948 Conference Report (British Flowering Plants and Modern Systematic Methods)	... 256 16 1
„ Sales Comital Flora and British Plant List	... 52 16 5	„ Balance	... 405 1 11
„ Sales of Fl. Northants	... 4 2 5		
„ Sales of 1948 Conference Report	... 2 18 7		
„ Transfer from General Fund in exchange for 466 copies of the Conference Report	... 175 0 0		
„ Part Royal Society Grant	... 25 0 0		
	<u>£669 13 0</u>		<u>£669 13 0</u>

FIELD WORK COMMITTEE'S FUND.

To Balance from 1948	... £19 14 2	By Loss on Exhibition Meeting, October 22, 1949	... £1 15 7
„ Profit on Excursions arranged during 1949	... 2 10 5	„ Deposit on bookings at Isle of Man Hotel (returnable)	... 4 0 0
		„ Grant to General Fund towards cost of printing reports of Excursions	... 5 0 0
		„ Balance	... 11 9 0
	<u>£22 4 7</u>		<u>£22 4 7</u>

LIFE MEMBERS' FUND.

To Balance from 1948	... £145 12 0	By Balance	... £145 12 0
	<u>£145 12 0</u>		<u>£145 12 0</u>

MISS TROWER'S FUND.

To Balance from 1948	... £9 11 1	By Balance	... £9 11 1
	<u>£9 11 1</u>		<u>£9 11 1</u>

BENEVOLENT FUND.

To Balance from 1948	... £41 3 6	By Balance	... .. £41 3 6
	<u>£41 3 6</u>		<u>£41 3 6</u>

BALANCE SHEET as at December 31st, 1949.

General Fund	... .. £146 18 6	500 National Savings Certifi-	
Journal Fund	... .. 211 16 8	cates at cost	... .. £400 0 0
Publications Fund	... .. 405 1 11	Cash at Bank	... .. 84 10 2
Field Work Committee's		Deposit with Post Office Sav-	
Fund	... .. 11 9 0	ings Bank	... .. 488 5 0
Life Members' Fund	... .. 145 12 0		
Miss Trower's Fund	... .. 9 11 1		
Benevolent Fund	... .. 41 3 6		
Cheques issued but not yet			
presented	... .. 1 2 6		
	<u>£972 15 2</u>		<u>£972 15 2</u>

Examined and found correct,
January 21st, 1950.

(Signed) J. E. LOUSLEY,
Hon. Treasurer.
(Signed) C. L. COLLENETTE,
Hon. Auditor.

The accounts issued with this Report reflect activities greater than those of any previous year in the history of the Society. In publications alone (and these are always the major charge on our income) members have received three parts of our new journal *Watsonia* and a *Year Book*. In addition all members (except those who paid their first subscription for the year 1949) received a free copy of *British Flowering Plants and Modern Systematic Methods* by way of compensation for two earlier years when no Report was issued owing to wartime conditions. With the exception of the Distributor's Reports (one of which is now in the press) our publications may now be regarded for financial purposes as being up-to-date although it is hoped to accelerate production of *Watsonia* so that records and papers may appear more promptly than at present.

Whereas all Balance Sheets since 1940 have included substantial sums which we had hoped to return to members later in the form of publications, the present figures are free from arrears with the exception of a relatively small sum for the Distributor's Reports already mentioned. This is the explanation of the reduction in our assets. Unfortunately we are not back in the happy position usual before the war when the balances at the end of each year were sufficient to cover the next year's publications. In the case of the General Fund the balance of £146 18s 6d might suffice for this purpose (*Year Book* plus Distributor's Reports) but the balance of the Journal Fund amounting to £211 16s 8d is little more than half the amount we are likely to require.

Turning to our income and expenditure figures, the position is even less satisfactory. The combined annual income of the General and Journal Funds amounts to about £510 per annum against expenditure

of about £240 for general expenses, the *Year Book* and the *Distributor's Report*, and £410 for *Watsonia*. Thus an additional income of at least £140 is required to maintain our publications at the present level, and even more if they are to be increased.

This deficit has arisen owing to the increased cost of producing an enlarged periodical in more frequent parts. *Watsonia* and the *Year Book* published during 1949 cost £492 compared with £291 for the 1948/7 Report and *Distributor's Report* issued with it. The expectation that our improved publication would be followed by a marked increase in membership has not materialised. Actually the reduction in applications from people wishing to join the Society which became apparent in 1948, has been even more evident in 1949, which produced the lowest net increase since 1944. As subscriptions are our main source of income it is hoped that steps now being taken to make our journal more widely known, and the assistance of members in introducing it to their friends, will rectify the position during the coming year. The gap was partly filled in 1949 by a generous grant from the Royal Society of which £75 was applied towards the cost of printing original papers in *Watsonia* and the balance of £25 towards the cost of the Conference Report.

During the year we have expended the unusually large sum of £15 6s on four purchases of runs of back Reports. Of many of these parts our stocks are low, and it is expected that the Society will benefit from these transactions before the end of 1950.

The Publications Fund figures also call for an explanation. The purpose of this fund is to accumulate proceeds of sales of works compiled and published for the Society by the late Dr Druce, and it is hoped to use the money to finance fresh editions of *Comital Flora* and the *British Plant List*. The cost of *British Flowering Plants and Modern Systematic Methods* (the 1948 Conference Report) debited to this fund has resulted in a net charge of £56 16s 1d, which should soon be covered by the proceeds of sales. The book was issued too late in the year for these to show any appreciable return in the present accounts. Your Council very properly took the view that any arrangements made for financing the book should not handicap our intentions of issuing fresh editions in due course of the works for which the Fund is intended.

The total amount standing to the credit of members at the end of the year in respect of subscriptions paid in advance amounts to £66 13s 6d, and in addition we hold 5s 3d on account of a member for publications to be ordered.

Work in connection with the finances of the Society has increased considerably during the year and I should like to express my appreciation of the loyal assistance of Mr E. L. Swann in collecting subscriptions and of the work of Mr C. L. Collenette as Honorary Auditor.

J. E. LOUSLEY.

December 31st, 1949.

HONORARY EDITOR'S REPORT FOR 1949.

The first three parts of *Watsonia* appeared during the year—in January, April and October. It would appear that these, apart from the cover design, met with general approval, but suggestions for improvement will be welcome.

Part 4 should appear early in 1950 and some material for Part 5 is in the printer's hands.

The delay in publication of papers has been largely overcome and contributors may now, in general, expect to see their papers published within a year of submitting them for publication.

It is hoped that the time lag in publication of such regular features as Plant Records will be gradually overcome.

The cover design has been receiving the attention of the Publications Committee and the Council and it is hoped that a satisfactory cover will replace the present one before long.

The attention of contributors is drawn to the Instructions printed on the inside back cover of each part of *Watsonia*, particularly to the request that MS. should be double-spaced.

The first number of the *Year Book* also appeared during the year, edited by the Honorary General and Assistant Secretaries.

It has been decided that the Distributor's Report instead of forming a separate publication shall be included in the *Year Book*. As this decision was reached too late for the inclusion of the 1947 Report in the *Year Book* for 1949, it will shortly be issued as a Supplement.

The report of the Conference on "The Study of Critical British Groups" was published in October under the title, *British Flowering Plants and Modern Systematic Methods*. The Society is indebted to Mr A. J. Wilmott for editing this publication.

E. F. WARBURG.

December 31st, 1949.

REPORT OF EDITORS OF YEAR BOOK FOR 1949.

The late appearance of the 1949 Year Book was much regretted, but naturally the production of a first number of a publication entails considerable work and consultation. Reports and accounts of Excursions were exclusively for 1947 and accounts of meetings had to be postponed to the next issue. The 73 pages entailed a lot of work, but this will come easier in future, and it is hoped that the number of items of Notices, Instructions and Personalia will continue to increase, so that Year Book will increase in size and interest. We hope in future to send Year Book MSS. to printers during the month of February, and it will be appreciated if members will kindly send in their contributions not later than the middle of January. Members' comments and suggestions concerning the Year Book will be welcome and will receive careful consideration.

M. S. CAMPBELL.

W. R. PRIOR.

December 31st, 1949.

HON. FIELD SECRETARY'S REPORT FOR 1949.

When I took over this office in April 1949 the 1949 Programme of Field Meetings had already been arranged and the previous Hon. Field Secretary, Miss Campbell, kindly undertook to see this through. She reports that all the meetings arranged took place and that 239 applications were received and 29 visitors attended, some of whom have since joined the Society. Detailed accounts of the meetings, of which the one at Kings Lynn was the best attended, will appear in the Year Book. We wish to thank Mrs B. Welch and Mr E. Milne-Redhead who acted as official representatives at the meetings at Kings Lynn and Taunton. Special thanks must be given to Mr Neal and Mr and Mrs Hallam who, although not members of the Society, kindly arranged the Taunton meeting, the trustees of the British Museum (Natural History), the Birmingham Natural History Society for arranging a joint meeting for the benefit of our Midland members and Mrs Welch for assistance with the application files.

Six Field Meetings have been arranged for 1950 and members will shortly receive their Programmes.

Following the success of the 1948 Spring Conference a further Conference has been arranged for March 31st and April 1st, 1950, the subject being the Aims and Methods in the Study of the Distribution of British Plants. A sub-committee under the convenership of Miss Campbell has been formed to make final arrangements for the Conference and Mr W. R. Price has been co-opted to the Field Work Committee to assist in the work.

J. G. Dony.

December 31st, 1949.

EXCURSIONS, 1948

PROGRAMME.

May 8th—Wisley, Surrey.

May 28th to 31st—Malham Tarn, Yorkshire.

June 18th to 21st—Leicester.

June 26th to July 3rd—Dolgelley, Merionethshire.

August 20th to 23rd—Huntingdon.

MAY 8th. THE ROYAL HORTICULTURAL SOCIETY'S GARDENS,
WISLEY.

Leader: Mr J. S. L. GILMOUR.

At 11 o'clock on a warm sunny morning, under a blue sky, a party of 32 met opposite the Hut Hotel, Wisley. Before lunch a walk was taken round Boldermere, the lake in front of the hotel, and the following plants were noticed: *Littorella*, *Eriophorum angustifolium*, *Scirpus caespitosus* and *Hypericum elodes*; on the lake were seen a pair of Great Crested Grebes with three chicks. A small pond to the eastward of the main lake was also visited, and among various interesting finds *Carex Pseudo-cyperus* and *Luzula multiflora* may be mentioned.

After lunch the President, Mr J. S. L. Gilmour, welcomed the party to the R.H.S. Gardens and gave a short account of their history and aims. Small groups under the guidance of Mr Gilmour and Mr Scase then wandered around the Rockery and Wild Garden. Many interesting native plants were seen, in particular, healthy specimens of *Schoenus ferrugineus* transplanted from the doomed station at Loch Tummel. The party re-assembled at 4.15 for tea, most kindly provided in the magnificent Laboratory. After a vote of thanks to the President, Mr Scase showed his albums of plant photographs and the collection of living local wild plants which he maintains for the students.

MAY 28th-31st. MALHAM TARN FIELD CENTRE.

This meeting was arranged at short notice through the kindness of the Council for the Promotion of Field Studies, and we wish to thank all those who assisted, and especially the Warden (Mr Holmes) and Assistant Warden (Mr Douglas) at the Field Centre.

The following account has been contributed by Miss Joan Gibbons.

Only five members (Hon. Marjorie Cross, Mr M. O. A. Foster, Mrs Gibby, Miss Parsons, and the writer) and one guest (Miss Brenda Chalk) journeyed to Malham Tarn Field Centre for this excursion, and were joined by Professor Clapham on Saturday afternoon. The Assistant

Warden, Mr Douglas, who knows the country well, guided the party to the most interesting plants nearby.

On the first evening a thunderstorm, with heavy rain after several weeks of drought, prevented exploring straight away, but information was gleaned from some Manchester Grammar School biology students who asked for help in naming some of their finds.

On Saturday morning Mr Douglas took the party on the Tarn Moss, which is most interesting ground. *Eriophorum vaginatum* was very conspicuous among the heather with *Scirpus caespitosus* and Bilberry. There were a few plants of *Andromeda*, *Rubus Chamaemorus*, *Oxycoccus quadripetalus*, *Drosera rotundifolia*, *Primula farinosa*, and *Empetrum*, and other plants seen were *Cochlearia alpina*, *Potentilla palustris*, *Menyanthes* (badly cut by frost), *Pedicularis sylvatica* and *Vaccinium Vitis-idaea*. There was a small patch of *Trollius* very visible from the drive, and one couldn't help wondering if it had been put there for effect by the same person who had brought *Senecio sarracenicus* into the garden in full view of the windows. There was also some *Alchemilla alpina* and *Lonicera Xylosteuum* evidently planted. There being no expert available, willows were not investigated. *Salix pentandra* was abundant on the Moss with the possibility of a hybrid with *S. repens*. The *Carex* list includes *C. rostrata*, *panicea*, *canescens*, *paniculata* and *paradoxa*.

In the afternoon the party was joined by Prof. Clapham, and visited a bog to the east of the Tarn, passing a scree of limestone on the left, where *Arabis hirsuta*, *Draba muralis*, *Geranium lucidum*, *Saxifraga tridactylites*, *Sesleria*, *Asplenium viride*, *A. Trichomanes*, *A. Rutamuraria*, *Polystichum aculeatum*, *Hieracium maculatum* were found. The bog at the head of Gordale Beck was not attractive at first sight with muddy pools among grassy tufts, however plenty of interest was found; *Primula farinosa* was fairly abundant. One plant of *Orchis latifolia* (pink) and several plants of *Bartsia alpina* and *Antennaria dioica* were seen, and sedges included *Carex dioica*, *C. pulicaris*, *C. Hostiana*, and *C. lepidocarpa*. On a high bank above the beck were *Viola lutea* and *Carex binervis*.

In the plantation surrounding the house there were several segregates of *Alchemilla vulgaris*, also *Geum rivale*.

On Sunday morning the east side of the Tarn, where there is a stony beach, was explored. Above the beach there were a few bog plants, including *Drosera rotundifolia* and *Pinguicula vulgaris*. *Saxifraga hypnoides* was growing among the stones, and, where a spring ran into the Tarn, *Carex dioica* and *Scirpus pauciflorus*. *Arenaria verna* was growing not far from the Tarn outlet.

In the afternoon the Warden took the party in the "Truck" to Malham village. Mr Frankland of Skipton joined them, as well as the Assistant Warden. *Cardamine amara* was seen in Malham Beck, and *Thlaspi alpestre* and *Polemonium* were seen before reaching the Cove. The bank on the left of the Cove was interesting with small limestone

plants and *Geranium sanguineum*, which showed no flower, but may have been picked, as had most of the *Polemonium*. On the top among flat limestone *Actaea* was found and several ferns growing deep down in cracks in the limestone pavement. The dry valley up to Malham Tarn was very barren, the only plant of interest being a tree of *Sorbus rupicola*. *Galium pumilum* was found on limestone screes and *Hippocrepis* behind the house.

JUNE 18th-21st. LEICESTER.

Leaders: Prof. T. G. TUTIN and Mr F. A. SOWTER.

The meeting opened on Friday evening, June 18th, with a conversation held in the Department of Botany, University College, light refreshments being provided by the Department.

The following morning 32 members and friends set off by motor-coach to the south of the county to examine the elms in the neighbourhood of Gilmorton and Lutterworth. Specimens of *Ulmus coritana* Melville, *Ulmus glabra* Huds. and hybrids of these two and *Ulmus Plotii* Druce were collected and their characteristics were explained and discussed by Dr Melville.

The arable fields and roadside hedges of the district were also explored.

The party then moved across the country to the Charnwood Forest area where a stop was made at Groby Pool for lunch. Afterwards members examined the interesting flora of the pool and its surroundings. *Nymphoides peltatum* made a fine show in the pool and the sandy margin yielded *Limosella aquatica*. Other plants noticed were *Rorippa amphibia*, *Spergularia rubra*, *Hypericum humifusum*, *Erodium cicutarium*, *Trifolium striatum*, *Ornithopus perpusillus*, *Typha latifolia*, *Typha angustifolia*.

The next stop was made at Swithland Wood, a sessile oak wood with an interesting ground layer, typical of the woodlands of the Charnwood Forest. Fine clumps of *Carex pendula* were seen.

Tea was taken at Woodhouse Eaves and afterwards a short time was spent on Beacon Hill and Hanging Stone Hills before returning to Leicester.

On Sunday the party left the University again by motor-coach for East Leicestershire and Rutland. Tugby Wood (a pedunculate-oak wood) was visited first to see *Carex strigosa*. *Vicia sylvatica* in the same locality was just beginning to flower, but unfortunately it was too late to see *Myosotis sylvatica* at its best. A visit was then made to Holywell, Lincs. (oolitic limestone pasture) which is included in the area put forward as a Nature Reserve in the report submitted to the Minister of Town and County Planning by the local committee.

The party saw in some profusion *Anemone Pulsatilla*, *Astragalus danicus*, *Thesium humifusum*, *Hippocrepis comosa*, *Orchis pyramidalis*, *Gymnaenia conopsea*, *Coeloglossum viride*.

The afternoon was spent in Clipsham Quarry, where the old disused portions of the quarry have a rich limestone flora. Here the typical form of *Ulmus Plotii* was seen.

The roses attracted the attention of some of the members, and collections were made. The following plants were seen:—*Papaver Rhoeas*, *Hippuris vulgaris*, *Inula Conyza*, *Doronicium Pardalianches*, *Cirsium eriophorum*, *Campanula glomerata*, *Anagallis arvensis* with blue flowers, *Blackstonia perfoliata*, *Cynoglossum officinale*, *Lithospermum officinale*, *Echium vulgare*, *Atropa Belladonna*, *Carex remota*, *Carex acicularis*, *Poa palustris*, the last new to v.-c. 55, *Phyllitis Scolopendrium*.

Tea had been arranged at the Ram Jam Inn, Stretton, and from there the homeward journey was made with two short stops, the first at Bloody Oaks Wood, where an unsuccessful search was made for *Polygala calcarea*, recorded from this station in the *Flora of Leicestershire and Rutland* (1928), and the second at the site on the Ermine Street on the Rutland-Lincolnshire border, which is a station for *Linum anglicum* Mill., where it was seen in flower along with *Orobanche elatior*, and *Anthyllis Vulneraria*.

Those members that stayed over until Monday made an excursion to the canal between Kilby Bridge and Newton Harcourt, where the roses were again studied.

F. A. SOWTER.

JUNE 26th TO JULY 4th. DOLGELLEY (MERIONETHSHIRE).

Leader: Mrs H. M. RICHARDS.

On July 25th between thirty and forty members of the Botanical Society of the British Isles and their guests met at Dolgelley under the leadership of Mrs Richards and others. The main object of the excursion was to add, if possible, to the existing list of plants known to occur in Merioneth, as no complete Flora of the county has been published.

On Friday evening the party assembled at the Golden Lion Hotel. The programme for the week was discussed and it was agreed that as complete a list as possible should be compiled which would form a basis for further study of the botanical features of this interesting and little-worked neighbourhood.

Saturday, June 26th. A bus conveyed the party to Llyn Gwernan and from there they walked up to Llyn Gafri to inspect the "Pillar Lava" rocks above the lake.

The walk was continued across the valley to the rocks above Bryn Rhüg, where *Antennaria dioica* and one plant of *Genista pilosa* were seen.

Sunday, June 27th. The party assembled at Dolgelley Square and proceeded by bus to Tynant within a mile of Llyn Cregenau, on the shore of which *Lobelia Dortmanna* was seen in flower. Through the kindness of Major and Mrs Wynne Jones a sandwich lunch was enjoyed

inside their bungalow. After lunch the bog below the lake was explored and *Drosera longifolia*, *Utricularia minor* were seen. The walk was continued down the valley by "Kings" to Abergwynant Bridge.

Monday, June 28th. Leaving the bus at the Cross Foxes Inn the party proceeded up the Old Dolgelley road, over the Tirstuit Fridd, where the colour of the marsh orchises in the upland meadows will long be remembered by those who saw them, to Llyn Arran under the precipices of Mynydd Moel. *Genista pilosa*, though searched for, was not seen.

Tuesday, June 29th. A very enjoyable drive brought the botanists to Aberdovey, where they were met by Mr Bible, who has studied the flora of this neighbourhood. Under his guidance waste ground near the station, the golf links, sand dunes, and a marsh were examined and many interesting plants were seen. These included a colony of *Ophrys apifera* on the sand dunes and a fine collection of marsh orchises, among which various interesting hybrids were noted. After a welcome tea at the Trefeddian Hotel some of the party saw *Centunculus minimus* and *Radiola linoides* on the hillside. During the return journey via Pennal and Corris a few plants of *Cephalanthera longifolia* were pointed out by Mr Bible.

Wednesday, June 30th. Leaving the bus at the top of Tallyllyn Pass, the party walked across the foothills of Cader Idris to the rocks of Graig Gau. After a steep scramble up the screes they were rewarded by seeing *Rubus saxatilis*, *Saxifraga stellaris*, *Oxyria digyna* and *Sedum Rosea*. Continuing the walk towards the Cross Foxes Inn, a large colony of *Mesum Athamanticum* was seen far from any habitation. The marsh orchises in the upland meadows were particularly fine. Tea was taken at Caerynwch.

Thursday, July 1st. A long and very beautiful drive along the Barmouth Estuary and the coast brought the party to Llanbedr, an admirable starting point for exploring the salt-marshes, sand dunes and promontory of Mochras, where the variety of plants seen was exceptionally interesting. An excellent tea was provided at the Victoria Hotel at Llanbedr.

Friday, July 2nd. The bus conveyed the party to Llanfachreth, the nearest point to Rhobell Fawr. The lower slopes of the mountain were climbed. The party divided, some walking on to Benlog, the rest to Pwllgeli Lake.

Saturday, July 3rd. A short bus run to Llanyltded bridge so that the salt-marsh of the Mawddach Estuary could be examined. A number of interesting plants were noted during the day, including *Ruppia maritima* and *Rhynchospora alba*.

Sunday, July 4th. Very heavy rain made it necessary to cancel the original programme. The rain cleared off, however, in the afternoon and a walk was arranged to Llyn Cynwch, where *Luronium natans* and other interesting water plants were seen. Returning through the Nannau woods, *Impatiens Noli-tangere* was seen in profusion in its well-known habitat.

During the week 25 different ferns, various hybrid orchises, and *Andromeda polifolia* were seen.

H. M. RICHARDS.

LIST OF SOME PLANTS NOTED

(All records belong to v.-c. 48).

- Thalictrum minus* L. agg. Above Llyn y Gafr, near Llyn Gader (K.), above Llyn Aran and Mynydd Gwerngraig.
- **T. alpinum* L. Above Llyn y Gafr (K.), det. P. Taylor.
- Ranunculus heterophyllus* Weber. Aberdovey (K.), det. R. W. Butcher.
- R. Lenormandi* F. Schultz. Aberdovey (K.), Llanelltyd (K.), det. R. W. Butcher.
- **R. pseudo-fluitans* (Syme) Newbould ex Baker & Foggitt. Llanelltyd (K.), det. R. W. Butcher.
- Trollius europaeus* L. Dyffrydan and Llanfacreth (P.T.).
- Meconopsis cambrica* (L.) Vig. Above Llyn y Gafr.
- Glaucium flavum* Crantz. Aberdovey and Barmouth Junction.
- Corydalis claviculata* (L.) DC. Above Abergwynant (K.).
- Nasturtium officinale* R.Br. Aberdovey (K.), det. H. K. Airy Shaw.
- N. microphyllum* (Boenn.) Rchb. (K.) and Arthog (K.), det. H. K. Airy Shaw.
- Cakile maritima* Scop. Aberdovey.
- Helianthemum nummularium* (L.) Mill. Llanfacreth, a few plants in one spot only.
- Viola Pesneauii* Lloyd. Mochras (K.), det. R. D. Meikle.
- Polygala serpyllifolia* Hose var. *decora* C. E. Salm. Crogenen (K.), det. E. Milne-Redhead.
- Cerastium vulgatum* L. Crogenen (K.), near Cross Foxes (K.) and Arthog (K.).
- C. viscosum* L. Dyffrydan (K.).
- C. semidecandrum* L. Mochras.
- C. tetrandrum* Curt. Mochras (K.).
- Spergularia marginata* (DC.) Kittel. Mochras (K.).
- Montia fontana* L. Aberdovey, near Cross Foxes (K.) and Mynydd Gwerngraig (K.).
- Hypericum Androsaemum* L. Above Abergwynant.
- H. perforatum* L. Mochras (K.).
- H. Blodes* L. Crogenen and Tir Stent.
- Tilia cordata* Mill. Abergwynant (K.) and Dolgelley (K.).
- Radiola linoides* Roth. Aberdovey and Mochras.
- Geranium sanguineum* L. Mochras.
- G. columbinum* L. Aberdovey.
- Erodium cicutarium* L'Hérit. Aberdovey (K.) and Mochras.
- Impatiens Noli-tangere* L. Dolgelley (K.).
- Genista pilosa* L. Above Llyn Gwernan.

- Trifolium scabrum* L. Aberdovey (K.).
T. striatum L. Aberdovey (K.).
Ornithopus perpusillus L. Crogenen (K.).
Vicia Orobus DC. Dolgelley and Llanfacreth (K.).
Rubus—list supplied by Mr W. Watson.
R. idaeus L. Generally distributed.
R. scissus W. Wats. Glasdir.
R. plicatus W. & N. Dolgelley, Glasdir and near Cross Foxes.
R. hemistemon P. J. Muell. Glasdir and near Cross Foxes.
R. monensis Bart. & Ridd. West of Llanbedr.
R. gratus Focke. Near Cross Foxes.
R. Lindleyanus Ed. Lees. Near Maes-y-briner and Dolgelley.
R. nemoralis P. J. Muell. Frequent.
R. cambrensis W. Wats. West of Llanbedr.
R. ramosus Blox. ex Briggs. West of Llanbedr.
R. amplificatus Ed. Lees. Between Dolgelley and Cross Foxes.
R. egregius Focke. Frequent.
R. incurvatus Bab. Abundant.
R. polyanthemos Lindeb. Rather frequent.
R. alterniflorus M. & L. Afon Aran and Cross Foxes.
R. cardiophyllus L. & M. West of Llanbedr.
R. ulmifolius Schott f. Generally distributed but not frequent.
R. propinquus P. J. Muell. West of Llanbedr.
R. curvidens A. Ley. Abergwynant, Aberdovey and Dolgelley.
R. hebecaulis Sud. Afon Aran.
R. vestitus var. *roseiflorus* N. Boul. and var. *albiflorus* N. Boul.
 Generally distributed but not frequent. The varieties grow
 together at Dolgelley.
R. adscitus Genev. Everywhere.
R. fuscicortex Sud. Dolgelley and Aberdovey.
R. aspericaulis L. & M. West of Llanbedr.
R. hyposericeus Sud. Dolgelley and Aberdovey.
R. euanthinus W. Wats. Dolgelley and Aberdovey.
R. Hystrix Weihe. Frequent.
R. dasyphyllus Rog. Frequent.
R. myriacanthus Focke. Aberdovey.
R. caesius L. Mochras.
R. saxatilis L. Above Llyn y Gafr.
Alchemilla glabra Neyg. Above Llyn y Gafr (K.), det. S. M. Walters.
A. xanthochlora Rothm. Llanfacreth (K.), det. S. M. Walters.
A. vestita (Bus.) Raunk. Above Llyn y Gafr. (K.) and Llanfacreth
 (K.), det. S. M. Walters.
Rosa spinosissima L. Mochras.
Saxifraga oppositifolia L. Above Llyn y Gafr.
S. hypnoides L. Above Llyn y Gafr (K.) and above Llyn Aran (K.).
S. stellaris L. Above Llyn y Gafr (K.).
Sedum purpureum Link. Aberdovey and Llanfacreth.

- S. Rosea* (L.) Scop. Mynydd Gwerngraig and above Llyn Aran.
Drosera longifolia L. Crogenen (K.) and Arthog (P.T.).
Myriophyllum verticillatum L. Aberdovey.
Callitriche intermedia Hoffm. Llanelltyd (K.).
Pepelis Portula L. Aberdovey and Mochras.
 †*Oenothera stricta* Ledeb. Aberdovey (K.).
Epilobium obscurum Schreb. Llanelltyd (K.) and Penmaenpool (K.),
 det. G. M. Ash.
E. palustre L. Llanelltyd (K.) and Penmaenpool (K.), det. G. M. Ash.
E. montanum L. Penmaenpool (K.), det. G. M. Ash.
Conium maculatum L. Aberdovey.
Apium graveolens L. Mochras.
A. inundatum (L.) Rchb. f. Aberdovey (K.) and Mochras.
Myrrhis odorata (L.) Scop. †Dolgelley.
Oenanthe Lachenalii C. C. Gmel. Aberdovey and Mochras (K.).
Oe. fistulosa L. Aberdovey (K.).
Meum Athamanticum Jacq. Mynydd Gwerngraig (K.).
Sherardia arvensis L. Aberdovey.
Antennaria dioica (L.) Gaertn. Above Llyn Gwernan, near Llyn Aran
 and Llanfacreth.
Chrysanthemum segetum L. †Arthog (K.).
 *†*Senecio squalidus* L. Arthog. (K.).
Crepis paludosa (L.) Moench. Dyffrydan (K.).
Wahlenbergia hederacea (L.) Rchb. Brithdir and Pwll-y-gele.
Lobelia Dortmanna L. Llyn Crogenen.
Andromeda polifolia L. Arthog.
Limonium humile Mill. Mochras (K.).
Centunculus minimus L. Aberdovey.
Centaurium littorale (D. Turner) Gilmour. Mochras (K.).
Myosotis secunda A. Murr. Brithdir (K.) and Mynydd Gwerngraig
 (K.).
Calystegia Soldanella (L.) R.Br. Aberdovey (K.).
 *†*C. sylvestris* (Willd.) Roem. & Schult. Aberdovey (K.).
Euphrasia occidentalis Wettst. var. *calvescens* Pugsl. Aberdovey (K.),
 det. E. F. Warburg.
E. micrantha Rchb. Near Cross Foxes (K.), det. E. F. Warburg.
E. brevipila Burn. & Gremli. Near Llyn y Gafr (K.), Crogenen (K.)
 and near Cross Foxes (K.), det. E. F. Warburg.
E. anglica Pugsl. Near Llyn y Gafr (K.), det. E. F. Warburg.
E. Rostkoviana Hayne var. *obscura* Pugsl. Near Llyn y Gafr (K.)
 and near Cross Foxes (K.), det. E. F. Warburg.
Polygonum Raii Bab. Barmouth Junction (K.).
Oxyria digyna (L.) Hill. Mynydd Gwerngraig (K.).
Ruphorbia Helioscopia L. Dolgelley (K.).
E. Paralias L. Aberdovey and Mochras (K.).
E. portlandica L. Mochras (K.).
Ulmus glabra Huds. Dolgelley (K.), det. R. Melville.
Urtica dioica L. Mynydd Gwerngraig at about 2000 ft. (K.).

- Salix viminalis* L. Llanfacreth (K.), det. R. D. Meikle.
S. caprea L. Dolgelley (K.) and Llanfacreth (K.), det. R. D. Meikle.
S. aurita L. Dyffrydan (K.) and Mynydd Gwerngraig (K.), det. R. D. Meikle.
S. atrocinerea Brot. Dolgelley (K.), Llanelltyd (K.), Mynydd Gwerngraig (K.) and Mochras, det. R. D. Meikle.
S. repens L. Mochras (K.), det. R. D. Meikle.
S. repens ssp. *arenaria* (L.) Hiit. Mochras (K.), det. R. D. Meikle.
S. repens × *repens* ssp. *arenaria*. Mochras (K.), det. R. D. Meikle.
Empetrum nigrum L. Above Llyn y Gafr (K.).
 Orchidaceae—all det. V. S. Summerhayes.
Listera ovata L. Mochras (K.).
Cephalanthera longifolia (L.) Fritsch. Aberdovey.
Epipactis palustris (L.) Crantz. Mochras (K.).
Orchis latifolia L. Near Cross Foxes (K.), Tir Stent and Mochras (K.).
O. latifolia var. *coccinea* Pugsl. Mochras (K.).
O. purpurella T. & T. A. Steph. Dolgelley (K.), near Cross Foxes (K.), Aberdovey (K.) and Mochras (K.).
O. ericetorum (E. F. Linton) E. S. Marshall. Above Llyn Gwernan (K.), Daran (K.), Crogenen (K.) and near Cross Foxes (K.).
O. Fuchsii Druce. Brithdir (K.), one spot only, not seen elsewhere.
O. ericetorum × *purpurella*. Near Cross Foxes (K.).
O. ericetorum × *purpurella* or *latifolia* var. *coccinea*. Mochras (K.).
Ophrys apifera Huds. Aberdovey, on sand dunes.
Gymnadenia conopsea (L.) R. Br. Dyffrydan (K.), Crogenen and near Cross Foxes (K.).
 × *Orchigymnadenia Evansii* (Druce) Steph. Near Cross Foxes (K.).
Leucorchis albida (L.) Schur. Tir Stent (K.) and Benglog (K.).
Coeloglossum viride (L.) Hartm. Benglog (K.).
Platanthera bifolia (L.) L. C. Rich. Near Llyn Gwernan (K.), near Cross Foxes (K.) and Benglog (K.).
P. chlorantha (Cust.) Rehb. Dyffrydan (K.) and near Cross Foxes (K.).
Polygonatum odoratum (Mill.) Druce. Mochras (K.), on sand dunes.
Scilla non-scripta (L.) Hoffm. & Link. Mochras, on sand dunes.
 † *Juncus tenuis* Willd. Abergwynant (K.) near Llyn Gwernan (K.) and near Cross Foxes.
J. acutus L. Mochras (K.).
J. conglomeratus L. Llanfacreth (K.), not seen elsewhere. (*J. inflexus* apparently quite absent from the district).
Sparganium simplex Huds. Arthog (K.).
Luronium natans (L.) Raf. Llyn-cynweh (K.).
Potamogeton natans L. Mochras (K.), det. J. E. Dandy.
P. polygonifolius Poun. Near Llyn y Gafr (K.), Crogenen (K.) and Mynydd Gwerngraig (K.), det. J. E. Dandy.
P. Berchtoldii Fieb. Arthog (K.), det. J. E. Dandy.
Ruppia maritima L. Penmaenpool (K.) and Mochras (K.), det. J. E. Dandy.

- Eleocharis palustris* (L.) R. Br. Aberdovey (K.), Mochras (K.), and Llyn Cymwch (K.), det. S. M. Walters.
- **E. uniglumis* Schultes. Penmaenpool (K.), det. S. M. Walters.
- E. multicaulis* Sm. Crogenen (K.) and Llyn Cymwch (K.), det. S. M. Walters.
- Scirpus cernuus* Vahl. Near Abergwynant (K.).
- S. fluitans* L. Crogenen (K.).
- Carex*—all det. N. Nelmes.
- C. distans* L. Mochras (K.).
- C. demissa* Hornem. Near Llyn y Gafr (K.), Aberdovey (K.), near Cross Foxes (K.) and Mynydd Gwerngraig (K.).
- C. Hostiana* DC. Near Llyn y Gafr (K.), near Cross Foxes (K.) and Mynydd Gwerngraig.
- C. demissa* × *Hostiana*. Near Llyn y Gafr (K.) and Mynydd Gwerngraig (K.).
- C. extensa* Good. Mochras (K.).
- C. distans* × *extensa*. Mochras (K.), one large plant.
- C. pallescens* L. Near Cross Foxes (K.).
- C. curta* Good. Llanfacreth (K.).
- **C. Pairaei* F. Schultz. Dolgelley (K.).
- Gramineae*—all det. C. E. Hubbard.
- Phleum arenarium* L. Aberdovey (K.).
- Aira praecox* L. Pant Phylip (K.).
- †*Avena strigosa* Schreb. Mochras (K.).
- Arrhenatherum elatius* (L.) J. & C. Presl var. *bulbosum* (Willd.) Spenner. Dolgelley (K.).
- **Vulpia Myuros* (L.) Gmel. Penmaenpool (K.).
- **Bromus lepidus* Holmbg. Llanfacreth (K.).
- Equisetum sylvaticum* L. Tir Stent and West of Dolgelley (P.T.).
- E. fluviatile* L. Tir Stent (P.T.).
- **E. litorale* Kuhl. Mynydd Gwerngraig (K., P.T.), first record for Wales, det. P. Taylor.
- E. palustre* L. Mochras (P.T.).
- Cryptogramma crispa* (L.) Hook. & Bauer. Above Llyn y Gafr, above Llyn Aran (K., P.T.) and Mynydd Gwerngraig.
- Pteridium aquilinum* (L.) Kuhn. Mochras, on sand dunes.
- Phyllitis Scolopendrium* (L.) Newm. Llanelltyd (K.), not seen elsewhere.
- Asplenium viride* Huds. Above Llyn y Gafr (K.). Mynydd Gwerngraig.
- Polystichum setiferum* (Forsk.) Woyнар. Torrent Walk (K., P.T.).
- P. aculeatum* (L.) Roth. Torrent Walk (K., P.T.).
- Dryopteris Borreri* Newm. Above Llyn Gwernan (K., P.T.), det. P. Taylor.
- Thelypteris Phegopteris* (L.) Sloss. Above Llyn Gwernan (K., P.T.).
- Gymnocarpium Dryopteris* (L.) Newm. Near Llyn Aran (K., P.T.) and Torrent Walk.

Cystopteris fragilis (L.) Bernh. Above Llyn y Gafr (K., P.T.) and Mynydd Gwerngraig.

Ceterach officinarum DC. Aberdovey (K., P.T.).

Hymenophyllum peltatum (Poir.) Desv. Above Llyn y Gafr (K., P.T.), above Llyn Gwernan and Abergwynant.

Osmunda regalis L. Arthog (P.T.).

Botrychium Lunaria (L.) Sw. Near Llyn y Gafr and near Benglog (K., P.T.).

Ophioglossum vulgatum L. Aberdovey and Mochras (K., P.T.).

Isoetes lacustris L. Llyn Crogenen and Llyn Aran (K., P.T.).

Lycopodium alpinum L. Near Llyn y Gafr (K.), near Llyn Aran and Llanfacreth.

L. Selago L. Near Llyn y Gafr (K.), near Llyn Aran (K.), Mynydd Gwerngraig and Llanfacreth.

L. clavatum L. Near Llyn y Gafr (K.), near Llyn Aran and Llanfacreth.

Selaginella selaginoides (L.) Link. Near Llyn y Gafr, Tir Stent (K.) and Llanfacreth.

K., P.T. = Specimens in the Herbarium of the Royal Botanic Gardens, Kew, and the writer respectively.

PETER TAYLOR.

August 20-23. HUNTINGDONSHIRE.

Leader: Dr J. G. Dony.

This excursion was arranged for the purpose of adding to the *Comital Flora* records for v.-c. 31, Huntingdon. Mr P. G. M. Dickinson, F.S.A., who was to have been joint leader, and gave valuable assistance in the preliminary arrangements, was unable to join the excursion. The weather during the week-end was fine except on the Saturday evening (Aug. 21st). The following members attended:—Miss D. Bayliss, Lady D. M. Birkett, Miss R. Carey, Mrs H. R. Davies, Miss G. H. Day, Miss L. W. Frost, Mrs B. Hassall, Miss M. Isaac, Miss M. Knox, Miss B. M. C. Morgan, Mrs H. M. Richards, Lady Roche, Mrs H. Boyd Watt, Mrs B. Welch, Miss C. Wickham, A. H. G. Alston, C. L. Collette, Com. R. D. Graham, R. P. Libbey, A. J. Wilmott, J. E. Woodhead and Dr D. P. Young with four friends.

FRIDAY, AUGUST 20TH.

At a preliminary meeting in the evening at the George Hotel, Huntingdon, the leader explained the purpose and plan of the excursion.

SATURDAY, AUGUST 21ST.

An early start was made and the party taken by coach to Wood Walton Church where it divided into four sections. A. J. Wilmott led one section which visited Monks and Bevills Wood and made a list of about 200 species. Another section in charge of A. H. G. Alston made a thorough search of Connington Dump and W. H. Davies led a small

section to search the edge of Wood Walton Fen outside the nature reserve. A larger section, in charge of the leader, first visited Connington Dump and later joined the section at Wood Walton Fen. All sections re-assembled at Wood Walton Church to which the coach returned to take us to St Ives for tea. A few members returned to Huntingdon after tea, but the remainder spent a useful evening on St Ives gravel pits until the rain forced them back to the town. We shall all remember the delightful "inquest" at the George Hotel when we related to Wilmott our finds and submitted our specimens for his determination. The greatest attention was centred on a strange ragwort found by L. W. Frost and R. P. Libbey on Connington Dump which appeared to be *Senecio erucifolius* × *viscosus*, and on Miss Frost's "prize"—six feet of sow thistle carried through wind and rain from the gravel-pit at St Ives—this Wilmott thought to be *Sonchus arvensis* × *palustris*. Neither hybrid appears to have been previously observed. We had found two previously undescribed hybrids.

SUNDAY, AUGUST 22ND.

We had the coach with us all day and with Holme Fen as our main objective we paused for a few minutes outside Monks Wood so that members who had not seen *Melampyrum cristatum* on Saturday could see this plant. Holme Fen proved interesting, but was so much overgrown with bracken that only a few more energetic members of the party were able to penetrate far into its depth. Druce reported with surprise that *Myrica Gale* grew to five feet high here, but we saw it almost twice that height. A return along the road to see *Dipsacus pilosus*, spotted on the outward journey by Miss Morgan, started the afternoon, and useful breaks were made later by the Old Course of the Nene near Ramsey where fine specimens of *Sonchus palustris* were seen some five miles from where they were originally introduced by Lord Rothschild at Wood Walton Fen in 1912 and at Warboys Wood, an interesting wood with a more limited flora than Monks Wood. Tea was had at The Three Horse Shoes at Wistow after which Com. Graham thanked the leader for the arrangement of the excursion and for the introduction of a Botanical Society standard of distance—the dony-mile. The evening was spent at some interesting gravel pits at Hartford and a somewhat smaller party met after dinner at The George Hotel to discuss the day's work.

MONDAY, AUGUST 23RD.

A much reduced party made a later start and spent a short period at Eaton Socon gravel-pits in Bedfordshire. Rain in the afternoon helped to diminish the party, but the four remaining members spent a useful hour by the riverside at St Neots, adding still more records to the many made for Huntingdonshire during the week-end.

A departure has been made from the usual custom of including records of interesting plants seen in the report of the excursion. It is felt that it would be in keeping with the spirit of the members during the

excursion, to include the records with all those made in the county during 1948. Most of the plants found previously were re-found during the week-end. While every effort has been made to attribute each record to the person who made it there may be errors for which the leader apologises.

As leader I wish to express my thanks to Messrs P. G. M. Dickinson, J. E. H. Blackie and W. H. Davies, who helped in many ways my task of leading an excursion in country little known to me, to the manager of the George Hotel who kindly placed without charge the writing room at our disposal, and the Premier Travel Company without whose ready co-operation the excursion might have failed completely.

J. G. DONY.

(A List of the more interesting plants found is incorporated in a paper by Dr J. G. Dony, "A Contribution to the Flora of Huntingdonshire," *Watsonia*, 1 (5), pp. 301-307.)

ITEMS FOR LEADER'S GUIDANCE.

Leaders are reminded that they are responsible for the production of the Report of their Field Meeting. They may delegate this duty to a suitable person. The Report should contain:—

1. A list of members and guests attending.
2. A summary of the proceedings.
3. List, in the order of the "British Plant List" of the more interesting plants observed, with localities. It may be preferable in some cases to give separate lists for separate localities.
4. Presumed new Vice-County records should be indicated and the name of the finder given for each, and the whereabouts of the voucher specimen, as far as possible.

EXHIBITION MEETING, 1948

An Exhibition Meeting was held in the Rooms of the Linnean Society on Friday, 29th October 1948, with the kind permission of the Council.

In all 95 tickets were sold and over 90 members and friends were present. A number of interesting exhibits was displayed by members, and excellent facilities for discussing the season's finds were afforded.

It is regretted that the comfort of those attending was slightly disturbed by the alterations to the heating system, and the consequent derangement of certain furnishings, a circumstance not foreseen when arrangements were made for the use of the Rooms many weeks earlier.

A profit of £5 15s 2d was credited to the Field Work Committee's account.

It is realized that the numbers attending the Exhibition Meeting have now reached the limit that can comfortably be accommodated in the Linnean Society's Rooms, and it is hoped that the next Exhibition Meeting will be held in more commodious surroundings.

My thanks are due to Mr C. L. Collenette and Mr W. R. Price for assistance with the arrangements.

E. MILNE-REDHEAD, Hon. Sec.

EXHIBITION MEETING, 1949

An Exhibition Meeting was held in the Royal Horticultural Society's New Hall, Greycoat Street, Westminster, on Saturday, 22nd October 1949, from 3.30 to 6.30 p.m. There was a very good attendance comprising 84 members and 30 guests, a total of 114. A small loss of £1 15/7 was debited to the Field Work Committee's account. Twenty-five exhibits were put up by members; of these 20 were pressed specimens, 1 living specimen, 2 paintings and 2 photographs.

The following is a list of the exhibits to which notes have in some cases been supplied by the exhibitors.

1. Exhibits of individual species:—

Viola derelicta Jord., by R. D. Meikle.

Variations in *Cerastium pumilum* Curt., by E. Milne-Redhead.

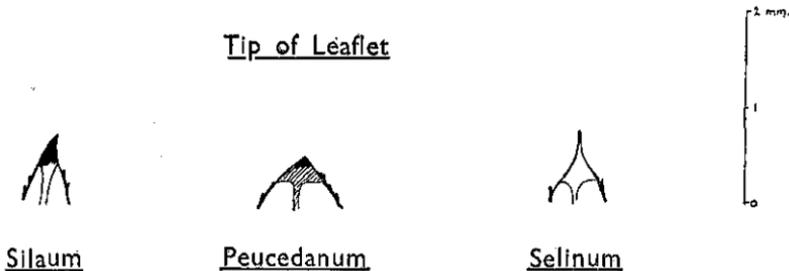
Effect of Cultivation on *Vicia arvensis* Murr., forma, by R. D. Meikle.

Notes on distinguishing radical leaves of *Selinum*, *Silaum* and *Peucedanum*, by S. M. Walters.

The radical leaves of these three plants are very similar (forms of *Daucus* may be distinguished by having at least sparse hairs on the leaves, whilst these three species are glabrous), but can be distinguished in the following way:—

In *Silaum Silaus* the tip of the leaflet is acute and brownish-purple in colour, quite clearly visible with a lens. In *Selinum carvifolia* the tip is very acute and colourless, visible to the naked eye. In *Peucedanum palustre* the leaflet has a much more obtuse tip, which may have varying amounts of a brown or purple colour in it.

Other general differences include the narrower outline to the leaf of *Selinum* as opposed to *Silaum* and *Peucedanum*; the smaller individual leaflets in *Selinum*, and (at Chippenham) its light green colour as compared to *Silaum*.



Seeds of *Epilobium adenocaulon* Hausskn. showing peculiar chestnut-coloured, pellucid appendage below the pappus, by G. M. Ash.
Specimen of *Amsinckia* from Farne Islands, by Mrs P. R. Farquharson.

Salicornia Specimens, by Miss M. M. Whiting.

These fresh specimens of *Salicornia* were collected on the edges of the marsh, east side, at Blythburgh Bridge, Suffolk, on the south side of the River Blyth, about five miles from the coast at Southwold. They are of interest because, owing to repeated breaks in the river wall, large areas become flooded at every tide, and the salty marsh flora is coming much further inland than was the case a few years ago. The place of collection was less than five minutes walk from the village inn.

Specimens of *Amaranthus*, by Mrs A. N. Gibby.

Amaranthus species shown were all collected on waste ground in different parts of Paris. These were *Amaranthus Blitum* L., *A. deflexus* L., *A. retroflexus* L., *A. blitoides* Wats. (upright and prostrate forms), *A. Bouchoni* Thell.

Alnus incana, *A. glutinosa* and the hybrid between them from a wood near Horley, Surrey, by J. P. M. Brennan.

Alnus incana (L.) Moench, an Eurasian species extending to North America, is well known as an established introduction in Britain. In August 1949, in Langshott Wood, Horley, Surrey, v.-c. 17, I observed *A. incana*, *A. glutinosa* (L.) Gaertn., and numerous trees most convincingly intermediate between them; specimens of the two species and the hybrid were on show. This hybrid, well-known on the Continent, does not appear to have been previously noticed in Britain. A more detailed note on its nomenclature and characters is being prepared for publication in *Watsonia*.

Alisma gramineum C. C. Gmel, by R. C. Burges.

The above plant grows in fair quantity round the western edge of Westwood Pool near Droitwich. It was in good flower at about 10.30 a.m. on July 22nd of this year, and growing in about 12 to 18 inches of water. In this stage there are two distinct types of leaves, the submerged ones are soft and flaccid whilst these that appear above the water are stiffer and terminate in a lanceolate tip.

The flowers are uniformly smaller than *A. Plantago-aquatica* and are always white.

As the pool dries up, the plant is left completely exposed on the mud, and the grassy submerged leaves wither away leaving the stiff lanceolate leaves.

Although it will grow amongst rushes it obviously prefers open mud, with *Flatine Hydropiper* and a few plants of *Limosella*.

I have known this plant at Westwood Pool since 1939, but many years before this the Worcestershire botanists recognised that this plant was distinct. The first record appeared in the Transactions of the Worcestershire Naturalists Club, 1920, when, during a half day walk of the club to visit *Elatine Hydropiper* at Westwood Pool the following note was made: *Alisma lanceolatum* (the narrow-leaved Water Plantain) is here the dominant species and flourishes almost to the exclusion of the common form! Later on the Worcs. Trans. record *Alisma Plantago-aquatica* var. *graminifolium*. I feel sure they were describing the same plant, which they had seen on previous visits.

I have been unable to find either *Alisma Plantago-aquatica* or *Alisma lanceolatum* round the pool.

The pool is frequented by migrant ducks and water fowl and I suggest that its mode of introduction is by this means.

Elatine Hydropiper, and *Rumex maritimus*, which is occasional, both have probably been brought by similar means.

Nearby is the saline canal from Droitwich which contains many salt marsh plants, a notable new arrival has been *Spartina Townsendii*.

An unidentified *Scirpus* cultivated in a warm greenhouse at Kew and various *Carex* hybrids, by E. Nelmes.

Poa annua L., *P. supina* Schrad. and hybrid, by C. D. Pigott.

Poa supina (2n-14), a plant of upland and alpine regions, differs from the common *Poa annua* (2n-28) in its perennial creeping rhizome, its early flowering, the greater length of its anthers and the shape and arrangement of its flowers. Specimens from Scotland were exhibited showing these morphological differences, but to confirm the presence of this species in the British Isles a cytological investigation is also required. A sterile triploid hybrid is reported from Scandinavia.

Specimens of *Milium scabrum* Merlet, *Nardurus maritimus* (L.) Janchen and *Nicandra Physaloides* Gaertn., by Prof. T. G. Tutin.

A sheet of *Milium scabrum* from the north coast of Guernsey was exhibited. It was rediscovered here in April 1949, fifty years after its original discovery by Andrews, and is locally abundant though very inconspicuous.

Nardurus maritimus was shown from Bloody Oaks quarry, Rutland, where it was found by Mr E. K. Horwood. The quarry is situated among fields at some distance from roads or houses and has long been disused. It is hard to see how this grass can have been introduced here.

Nicandra Physaloides has persisted, at least for some years, on a piece of waste ground by a school in Leicester. It is interesting to note that the following remark occurs under this species in "Manual Flora of Madeira" by R. T. Lowe: "In

1828 I observed several pl. of this sp. in England, growing luxuriantly on a manure-heap by the roadside a little way out of Hatherne near Loughboro' in Leicestershire."

British *Equiseta*, by P. Taylor.

British Charophyta, by G. O. Allen.

Specimens (dried) of *Chara hispida* L., *C. aculeolata* Kuetz., *Nitella translucens* Agardh and *Tolypella prolifera* Leonh. were shown, and also living specimens of *Chara globularis* Thuill. and *Nitella flexilis* Agardh. Much enlarged models were also shown illustrating the inner and outer parts of an oogonium and the internal structure of an antheridium; also slides illustrating cyclosis in *Nitella flexilis* Agardh.

The mounted specimens illustrated the three chief Charophyte genera, those selected being all large plants that can be recognised at sight. The living specimens mainly illustrated the forked branchlets and lack of cortex in *Nitella*, as contrasted with the simple branchlets and the corticate character of *Chara*.

2. Exhibits of mixed species.

Aliens on arable ground at Froyle, North Hants., v.-c. 12, by C. Langridge.

Specimens exhibited were:—*Erodium Chium* Willd., *Medicago minima* var. *longiseta* DC., *M. laciniata* var. *brachycantha* Boiss., *Xanthium spinosum* L., *Physalis ixocarpa* Brot., *Nicandra Physaloides* L., *Amaranthus Dinteri* var. *uncinatus* Thell., *A. chlorostachys* Willd., *Chenopodium cristatum* F. Muell., *C. pumilio* R. Br., × *C. Bontei* Aell. var. *cristatiforme* Aell. (*C. carinatum* R. Br. × *C. cristatum* (F. Muell.) F. Muell., *Andropogon Sorghum* (L.) Brot., *Eragrostis minor* Host. and *E. pilosa* Beauv.

Specimens of × *Chenopodium Bontei* were sent to and identified by Dr Aellen at Basle. Mr Brennan writes:—"This exceedingly interesting and remarkable plant is quite new to Britain."

These aliens appeared in a field where some ridge cucumbers were grown in 1947, where the ground was very weedy with a total of 68 species of weeds, the soil being clay with flints on upper chalk, 600 feet above sea level. On enquiring of the farmer what had been put on the land, the reply was farmyard manure, Fison's potato manure, muriate of potash and castor meal. In 1948 broccoli was grown in the field and only three species of aliens were seen, *Erodium Chium*, *Medicago laciniata* and *Amaranthus chlorostachys*. In the summer of 1949 the ground was fallowed and cultivated several times and only *Amaranthus chlorostachys* was seen. The discovery of these aliens was due to our gamekeeper, who reported to me that

there were three strange weeds there, one being a large plant of *Datura Stramonium* L., 4 feet tall, and the *Xanthium* and *Physalis*.

Carrot-field aliens in West Norfolk, by R. P. Libbey & E. L. Swann.

This exhibit showed the results of six years' field-work in the carrot fields of vice-county 28, which was carried out to ascertain the number and variety of alien plants which were being introduced through the medium of imported carrot seeds. Apart from varieties some 25 species were found and they were:—

Matthiola bicornis DC. South Eur. One plant only found.

Helianthus annuus L. North Amer. Occasional.

Centaurea solstitialis L. Eur. Very rare.

Lactuca sativa L. Found occasionally 1949 only.

Cuscuta campestris Yuncker. Very rare. N. Amer. sp. Determined by Dr Yuncker.

Solanum nigrum L. var. *Dillenii* (Schultes). Common 1945 only.

Solanum sarrachoides Sendt. South Amer. Both entire and tooth-leaved plants were shown. It would appear that leaf-outline does not indicate specific differentiation as entire and toothed margins may be found in populations of *Solanum nigrum*. Fairly common in 1949 only.

Amaranthus chlorostachys Willd. Eur. Abundant.

A. retroflexus L. Amer. Occasional.

A. albus L. N. Amer. Occasional.

A. albus L. sub-var. *rubicundus* Thell. Very few plants in one field only; probably new to the British Isles.

A. blitoides S. Wats. N. Amer. One field only in 1949.

Chenopodium rubrum L. N. Amer., &c.

Ch. murale L. N. Amer., &c.

Kochia scoparia (L.) Schrad. Central Eur. Med. Reg. V. rare.

Salsola pestifer Nelson. N. Amer., &c. Occasional.

Polygonum patulum M. Bieb. Cent. Europe. Three plants only.

Panicum miliaceum L. Cosmopolitan. Rare in carrots.

Panicum capillare L. var. *occidentale* Rydb. (*P. barbipulvinatum* Nash). North American. Rare.

Echinochloa crus-galli (H.B.K.) Schult. S. American. A rare plant.

Echinochloa Crus-galli (L.) Beauv. Cosmopolitan. Many forms of this polymorphic species were found ranging from a very long-awned variant (probably var. *aristata* Gray) to an awnless, stiff, erect variant which "appears to be the plant known to North American botanists as *E. pungens* (Poir.) Rydb." (C. E. Hubbard in litt.) Field-work suggests that the expediency of retaining any varietal names seems doubtful.

Digitaria sanguinalis (L.) Scop. N. Amer., &c.
Setaria glauca (L.) Beauv. Cosmopolitan.
Phalaris minor Retz. Medit. Reg., &c.
Setaria viridis (L.) Beauv. Cosmopolitan.

An interesting light is thrown on the preponderance of American aliens in our carrot-seed by Professors Munn and Bucholz in an article in Bulletin 735 of the New York Agricultural Experiment Station, entitled "The Quality of Seeds on Sale in New York in 1948." They found carrot-seed packets to contain more weed seeds than any others examined and the number and variety accord very closely with those found in West Norfolk. Observations in this country confirm the frequency of both *Echinochloa Crus-galli* and *Setaria viridis*.

For their encouragement and assistance with critical species the exhibitors are much indebted to Messrs J. P. M. Brennan, C. E. Hubbard, and N. Y. Sandwith of the Kew Herbarium staff.

A few sheets of Scottish plants, by E. C. Wallace.

Saxifraga cernua L. One of the most interesting discoveries in Scotland during the last few years is the knowledge that *Saxifraga cernua* L., so long thought to be confined to Ben Lawers, occurs in a second distinct locality. The specimen shown came from near Glencoe in Argyllshire, where it was found on somewhat calcareous exposed rocks at over 3000 feet altitude by P. R. Bell and E. C. Wallace in early August 1949. A few plants bore flowers, but many consisted of a few leaves, being seedlings from rock ledges above, where we saw it growing. A fuller account will appear elsewhere.

Juncus compressus Jacq. This was from a grassy roadside verge in the middle of the northern half of Lismore Island, Argyllshire, probably the most northerly station in Britain for this rush. Dr Sledge and I found it in some quantity, and there is no doubt about its being a native constituent of the island's flora.

Potamogeton coloratus Hornem. Also from Lismore, where it occurs in each of the three delightfully situated lochs on the island.

Carex diandra Schrank. Marshy pasture on Lismore, and the swamps by two of the lochs on the island, have a considerable quantity of this sedge and of *C. paniculata* in a slender form, with much *C. lepidocarpa*. This is only to be expected in view of the limestone nature of the rock. This *Carex* occurs on many islands off the west coast of Scotland.

Poa irrigata Linden. Specimens from Ben Eag in West Ross (1947), and cultivated examples. The root is now in Mr C. E. Hubbard's care at Kew for observation. The long foliage leaves with eucullate apices are conspicuous.

Helianthemum nummularium (L.) Mill., pink-flowered form, from chalk downland in Surrey. The flower, being somewhat larger than the normal yellow-flowered plant, suggested cross-fertilisation with a garden plant of this group.

Australian shoddy aliens from Kent and various Scottish plants, by J. E. Lousley.

1. Twenty sheets of aliens introduced from Australia in shoddy from Australia found on a farm near Hextable, West Kent, v.-c. 16, in the late autumn of 1948 and in June, July and August 1949. These included *Erodium Botrys* (Cav.) Bert., *E. cygnorum* Nees, *E. moschatum* (L.) Ait., *Medicago luciniata* (L.) Mill., *M. minima* (L.) Bartol., *M. minima* (L.) Bartol. var. *recta* (Desf.) Burnat, *Carduus pycnocephalus* L., *Carthamus lanatus* L., *Calotis cuneifolia* R. Br., *C. hispidula* F. v. Muell., *Sisymbrium erysimoides* Desf., and *Dactyloctenium radulans* (R. Br.) Beauv. See the *London Naturalist* for 1948 and 1949.

2. Seven sheets of interesting plants found by the exhibitor or sent for identification in 1949.

- a. *Cardamine latifolia* Vahl. Church Becks, Scalby, N. Yorks., v.-c. 62, leg. F. C. Rimington.
- b. *Cerastium vulgatum* L. var. *marale* (Desp. ex DC.). Gravel pit near Swanton Farm, Littlebourne, E. Kent, v.-c. 15, leg. J. E. Lousley.
- c. *Senecio squalidus* L. × *S. vulgaris* L. Ashchurch near Tewkesbury, E. Glouc., v.-c. 33, leg. C. W. Bannister.
- d. *Senecio viscosus* L. × *S. vulgaris* L. Ladmanrow tip near Buxton, Derbyshire, v.-c. 57, leg. Miss Ruth Carey.
- e. *Gymnadenia conopsea* (L.) R. Br. × *Orchis ericetorum* (Linton) E. S. Marshall. By Shee Water, 1½ miles below Spital of Glen Shee, E. Perth, v.-c. 89, leg. J. E. Lousley, R. A. Graham and D. McClintock.
- f. *Juncus alpinus* Vill. Shingle by Shee Water, 1½ miles below Spital of Glen Shee, leg. J. E. Lousley, R. A. Graham and D. McClintock.
- g. *Alisma gramineum* Gmel. Near Droitwich, Worcestershire, v.-c. 37, leg. J. E. Lousley, with photographs.

Herbarium specimens, by S. T. Jermyn.

English and alien plants found in S. Essex, v.-c. 18:

Eruca sativa Mill., *Dianthus Armeria* L., *Lotus siliquosus* L., *Vicia bithynica* L., *V. gracilis* Lois., *Lathyrus tuberosus* L., *L. hirsutus* L., *Tordylium maximum* L., *Ambrosia trifida* L., *Prunella laciniata* L., *P. laciniata* × *vulgaris* L., *Rumex*

Patientia L., *R. crispus* × *Patientia*, *Poa rigida* L., *Lolium cristatum* Döll. × *perenne* L.

One specimen from Killin, Perthshire, v.-c. 88.
Alchemilla argentea Don.

3. Paintings.

Paintings of plants, by Miss M. Knox.

There were 18 paintings in water colour, some of them of rare flowers, some of familiar wild flowers. All were life-size.

Paintings of North London fungi, by Miss Scholey, London Natural History Society.

4. Photographs.

Photos of spring and summer in the Hautes Alpes: La Grave, Lauteret, Nevache and Queras, by Miss M. S. Campbell.

The interest of these photographs lay principally in the seasonal differences; the spring ones having been taken in June 1937 when there had been an exceptionally late heavy fall of snow at the end of March causing a blocking of the main road between Briançon and Col du Lauteret, at the end of May, and the summer ones taken in July 1949 during the exceptionally warm and dry spring and summer showing an unprecedented (in living memory) recession of snow.

Photos of *Epipactis* species, by C. Thomas.

NOTICES TO MEMBERS

ENQUIRIES ABOUT MEMBERSHIP

Botanists contemplating applying for membership of the Society are asked to write to the Honorary Assistant Secretary, Mr W. R. Price, 64 Elsworthy Road, London, N.W.3, who will supply full information and the necessary Form of Application for Membership.

SUBSCRIPTIONS

The present rate of subscription is One Guinea per annum for Ordinary Members, 10s 6d for Junior Members and 10s 6d for Family Members, and the Society's year runs from January 1st to December 31st.

Subscriptions from new members should be paid to the Hon. Treasurer, Mr E. L. Swann, 282 Wootton Road, King's Lynn, Norfolk.

WATSONIA

Price to non-members 7s 6d per part. To be obtained from Mr J. H. Burnett, Dept. of Botany, The University, Oxford.

YEAR BOOK

Price to non-members 7s 6d. To be obtained from Mr J. H. Burnett, Dept. of Botany, The University, Oxford.

SPECIMENS FOR IDENTIFICATION

Ordinary (non-critical) specimens for identification may be sent to the Hon. General Secretary. In the case of critical species, the Society's Panel of Specialists for Critical Systematic Groups (see pages 66-67) should be consulted.

ADVERTISEMENTS

All inquiries for advertising space in the Society's publications should be addressed to Mr R. A. Graham, Mint House, Woodside Road, Northwood, Middlesex.

PUBLICATIONS

A list of the Society's publications available for sale will be found at the end of Year Book. They may be ordered from Mr J. H. Burnett.

PAST REPORTS REQUIRED

The Society is anxious to obtain copies of B.E.C. Reports for the years 1879, 1886, 1903, 1909, and 1910; Vol. III, parts 2 and 3, Vol. IV, parts 4 and 5, Vol. V, parts 1 and 3. Will anyone in possession of these parts who wishes to dispose of them please communicate with the Hon. General Secretary.

THREATS TO BRITISH FLORA

Members are urged to report to the Hon. General Secretary any threats to the British flora. The Council has appointed a Special Committee to deal with such matters and every effort will be made "to promote in every way possible the conservation of the British flora."

FUNCTIONS OF LOCAL SECRETARIES AND RECORDERS

PREAMBLE

While it is highly desirable that whenever possible the functions of Local Secretary and Recorder should be performed by one person, in practice this will not always be possible. The distinct functions are therefore here separately defined. It is felt that Local Secretaries and Recorders should not become the only, or even the usual, channels of communication between members on the one hand and the Officers, Referees, or Panel Members of the Society on the other. On the appointment of a Local Secretary or Recorder, he/she shall have the boundary of his/her area defined. Areas will where possible be on the basis of Watsonian vice-counties, but it may be found desirable to appoint either for a smaller area.

LOCAL SECRETARIES

1. To keep in touch with other local members and where possible and desirable to arrange meetings and excursions for their benefit.
2. To encourage the enrolment of new members.
3. To act as a centre for some botanical work of local bearing where they are qualified to do so.
4. To provide information to members of the Society from outside their areas, either by correspondence or otherwise, on travel facilities, accommodation, and botany. (This does not include supplying information about localities for rare plants, although statements as to their continued existence or frequency may be given for the purpose of scientific work.)
5. To keep in touch with local libraries, museums, and, especially, local herbaria and Natural History Societies, supplying information about them to other members, and particularly to the Panel, and also keeping the name of the Society before officials, officers, and members of local Societies.
6. To assist the Hon. Field Secretary and Leaders of field meetings prior to and at the time of visits of the Society to their area.

7. To report without delay to the Hon. General Secretary or Treasurer the death of any member living within their area.

8. To make regular visits to habitats of special interest within their areas as far as possible, and to report without delay to the General Secretary of the Society any threat which may call for conservation measures.

RECORDERS

To assist the Editor by collecting records of more than local interest, checking records contributed for publication, and forwarding information about important changes in the flora.

LOCAL SECRETARIES AND RECORDERS

The following members have agreed to act as Local Secretaries (L.S.) and Recorders (R.) for the Vice-Counties indicated. Unless shown otherwise, these members have undertaken to combine the duties of the two offices, the nature of which is explained above. *

Scilly Is.	J. E. Lousley (R.)
V.-c. 4.	F. A. Brokenshire
6.	Mrs C. I. Sandwith
7, 8.	J. D. Grose
13.	Mrs P. German
15.	F. Rose (R.)
16.	D. McClintock (L.S.). F. Rose (R.)
17.	J. E. Lousley
18, 19.	B. T. Ward (R.)
21.	D. H. Kent
22.	Mrs P. Warburg (L.S.). Dr E. F. Warburg (R.)
23.	Mrs P. Warburg (L.S.). J. H. Burnett (R.)
24.	Dr E. F. Warburg (R.)
25.	Miss M. M. Whiting (L.S.)
26.	F. J. Bingley (L.S.)
27.	E. A. Ellis (R.)
28.	E. L. Swann (R.)
29.	S. M. Walters
30, 31.	Dr J. G. Dony
33.	C. C. Townsend (L.S.). W. R. Price (R.)
34.	W. R. Price (R.)
35.	A. E. Wade
36.	F. M. Day (R.)
37.	Dr R. C. L. Burges (L.S.). F. M. Day (R.)
38.	Dr R. C. L. Burges
39.	E. S. Edees
41-52.	A. E. Wade (R.)
53, 54.	Miss E. J. Gibbons
55.	F. A. Sowter (L.S.). Prof. T. G. Tutin (R.)
57.	R. H. Hall (L.S.). Miss K. M. Hollick (R.)

59. W. G. Travis (R.)
 61, 63, 64. Dr W. A. Sledge
 62, 65. Miss C. M. Rob
 66. D. H. Valentine (L.S.). G. W. Temperley (R.)
 67, 68. G. W. Temperley
 70. Miss C. W. Muirhead (Carlisle Museum) (R.)
 71. D. E. Allen (R.)
 73. Dr H. Milne-Redhead
 78-85. Dr G. Taylor (R.)
 87-89. Miss M. S. Campbell
 90. Miss U. K. Duncan (L.S.). Dr G. Taylor (R.)
 105-109. Miss M. S. Campbell (R.)
 110. Miss M. S. Campbell

It is hoped to extend these arrangements to cover as much of the country as possible. Any member who is willing and able to carry out the duties of either Local Secretary or Recorder, or both, in any area not already covered, or who knows any person, whether a member of the Society or not, who might be suitable, is invited to communicate with the Hon. General Secretary.

[Copies may be obtained from the Hon. Assistant Secretary.]

[Revised May 1950.]

PANEL OF SPECIALISTS

- B.P.L. no. CRITICAL SYSTEMATIC GROUPS
2. *Thalictrum* L. Dr R. W. Butcher
 6. *Ranunculus* L. § *Batrachium*. Dr R. W. Butcher
 7. *Caltha* L. Prof. A. R. Clapham
 32. *Fumaria* L. N. Y. Sandwith
 35/1. *Nasturtium* L. (excluding *Rorippa*). H. K. Airy Shaw
 64/3. *Thlaspi alpestre* L. Prof. A. R. Clapham
 88. *Viola* § *Nomimium*. Dr D. H. Valentine
 88. *Viola* § *Melanium*. R. D. Meikle
 100. *Cerastium* L. (annual species). E. Milne-Redhead
 123. *Tilia* L. H. A. Hyde
 128. *Erodium* L'Hérit. Dr E. F. Warburg
 183. *Prunus* L. Dr R. Melville, Dr E. F. Warburg
 185. *Rubus* L. F. Rilstone (S. W. Peninsula), W. Watson
 190. *Alchemilla* L. S. M. Walters
 190(2). *Aphanes* L. S. M. Walters
 194. *Rosa* L. Dr R. Melville, N. Y. Sandwith
 195. *Sorbus* L. Dr E. F. Warburg
 196. *Crataegus* L. Dr E. F. Warburg
 199. *Saxifraga* L. § *Dactyloides*. R. D. Meikle
 220. *Epilobium* L. G. M. Ash
 247. *Apium* L. R. D. Meikle

296. *Galium* L. (*palustre* L. and allies). Prof. A. R. Clapham
 383. *Senecio* L. J. E. Lousley
 393. *Arctium* L. Dr W. A. Sledge
 395. *Carduus* L. Dr W. A. Sledge
 396. *Cirsium* Mill. Dr W. A. Sledge
 405. *Centaurea* L. E. Marsden-Jones
 478. *Centaureium* Hill. J. S. L. Gilmour
 480. *Gentiana* L. J. E. Lousley
 497. *Symphytum* L. A. E. Wade
 506. *Myosotis* L. A. E. Wade
 527. *Verbascum* L. J. E. Lousley
 545. *Euphrasia* L. Dr E. F. Warburg
 558. *Mentha* L. R. Graham
 596. *Amaranthus* L. J. P. M. Brenan, N. Y. Sandwith
 600. *Chenopodium* L. J. P. M. Brenan
 611. *Salicornia* L. Miss M. S. Campbell
 615. *Rumex* L. J. E. Lousley
 633. *Ulmus* L. Dr R. Melville
 642. *Betula* L. Dr E. F. Warburg
 650. *Salix* L. R. D. Meikle, Dr R. Melville
 651. *Populus* L. P. G. Beak, Dr R. Melville
 668. *Epipactis* Adans. V. S. Summerhayes, C. P. Thomas, Dr D. P. Young
 669. *Orchis* L. V. S. Summerhayes
 718. *Juncus* L. Dr P. W. Richards
 737. *Potamogeton* L. J. E. Dandy, Dr G. Taylor
 740. *Zostera* L. Prof. T. G. Tutin
 745. *Heleocharis* R. Br. S. M. Walters
 753. *Carex* L. E. Nelmes, E. C. Wallace
 754→ *Gramineae*. C. E. Hubbard
 780. *Agrostis* L. Dr W. R. Philipson
 826. *Festuca* L. Dr W. O. Howarth
 830. *Agropyron* Gaertn. Prof. T. G. Tutin
 844→ *Pteridophyta*. A. H. G. Alston
 872→ *Charophyta*. G. O. Allen

NOTE.—The specialists' names in the above list are given in *alphabetical* order when two or more are available for consultation.

Unlike the pre-war Panel of Referees (*B.E.C. Rep. 1936*, 639-646: 1938) this list includes only critical groups. Members may send their specimens direct to the specialist indicated, together with a stamped addressed envelope for reply. If the specimens submitted are required to be returned the necessary postage should be forwarded. Addresses as on pp. 8-18 of this Year Book.

Non-critical plants for identification should be sent to the Hon. General Secretary. It may not be possible to undertake to name plants of critical groups not covered by the above list.

It should be understood that the specialist is not necessarily prepared to name all specimens submitted. In some cases the specialist indicated may not yet have attained sufficient knowledge of the group he is studying. In other cases the material submitted may be incomplete, lacking adequate data or badly prepared. All the specialists will, however, do the best they can to identify plants submitted by members.

Unless it is reasonably certain that specimens will arrive in good fresh condition, they should be sent flat in paper between stiff mill-boards to prevent shrivelling. Dried pressed specimens may be sent similarly. Specimens should be carefully labelled with locality, habitat, date and any other notes likely to be of use. Whenever possible specimens should be submitted in duplicate, so that the specialist may retain one specimen if he so desires. If only one specimen of a gathering is submitted it should be clearly stated whether its return is desired.

Any member who is studying a critical group and would like his name added to the Panel should forward particulars to the Hon. General Secretary for consideration by the Council.

MISCELLANEOUS SUBJECTS

Nomenclature: J. E. Dandy

Local Floras: N. Douglas Simpson

Vice-County Boundaries: J. E. Dandy

Maps: E. Milne-Redhead

Systematic Works and Monographs: N. Y. Sandwith

Foreign Floras and Foreign Field Work: A. H. G. Alston

Botanical Apparatus and Material: E. Milne-Redhead

Preparation of Botanical Specimens: E. Milne-Redhead

Location of Private Herbaria: J. E. Lousley

History of British Botany, before Linnaeus: Rev. Prof. C. E. Raven

History of British Botany, Linnaeus and after: J. S. L. Gilmour

Ecology: Prof. A. R. Clapham

Genetics in Relation to Systematics: Dr D. H. Valentine

Cytology in Relation to Systematics: Dr E. F. Warburg

Economic Uses of British Plants: Dr R. Melville

Phenology and Meteorology: E. Nelmes

Folk Lore and Popular Names: Miss M. S. Campbell

Members wishing to avail themselves of the privilege of consulting the specialists in the list, should write to them direct and enclose a stamped addressed envelope for reply. (Addresses as on pp. 8-18).

[Copies may be obtained from the Hon. Assistant Secretary.]

[Revised May 1950.]

PROGRAMME OF FIELD MEETINGS FOR 1950

June 25th to July 1st. ISLE OF MAN

Leader: Mr N. Mathieson

July 14th to 16th. THE PEAK DISTRICT

Leaders: Mr R. H. Hall, Mr F. T. Hall and Miss R. Carey

August 18th to 21st. NORTH LINCOLNSHIRE

Leader: Miss J. Gibbons

September 2nd. SURREY

Leader: Mr R. A. Graham

September 16th. HALLING DOWN (Kent)

Leaders: Dr R. Melville and Mr F. Rose

INSTRUCTIONS TO CONTRIBUTORS TO WATSONIA

Instructions to contributors to *Watsonia* will be found on the inside back cover of that periodical. More detailed instructions for Plant Records will be found in Year Book 1949, and reprints of these instructions will be supplied free to new members on application to the Hon. Assistant Secretary.

EXCHANGE SECTION**DISTRIBUTOR FOR 1950**

The Council are pleased to announce that Mr E. S. Edees has kindly undertaken to act as Distributor for the 1950 season.

As there is now no separate Exchange membership, all those who wish to take part in the Annual Exchange are asked to notify the Hon. General Secretary, so that the Society's records may be brought up to date.

EXCHANGE REGULATIONS.

[Copies of these Regulations may be obtained from the Hon. Assistant Secretary.]

PERSONALIA**STACHYS PALUSTRIS L. AND \times STACHYS AMBIGUA SM.**

Mr P. S. Green of the Dept. of Botany, The University, Birmingham, 15, is commencing work on the putative hybrid \times *Stachys ambigua*, between *S. palustris* and *S. sylvatica*. He would be very grateful for roots (or seeds) of *S. palustris* and of the hybrid, from different parts of the country. When the hybrid is growing with the parents he would be grateful for plants of these too. Anyone who is willing to help is asked to send the material to Mr Green at the above address with information as to locality, habitat, soil, etc.

SYSTEMATICS ASSOCIATION: RESEARCH COMMITTEE.

Mr B. L. Burtt, Convener of the above Committee, asks members who are engaged in autecological and/or cytogenetic-taxonomic researches on the British Flora to co-operate with the Committee by notifying him the names of the species being studied. By doing so, it will be possible to obviate overlapping between different workers unknown to one another, and will enable him to give information about the work going on in any particular group. Particulars should be sent to Mr B. L. Burtt, Royal Botanic Gardens, Kew, Richmond, Surrey.

E. J. BRILL'S BOOK LIST.

The Society receives the above and the Hon. Assistant Secretary will be pleased to forward it to any member interested.

GALIUM (SECT. LEPTOGALIUM)

Professor D. Ehrendorfer, III/40, Rennweg 14, Vienna, is investigating the above section of Galium, which includes our species, from a systematic, geographical, ecological and cytological point of view. He would be grateful of seed of our species from as many different types of habitat as possible, and would offer seed or herbarium material of Austrian plants in return.

OBITUARIES

SIR GEORGE CHESTER (1886-1949) was a member of this Society from 1913 to about 1927 and contributed parcels to the Exchange Club in six of the first seven years of his membership. He supplied a very large number of records to Druce's *Flora of Northamptonshire*, including various *Rubi*. A prominent member of the Trades Union Congress and chairman of their Economic Committee, he was knighted in 1948, and became a Director of the Bank of England in March 1949 some six weeks before his death. His most active botanical work was done between 1908 and 1930 while he was Secretary of the Kettering and District Naturalists Society. Political activities made ever increasing demands on his time during the later years of his life.

J. E. LOUSLEY.

LT.-COL. G. A. R. WATTS (1873-1949), a retired officer of the Indian Cavalry, died at Fleet, Hampshire, on November 9, 1949. He contributed many records to Fraser and Keble Martin's *Flora of Devon*, and was particularly active in investigating the south-western counties while he lived at Tiverton, and later the country round his home at Fleet. Watts took specimens of most of his finds and sent them to the Natural History Museum, Kew, and to specialists to be named or confirmed, but he did not form a herbarium of his own. He wrote up each day's work in detail in diary form and also wrote descriptions of each new plant found in another series of note-books. These, and the diaries (which are incomplete), have been deposited at the Natural History Museum through the kindness of his widow. She also sent me a book containing some pressed specimens, most of which were unlocalised. He lived in Switzerland at Chateau d'Oex from December 1921 to September 1923, and his note-books recording 753 species make particularly interesting reading, while a stay at Diano Marina and Tenda, Italy, in May 1934, provides 427 species. Although most of his best work was done alone, his quiet dignity made him an always popular member of botanical gatherings and his presence will be missed at meetings of this Society, which he joined in 1927.

J. E. LOUSLEY.

NEWS OF OTHER SOCIETIES

Under this heading we include, as space permits, information regarding other Societies which have botanical sections. We extend a cordial invitation to such Societies to contribute short notes to be considered for inclusion. It should be understood that under this heading nothing pertaining to advertising matter will be accepted. (Such matter should be included among advertisements.)

We have pleasure in bringing the following to the notice of our Members:—

THE LONDON NATURAL HISTORY SOCIETY

We have received a list of the Field Meetings of the Botanical Section of this Society, which are numerous and interesting. Members wishing to attend as guests should apply to Mr H. A. Toombs, the General Secretary, British Museum (Nat. Hist.). Ecological work is continuing at Bookham Common and on the City Bombed Sites; other meetings are at Church Cobham, Whitewebbs Park; Ruislip Common and Woods, Hatfield House, Epping, Pitsea Marshes.

BIRMINGHAM NATURAL HISTORY AND PHILOSOPHICAL SOCIETY.

This society is beginning to collect records for a new Flora of Warwickshire, and would like help from as many people as possible. Anyone living in Warwickshire, or likely to botanize in the county, who is willing to assist, is asked to communicate with the Hon. Sec. of the Botanical Section:—Mr R. C. Readett, 1 Tetley Road, Hall Green, Birmingham, 11, who will give details of the information required with each record.

MEMBERS' ADVERTISEMENTS

A few copies of the *Flora of Gloucestershire* are still available, price 3 guineas; and may be obtained from the Hon. Librarian, Cotteswold Naturalists' Field Club, City Library, Gloucester.

PROFESSIONAL ADVERTISEMENTS

A limited number of relevant advertisements will be accepted either for the Year Book or for *Watsonia*, or for both, as space permits. Enquiries should be addressed to Mr R. A. Graham, Mint House, Woodside Road, Northwood, Middlesex.

GEOGRAPHICAL LIST OF MEMBERS

(As at April 30th, 1950)

Localities are as far as possible placed within the vice-counties in the following order:—S.W., S., S.E., W., C., E., N.W., N., N.E., smaller towns and villages being inset under the larger towns.

After the number and name of each vice-county is given the name of the Local Secretary and Recorder for that vice-county; if these are different people, they are designated (L.S.) and (R.).

- S, Channel Is.
Jersey. Arsène, Bro. Louis.
- 1, W. Cornw. with Scilly.
J. E. Lousley (R.) for Scilly.
S.W. Penzance. Bolitho, Mrs A.
St Ives. Drabble, Mrs E.
E. Truro;
Penhallow. Rilstone.
- 2, E. Cornw.
S.E. Saltash Adams, Rev. J. H.; Hurst, C. P.
C. Bodmin. Sworder, Miss R. M.
- 3, S. Devon.
S.W. Plymouth. Phillips, E. M.
Plympton. Morley, Earl of.
S.E. Torquay. Crellin, Miss E. V.
Teigpmouth. Waterfield, R.
Newton Abbot. Martin, Rev. W. Keble.
Whimble. Steuart, Mrs G. M.
E. Bradninch. Thorold, C. A.
N.E. Exeter. Roberough Library
- 4, N. Devon.
F. A. Brokenshire.
N. Barnstaple. Brokenshire, F. A.
Braunton. Wright, Dr F. R. E
- 5, S. Som.
C. Taunton;
Corfe. Fox, Mrs Croker.
Yeovil. Palmer, W. E.
N. Minehead. Ellen, Miss D. M.
Exford. Amherst, C. T.
- 6, N. Som.
Mrs C. I. Sandwith.
S.W. Bridgwater;
Edington. Wickham, Miss C.
Stawell. Graham, Commander R. D.
W. Burham;
Winscombe. Rawlins, Miss E.
N (Bristol: see 34)
Nailsea. Swaine, Miss A. K.
Cleeve. Wethered, Miss D. M.
N.E. Bath Barton, Miss F. M.
Weston. Stevenson, Miss E. H.

7. N. Wilts.
 J. D. Grose.
 E. Marlborough. Marlborough College (Wedgwood Herb.), Mrs Wedgwood; Stewart, Mrs B. H.
 N. Devizes. Cobbett, Lt.-Col. W. O.
 Littleton Panell. Marsden-Jones, E.
 Wootton Bassett;
 Broad Town. Grigson, G.
 N.E. Swindon. Grose, J. D.
 South Marston. Weyer, Major B. G. van de.
8. S. Wilts.
 J. D. Grose.
 S.E. Salisbury. Willan, Mrs H.
 Harnham. Farquharson, Mrs J.
 W. Scagry. Barnes, Mrs E.
 Colerne. Frowde, Miss D. M.
 N.E. Ham. Partridge, Mrs F.
9. Dorset.
 S.E. Swanage. Bloomer, H. H.
 W. Charmouth. Waldy, Hon. Mrs H. P.
 Beaminster. Graveson, A. W.
 Blandford, Twist, A. F.
 E. Wimborne. Deakin, R. H.
 CricheI. Hardinge of Penshurst, Hon. Lady.
 N. Sherborne. Rose, Mrs E.
11. S. Hants.
 S.W. Bournemouth. Simpson, N. Douglas; Watt, Mrs H. B.; Palmer, Hon. W. J. L.
 Lymington. Goodhart, Mrs M. S.
 Keyhaven. Davy, Lady.
 New Milton. Maudsley, Capt. A. J.
 S. Fareham. Walters, S. M.
 Stubbington. Burton, C. W. M.
 N. Winchester (& see 12). Tindall, Mrs K. B.
 Sparsholt. Baker, Rt. Hon. H. T.; Jaques, Miss M.
 N.E. Petersfield (& see 12). Seward, Mrs O. G.
 West Meon. Smith, A. M. S.
12. N. Hants.
 S.E. Petersfield (& see 11).
 Alton. Langridge, C.
 Liss. Baring, Hon. Mrs G.
 W. Stockbridge;
 Leckford. Lewis, J. Spedan.
 Middle Wallop. Tisdall, J. H.
 Andover. Cory, Miss A. M.
13. W. Suss.
 Mrs P. German.
 S.W. Felpham. Cobbe, Miss A. B.
 S. Arundel. Esplan, Mrs C.
 S.E. Worthing. Gregor, Rev. A. G.; Lowne, B. T.; Buckle, O.
 Goring-by-Sea. Stern, Col. F. C.
 Durrington. German, Mrs P.
 Brighton (& see 14). Brighton Public Library; Wanstall, P. J.
 Portslade. Williams, Dr W. B.

- C. Pulborough. Bull, Mrs H.
 N.E. Horsham. Hurst, Miss B.; Williams, Rev. M. L.
- 14, E. Suss.
 S.E. Bexhill. Baylis, Miss D.
 E. Hastings;
 St Leonards. Andrew, E. S.
 Battle. Garratt, Mrs B. E. M.
 N.W. E. Grinstead;
 Wych Cross. Dent, G.
 Forest Row. Parsons, Miss M.
 N. Crowborough. Eyre, Mrs R. S. K.; Newbould, P. J.
 (Tunbridge Wells, see 16).
 N.E. Stonegate. Young, Rev. A.
- 15, E. Kent.
 F. Rose (R.).
 C. Ashford. Pope, C. N.
 Brook. Kirby, Mrs G. E.
 E. Denton. Long, Miss D. A. C.
 Margate. Wilson, L. W.
 N.W. Maidstone (& see 16).
 Aylesford. West, Dr C.
 N. Whitstable. Bell, P. R.
 Faversham. Verschoyle, Mrs W.
 N.E. Sandwich. Day, Miss E.; Graham, Mrs E.
- 16, W. Kent.
 D. McClintock (L.S.). F. Rose (R.).
 S. Tunbridge Wells. Municipal Museum.
 Tonbridge;
 Hildenborough. Turnbull, Miss E.
 E. Maidstone (& see 15).
 West Malling. Gray, H.
 East Malling. Rose, F.
 C. Sevenoaks. Slater, D. C.; Fawkes, F. S. E.
 Platt. McClintock, D.
 N.W. London;
 Bromley. Coxhead, G. W.; Kennedy, Mrs C. M.
 Bickley. Browning, F. R.; Watson, W.
 Beckenham. Howell, W.
 Eltham. Pittman, Mrs D. M.
 Penge. Chandler, Dr S. E.
 N. Gravesend;
 Meopham. Baker, C. M.
 N.E. Rochester;
 Strood. Pownall, Rev. G. C.
- 17, Surrey.
 J. E. Lousley.
 S.W. Haslemere. Swanton, E. W.
 Godalming. Allen, G. O.; Jekyll, F.
 Witley. Ash, G. M.
 Hindhead. Gray, Dr R. E. G.
 Charterhouse. Polunin, O. V.
 S.E. Redhill;
 Horley. Morgan, Miss B. M.; Gurteen, F. M.
 W. Farnham. Crundwell, A. C.; Leather, Miss V. M.; Stevens, Miss K. C.
 Guildford. Russell, Lady Victoria; Starr, Miss E. L. G.

- C. Epsom. Ellis, A. E.
Dorking. Raison, C. E.
- E. Caterham. Pigott, C. D.
- N. Wislay. Gilmour, J. S. L.; Scace, R. P.
Esher. Sladen, Dr W. J. L.; Wheatley, A. R.
Woking. Warren, W. E.; Warren, Mrs W. E.
- N.E. London.
- Kew. Baker, E. G.; Williams, I. A. Bor, Dr N. L.; Brennan, J. P. M.;
Burt, B. L.; Hubbard, C. E.; Marshall, H. S.; Meikle, R. D.;
Melville, Dr R.; Nelmes, E.; Salisbury, Sir E. J.; Sandwith,
N. Y.; Summerhayes, V. S.; Taylor, P.
- Richmond. Collenette, C. L.; Ramsbottom, Dr J. R.; Welch, Mrs B.
Petersham. Milne-Redhead, E.
Kennington. Woodhead, J. E.; Hodges, K. G.
Streatham Common. Lousley, J. E.
Tulse Hill. Sherrin, W. R.; South London Bot. Inst.
- Croydon. Hutchinson, R. R.; Leadbitter, Sir, Eric; Prime, C. T.
Sanderstead. Young, Dr D. P.; Payne, R. M.
Sutton. Wallace, E. C.
Surbiton, Jones, Miss M. M.; Price, Miss M. E.
18. S. Essex.
- B. T. Ward (R.).
S.W. Woodford Green. Hensler, Major E.; Brett, Miss O. E.
Leytonstone. Peterken, J. H. G.
S.E. Westcliff-on-Sea. Jermyn, S. T.
W. Chingford. Ward, B. T.
19. N. Essex.
- B. J. Ward (R.).
E. Colchester. Brown, G. C.; Wright, Mrs A. G.
Layr Marney. Campbell, Mrs.
N.W. Great Chesterford. French, Miss E. H.
20. Herts.
- S.W. Berkhamsted. Bannister, H. E.
Rickmansworth. Taylor, Dr G.; Young, Miss B. M.
- S. Hatfield. Vernon, P. F.
E. Hertford. Mortis, Mrs R. H.
N. Letchworth. Meyer, H.
21. Middx.
- D. H. Kent.
S.W. Twickenham. Gerrans, Miss M. B.
Staines. Grigg, H. C.
S. Hounslow. Westrup, A. W.
S.E. London (S.E., see 17).
London, S.W. British Museum (Nat. Hist.)—Alston, A. H. G.; Dandy,
J. E.; Ramsbottom, Dr J. R.; Taylor, Dr G.
Birkett, Lady; Clayton, Mrs M. H.; Davies, Mrs H. R.;
Eastwood, Mrs J. F.; Hardinge, Hon. Lady, of Pens-
hurst; Horticultural Society, Royal; Isaac, Miss M.;
Vivian, Miss C.; Eliot, Lady A.; Gardiner, J. C.;
Spooner, H.; Russell, Mrs B. H. S.; Phelps, Mrs J. V.
Green, P. S.; Kent, D. H.; Linnean Society of London;
W. Longfield, Miss C.; Mackintosh, W.; Taylor, Miss M.;
Hay, J. A.
W.C. Crichton-Stuart, Lady C.
E. Aisford, Miss J. E.

GEOGRAPHICAL LIST OF MEMBERS

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 N.W. Bradshaw, A. D.; Calder, Dr M. G.; Harris, H. C.;
 Lambert, Miss J.; Price, W. R.; Wilkinson, J. S.; Wil-
 liams, Dr W. T.; Sinker, C. A.; Knox, Miss M.
 N. Marks, C. E.
- C. Edgware. Short, G. R. A. (London Nat. Hist. Soc.).
 Ealing. Cornwell, Miss W. J.; Small, Mrs L. P. M.; Collett, T. G.
 Wembley. Swaffield, Dr J. .
 N.W. Northwood. Chapple, J. F. G.; Graham, R. A.
 N. Tottenham. Brooke, Miss W. M. A.
 Muswell Hill. Bangarter, E. B.
- 22, Berks.
 Mrs P. Warburg (L.S.). Dr E. F. Warburg (R.).
 C. Reading. Butler, Miss K. I.; Ounsted, J.; Newey, P. M.; Erith, Dr A. G.
 Tilehurst. Williams, L. H.; Watson, Dr E. V.
 N. Didcot. Warner, S. A.
 Wallingford. Severn, Lady. .
 N.E. [Oxford, see 23].
 Appleton. Kitson, Miss B.
- 23, Oxon.
 Mrs P. Warburg (L.S.). J. H. Burnett (R.).
 S. Oxford. Beak, P. G.; Burnett, J. H.; Creed, Dr R. S.; Harley, Dr J. L.;
 Jones, E. W.; Marriott, Miss M. M.; University Depts. of Botany
 and Forestry; Warburg, Dr E. F.; Warburg, Mrs P.; White, F.
 Headington. Gough, J. W.; Roberts, T. V.
 Wheatley. Hassall, Mrs B.
 Sandford-on-Thames. Theobald, W. L.
 S.E. Henley-on-Thames. Atkinson, R.
 N.W. Chadlington. Roche, The Lady.
- 24, Bucks.
 Dr E. F. Warburg (R.).
 S.W. Henley-on-Thames;
 Fawley. Mackenzie, Major R.
 Marlow;
 Bourne End. Wood, Miss A. F.
 S.E. Slough. Marler, P.
 W. Aylesbury;
 Chearsley. Rawlins, Miss E.
- 25, E. Suff.
 Miss M. M. Whiting (L.S.).
 S. Ipswich;
 Claydon. Ridley, Hon. Mrs J.
 Woodbridge. Churchman, Miss N.; Churchman, Miss V.
 Saxmundham. Cranbrook, Dowager Countess of.
 N.E. Southwold;
 Blytheburgh. Whiting, Miss M. M.
- 26, W. Suff.
 F. J. Bingley (L.S.).
 N.W. Mildenhall. Southwell, Mrs M.
 Holywell Row. Bingley, F. J.
- 27, E. Norf.
 E. A. Ellis (R.).
 C. Norwich. Ellis, E. A.; Ribbons, B. W.
 Strumpshaw. Jermy, A. C.
 N.E. North Walsham;
 Happisburgh. Cator, Miss D

- 28, W. Norf.
 E. L. Swann (R.).
 S. Mundford. Adeane, Hon. Mrs H.
 W. King's Lynn. Libbey, R. P.; Swann, E. L.
 N.E. Walsingham. Gurney, J.
- 29, Cambs.
 S. M. Walters.
 S. Cambridge. Adair, G. S.; French, Miss E. H.; Mills, Dr J. N.; Mills, Dr W. H.; Raven, Rev. Prof. C. E.; Raven, J. E.; University Botany School; Walters, S. M.; Watchorn, Dr E.; Harberd, D. J.; Gilbert-Carter, Dr H.; Leywood, V. H.
- 30, Beds.
 Dr J. G. Dony.
 S. Dunstable. Coales, W. D.
 S.E. Luton. Chesham, F. L.; Dony, Dr J. G.; Verdecourt, B.
 C. Bedford. Cardew, Major J. W.; Lucas, R. L.; Taylor, Mrs S. E. Sandy. Allison, Miss J.
 N.W. Harrold. Day, Miss G. H.
- 31, Hunts.
 Dr J. G. Dony.
- 32, Northants.
 C. Northampton;
 Wootton. Allen, H. G.; Northants Nat. Hist. Soc.
 E. Wellingborough. Gent, Mrs G. M.
 N.E. Wansford. Gilbert, J. L.
- 33, E. Glos.
 C. C. Townsend (L.S.). W. R. Price (R.).
 S.W. Stroud (& see 34).
 Bussage. Abell, Rev. R. B.
 Bisley. Hughes, Dr M.
 Gloucester. Fleming, Dr G. W. T. H.; Miles Williams, J.
 Hucclecote. Haines, J. W.; Haines, Mrs J. W.
 C. Cheltenham. Cheltenham & District Nats. Soc.; Sprague, Dr T. A.; Townsend, C. C.
 Andoversford. Abell, Miss L.
- 34, W. Glos.
 W. R. Price (R.).
 S.W. Bristol (incl. Clifton : & see 6). Davie, Dr J. H.; Evans, I. W.; Sand with, Mrs C. I.; Skene, Prof. M.
 S. Abbots Leigh. Davies, Miss E. W.
 N. Newent. Southall, A. W.
- 35, Mon.
 A. E. Wade.
- 36, Heref.
 F. M. Day (R.).
 E. (Near Malvern, see 37).
 Colwall. Day, F. M.
 Ledbury. Farquharson, A.
- 37, Worcs.
 Dr R. C. L. Burges (L.S.). F. M. Day (R.).
 S.E. Chipping Campden;
 Broadway. Milvain, Mrs M.
 Evesham. Sidwell, R. W.
 W. Malvern (& see 36)
 Malvern Wells. Boucher, W. W.

38, Warw.

Dr R. C. L. Burges.

W. Studley. Southall, P.; Hyde, Miss M. M.

N.E. Birmingham. Birmingham Public Libraries; Birmingham Nat. Hist.
& Phil. Soc.; Burges, Dr R. C. L.; Cadbury, Miss D. A.; Good-
man, Miss C. M.; Hardaker, W. H.; Jacobs, V.; Readett, R. C.
Edgbaston. Green, P. S.; Ruxton, J. P., Thomas C. A
Shirley. Adams, L. T.
Moseley. Andrews, C. E. A.
Sutton Coldfield;
Four Oaks. Hill, S. A.

39, Staffs.

E. S. Edees.

C. Stafford;

Penkridge. Bates, Dr G. H.

N. Newcastle-under-Lyme. Edees, E. S
Hanley. Bemrose, G. J. V.

40, Salop.

E. Wellington. Heron, Miss M.

N. Whitchurch;

Prees. Chapman, Hon. Mrs D. B.

41, Glam.

A. E. Wade (R.).

S. Cardiff. McLean, Prof. R. C.; National Museum of Wales; Rees, J.;
Wade, A. E.
Llandaff. David, Miss A. M.
Ely. Smith, R. L.
St Brides-super-Ely. Cory, Mrs C. M.
W. Swansea. University College.
N.E. Merthyr Tydfil. Vaughan, J. G

42-44, Brecon, Radnor, Carm.

A. E. Wade (R.).

45, Pembr.

A. E. Wade (R.).

S.W. Dale. Conder, P. J.

46, Card.

A. E. Wade (R.).

47, Mont.

A. E. Wade (R.).

48, Mer.

A. E. Wade (R.).

Dolgelley. Richards, Mrs H. M.; Richards, Miss J. E.

49, Caern.

A. E. Wade (R.).

N. Bangor. Tully, I.; Richards, Prof. P. W.; Williams, Dr R. J.

50-52, Denb., Flint, Angl.

A. E. Wade (R.).

53, S. Lincs.

Miss E. J. Gibbons.

- 54, N. Lincs.
Miss E. J. Gibbons.
S. Lincoln. Baker, F. T.; Knott, E.
N. Calstow;
Holton-le-Moor. Gibbons, Miss E. J.
- 55, Leics.
F. A. Sowter (L.S.). Prof. T. G. Tutin (R.).
C. Leicester. Museum and Art Gallery: Sowter, F. A.; Taylor, S. A.,
Tutin, T. G.; Borrill, M.
University College: Conolly, Miss A.
- 56, Notts.
S.W. Nottingham. Natural History Museum.
Bramcote. Butcher, Dr R. W.
C. Southwell. Chalk, Miss B. M.
E. Newark. Howitt, R. J. L.
- 57, Derbs.
Miss K. M. Hollick (R.). R. H. Hall (L.S.).
W. Ashbourne. Hollick, Miss K. M.
N. Bakewell;
Chatsworth. Devonshire, The Duke of.
N.E. Buxton. Hall, F. T.; Hall, R. H.; Carey, Miss R.
- 58, Ches.
S.E. Holmes Chapel. Egerton, T. A.
W. Chester. Williams, E. G.
E. Congleton. Graddon, W. D.
N.W. Birkenhead. Jones, Miss P.
Wirral. Harvey, J. W.
N.E. Stockport. Hartley, J. W.
- 59, S. Lancs.
W. G. Travis (R.).
S.W. Liverpool. Duffy, T. S.; Travis, W. G.; Gordon, Miss V.
S.E. Manchester. Howarth, Dr W. O.; Laycock, T. R.; Manchester Museum:
Roger, J. G.
Salford. Frost, Miss L. W.
Leigh. Jones, A.
Didsbury. Ramsden, W.
Old Trafford. Jowett, D. W.
Pendlebury. Hopkins, B.
Oldham. Kidd, L. N.
W. Southport. Holder, F. W.; Southport Botanical Gardens Museum.
C. Wigan. Allen, D. B.; McCurdy, Dr J. M.
N.W. (Preston, see 60).
Ashton-on-Ribble. Bunker, H. E.
N. Blackburn.
Whalley; (see 64, Mitton).
Nelson. Turner, A.
- 60, W. Lancs.
S. Preston (see 59).
- 61, S.E. York.
Dr W. A. Sledge.
S.E. Hull. University College; Chandler, M. R.
Withernsea. Lewis, R.
W. York. (& see 62). Public Library.

62, N.E. York.

Miss C. M. Rob
 W. Thirsk;
 Catton. Rob, Miss C. M.
 Northallerton;
 Brompton. Yeoman, Miss R.

63, S.W. York.

Dr W. A. Sledge.
 S. Sheffield. Brown, J.; Clapham, Prof. A. R.; Whitehead, F. N.
 Bradford;
 Shipley. Shaw, G. A.
 Chellow Dene. Wells, Mrs E. M.
 N. Leeds (see 64).
 Wakefield;
 Ossett. Ellis, E. W.

64, M.W. York.

Dr W. A. Sledge.
 S.W. Skipton. Frankland, J. N.
 Ilkley. Foster, M.
 S. Leeds. Central Library; Merton, F.
 Headingley. Sledge, Dr W. A.
 Adel. Nelson, G. A.
 W. Long Preston (near Settle). Ackerley, Miss M. E.; Malham Tarn Field
 Centre.

65, N.W. York.

Miss C. M. Rob.

66, Durham.

Dr D. H. Valentine (L.S.). G. W. Temperley (R.).
 S. Darlington. Nicholson, J. B. (Darlington & Teesdale Nat. F.C.).
 C. Durham. Valentine, Dr D. H.; Durham Univ. Dept. of Botany; Gibby,
 Mrs A. N.
 N. Sunderland. Morton, J. K.

67, Northd. S.

G. W. Temperley.
 S.W. Allendale. Park, K. J. F.
 S.E. Newcastle-upon-Tyne. Blackburn, Dr K.; Clark, Dr W. A.; Harrison,
 Prof. J. W. Heslop; Thompson, B. H.
 C. Hexham;
 Corbridge. Cooke, R. B.
 Stocksfield. Temperley, G. W.

68, Northd. N.

G. W. Temperley.
 C. Wooler. Farmer, Dr A. J.

69, Westm. N. Lancs.

S.W. Barrow-in-Furness. Barrow Naturalists' Field Club.
 S. Dalton-in-Furness. Lumb, D.
 S.E. Grange-over-Sands. Jowett, Miss E. B.
 W. Broughton-in-Furness. Cross, Hon. M.

- 70, Cumb.
Miss C. W. Muirhead (Carlisle Museum) (R.).
S.E. Maulds Meaburn. Dent, Miss H. S. A.
Penrith. Stalker, Miss N. M.
W. Cocker-mouth;
Brigham Hinde, J. D.
N. Carlisle. Carlisle Public Library, Museum and Art Gallery.
Scotby. Boyd, R. A.
N.E. Wigton. Parkin, J.
- 71, Is. of Man.
D. E. Allen (R.).
Sewell, G. H.
- 72, Dumfr.
Thornhill. Daly, Mrs B.
- 73, Kirke.
Dr H. Milne-Redhead.
Mainsriddle. Milne-Redhead, Dr H.
- 77, Lanark.
Glasgow. Braid, Prof. K. W.; Lee, J. R.; Mackechnie, R.; Montgomery,
Mrs R.; Patton, Dr D.; Young, Miss G. A.
- 78, Peebles.
Dr G. Taylor (R.).
- 79, Selk.
Dr G. Taylor (R.).
- 80, Roxb.
Dr G. Taylor (R.).
- 81, Berw.
Dr G. Taylor (R.).
- 82, Hadd.
Dr G. Taylor (R.).
- 83, Edinb.
Dr G. Taylor (R.).
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Basden, E. B.
- 84, Linl.
Dr G. Taylor (R.).
- 85, Fife with Kinross.
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Windygates. Balfour, Mrs E. J.
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Miss M. S. Campbell.
Dunblane. Farquharson, Miss M. M.
- 88, M. Perth.
Miss M. S. Campbell.
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Dunning. Robson, A. W.
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- 90, Forfar.
Miss U. K. Duncan (L.S.). Dr G. Taylor (R.).
S. Dundee. Watson, H. G.
S.E. Arbroath. Duncan, Miss U.
Carnoustie. Ogilvie, W. B.
- 92, S. Aberd.
Aberdeen. Matthews, Prof. J. R
Rubislaw Den North. Lyon A. G.
- 93, N. Aberd.
Peterhead. Milne, Dr J. F.
- 94, Banff.
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- 105, W. Ross.
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Achnashellach Paget, Lady.
- 106, E. Ross.
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- 107, E. Sutherl.
Miss M. S. Campbell (R.).
- 108, W. Sutherl.
Miss M. S. Campbell (R.).
- 109, Caithness.
Miss M. S. Campbell (R.).
Thurso. Pilkington, A. D.
- 110, Out. Hebr.
Miss M. S. Campbell.
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- H.36, Tyrone.
Dungannon. Chambré, Mrs.
- H.38, Down.
Belfast. Carrothers, E. N.; Small, Prof. J.; Heslop-Harrison, J.
- H.39, Antrim.
Portrush. Chase, C. D.
Greenisland. Moon, J. McK.

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- Doguria. Cruttwell, Rev. N. E. G.

DISTRIBUTOR'S REPORT FOR 1948

It is my unfortunate duty to report a further decline in the number of sheets received for distribution, although there was an increase of two over last year in the number of members who contributed parcels. In consequence of the small number of gatherings represented one fears that the contributors of the larger parcels received a somewhat inadequate return. The specimens were all well prepared and the amount of material to each sheet was usually satisfactory.

It would save the distributor much of the time spent in writing up the report if contributors would send the details of each gathering set out in accordance with the scheme used in the reports. A separate slip of paper, 8 × 5 inches, should be used for each gathering.

The thanks of the Society are due to the following for their kind help in examining specimens and supplying notes: G. M. Ash, J. P. M. Brennan, J. S. L. Gilmour, R. Graham, J. D. Grose, C. E. Hubbard, J. E. Lousley, R. D. Meikle, R. Melville, E. Nelmes, E. F. Warburg, A. J. Wilmott.

Thanks are also due to the Council and Director of the National Museum of Wales for permitting the exchange to be carried out in the Department of Botany.

A. E. WADE.

Cardiff, December 1949.

LIST OF PARCELS RECEIVED

	Gatherings.	Sheets.	Duplicates
R. C. L. Burges	2	18	
Carlisle Museum	6	43	
E. S. Edees	6	100	
J. D. Grose	7	80	
R. Lewis	10	111	
J. E. Lousley	5	59	
B. T. Lowne	2	12	39
National Museum of Wales	1	12	
F. Rilstone	9	150	
E. C. Wallace	5	56	38
D. P. Young	2	18	
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	55	659	77

Ranunculus Lingua L. 64, S.E. Yorks.; Kelleythorpe Marsh, near Driffield, June 20th, 1948.—R. LEWIS.

Fumaria occidentalis Pugsley. 1, W. Cornwall; potato field, Lambourne Hill, Oct. 9th, 1948.—F. RILSTONE.

Erophila verna (L.) Chevall. (Ref. No. 5491.) 8, S. Wilts.; Countess, Amesbury, April 28th, 1948.—J. D. GROSE.

Erucastrum Pollichii Sch. & Spn. (Ref. No. 5702.) 8, S. Wilts.; Weather Hill, Everleigh, Sept. 8th, 1948.—J. D. GROSE.

Viola ——. (Ref. No. 5727.) 8, S. Wilts.; Tinhead Hill, Sept. 22nd, 1948.—J. D. GROSE. "I refer all the enclosed specimens to *V. arvensis* Murr. The weak, unbranched habit of some of the material suggests *V. arvensis* Jord. or *V. devexilata* Jord., but other, more robust specimens might equally well be considered starved or drawn-up states of *V. segetalis* Jord. or *V. deseglisei* Bor. Difficulties of this sort attend almost every attempt to identify British pansies with Jordan's "*arvensis*" segregates, and, until the whole complex has been re-investigated, I prefer to call such plants *V. arvensis* Murr."—R. D. MEIKLE. "Putting this away I have put it as *V. arvensis* Jord."—A. J. WILMOTT.

Spergula Morisonii Boreau. 14, East Sussex; abundant amongst ericaceous shrubs in a nursery, Broadwater Forest, May 15th, 1948. This species was described as an addition to the British flora by Pugsley in *The Naturalist*, 1948, 3-4, and with Mr D. McLintock I refound the locality from the descriptions there given by the elimination of all alternative localities. There can therefore be no doubt that this nursery is the place where Pugsley originally found it but I feel that it must be regarded as an alien of recent introduction unless it can be found elsewhere under less suspicious circumstances. The plant is abundant over about an acre and most of the plants collected were gathered from a heap of rubbish thrown over the fence after weeding.—J. E. LOUSLEY.

Ulex minor Roth. 70, Cumberland; edge of Sowerby Wood, among ling, Newby Cross, Carlisle, Sept. 16th, 1948.—C. W. MUIRHEAD, comm. CARLISLE MUSEUM.

Prunus domestica L. × *insititia* L. (Ref. No. 5486.) 7, N. Wilts.; Iddington, March 26th, 1948, and Aug. 12th, 1948.—J. D. GROSE. "This may well be a hybrid of the suggested parentage although nearer to the bullace than the plum. In *P. insititia*, typically, the peduncles are puberulent and the calyx lobes ciliate, with the inner surface glabrous except for a few scattered hairs at the base. On the other hand, *P. domestica* has the peduncles commonly glabrous (puberulent on some forms) and the calyx lobes ciliate, with the inner surface tomentose near the whole surface or sometimes only at the base. The specimens

have the peduncles glabrous, and the calyx of the typical bullace kind. The fruits in size and shape resemble the bullace. Plants with glabrous pedicels occur fairly frequently in Britain, but I have not yet been able to decide whether they should be regarded as a separate variety or subspecies distinct from the Continental forms with puberulous peduncles or that hybridisation with the plum has taken place. Both plum and bul'ace are hexaploids with somatic chromosome number 48, so that crossing may be expected."—R. MELVILLE. "I do not regard *P. domestica* and *P. insititia* as specifically separable. There is evidence that both are ultimately derived from *P. cerasifera* (diploid) \times *P. spinosa* (tetraploid) and the species may well have originated several times. Hybridisation between different strains has doubtless also occurred, and it is uncommon to find a plant with *all* the alleged characters of either *P. domestica* or *P. insititia*. I should prefer to call this plant *P. domestica* L. subsp. *insititia* (L.) Poiret, though it shows certain characters of subsp. *oecconomica* (Borkh.) C. K. Schneid (i.e. *P. domestica* L. sensu stricto). Notes of the flower colour (whether pure white or greenish) and stones freed from the flesh of the fruit are useful for determination in this species."—E. F. WARBURG.

Prunus spinosa L. var. *erythrocalyx* (Rouy & Cam.) [*P. spinosa* L. var. *lucida* (Clavaud)]. (Ref. No. 5487.) 7, N. Wilts.; Liddington, April 11th, 1948, and Aug. 12th, 1948.—J. D. GROSE. "From the descriptions this fits better *P. spinosa* L. var. *erythrocalyx* (Rouy & Cam.), which flowers before the leaves appear and has a vinous calyx with teeth poorly developed, and corolla lobes broad and rounded."—R. MELVILLE. "This does not seem to be var. *lucida* Clav. as the leaves and flowers are not contemporaneous. It comes under '*P. vulgaris*' in Rouy & Camus' (1900, *Flore de France*, 6, 16) classification. There is, however, little point in giving names to the numerous small genetic variations of *P. spinosa*."—E. F. WARBURG.

Parnassia palustris L. (Ref. No. 1484.) 61, S.E. Yorks.; Kelleythorpe Marsh, near Driffield, Aug. 29th, 1948.—R. LEWIS.

Epilobium angustifolium L. (as *Chamaenerion angustifolium* (L.) Scop.). (Ref. No. 6853.) Long-podded form. 57, Derby.; Dore, near Sheffield, Aug. 8th, 1948.—E. S. EDRES. "Yes, the pods are certainly long, due I should say to habitat, etc. Haussknecht lists 14 forms for *Epilobium angustifolium*, and these plants would come under forma *macrocarpa*."—G. M. ASH.

Bupleurum fruticosum L. (Ref. No. 5563.) 3, S. Devon.; cliffs, Strete, July 8th, 1948.—J. D. GROSE.

Sium latifolium L. (Ref. No. 1488.) 61, S.E. Yorks.; in and around a pond near the railway between Withernsea and Patrington, west of Hellym, Sept. 4th, 1948.—R. LEWIS.

Bidens frondosa L. 41, Glam.; abundant on bombed sites in the centre of Swansea, Sept. 5th, 1948. A few days earlier Miss Vachell had shown this plant to Mr D. McClintock and myself growing in abundance by the canal at Cardiff. At Swansea most of the plants are growing in very much drier places and are generally much smaller (5-30 cms.) though here and there much larger plants occur.—J. E. LOUSLEY.

Artemisia —. 70, Cumberland; railway siding, Silloth docks, Aug. 8th, 1948.—C. W. MUIRHEAD, comm. CARLISLE MUSEUM.

Senecio vulgaris L. var. *radiatus* Koch. 39, Staffs.; originally from Shobnall Maltings, Burton-on-Trent, 1946, cultivated at Sanderstead, Surrey, Sowing "H," April 19th (Ref. No. 2514), and April 25th, 1948 (Ref. No. 2517). This sowing is the progeny of one plant "selfed." This strain differs from the Spondon strain (Sowing "K") in having blunt rays that soon roll back; in the Spondon strain (Sowing "H") they are slightly cucullate at the apex, and so are more rigid. Neither strain shows much variability. Probably both this and the Spondon strain would come under Trow's segregate *erectus*.—D. P. YOUNG.

Senecio vulgaris L. var. *radiatus* Koch. 57, Derby.; originally from British Celenese site, Spondon, 1946, cultivated at Sanderstead, Surrey (Sowing "K"), April 19th (Ref. No. 2515), April 25th (Ref. No. 2516), and May 14th, 1948 (Ref. No. 2534). This sowing is also the progeny of one plant, "selfed."—D. P. YOUNG.

Hieracium —. 70, Cumberland; roadside wall, Armathwaite Hall, Bassenthwaite, May 17th, 1948.—C. W. MUIRHEAD, comm. CARLISLE MUSEUM.

Centaurium pulchellum (Sw.) E. H. L. Kr. (Ref. No. 6108.) 14, S. Sussex; clayey ridge in Darvel Wood, Netherfield, Aug. 28th, 1948.—E. C. WALLACE. "There is no doubt that the specimens come under *C. pulchellum* (Swartz) Druce var. *ramosissimum* (Gaud.) Gilmour."—J. S. L. GILMOUR.

Rhinanthus minor Ehrh. (Ref. No. 6854.) 39, Staffs.; in long grass by the roadside, Darmouth Avenue, Newcastle, June 18th, 1947. Corollas bright yellow with blue teeth.—E. S. EDDES. "I cannot call this anything but *R. minor* Ehrh. Some plants have a pair of 'intercalary' leaves, but they are not what has been called *R. stenophyllus* (Schur) Druce."—A. J. WILMOTT.

Mentha spicata Huds. Small form. 1, W. Cornwall; roadside waste ground, Lambourne Hill, Perranzabuloe, Aug. 23rd, 1948.—F. RILSTONE. "Yes, the specimens appear starved; a more accurate name is *Mentha spicata* L. em. Huds."—R. GRAHAM.

×*Mentha gentilis* L. var. *variegata* (Sole) Sm. (Ref. No. 6109.) 13, W. Sussex; Bexley Hill, Aug. 22nd, 1948.—E. C. WALLACE. "Excellent specimen of a Mint, which is probably always a garden outcast. The verticels of Sole's specimen are on much longer peduncles."—R. GRAHAM. "The variegation looks suspiciously like a pathological state (e.g. virus disease); the achlorophyllose areas spread outwards from the nerves, and in the centre are brown with decay. The existence of a varietal name with synonymy and previous British record shows that (assuming that the present plant is identical with that of Sole, etc.) the condition has occurred on previous occasions."—D. P. YOUNG.

Scutellaria minor L. (Ref. No. 3427.) 17, Surrey; Epsom Common, Sept. 1st, 1928.—E. C. WALLACE.

×*Stachys ambigua* Sm. 1, W. Cornwall; field border, Lambourne Hill, Perranzabuloe, Aug. 23rd, 1948.—F. RILSTONE.

Stachys ——. 1, W. Cornwall; border of a cornfield, Lambourne, Perranzabuloe, Aug. 23rd, 1948. A weed of cultivated ground allied to *S. palustris* but apparently distinct from it. I believe this plant has been responsible for much confusion with ×*S. ambigua* Sm. The hybrid, however, is a very different plant with flowers and root system very near *S. sylvatica* and it does not produce good seed. The plant of cultivated ground usually has paler flowers than *S. palustris*, the corolla tube often nearly white and so conspicuous, well-developed spikes are denser with more flowers to a verticel, the plant is tall (up to 5 ft.) and robust and grey-green and most of the leaves are distinctly stalked. As in *S. palustris*, the roots in autumn develop numerous fleshy jointed tubers.—F. RILSTONE. "Mr Rilstone presents a strong case for the existence of two different plants confused under the names ×*S. ambigua*. But I wonder whether the present plant is the descendent of a chance fertile hybrid between *sylvatica* and *palustris*, or possibly a back-cross with *palustris*? The lack of information on the cytology of *S. sylvatica* and the F₁ hybrid with the *palustris* makes it impossible to say whether sexual reproduction of the hybrid could ever be achieved. My sheet is not very homogeneous; the smaller of the two specimens has more the facies of *palustris*."—D. P. YOUNG. "The recorded chromosome numbers are: *S. palustris*, 2n = c. 64, 102; *S. sylvatica*, 2n = 48, 66. Further work is clearly needed and the numbers, due to various authors, do not seem satisfactory. They do, however, suggest the possibility of hybrids differing morphologically and of both fertile and sterile hybrids. It is highly desirable that Mr Rilstone's plant should be raised from seed to see the behaviour of its progeny and that its chromosome number should be determined. It may as he suggests be a distinct species though perhaps ultimately of hybrid origin."—E. F. WARBURG.

Galeopsis speciosa Mill. (Ref. No. 1473.) 61, S.E. Yorks.; in a pea field, on the east side of the River Hull, north of Hull Bridge, near Beverley, July 11th, 1948.—R. LEWIS.

Chenopodium album L. [*Chenopodium Zschackei* Murr.]. 1, West Cornwall; potato field, Lambourne Hill, Perranzabuloe, Aug. 23rd, 1948, seedling Aug. 4th, 1948 (from a late crop). I first saw this plant at Falmouth Docks in 1916 and latterly it has become a troublesome weed of broccoli and potato fields in Perranzabuloe. We knew it for long as *C. Berlandieri* Moq. Besides the small seeds it is notable for the purple mealiness of the rosettes of the seedling plants and frequently the amaranth-purple stain in the leaf-axils of mature plants. The last has disappeared from the dried specimens, all of which were cut to show it.—F. RILSTONE. "The specimens seen are not *Chenopodium Zschackei* Murr., which is a North American plant (though occurring here as an alien) now placed by Dr Aellen as a subspecies of *C. Berlandieri* Moq. The most striking character of the latter, and its subspecies, is to be seen in the testa of the seed, which is closely and minutely pitted, the ridges separating the pits forming the pattern of a honeycomb. The seeds of Mr Rilstone's plant show the radiating furrows on the testa accompanied by smaller and irregular roughnesses characteristic of *C. album* L.; their diameter is about 1.5-1.7 mm. which is well within the range of the last-named species. Purple mealiness also occurs not uncommonly in young plants of *C. album*, though the amaranth-purple stain in the axils is certainly unusual; it does occur, but always apparently paler and less vivid than in *C. Berlandieri* and its hybrid with *C. album* ($\times C. variabile$ Aell.). Mr Rilstone notes that the stain occurs 'frequently' in the Cornish plant; it would be worth knowing if the examples distributed actually showed it when alive; the colour more or less disappears in drying. I can thus refer Mr Rilstone's plant only to *C. album* L., in a wide sense, though though it may well be a form alien in origin. Similarly robust and unusual-looking forms occur not infrequently on tips and in the neighbourhood of ports."—J. P. M. BRENNAN.

Polygonum lapathifolium L. with the appearance of *P. Persicaria*. 1, W. Cornwall; field weed, Lambourne Hill, Perranzabuloe, Aug 30th, 1948.—F. RILSTONE. "This form has been noted in North Wiltshire several times. It grows to a greater height than other forms, and I am inclined to associate it with damp habitats."—J. D. GROSE. "I should call this robust *P. nodosum* Pers."—A. E. WADE.

Rumex tenuifolius (Wall.) Löve. 26, W. Suffolk; Thetford Warren (which is in the borough of Thetford, Norfolk), June 26th, 1948. This characteristic Breckland plant has been well known to British botanists for nearly 70 years and has sometimes been labelled *R. Acetosella* L. var. *angustifolius* Koch, or var. *tenuifolius* Wallr. Löve's cytogenetic work showed that similar Scandinavian plants had the tetraploid chro-

mosome number $2n = 28$ against the hexaploid number $2n = 42$, of *R. Acetosella* and that it differed from that species in the size of the fruits and anthers as well as in the narrower leaves. He raised it to specific rank in *Botaniska Notiser*, 1941, 99-101, 1941. Independently I had found that it remained constant in leaf-shape, although greatly increased in size when grown in my Surrey garden. Knowledge of its British distribution is incomplete but the localities so far known to me indicate that the northern and eastern type of range in this country as shown by Löve (*Bot. Not.*, 1941, 165, fig. 10, 1941) is approximately correct. It is not restricted to sandy soils.—J. E. LOUSLEY.

Ulmus glabra Huds. \times *stricta* Lindl. [*Ulmus hollandica* Mill.] 1, W. Cornwall; Lambourne, Perranzabuloe, June 29th, 1948, leaves only. This and *U. stricta* Lindley are both considered hybrids yet in Cornwall, both, as Elwes and Henry state, "grow in every valley and are certainly indigenous," while other forms of elm, in West Cornwall at any rate, occur sparingly. In v.c. 1 I have seen *U. glabra* Huds. only where planted. Production of suckers in Cornish trees of this species seems to be a response to cutting or damage. They occur plentifully by roadsides, but away from roads, as in the valley bottoms, the trees are almost always without suckers."—F. RILSTONE. "This is a hybrid of *U. glabra* Huds. \times *stricta* Lindl. The leaves show a combination of characters of the two species. Hybrids of this parentage are fairly frequent in Devon and Cornwall and also occur in Dorset. They usually lack well-developed corky flanges on the suckers and epicormic shoots that are characteristic of $\times U. hollandica$ v. *major* (Sm.) Rehd., the so-called Dutch elm, which is introduced in Cornwall."—R. MELVILLE.

Ulmus hollandica Mill. var. *major* Sm.; det. R. MELVILLE. 1, W. Cornwall; Lambriggan, Perranzabuloe, fruits: April 27th, 1948; foliage: June 24th, 1948. From a tree with branches more pendulous than usual and without the usual fan-shaped growth of the trees about it and so looking at a glance rather unlike *hollandica*. The trunk divides into two low down but the two branch stems remain erect.—F. RILSTONE.

Ulmus stricta Lindley. 1, W. Cornwall; Lambriggan, Perranzabuloe, fruits: May 4th, 1948; foliage: July 16th, 1948. The larger leaves are from the main branches; the smaller ones are from sucker growths and are characteristic of the hedge growth of the species.—F. RILSTONE. "Yes, excellent material of this species."—R. MELVILLE.

Urtica dioica L. cf. var. *pubescens* (Ledeb.) Trautv. (Ref. Nos. 6113a and 6113b.) 12, N. Hants.; bank of the Whitewater river near Diple, Mattingley, June 17th, 1948.—E. C. WALLACE. "Hegi (*Illustr. Fl. von. Mittel-Europa*, 3, p. 139) refers to two pubescent varieties of *U. dioica*—var. *pilosa* Asch. & Graebn., with the leaves thickly clothed with grey hairs, and var. *pubescens* Ledeb. with the whole plant

clothed with white hairs, and the stinging hairs few. Although I hesitate to place the plants distributed under either of these varieties in the absence of authentic material, I agree that they are nearer the latter."—A. E. WADE.

Salix pentandra L. (Ref. No. 1466.) 61, S.E. Yorks.; Kelleythorpe Marsh, near Driffield, June 20th, 1948.—R. LEWIS. "Yes."—R. MELVILLE.

Salix purpurea L. [var. *Lambertiana* (Sm.) Koch]. (Ref. No. 5489.) 7, N. Wilts.; Sevenhampton, April 18th and Aug. 15th, 1948.—J. D. GROSE. "Not quite typical var. *Lambertiana*, which has more abruptly cuspidate leaves."—R. MELVILLE.

Lagarosiphon major (Ridley) Moss. 17, Surrey; in flower, small pool near Teddington Lock, where it was discovered by Mr J. P. M. Brenan, Oct. 23rd, 1948.—J. E. LOUSLEY.

Juncus tenuis Willd. (Ref. No. 1478.) 34, W. Glos.; in and alongside a path in Marian's Inclosure, near the road between Staunton and Crossways, near Coleford, Forest of Dean, Aug. 9th, 1948.—R. LEWIS.

Iuzula pallescens (Wahlenb.) Wahlenb. 31, Hunts.; Denton Fen, June 27th, 1948. This species was first found in Britain at Woodwalton Fen by Mr E. W. Hunnybun on June 13th, 1907 (*B.E.C. 1907 Rep.*, 312-3, 1908; *Watson B.E.C. 1907/8 Rep.*, 159, 1908; *Proc. Linn. Soc. for Dec. 17th, 1908*, p. 7; *B.E.C. 1908 Rep.*, 338-9, 1909; *Journ. Bot.*, **47**, 117, t. 496, 1909). At this locality it occurs in original fenland and has been generally regarded as native but its discovery entailed such an extension of range from the nearest known localities in Scandinavia that some slight doubt necessarily remained as to its status in a single British station. Later it was found on a botanist's lawn at Pyrford, Surrey, v.-c. 17 (*Journ. Bot.*, **47**, 188 and 260, 1910) where it might well have been an introduction. I was therefore delighted when Mr Francis Rose brought me fresh specimens of *Iuzula pallescens* from Holme and Denton Fens in May 1948 and at the end of June 1st visited the locality with Dr R. C. L. Burges and Mr D. McClintock to obtain more mature material. We found the plant in considerable quantity on both sides of the road which divides the two fens, growing amongst the open birch woodland on peaty soil. It was mixed with *L. multiflora* and some plants seemed to be intermediates. In this second locality in Huntingdonshire on the site of the margins of drained Whittlesey there seems no reason to doubt that it is native and the status at Woodwalton is confirmed.—J. E. LOUSLEY.

Alisma gramineum Gmelin. [*Alisma plantago-aquatica* L. f. *graminifolium* Wahl.] 37, Worcs.; in several inches of water, muddy edge of Westwood Park Pool, Droitwich, Aug. 15th, 1948.—R. C. L. BURGESS. "This is *A. gramineum* Gmelin, which is widely distributed in Europe. An account of the species is in preparation."—J. E. LOUSLEY.

Potamogeton coloratus Hornem.; det. W. A. SLEDGE. (Ref. No. 1486.) 61, S.E. Yorks.; Kelleythorpe Marsh, near Driffield, Aug. 29th, 1948.—R. LEWIS.

Zannichellia palustris L. 70, Cumberland; River Petteiril, Newton Reigny, near Penrith, July 27th, 1948.—M. HENDERSON and C. W. MUIRHEAD, comm. CARLISLE MUSEUM.

Carex pseudocyperus L. (Ref. No. 1458.) 63, S.W. Yorks.; in and around Balne Ponds, between Selby and Doncaster, June 19th, 1948.—R. LEWIS. "Correct. One specimen with compound lower spikes, a not uncommon occurrence in this species."—E. NELMES.

Carex curta Good. (Ref. No. 1449.) 62, N.E. Yorks.; Gormire Lake, near Thirsk, May 17th, 1948.—R. LEWIS. "Correct."—E. NELMES.

Carex divulsa Stokes. (Ref. No. 6855.) 39, Staffs.; in a shaded hedge-bank opposite the church near Smallwood Manor, Marchington, Aug. 9th, 1948.—E. S. EDEES. "Correct."—E. NELMES.

Carex dioica L. f. *isogyra* (Ångstr. ex Fries) Kükenth. 38, Warwick.; Sutton Park, June 12th, 1947.—R. C. L. BURGESS. "Correct, good, typical examples."—E. NELMES.

Panicum sanguinale L. (*Digitaria sanguinalis* (L.)). 13, W. Sussex; well established on cultivated land, Worthing, Sept. 9th, 1947.—B. T. LOWNE.

Setaria verticillata (L.) Beauv. 13, W. Sussex; well established on cultivated land, Worthing, Sept. 9th, 1947.—B. T. LOWNE.

Agrostis stolonifera L. 70, Cumberland; railway siding, Silloth docks, Aug. 8th, 1948.—C. W. MUIRHEAD, comm. CARLISLE MUSEUM.

Deschampsia alpina (L.) R. & S. (Ref. No. 6120.) 105, W. Ross.; summit of Ben Alliqui, Torridon, July 18th, 1948.—R. MACKECHNIE and E. C. WALLACE.

Catabrosa aquatica (L.) Beauv. (Ref. No. 6851.) 39, Staffs.; growing in and by the side of a shallow stream shaded by trees, near Old Springs, Tyrley, Aug. 21st, 1948.—E. S. EDEES.

Poa palustris L. 41, Glam.; allotment on former town refuse tip, Splott, Cardiff, July 14th, 1925.—A. E. WADE, comm. DEPARTMENT OF BOTANY, NATIONAL MUSEUM OF WALES. "Correct."—C. E. HUBBARD.

Glyceria declinata Breb. (Ref. No. 6852.) 38, Staffs.; in a shallow pool in a field near The Lymes, Whitmore, growing with *G. fluitans*, July 21st, 1948.—E. S. EDEES. "Correct."—C. E. HUBBARD.

Puccinellia maritima (Huds.) Parl. (Ref. No. 6650.) 39, Staffs.; salt marsh between the canal and the river at Pasturefields, Stowe, July 17th, 1948.—E. S. EDEES.

Thelypteris palustris Schott. 61, S.E. Yorks.; Kelleythorpe Marsh, near Driffield, June 20th, 1948.—R. LEWIS.

Nitella opaca Ag.; det G. O. ALLEN. 102, S. Hebrides; Kiloran Farm Reservoir, Isle of Colonsay, June 2nd, 1948.—C. W. MUIRHEAD, COMM. CARLISLE MUSEUM.

DISTRIBUTOR'S REPORT FOR 1949

The number of sheets contributed was only 325, which is the lowest in the history of the Society. While this has made the Distributor's work all too easy, it is to be deplored that this valuable branch of the Society's activities has fallen to such a low level.

Amongst the new members there must be several who would welcome this opportunity of obtaining sheets of interesting critical plants. By collecting in localities which have been little worked they could help considerably in problems of distribution and add to the knowledge of plants generally. A few more keen workers would infuse fresh life into what appears to be a doomed section.

In the light of Mr Nelmes' paper on *Two Critical Groups of British Sedges* in the Society's Report for 1945 members will appreciate the excellent sheets of *Carex polyphylla*.

The thanks of the Society are due to the following Referees who have kindly examined parcels and supplied notes:—A. H. G. Alston, J. P. M. Brenan, J. E. Dandy and G. Taylor, R. A. Graham, J. E. Lousley, Dr R. Melville, E. Milne-Redhead, Prof. P. W. Richards, N. Y. Sandwith, Prof. T. G. Tutin, and S. M. Walters.

ERIC L. SWANN.

282 Wootton Road,
King's Lynn, Norfolk.

LIST OF PARCELS RECEIVED

	Gatherings.	Sheets.	Duplicates.
J. P. M. Brennan	2	23	
Carlisle Museum	8	56	
E. S. Edees	3	30	
J. D. Grose	8	90	
J. E. Lousley	1	7	
National Museum of Wales	4	56	
W. A. Sledge	3	36	
E. C. Wallace	3	27	29
	—	—	—
	32	325	29

Cerastium tetrandrum Curt. 102, S. Hebrides; cliffs at Uragaig, Isle of Colonsay, 28th May 1949.—Miss C. W. MURHEAD, comm. CARLISLE MUSEUM. "Undoubtedly *C. tetrandrum* Curt., but too young to show the very characteristic habit. A diagnostic character seldom used for this species is that, in fruit, the axis of the calyx is in line with the pedicel."—E. MILNE-REDHEAD.

Malva rotundifolia L. (*M. pusilla* Sm.). 17, Surrey; near Kemps' Farm, Buckland, 11th September 1949.—J. E. LOUSLEY. "Correctly named. Salmon gave the name *M. pusilla* Sm., forma *lasiocarpa* C. E. Salmon, in *Rep. Watson Ezech. Cl.*, 2, 436 (1915), to plants such as these with hairy fruits, but I find that the great majority of British and European specimens, at any rate at Kew, have the carpels more or less pubescent on the back; only on one or two sheets did the carpels seem to be quite glabrous. Hegi, 6, 488, states that the carpels may be finely hairy or glabrous. Salmon's form was raised to varietal rank by Druce in the second edition of the *British Plant List*. Mr S. Savage, Assistant Secretary of the Linnean Society of London, informs me that the carpels of the type specimen (sheet 870.18) of *Malva rotundifolia* L., in the Linnean Herbarium are pubescent (and, so far as can be seen, transversely wrinkled). This being so, it does not seem worth while to retain Salmon's forma *lasiocarpa* unless a name is also given to the much rarer form with glabrous carpels."—N. Y. SANDWICH.

Vicia angustifolia L. var. *Bobartii* Koch. 8, South Wilts.; sandy fallow, Sandy Lane, 8th June 1949.—J. D. GROSE. Flowers bright red. Plants slender, prostrate; growing in a sandy fallow.—J. D. GROSE (Ref. No. 5823).

Vicia angustifolia L. var. *segetalis* Koch? 8, South Wilts.; railway bank near Standerwick, 9th June 1948.—J. D. GROSE. Flowers bright red; mature pods black. In other respects it approaches *V. sativa*. Plants rather robust, straggling, growing in long grass and brambles on neutral soil. Some plants were over two feet long.—J. D. GROSE (Ref. No. 5526).

Vicia angustifolia L. near var. *segetalis* Koch. 8, South Wilts.; Liddington, 19th May 1948.—J. D. GROSE. Dull purple flowers of *V. sativa* but the mature pods are black. Plants robust, erect, growing in ungrazed chalk grassland but not, I think, a relict of cultivation. I believe this common form is often taken for *V. sativa*.—J. D. GROSE (Ref. No. 5493).

Vicia angustifolia L. near var. *segetalis* Koch. 8, South Wilts.; heath near Sandy Lane, 8th June 1949.—J. D. GROSE. Flowers bright red. Plants slender, straggling in bushes on acid soil.—J. D. GROSE (Ref. No. 5824).

Vicia angustifolia L. var. 8, South Wilts.; heath near Sandy Lane, 26th May 1949.—J. D. GROSE. Flowers bright red. Plants slender, erect. In open conditions on acid soil. I believe it to be a habitat form of No. 5824 near which it grew.—J. D. GROSE (Ref. No. 5810).

Callitriche obtusangula Le Gall. 35, Mon.; seen near New House, Rumney, 20th June 1949, new to the county.—A. E. WADE, comm. DEPT. OF BOTANY, NAT. MUSEUM OF WALES.

Apium inundatum (L.) Rehb. f. 102, S. Hebrides; in the stream at Tobar Fuar, Isle of Colonsay, 27th May 1949.—Miss C. W. MUIRHEAD, comm. CARLISLE MUSEUM.

Lactuca macrophylla (Willd.) A. Gray. 39, Staffordshire; outside a cottage, Back of Ecton, Wetton, 16th July 1949.—E. S. EDEES. "Yes—the plant with blue flowers resembling those of Chicory which is generally named *L. macrophylla* (Willd.) A. Gray. The taxonomy of the group is not easy and is complicated by the long hortical history of these garden plants and confusion of American and Caucasian species by early botanists resulting in nomenclatural problems. At least one other species has occurred several times as an established alien in Britain and Mr Edees' gathering is interesting as showing the variation in the plants of a single colony."—J. E. LOUSLEY.

Calystegia sylvestris (Willd.) R. & S. 70, Cumberland; Stanwix Bank, Carlisle, 8th August 1949.—Miss C. W. MUIRHEAD, comm. CARLISLE MUSEUM.

Mentha piperita L. var. *officinalis* (Sole). 70, Cumberland; Skirwith Beck, Skirwith, 27th August 1949.—Miss C. W. MUIRHEAD, comm. CARLISLE MUSEUM, det. R. A. GRAHAM.

×*Stachys ambigua* Sm. (*S. palustris* × *S. sylvatica*). 39, Staffordshire; waste ground near a farm, Shutlanehead, Whitmore, 12th July 1949.—E. S. EDEES.

Chenopodium rubrum L. 70, Cumberland; margin of village pond, Salt Cotes, near Newton Arlosh, 12th August and 17th September 1949.—Miss C. W. MUIRHEAD, comm. CARLISLE MUSEUM. "A small state."—J. P. M. BRENNAN.

Chenopodium murale L. 7, North Wilts.; Aldbourne Chase, 16th October 1949. Distributed owing to the abnormal size of the single plant from which all the specimens were taken. Plant over three feet in diameter with many prostrate branches.—J. D. GROSE. "Correctly named."—J. P. M. BRENNAN.

Chenopodium polyspermum L. var. *obtusifolium* Gaud. 41, Glamorgan; weed on flower beds, Bute Park, Cardiff, September 1949.—A. E. WADE, comm. NAT. MUSEUM OF WALES. "Correctly named."—J. P. M. BRENNAN.

Salsola pestifera Nelson. 63, South-west Yorks; rubbish dump, Arbourthorne, Sheffield, 14th September 1949.—Coll. JOHN BROWN, comm. W. A. SLEDGE. All specimens from one large plant 2 feet wide and 18 inches high.

Polygonum nodosum Pers. var. *Brittingeri* (Opiz) Britton. 41, Glamorgan; cultivated ground at Bute Park, Cardiff, 20th September 1949.—A. E. WADE, comm. NAT. MUSEUM OF WALES.

Ulmus stricta Lindl. 3, South Devon; roadside at Challaborough, 7th July 1949.—J. D. GROSE. "Yes. The small size of the leaves, which varies considerably on different sheets, the pubescence of the leaves and branchlets and the continued growth of many of the short shoots, all suggest that this gathering is from a juvenile individual. The height of the tree, between 12 and 15 ft., conforms with this evidence."—R. MELVILLE.

Juncus compressus Jacq. 98, Argyll. Grassy roadside verge and by runnels of water on the road of Lismore, westwards of Balnagowan, Lismore, 27th July 1949.—W. A. SLEDGE and E. C. WALLACE. Occurs here in plenty, undoubtedly native and appears to be the most northerly station so far observed in Western Scotland.—E. C. WALLACE. "Typical *J. compressus*."—P. W. RICHARDS.

Potamogeton obtusifolius Mert. & Koch. 27, East Norfolk; Sutton Broad, 31st August 1949.—E. S. EDRES. "Confirmed."—J. E. DANDY and G. TAYLOR.

Fleocharis acicularis (L.) Roem. & Schult. 70, Cumberland; margin of Thurstonfield Lough, near Carlisle, 16th August 1949.—Miss C. W. MUIRHEAD, comm. CARLISLE MUSEUM. "Exceptionally good fruiting material."—S. M. WALTERS.

Carex polyphylla Kar. et Kir. 29, Cambridge; dry roadside with coarse grass—*Dactylis*, *Arrhenatherum*, *Galium Mollugo*, *Chaerophyllum sylvestre*, etc., locally common near Cott Farm, between Babraham and Red Cross, near Cambridge. Densely caespitose herb with tough base. Lower sheaths whitish to straw-coloured. Leaves mid-green, rather glossy.—J. P. M. BRENNAN.

Carex diandra Schrank. 64, Mid-west Yorks; Tarn Moss, Malham, 8th July 1936.—W. A. SLEDGE.

Alopecurus aequalis Sobol. 29, Cambridge; on the muddy margin of a round pool, with *Rorippa amphibia*, *Polygonum* spp., a Batrachian *Ranunculus*, etc., between Babraham and Stapleford. Stems ascending. Sheaths and culms glaucous. Lemmas yellow-green. Spikes pale green. Anthers at first white, then orange.—J. P. M. BRENNAN (Ref. No. 9626).

Agrostis setacea Curt. 22, Berks.; gravelly ground near Lower Star Post, Bagshot Heath, 25th June 1949.—E. C. WALLACE. Very abundant on ground disturbed by recent military operations and extending over an area in both Surrey and Berkshire.—E.C.W.

Poa bulbosa L. 15, East Kent; locally abundant on shingle near the lighthouse, Dungeness, 1st May 1949.—E. C. WALLACE (Ref. No. 6548).

Festuca rubra L. var. *glaucescens* (Hegets. & Heer) Richt. f. *pubescens* Howarth: 70, Cumberland; sandstone cliffs, Fleswick Bay, St Bees Head, 2nd July 1949.—Miss C. W. MUIRHEAD, COMM. CARLISLE MUSEUM. Det. W. O. HOWARTH.

Festuca rubra L. var. *pruinosa* (Hack.) Howarth. 70, Cumberland; sandstone cliffs, Fleswick Bay, St Bees Head, 2nd July 1949.—Miss C. W. MUIRHEAD, COMM. CARLISLE MUSEUM. Det. W. O. HOWARTH.

Festuca tenuifolia Sibth. var. 7, North Wilts.; dry gravel pit, Spye Park, 8th June 1949.—J. D. GROSE. "Under the present accepted Rules of nomenclature it would appear that this grass should now be named *F. mutica* Retz. ad var. *hirtula* (Hack.) How. vergens. In my recent synopsis I had it under *F. tenuifolia* Sibth." W. O. HOWARTH.

Agropyron repens (L.) Beauv. var. *glaucum* Doell. Form with the lemmas awned. 41, Glamorgan; cultivated ground, Bute Park, Cardiff, 8th July 1949.—A. E. WADE, COMM. NAT. MUSEUM OF WALES. "This seems to be correctly named. The variety is described as having glaucous spikelets and short awns. There is, however, no constant correlation between awn length and glaucous spikelets as these characters are apparently inherited separately; var. *glaucum* Doell., is therefore defined by just one of the possible combinations of characters selected arbitrarily out of the whole range."—T. G. TUTIN.

Thelypteris palustris Scholt. 64, Mid-west Yorks; Askham Bog, York, 19th September 1949.—W. A. SLUDGE.

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<i>Alchemilla vulgaris</i> L. agg. in Britain. Walters (1949)	2 6
<i>Aphanes microcarpa</i> (Boiss. et Reut.) Rothm. in Britain. Walters (1949)	2 0
Corrected names of Roses distributed through the B.E.C. Wolley-Dod (1924)	1 0
<i>Crataegus monogyna</i> var. <i>xanthocarpa</i> . Brenan (1946-47)	1 0
Australian <i>Myriophyllum verrucosum</i> Lindley in Britain. Brenan & Chapple (1949)	1 6
<i>Artemisia Verlotorum</i> Lamotte and its Occurrence in Britain. Brenan (1950)	2 6
× <i>Senecio londinensis</i> . Lousley (1943-4)	1 0
British <i>Centaureas</i> of the <i>nigra</i> group. Britton (1921)	2 0
<i>Centaurea Scabiosa</i> L. Britton (1922)	2 0
<i>Lapsana intermedia</i> in Britain. Burti (1950)	1 0
<i>Taraxacum vulgare</i> (Lam.) Schrank. Druce (1919)	1 0
<i>Campanula alliariifolia</i> . Brenan (1946-47)	1 0
<i>Calystegia sylvestris</i> . Lousley (1946-47)	1 0
Qu'est ce que le <i>Solanum Dillenii</i> ? Thellung (1926)	0 6
<i>Solanum chenopodioides</i> . Wilmott (1943-4)	0 6
<i>Cuscuta europaea</i> var. <i>nefrens</i> . Verdcourt (1945)	0 6
<i>Euphrasia atrovioleacea</i> and <i>E. variabilis</i> . Druce and Lumb (1923)	0 6
<i>Rhinanthus</i> . Wilmott (1939-40)	2 0
Another British <i>Rhinanthus</i> with Pubescent Calyx. Wilmott (1949)	1 0
<i>Menthae Briquetianae</i> . Fraser (1924)	2 6
<i>Menthae Britannicae</i> . Fraser (1926)	2 0
Notes on <i>Mentha</i> . Fraser (1930)	1 0
Mint Notes, I. Graham (1949)	1 0
Teratological Forms of <i>Plantago lanceolata</i> . Flintoff (1930)	0 6
<i>Rumex</i> II. Lousley (1941-2)	2 0
Lines of Evolution and Geographical Distribution in <i>Rumex</i> Subgen. <i>Lapathum</i> . Rechinger (1949)	1 6

REPRINTS FOR SALE (continued)

Amaranthus blitoides. Sandwith (1946-47)	1 0
Ficus Carica. Lousley (1946-47)	1 6
Salix List in L.C. Fraser (1925)	1 0
Key to the British Species of Salix. Rechinger (1949)	2 6
Studies in the British Epipactis, I and II. Young (1949)	2 0
British Orchids in 1930. Hall (1930)	1 6
Orchis maculata and O. Fuchsli. Druce (1923)	2 0
British Marsh Orchids. Druce (1919)	2 0
Orchis pardalina. Wilmott (1943-4)	0 6
Orchis latifolia, Vermeulen, Pugsley, Wilmott (1945)	1 6
Ornithogalum umbellatum. Britton (1941-2)	1 0
N.W. European Juncus alpinus forms. Lindquist (1930)	2 6
Distribution and Ecology of Scheuchzeria palustris L. Sledge (1949)	2 0
Potamogeton Drucei Fryer in Fryer's correspondence. Druce (1919)	0 6
Carex microglochin. Druce (1923; also Tr. B. S. Edinb.)	0 6
Carex flava and C. muricata. Nelmes (1945).	1 0
British Carexes, VII. Nelmes (1946-47)	1 6
Another Hybrid Carex from Ireland. Nelmes (1949)	1 0
Avena strigosa. Marquand (1921)	1 0
British Fescues. Howarth (1946-47)	2 0
Note on Species Pairs in the Gramineae. Tutin (1950)	1 0

COLLECTED NOTES

Druce (1918). Papaver Rhoëas, Centaurium scilloides, Ajuga genevensis, Cystopteris . . . Dickeana	1 0
— (1921). Silene italica, Tillaea aquatica, Solidago cambrica	0 6
— (1921). Euphrasia septentrionalis, Orchis latifolia, Poa trivialis var. septentrionalis	0 6
— (1923). Rumex arifolius, Senecio erraticus	0 6
— (1924). Galium debile, New Taraxaca, Menthae	0 6
— (1926). New Alchemillas, New Hieracida, New Taraxaca	0 6

MISCELLANEOUS

Evolution and Classification of Flowering Plants. Parkin (1926)	0 6
Bombed Sites, London. Lousley (1943-4)	2 0
Abstracts from Literature. Wilmott (1945)	1 0